

Agile PLM 9.3.6 RUPs New Features Overview

Part No. F17452-16

Agile PLM 9.3.6 RUPs add User Experience, Admin Experience, Product Collaboration and PPM Enhancements, Platform Support Uptake, AutoVue Enhancements and EC MCAD 3.6 Usability to the product.

This document describes new features added in Agile PLM 9.3.6 RUPs.

NOTE: This document is a supplement to the release Readme and all other manuals, like the Capacity Planning Guide. It is intended to be an overview of the other documentation and does not replace the need to read and understand those documents. Errors contained in this document are not commitments to provide features.

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1. Agile PLM Training and Educational Resources provided by Oracle

Oracle offers extensive training and documentation for customers to learn about Agile PLM 9.3.6. Below is a list of resources:

- Installation software is available as a download from Oracle Software Delivery Cloud:
<http://edelivery.oracle.com/>
 - New versions of Automated Upgrade Tool (AUT) and Averify is published to My Oracle Support. Patch numbers will be available on the Resources Summary.
- Agile PLM Documentation Page at Oracle Technology Network (OTN):
<https://www.oracle.com/technical-resources/documentation/agile.html>
- Transfer of Information Recordings available through My Oracle Support: <https://support.oracle.com/>
 - Note: These are recording of Agile PLM Product Managers discussing the major new features each release. They are available to any customer with licenses and support for Agile PLM.
 - 9.3.6 recordings are available through Support Note 2220238.1
 - 9.3.5 recordings are available through Support Note 2090862.1
 - 9.3.4 recordings are available through Support Note 1962485.1
 - 9.3.3 recordings are available through Support Note 1589164.1
 - 9.3.2 recordings are available through Support Note 1512952.1
 - 9.3.1 recordings are available through Support Note 1220374.1
 - 9.3.0 recordings are available through Support Note 854537.1
- Twitter: <https://twitter.com/PLMOracle>
- Youtube: <https://www.youtube.com/user/OracleAgilePLM>

2. 9.3.6 RUP25 Enhancements

2.1. Support for IPC1752A Amendment 3

IPC1752A Amendment 3 is certified. Agile PLM Release complies with IPC 1752A with Amendments 2, and 3. Some of these functionalities are not supported. Please refer to Product Governance and Compliance User Guide for details.

3. 9.3.6 RUP24 Enhancements

3.1. EC Service Accepts BOM Quantity Value Less Than 1

If "PublishIntegerQuantities" in CAXConfig.xml sets to False (default), EC Service accepts a decimal value in the request from MCAD connector for publishing BOM quantity.

If "PublishIntegerQuantities" in CAXConfig.xml sets to True, only integer value is accepted for BOM quantity. The decimal part of the value will be truncated. For a value between 0 to 1 (e.g. 0.8), it will be converted to 0 and the related BOM with 0 quantity will not be published to the item assembly.

4. 9.3.6 RUP23 Enhancements

4.1. Workflow Diagram Visibility Control

Prior to 9.3.6.23, workflow summary diagram's visibility is not controlled by user privilege and it is always not visible to supplier users. Supplier users can only change the workflow status through the Next Status button, which is not as easy as changing the status through the workflow summary diagram. On the other hand, non-supplier users can see the workflow summary diagram as long as they have visibility to the routable object.

To improve the user experience, a new property "**control.WorkflowSummaryVisibility.enabled**" is added to agile.properties to control the visibility of the workflow name and workflow diagram of routable objects for both supplier and non-supplier users.

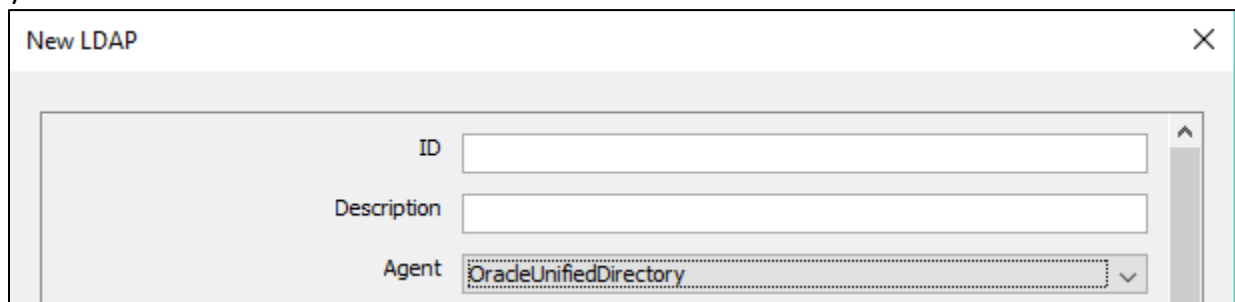
- **control.WorkflowSummaryVisibility.enabled=false**: no behavior change to the workflow summary diagram's visibility. It is a default value.
- **control.WorkflowSummaryVisibility.enabled=true**: the visibility of workflow name and workflow summary diagram is controlled by the read privilege to **<object>:Workflow.Workflow** and **<object>:Workflow.Workflow Status** attributes for both supplier and non-supplier users. Note that "Enforce Field Level Read" privilege should be applied to make field-level read effective.

Refer to Administrator Guide, Chapter 46 Agile Properties, Out of Box Properties section, for more information about this new property.

4.2. Oracle Unified Directory for LDAP Authentication

Oracle Unified Directory is supported for LDAP authentication in Agile PLM 9.3.6 RUP 23 and later. Oracle Unified Directory has the same feature support as other LDAPv3-compliant directory servers including support for use of User, Static Group and Dynamic Group filters.

Agile PLM 9.3.6 RUP 23 and later includes a new LDAP agent intended to be used with Oracle Unified Directory.



When configuring the Authentication Provider in WebLogic Server, use the Oracle Unified Directory Authenticator.

Home > Summary of Security Realms > AgileRealm > Providers

Create a New Authentication Provider

OK Cancel

Create a new Authentication Provider

The following properties will be used to identify your new Authentication Provider.

* Indicates required fields

The name of the authentication provider.

* **Name:**

This is the type of authentication provider you wish to create.

Type:

OK Cancel

Documentation explaining use of Oracle Unified Directory for LDAP authentication in Agile PLM can be found in the LDAP chapter of the Agile Product Lifecycle Management Administrator's Guide.

Detailed version support information for Oracle Unified Directory can be found in the Software Requirements section of the Agile Product Lifecycle Management Capacity Planning Guide.

5. 9.3.6 RUP22 Enhancements

5.1. Support of Import Validation for Maximum Date

Prior to 9.3.6 RUP22, when users enter the date value in any objects that have a date field, they can enter '12/31/9999' through the Web Client. But when users import any objects that have a date field to Web Client/AIS, the value will be automatically updated to '12/31/1999' which brings data inaccuracy.

Starting from 9.3.6 RUP22, users can import date to Web Client/AIS to a maximum of 12/31/9999. When user enters a date that exceeds the maximum number when importing, user gets an error in Validate Log:

While performing Datatype validation for '[sub-class]', the following message was received: Date value out of range: [invalid date].

Validate Log	
▼ Result	Begin validate. 10/10/2022 10:26:14 AM BST Complete validate. 10/10/2022 10:26:15 AM BST Warnings: 0 Errors: 1 Fatal Errors: 0
▼ Messages	Line 3[Part - Number: P00002]: While performing Datatype validation for 'Parts.Page Two.Date01', the following message was received: Date value out of range: 01/01/11111.

When user imports a date that exceeds the maximum number, user gets an error in Import Log:

While performing Datatype validation for '[sub-class]', the following message was received: Date value out of range: [invalid date].

Import Log	
▼ Result	Begin import. 10/10/2022 10:26:25 AM BST Complete import. 10/10/2022 10:26:25 AM BST Item <Created> 0(0 rejected,0 ignored) Item 1(0 rejected,0 ignored)
▼ Messages	Line 3[Part - Number: P00002]: While performing Datatype validation for 'Parts.Page Two.Date01', the following message was received: Date value out of range: 01/01/11111.

5.2. Upgrade CKEditor 4 to CKEditor 5

Prior to 9.3.6 RUP22, CKEditor 4 is used as the rich text editor for LargeText attributes.

Starting with 9.3.6 RUP22, CKEditor 4 is upgraded to CKEditor 5 for security compliance resulting in some functional and formatting changes as below:

1. CKEditor 5 does not support Internet Explorer 11.
2. Cut, Copy and Paste buttons are removed. Clipboard is used instead of buttons.
3. Paste from Word button is removed.
4. Paste as plain text button is removed.
5. Image alignment and formatting.
6. Table creation and modification.

For the complete information about the changes after upgrading to CKEditor 5, refer to Agile Product Lifecycle Management Administrator Guide and Getting Started with Agile Product Lifecycle Management.

5.3. Support for Additional HTTP Security Headers

Starting with 9.3.6 RUP22, support for the following HTTP security headers is added:

- Strict-Transport-Security
- Referrer-Policy

- Content-Security-Policy

These security headers are configurable via the properties below:

- Agile Application Server

Path: <AGILE_HOME>\agileDomain\config\ agile.properties

```
618 # Setting to true will use the default value, to override the default value provide custom value in the override field below.
619 WebSecurity.StrictTransportSecurity=false
620 WebSecurity.ContentSecurityPolicy=false
621 WebSecurity.ReferrerPolicy=false
622
623 # If security header above is enabled and below property has value it will override default value used.
624 WebSecurity.StrictTransportSecurity.override=
625 WebSecurity.ContentSecurityPolicy.override=
626 WebSecurity.ReferrerPolicy.override=
```

- File Server

Path: <FILE_MANAGER>\WEB-INF\classes\com\agile\webfs\configuration\WebSecurity.properties

```
19# Setting to true will use the default value, to override the default value provide custom value in the override field below.
20WebSecurity.StrictTransportSecurity=false
21WebSecurity.ContentSecurityPolicy=false
22WebSecurity.ReferrerPolicy=false
23
24
25# If security header above is enabled and below property has value it will override default value used.
26WebSecurity.StrictTransportSecurity.override=
27WebSecurity.ContentSecurityPolicy.override=
28WebSecurity.ReferrerPolicy.override=
```

The security headers are by default disabled with value of “false” and can be enabled by setting the property value to “true”. Once the security header is enabled by setting the value to “true”, the default security header value is used as detailed in the next subsections.

Customers will be able to provide their preferred value of the enabled security headers by using the override properties to meet their security level requirement. This works by setting the primary security header property to “true” and providing value in the override property.

```
# If security header above is enabled and below property has value it will override default value used.
WebSecurity.StrictTransportSecurity.override=
WebSecurity.ContentSecurityPolicy.override=
WebSecurity.ReferrerPolicy.override=
```

Modification to the properties file requires Server restart or File Manager.

Strict-Transport-Security

Once a supported browser receives this header, that browser will prevent any communications from being sent over HTTP to the specified domain and will instead send all communications over HTTPS.

Property Setting	Default Value
WebSecurity.StrictTransportSecurity	False
WebSecurity.StrictTransportSecurity.override	max-age=63072000

Referrer-Policy

This policy controls the value of Referrer in the Request Header.

Property Setting	Default Value
------------------	---------------

WebSecurity.ContentSecurityPolicy	False
WebSecurity.ReferrerPolicy.override	strict-origin-when-cross-origin

Content-Security-Policy

The HTTP Content-Security-Policy response header allows website administrators to control resources the user agent is allowed to load for a given page. With a few exceptions, policies mostly involve specifying server origins and script endpoints. This helps guard against cross-site scripting attacks.

Property Setting	Default Value
WebSecurity.ReferrerPolicy	False
WebSecurity.ContentSecurityPolicy.override	<p>Default value on Agile Application Server: please note 'unsafe-inline' and 'unsafe-eval' are required for script-src, 'unsafe-inline' is required for style-src.</p> <pre>default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval'; style-src 'self' 'unsafe-inline'; img-src 'self' data;; base-uri 'self'; connect-src 'self' <FILE_MANAGER_URL> ; form-action 'self' < FILE_MANAGER_URL > ; object-src 'none'; frame-src 'self' < FILE_MANAGER_URL > ; frame-ancestors 'self';</pre>
	<p>Default value on File Server: please note 'unsafe-inline' and 'unsafe-eval' are required for script-src.</p> <pre>script-src 'self' 'unsafe-inline' 'unsafe-eval' ; style-src 'self' ; " img-src 'self' data;; " base-uri 'self'; " form-action 'self'; object-src 'none'; font-src 'self' ; frame-src 'self'; frame-ancestors 'self' <AGILE_URL>;</pre>

5.4. Support for Microsoft Office/Project 2021

For Agile PLM 9.3.6 RUP22 and later, integration with Microsoft Office/Project 2021 is supported.

6. 9.3.6 RUP21 Enhancements

6.1. Warning Message for Invalid Value Input on CAD

If any attribute value input in the CAD system contains unsupported characters as defined in the character set rule of the Agile PLM attribute, the attribute will not be saved or updated in Agile PLM. Starting from 9.3.6 RUP21, a warning message will be logged in webservice.log if the log level sets to WARN (Default value is ERROR) in <AgileHome>\agileDomain\config\log.xml. The warning message will also be returned in webservice response.

6.2. Removal of Non-inclusive Words ("He," "She," "His," and "Her")

Prior to 9.3.6.21, the non-inclusive words "he," "she," "his," and "her" are used in Agile application user interface. Starting from 9.3.6.21, these words are replaced with gender-neutral pronouns. The phrase "he or she" is replaced with "they" and the phrase "his or her" is replaced with "their".

Listed below are the examples:

The role "Creator can read and discover object he or she created" is replaced with "Creator can read and discover object they created."

The error message "The user connected to the data source specified by the 'source' option uses 'en_US' as his or her preferred language." is replaced with "The user connected to the data source specified by the 'source' option uses 'en_US' as their preferred language."

6.3. Support for Basic Authentication for ACS Destinations using HTTP and HTTPS Protocol

Basic Authentication is now supported for ACS Destinations using HTTP and HTTPS Protocol. This enables ACS to support destinations using HTTP and HTTPS protocol in addition to a Basic Authentication scheme in which ACS will now provide authentication information (username and password) to respond to the HTTP server authentication challenge. Prior to this change, ACS Destinations using HTTP and HTTPS Protocol used an Anonymous connection.

6.4. Display of "Audit Release" Window Instead of "Audit Status" when Pass Release Audit is "Yes" or "Warning"

In previous releases, if Pass Release Audit was enabled for the status, the header of the pop-up window showed "Audit Status Results" and some of errors or warnings required to release the routable object were missing.

This behavior has been corrected starting from RUP21. If Pass Release Audit is Yes, Agile system performs an Audit Release together with an Audit Status for advancing a status or doing status auditing. All errors and warnings required to exit current status and release the routable object are displaying in the pop-up window with the header changing to "Audit Release Results" instead of "Audit Status Results". The same applies when Pass Release Audit is Warning and the user chooses "Continue" or "Yes" to the prompt.

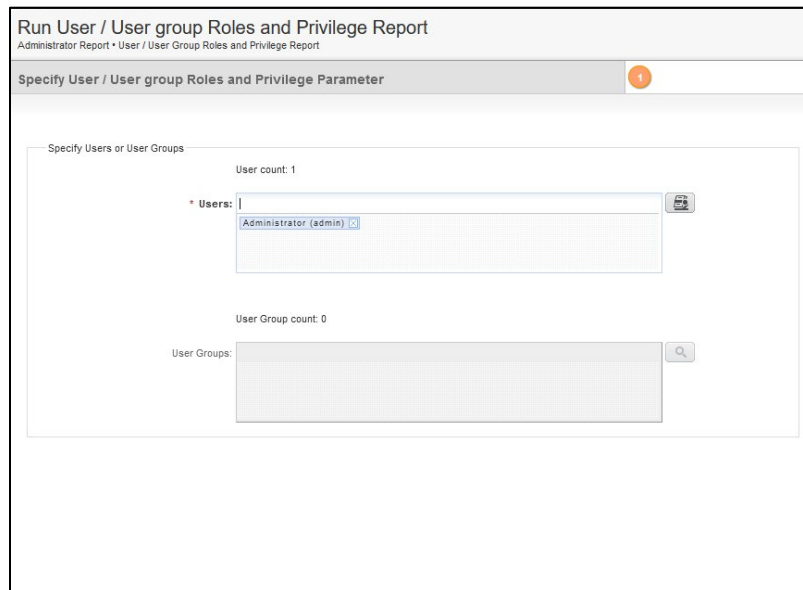
7. 9.3.6 RUP19 Enhancements

7.1. New User / User Groups Roles and Privileges Report

Prior to 9.3.6.19, administrator users had to run multiple reports such as *User Group Configuration Report* and *Privilege Summary Report* to manipulate and retrieve related data regarding the roles and privilege for users / user groups. This method is time consuming and very tedious. To improve user experience regarding this use case, a new report named *User / User Group Roles and Privilege Report* is introduced that directly generates the roles and privilege for users / user groups.

To access this new report, administrator users can navigate to **Analytics and Reports** tab > **Standard Reports** folder > **Administrator Reports** subfolder > **User / User Group Roles and Privilege Report**. Once executed, the administrator users have an option to generate role and privilege data for either users or user groups, but not both on a single run. Sample is provided on image A regarding this behavior:

Image A: Selecting Users section will disable the User Groups section.



When running the report, a CSV file will be generated that contains the roles and privileges of the selected inputs either for users or user groups. In addition, meaningful information regarding the report's result are displayed. Information includes:

1. Expected processed count – Displays the number of inputs successfully processed.
2. Actual processed count – Displays the number of actual inputs processed by the report adhering with the maximum row limit.
3. Unprocessed count – Displays the number of inputs that were not processed. It is only shown if not all inputs are processed.
4. Maximum row limit – Refers to the **Maximum Non-BOM Reports Results** value. If **Full Search Display** privilege is assigned to the administrator user running the report, then it is by default 500,000.
5. Table row count – Displays the total number of rows generated by the selected input.
6. Message – Displays message following the scenarios:
 - a. Processed all inputs – Successfully completed report.
 - b. Single selected input failed – Selected single input has exceeded maximum row limit. No output is displayed.
 - c. First input (out of many other input) failed – First input exceeds maximum row limit. The rest are ignored.

- d. Processed some inputs, but not all inputs – Partial completion of report due to rows exceeding maximum row limit.
7. Ignored – Shows the user ID for users or name for user groups ignored due to exceeding the maximum row limit. This label is only shown if there were ignored users or user groups.

The CSV file generated by the report has its rows limited by the Java Client's system preference setting **Maximum Non-BOM Reports Results**. When the administrator user running the report has the **Full Search Display** privilege, the **Maximum Non-BOM Reports Results** is ignored and the default maximum row of the report is set to 500,000.

Selected users or user groups that exceeds the maximum row limit will only process users or user groups within that limit. Subsequent users or user groups after the reaching the limit will be displayed in the report's "Ignored" list with their user ID or name respectively. The "Ignored" list will guide administrator users on determining how to batch users or user groups correctly to fulfill the use case of generating their roles and privileges. Samples are shown on image B and C. Due to the row limiting behavior, it is recommended to utilize saved searches to group users or user groups into batches in order to generate the report with ease.

Image B: Sample scenario when selected users exceed the maximum row limit of 3500.

Image C: CSV output of the report for users user1 to user4 showing only user1 being processed while the rest were ignored due to the maximum row limit being reached.

Expected processed User count: 4
Actual Processed User count: 1
Unprocessed User count : 3
Maximum row limit: 3500
Table row Count: 2555
Message: Partial completion of report due to rows exceeding maximum row limit.
Ignored: user2;user3;user4

There is also a maximum limit of users or user groups that can be selected for processing. This limit is set to 350 inputs. Thus, if the administrator user selected users greater than max inputs, the report will not execute. This sample scenario is shown on image D and image E.

Image D: Selected users have a count of 367 which is greater than 350.

The screenshot shows the 'Run User / User group Roles and Privilege Report' window. The title bar includes 'Administrator Report • User / User Group Roles and Privilege Report'. Below the title bar is a tab labeled 'Specify User / User group Roles and Privilege Parameter' with an orange indicator showing '1'. The main content area is titled 'Specify Users or User Groups'. It displays 'User count: 367' and 'User Group count: 0'. Under the 'Users' section, a list of selected users is shown: 'Administrator (admin)', 'user4 last name, user4 first name (user4)', 'user3 last name, user3 first name (user3)', 'user2 last name, user2 first name (user2)', and 'user1 last name, user1 first name (user1)'. Each item has a close button. There is also a search icon for 'User Groups'.

Image E: After clicking “Finish”, the report will throw an error.

The screenshot shows the same 'Run User / User group Roles and Privilege Report' window. A red error banner at the top of the main content area reads: 'Please select number of User with value less than the maximum input limit of 350'. The 'Specify Users or User Groups' section now shows 'User count: 0' and 'User Group count: 0'. The 'Users' and 'User Groups' input fields are empty, and the search icon for 'User Groups' is still present.

Image F: Sample scenario of duplicating rows for privilege “Read Supplier Created Declarations” due to Applied-To column being too large.

Image G: Sample of Applied-To values expanded to next rows related to image E on privilege “Read Supplier Created Declarations”.

As an important note, the following roles and privileges are necessary in order to see the details of the report:

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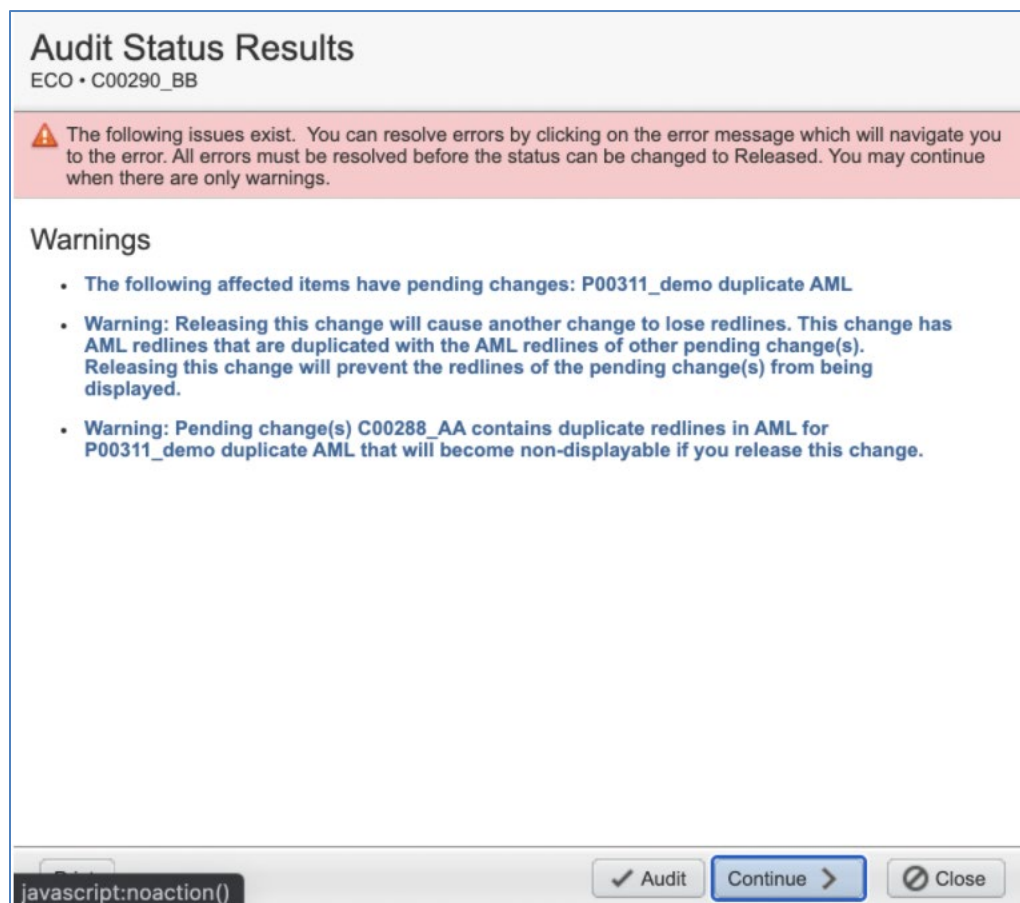
- b. Applied to General Info.Description
- c. Applied to General Info.Global/Personal
- d. Applied to General info.Role(s)
- e. Applied to General Info.Status
- f. Applied to Users.User name

7.2. Added Duplicate BOM/AML Validation When Releasing Changes

Prior to 9.3.6.19, when the same BOM/AML is added into parts in multiple change orders for the first time, releasing one change order will cause other unreleased changes to show duplicate BOM/AML redlines. System neither informs the user that there are duplicate redlines when releasing the change nor remove the duplication. The duplicate BOMs/AMLs will display under the redline table of the pending changes or BOM/AML tabs of the parts under pending changes' revision even if duplication is not allowed.

In 9.3.6.19, the duplication will be validated first when releasing one of change orders and then resolved when opening other unreleased change orders.

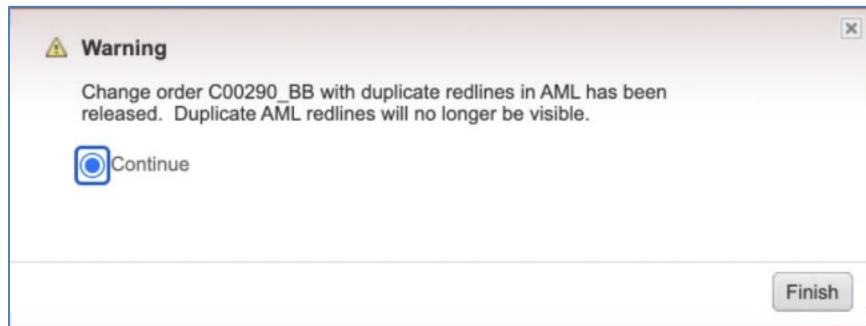
For AML, when adding the same AML to a part in multiple change orders, the system will prompt the user with warning messages when releasing one of the change orders.



Once a change is released, the system will prompt the user to remove the duplicate redlines when:

- Opening the Manufacturers redline tab of other unreleased changes with duplicate AML redline.

- Opening the Manufacturers tab of the Part under unreleased change revision with duplicate AML redline.

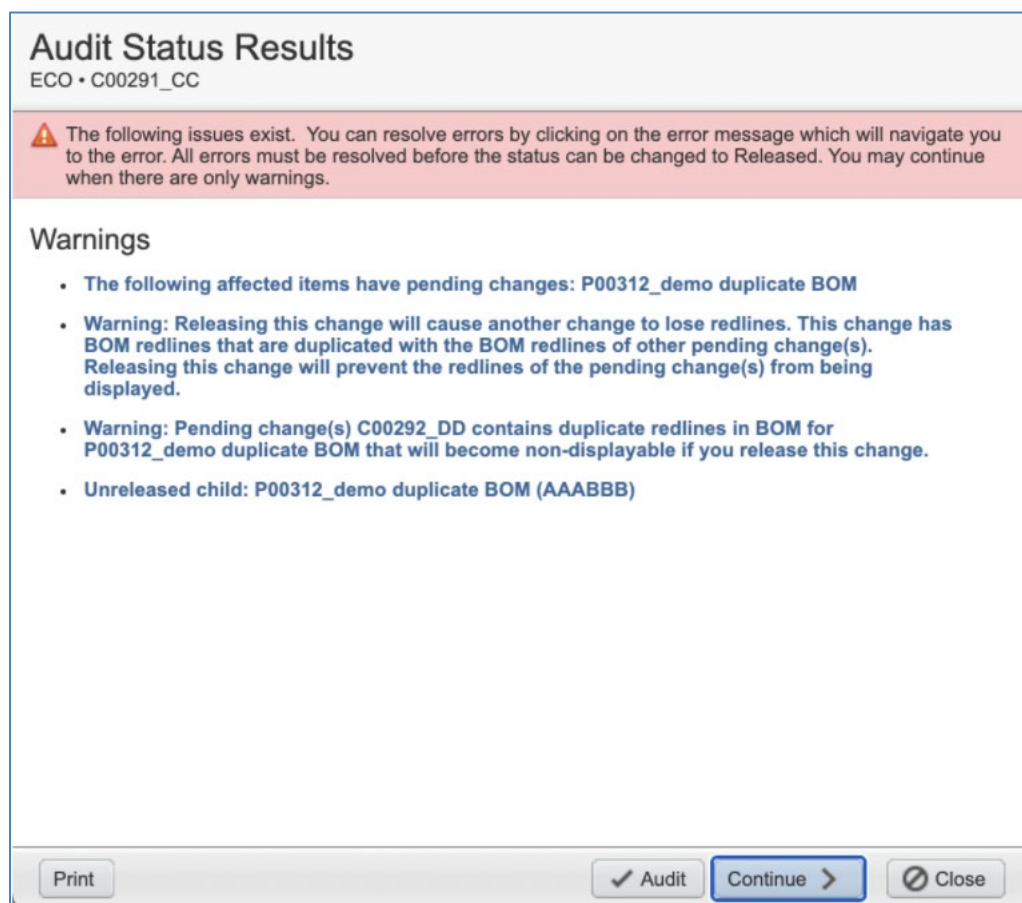


For BOM, there is a SmartRule "**Duplicate ItemNumbers**" with valid values: Allow, Disallow, and Warning (default) controlling whether or not duplicate item numbers are allowed in BOMs. The validation behavior vary upon each SmartRule setting.

When adding the same BOM to a part in multiple change orders and releasing one of the change orders:

If the SmartRule is set to **Allow**, the system will not prompt any warning message.

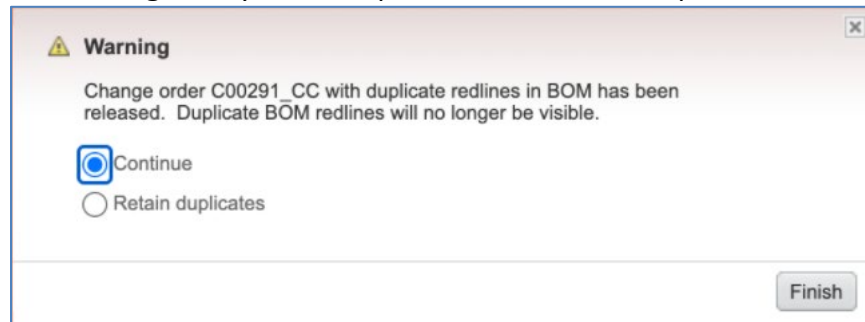
If the SmartRule is set to **Disallow** or **Warning**, the system will prompt the user with warning messages.



Once a change is released while the SmartRule is set to **Disallow** or **Warning**, the system will prompt the user to remove the duplicate redlines when:

- Opening the BOM redline table of other unreleased changes where duplicate BOM redline exists.
- Opening the BOM tab of the Part under unreleased change revision where duplicate BOM redline exists.

If the SmartRule is set to **Warning**, the system will provide an additional option to retain the duplicate redlines.



8. 9.3.6 RUP18 Enhancements

8.1. Support for Microsoft Project 2019

Support Microsoft Project 2019 for Agile PLM 9.3.6 RUP 18 and later.

8.2. Behavior change in 'Load Preview'

Introduced in 9.3.6.18, "Design Change" information is always displayed for all components of the assembly in "Load Preview." "Save Preview" has its current behavior retained. "Design Change" display is not controlled by the Lazy Load setting in "Load Preview," which is different from "Item Change" display in "Load Preview."

Below displays the changes before and after the fix.

Before Fix:

	Lazy Load = true		Lazy Load = false	
	Design Change	Item Change	Design Change	Item Change
Load Preview	Display top-level	Empty	Display top-level	Display all levels
Save Preview	Empty	Empty	Display all levels	Display all levels

After Fix:

	Lazy Load = true		Lazy Load = false	
	Design Change	Item Change	Design Change	Item Change
Load Preview	Display all levels	Empty	Display all levels	Display all levels
Save Preview	Empty	Empty	Display all levels	Display all levels

Note: "Load Preview" can be disabled in the Preferences of MCAD.

9. 9.3.6 RUP17 Enhancements

9.1. Support for Microsoft Office 365

Support Microsoft Office 365 for Agile PLM 9.3.6 RUP 17 and later. This excludes Microsoft Project 365.

10. 9.3.6 RUP16 Enhancements

10.1. Allow to Skip Compliance Calculation for Objects which are Excluded from Rollup

In Java Client Admin → Server Settings → Preferences, there is a setting "Maximum Rows for PGC BOM Rollup", which controls the maximum number of BOM rows that can be included in the compliance rollup. In PGC, even if a BOM item has Exclude from Rollup set to Yes, the rollup process will still traverse the full BOM tree (including that part and its children/AMLs) for the compliance calculation, but will not include these excluded items in the parent rollup compliance calculation. This behavior makes excluded items still be counted in the BOM's structure and considered by the "Maximum Rows for PGC BOM Rollup" setting, even if their compliance status does not have any impact on the calculation for their parents.

In order to stop the "Maximum Rows for PGC BOM Rollup" setting from counting excluded items, we are introducing a system property "*skip.item.excludedFromRollup*" in the *agile.properties* file. If this property is enabled, the system will fully exclude BOM items with Exclude from Rollup set to Yes. This means these excluded nodes will not have their own compliance checked / calculated at all which allows for the rollup of a larger number of BOM items. The change will apply for the both internal and external compliance rollup, but for the external rollup, the children's compliance status will not be shown if the compliance check is triggered from the top assembly. This is the existing behavior of the external rollup.

This solution can provide a performance improvement if your BOM has many items that are excluded from rollup. It may also allow you to get compliance rollup for the entire BOM if removing excluded items brings the number of BOM items to below the maximum limit. If there are no BOM items to set be excluded from rollup, or after removing the excluded items, the number of BOM items still exceed the max limit, this will not be addressed by this solution.

The detailed information about the new property "*skip.item.excludedFromRollup*" can be found from *Agile Product Lifecycle Management Administrator Guide, Chapter 46, Agile Properties*.

10.2. Support NX CAD File Types

CAD to Cloud integration only allows one model (part or assembly) to be related to a PD Item. A PD Item can have a Drawing and a model related but not two models. This rule is dependent on being able to properly identify models and Drawings for each supported CAD system.

Rup 16 provides the ability to switch the method used to identify Models and Drawings from the file extension to Design.p2.2010 (SubType).

10.3. User can disable attachment publish of a design

RUP 16 provides the ability to disable the attachment publish of some designs without affecting others. We can accomplish using the same mechanism that we use to disable the BOM publish of some designs by configuring a Design P2 attribute.

10.4. Date Format changed when fetched using Agile SDK

In SDK, date is available as a Java Date object. End users can convert it to their preferred format using Java Date Format. Users can get the date object in SDK and use toString() to output the string value of the date with the format based on the attribute's Date Time Format configuration.

	Before fix	After fix
Date Format Output via SDK using toString() method	YYYY-MM-DD HH:MM:SS	MM/DD/YYYY for "Date only" YYYY-MM-DD HH:MM:SS for "Date and Time"
Behavior Explanation	Date format is always the same for all Dates (YYYY-MM-DD HH:MM:SS) and not based on the date format on Attributes configuration.	Date format is based on the date format on Attributes configuration. It outputs MM/DD/YYYY when configuration is "Date Only" while "YYYY-MM-DD HH:MM:SS" when configuration is "Date and Time."

11. 9.3.6 RUP15 Enhancements

11.1. Improvements to User Usage Report

In the previous functionality, the User Usage Report only showed User Name, Login Count, and Login Duration on the generated spreadsheet file. Those three columns apply to both all user and selected user options. The generated report for both all users and selected users only included the active user with login count and login duration based on the report's date range.

In 9.3.6.15, the User Usage Report has improvements that include displaying more data columns, displaying users who have not logged in during the date range, sorting the result by descending based on login duration and login count, and validating values (last login date, login duration, and login count).

The enhancement applies read privilege on the attributes shown in the report. Please note that the Read All User Contact Info privilege, under the default My User Profile Role, applies a configuration where Title, First Name, Last Name, and Home Organization are included. Remove the said Read All User Contact Info privilege if the values of those attributes do not need to be displayed in the report.

The User Usage Report supports discover user privilege in the user group. Whoever runs the report will only see the users in the report as defined by the discover user privilege.

1	User Usage Report											
2	Name:	Agile Database										
3	Create Time:	12/13/2020 05:30:21 PM PST										
4	Start Date:	12/01/2020 05:27:51 PM PST										
5	End Date:	12/13/2020 05:27:51 PM PST										
6												
7	User Name	Title	First Name	Last Name	Status	User Group	User Category	Home Organization	User Create Date	Last Login Date	Count	Duration (minutes)
8	admin	No Privilege	agile	No Privilege	No Privilege	Sample User Group	No Privilege	No Privilege	12/09/2003 03:10:08 AM PST	12/10/2020 01:39:02 AM PST	34	9758.7
9	tdolph3	No Privilege	tdolph	not admin	Active	Sample User Group	Named	ACME	11/23/2020 12:42:24 AM PST	12/13/2020 05:27:26 PM PST	29	5377.06
10	demo1	No Privilege	Demo	No Privilege	No Privilege	Sample User Group	No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT	12/06/2020 07:03:47 PM PST	1	1468.35
11	tdolph	No Privilege	test	No Privilege	No Privilege	A9	No Privilege	No Privilege	11/06/2020 09:18:49 PM PST	12/03/2020 03:11:59 PM PST	1	474.76
12	reportuser1	No Privilege	report	No Privilege	No Privilege		No Privilege	No Privilege	12/03/2020 10:10:27 PM PST	12/06/2020 07:23:43 PM PST	4	201.51
13	demo5	No Privilege	Demo	No Privilege	No Privilege	Sample User Group	No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT	12/08/2020 04:26:04 PM PST	1	0.13
14	albert1	No Privilege	Albert	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
15	actuser1	No Privilege	actuser	No Privilege	No Privilege		No Privilege	No Privilege	11/03/2020 05:25:06 PM PST		0	0
16	chunyangm	No Privilege	Chunyang	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
17	daveo	No Privilege	Dave	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
18	brucec	No Privilege	Bruce	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
19	bonniet	No Privilege	Bonnie	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
20	demo10	No Privilege	Demo	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
21	demo9	No Privilege	Demo	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
22	brian1	No Privilege	Brian	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
23	propagation	No Privilege	Configuration	No Privilege	No Privilege		No Privilege	No Privilege	02/20/2007 11:10:15 AM PST		0	0
24	badriv	No Privilege	Badri	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
25	chriso	No Privilege	Christopher	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
26	dand	No Privilege	Dan	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
27	demo8	No Privilege	Demo	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
28	clairec	No Privilege	Claire-Marie	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
29	demo11	No Privilege	Demo	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
30	cathyk	No Privilege	Cathy	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
31	brians	No Privilege	Brian	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
32	demo12	No Privilege	Demo	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
33	demo7	No Privilege	Demo	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
34	demo2	No Privilege	Demo	No Privilege	No Privilege	A9	No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
35	ingas	No Privilege	Inga	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
36	dtam	No Privilege	Douglas	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0
37	jayz	No Privilege	Jay	No Privilege	No Privilege		No Privilege	No Privilege	08/18/2003 06:43:11 AM PDT		0	0

11.2. User can Auto-create PD Change Order during Publish

This feature extends previous auto-relate or auto-create Change functionalities in 1.1 and 1.2 to cover the requirement to create a PD Change that is configured with one or more required DFF attributes from Agile to Cloud. To accomplish this, we will extend the mapping function in C4C_Mapping.xml to include DFCO to PD Change mappings. Use similar formatting that is used for Design to PD Item mapping for the new DFCO to PD change mapping. DFCO to PD change the mapping supports data types of "String," "Numeric," and "Single List" between Agile CO Cover page/Page Two attributes and Fusion PD Change object Global/Context Sensitive Segment DFF attribute.

The sample for DFF mapping in C4C_mapping.xml is given below:

```
<MappingEFFEnabled>false</MappingEFFEnabled>
<MappingDFFEnabled>true</MappingDFFEnabled>
<!-- This is the sample C4C_Mapping.xml that maps DFCO object's CoverPage/Page Two attribute to PD Change DFF attributes
```

In this sample configuration, following assumptions are made (make sure both Name and API name being the same in DFF Context and Attribute configuration):

1. C4C_PD_CO_TYPE/C4C_PD_CO_TYPE - name of Change Order Type and its internal API name in Fusion;
2. C4C_GS_ATTR_TEXT1/C4C_GS_ATTR_TEXT1/c4cGsAttrText1 - name / Code / API name for a DFF attribute in Global Segments;
3. C4C_PD_CO_TYPE/C4C_PD_CO_TYPE/C4cPdCoType - name / Code / API name for a Context in Context Sensitive Segments for Change Order Type - C4C_PD_CO_TYPE (be sure to have the code as Change Order Type)
 - 3.1 "C4C_PD_DFF_Str1" / "C4C_PD_DFF_Str1" / "c4cPdDffStr1" - name / Code / API name for a String DFF attribute in Context - C4C_PD_CO_TYPE
 - 3.2 "C4C_PD_DFF_Str1_Req" / "C4C_PD_DFF_Str1_Req" / "c4cPdDffStr1Req" - name / Code / API name for a String DFF attribute as Required in Context - C4C_PD_CO_TYPE
 - 3.3 "C4C_PD_DFF_Num1" / "C4C_PD_DFF_Num1" / "c4cPdDffNum1" - name / Code / API name for a Numeric DFF attribute in Context - C4C_PD_CO_TYPE
 - 3.4 "C4C_PD_DFF_SL1" / "C4C_PD_DFF_SL1" / "c4cPdDffSI1" - name / Code / API name for a SingleList DFF attribute with its value as Numeric in Context - C4C_PD_CO_TYPE

3.5 "C4C_PD_DFF_STRSL1" / "C4C_PD_DFF_STRSL1" / "c4cPdDffStrsl1" - name / Code / API name for a SingleList DFF attribute with its value as String in Context - C4C_PD_CO_TYPE

Use contexttype of "ChangeObjectDFF" if there is no Change object Context Sensitive Segment being configured in PD Subclassname is Agile Change Order subclass API name, and their tablename are CoverPage or PageTwo
-->

```
<PDChangeClass classname = "C4C_PD_CO_TYPE" classinternalapiname = "C4C_PD_CO_TYPE" uid = "c4cpdcotypeclz">
<ContextSegmentDFF contexttype = "C4cPdCoType" uid = "ctxdff" />
</PDChangeClass>
<ChangeClass subclassname = "DFCO" uid="dfco">
<Table tablename="CoverPage" uid="cp" />
<Table tablename="PageTwo" uid="p2" />
</ChangeClass>

<PDChangeDFFAttributes>
<PDChangeDFFAttribute uid="c4cpdcotypeclz.ctxdff.c4cgsattrtext1" type="String" name="c4cGsAttrText1" dff="true" />
<PDChangeDFFAttribute uid="c4cpdcotypeclz.ctxdff.c4cpddffstr1req" type="String" name="c4cPdDffStr1Req" dff="true" />
<PDChangeDFFAttribute uid="c4cpdcotypeclz.ctxdff.c4cpddffstr1" type="String" name="c4cPdDffStr1" dff="true" />
<PDChangeDFFAttribute uid="c4cpdcotypeclz.ctxdff.c4cpddffnum1" type="Numeric" name="c4cPdDffNum1" dff="true" />
<PDChangeDFFAttribute uid="c4cpdcotypeclz.ctxdff.c4cpddffsl1" type="SingleList" name="c4cPdDffSl1" dff="true" />
<PDChangeDFFAttribute uid="c4cpdcotypeclz.ctxdff.c4cpddffstrsl1" type="SingleList" name="c4cPdDffStrsl1" dff="true" />
</PDChangeDFFAttributes>

<ChangeAttributes>
<ChangeAttribute uid="dfco.cp.number" type="String" name="number" />
<ChangeAttribute uid="dfco.cp.changetype" type="SingleList" name="changeType" />
<ChangeAttribute uid="dfco.p2.text01" type="String" name="text01" />
<ChangeAttribute uid="dfco.p2.numeric07" type="Numeric" name="numeric07" />
<ChangeAttribute uid="dfco.p2.numeric06" type="Numeric" name="numeric06" />
<ChangeAttribute uid="dfco.p2.list11" type="SingleList" name="list11" />
<ChangeAttribute uid="dfco.p2.list12" type="SingleList" name="list12" />
</ChangeAttributes>

<MappingEntry type = "MapChangeDFF" name = "changedffmap">
<AttributeMap changeattribute = "dfco.cp.number" pdchangedffattribute = "c4cpdcotypeclz.ctxdff.c4cgsattrtext1" />
<AttributeMap changeattribute = "dfco.p2.text01" pdchangedffattribute = "c4cpdcotypeclz.ctxdff.c4cpddffstr1" />
<AttributeMap changeattribute = "dfco.p2.numeric06" pdchangedffattribute = "c4cpdcotypeclz.ctxdff.c4cpddffnum1" />
<AttributeMap changeattribute = "dfco.p2.list11" pdchangedffattribute = "c4cpdcotypeclz.ctxdff.c4cpddffstrsl1" />
<AttributeMap changeattribute = "dfco.p2.list12" pdchangedffattribute = "c4cpdcotypeclz.ctxdff.c4cpddffsl1" />
</MappingEntry>
```

Note: It is administrator's responsibility to configure PD Change order class, context type, and DFF attributes and make sure that they are reflected correctly in C4C_Mapping.xml configuration file.

During C4C Publish, if mapping configuration is correct, those mapped DFCO Cover Page or Page Two attributes will be populated onto the created Change DFF attributes in Cloud.

11.3. User can Map Design P2 to PD Item UOM attributes - Dimensions, Weight, and Volume

The Page Two attributes of Design object can be published to the PD Item OOTB UOM attributes - Dimensions, Weight, and Volume during publish if being configured correctly. For example, PD Item UOM of "Weight"

contains its type (Grams, KG...) and its numeric value, and needs two design.p2 attributes (list and numeric). Similarly, Dimensions contain its type (meter, foot...) and three numeric values (length, depth, and width).

The sample UOM Mapping Configuration in CloudIntegration.properties file is provided below:

```
# Support the Fusion OOTB UOM attributes Dimensions, Weight and Volume
# API Names (or IDs) of List and Numeric Attributes on Design Page Two table to define PD Item's UOM Dimensions UNIT,
# WIDTH, LENGTH and HEIGHT (ex: list13, numeric01, numeric02, numeric03).
# Default values are blank as UOM Dimensions publish is disabled
# The UOM Dimensions publish is disabled if one of four configuration parameters are not configured or set to invalid value.
# It will be logged in WLS log while starting Agile server
DESIGN_ATTRIBUTE_FOR_PD_ITEM_DIMENSIONS_UNIT =
DESIGN_ATTRIBUTE_FOR_PD_ITEM_DIMENSIONS_WIDTH =
DESIGN_ATTRIBUTE_FOR_PD_ITEM_DIMENSIONS_LENGTH =
DESIGN_ATTRIBUTE_FOR_PD_ITEM_DIMENSIONS_HEIGHT =
# API Names (or IDs) of List and Numeric Attributes on Design Page Two table to define PD Item's UOM Weight UNIT and
# Weight (ex: list14, numeric04).
# Default values are blank as UOM Weight publish is disabled
# The UOM Weight publish is disabled if one of two configuration parameters are not configured or set to invalid value.
# It will be logged in WLS log while starting Agile server
DESIGN_ATTRIBUTE_FOR_PD_ITEM_WEIGHT_UNIT =
DESIGN_ATTRIBUTE_FOR_PD_ITEM_WEIGHT_WEIGHT =
# API Names (or IDs) of List and Numeric Attributes on Design Page Two table to define PD Item's UOM Volume UNIT and
# Volume (ex: list15, numeric05).
# Default values are blank as UOM Volume publish is disabled
# The UOM Volume publish is disabled if one of two configuration parameters are not configured or set to invalid value.
# It will be logged in WLS log while starting Agile server
DESIGN_ATTRIBUTE_FOR_PD_ITEM_VOLUME_UNIT =
DESIGN_ATTRIBUTE_FOR_PD_ITEM_VOLUME_VOLUME =
```

Dimensions, Weight, and Volume UOM attributes published for Design will only be enabled if UNIT and its Quantity attributes are configured in CloudIntegration.properties file with corresponding Design object Page two's list and numeric attributes. Otherwise, UOM publish is disabled.

The mapped UOM attributes from Agile will be published when affected objects are added to PD Change Order during publish if Design object UNIT attribute is NOT BLANK or its quantity values being ≥ 0 .

11.4. Support for Microsoft Office and Project 2016

Support Microsoft Office and Project 2016 for Agile PLM 9.3.6 RUP 15 and later.

11.5. Performance Improvement for BOM Recursion Validation

In 9.3.6.15, a new property “bomrecursion.validation.v2.enabled” is introduced in the agile.properties file to use the alternative (enhanced) BOM validation when releasing a change order (ECO/MCO/SCO).

The default value is *false* to keep the same functionality as before:
bomrecursion.validation.v2.enabled=false

The improved performance option requires setting the parameter to *true*:
bomrecursion.validation.v2.enabled=true

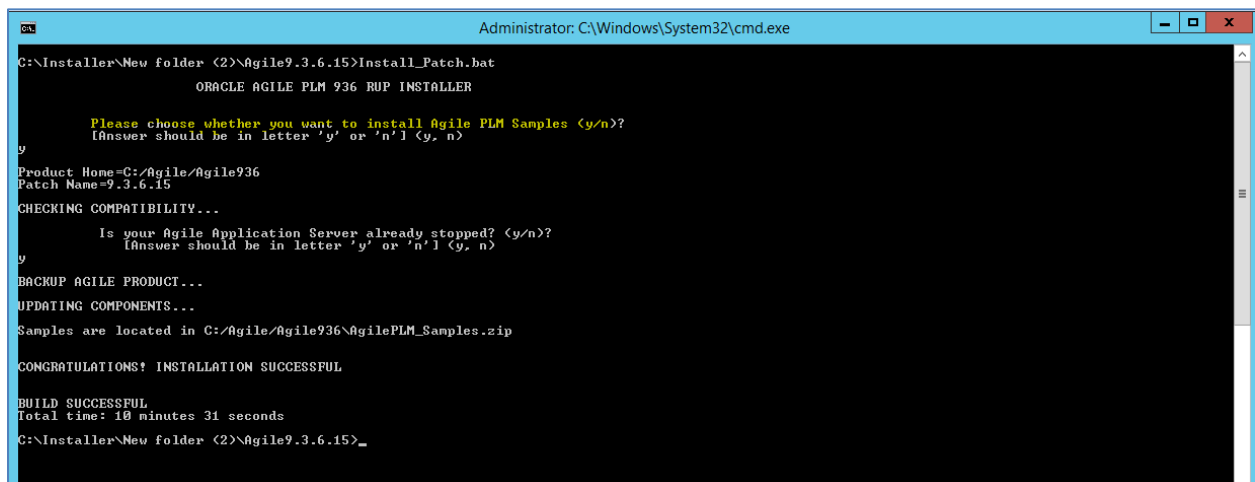
For more information about “bomrecursion.validation.v2.enabled” property, please refer to the Agile Product Lifecycle Management Administrator Guide, Chapter 46 Agile Properties.

11.6. Packaging Agile PLM samples within the RUP

In earlier releases, the following Agile PLM samples were downloaded from the OTN (Oracle Technology Network):

- Web Services – This includes java samples that demonstrate the various usage characteristics of Agile 9.3.6 web services. Apart from outlining the basic cases for each web service, it also elaborates upon more specific cases that involve usage of options or mandatory message elements.
- SDK – This contains the documentation, extensions, lib, and samples folders. They provide the Javadoc generated HTML files that document the API methods and demonstrate using the APIs to develop batch and online applications, including Java and Script process extensions and dashboard management extensions for Agile PLM in Oracle WebLogic Server environments.
- AIS – This contains the documentation, lib, and samples folders. They document the Web Services that are supported by the Agile Import/Export APIs, provide the common JAR files used by AIS samples and the source code of a sample Import/Export Web service client for Oracle WebLogic Server environments.
- Doc Publishing – This shows how to leverage Web services APIs to insert PLM metadata and file contents into documents
- Setting Revision Specific Relationships to All - The Agile 9.3.3 release has a feature to add revision specific relationships at the class level. When enabled at the class level, every subclass is also enabled. This groovy sample sets revision specific relationships to All for specific subclasses, thus overriding the setting at the class level.

Starting in 9.3.6.15, the samples are now packaged within the RUP for easier access. These are updated in conjunction with the RUP. When installing the RUP, user will be prompted if they want to install the samples.



```
Administrator: C:\Windows\System32\cmd.exe
C:\Installer\New folder (2)\Agile9.3.6.15\Install_Patch.bat
ORACLE AGILE PLM 936 RUP INSTALLER

Please choose whether you want to install Agile PLM Samples <y/n>?
[Answer should be in letter 'y' or 'n'] <y, n>
y
Product Home=C:\Agile\Agile936
Patch Name=9.3.6.15
CHECKING COMPATIBILITY...
Is your Agile Application Server already stopped? <y/n>?
[Answer should be in letter 'y' or 'n'] <y, n>
y
BACKUP AGILE PRODUCT...
UPDATING COMPONENTS...
Samples are located in C:\Agile\Agile936\AgilePLM_Samples.zip
CONGRATULATIONS! INSTALLATION SUCCESSFUL
BUILD SUCCESSFUL
Total time: 10 minutes 31 seconds
C:\Installer\New folder (2)\Agile9.3.6.15>
```

11.7. Inactive User Can Be Selected When ‘Include Inactive List Values’ User Preference Is Enabled

Introduced in 9.3.6.15, when the ‘Include Inactive List Values’ user preference is enabled in any of the list types, the inactive user is visible in Basic/Advanced Searches and in Table Personalization Filter. The inactive user remains not visible in creating or updating an object regardless of the user preference’s value.

Below displays the behaviors before and after the fix.

Before the Fix				
List Type	Value of Included Inactive List Values in User Preference	Inactive Values in the List/Multilist Attribute		
		In Basic/Advanced Search	in Table Personalization Filter	In Creating/Updating an Object
Simple	Yes	Visible	Visible	Not Visible
Simple	No	Not Visible	Not Visible	Not Visible
Cascade	Yes	Visible	Visible	Not Visible
Cascade	No	Not Visible	Visible	Not Visible
Dynamic	Yes	Not Visible	Not Visible	Not Visible
Dynamic	No	Not Visible	Not Visible	Not Visible
After the Fix				
List Type	Value of Included Inactive List Values in User Preference	Inactive Values in the List/Multilist Attribute		
		In Basic/Advanced Search	in Table Personalization Filter	In Creating/Updating an Object
Simple	Yes	Visible	Visible	Not Visible
Simple	No	Not Visible	Not Visible	Not Visible
Cascade	Yes	Visible	Visible	Not Visible
Cascade	No	Not Visible	Not Visible	Not Visible
Dynamic	Yes	Visible	Visible	Not Visible
Dynamic	No	Not Visible	Not Visible	Not Visible

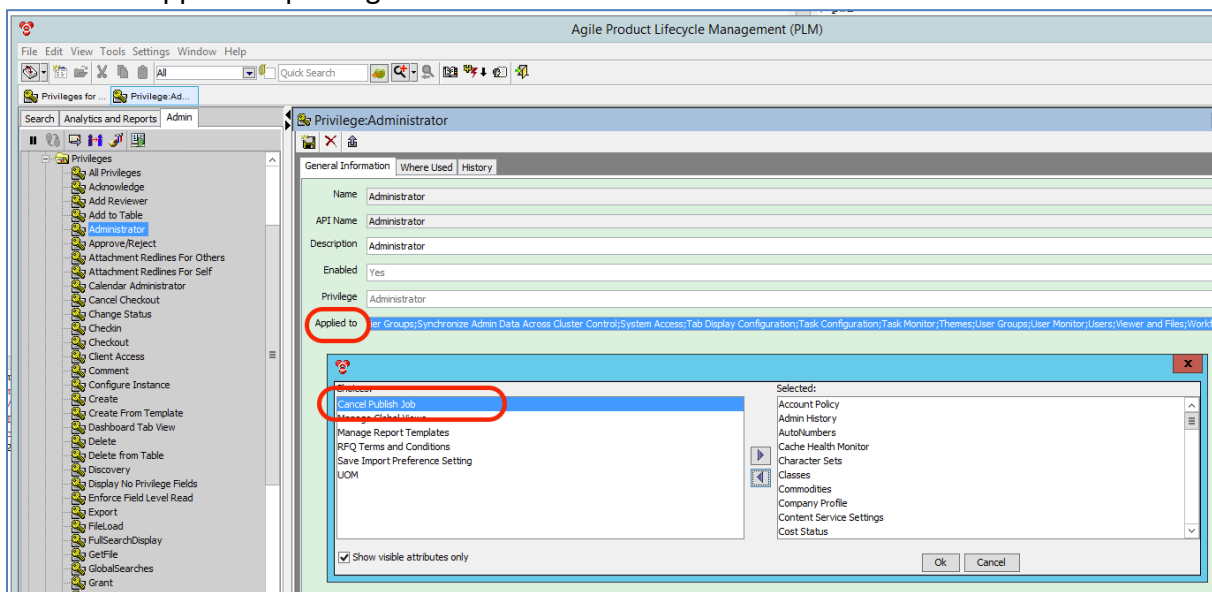
12. 9.3.6 RUP14 Enhancements

12.1. User with Admin Privilege Can Cancel a C4C Publish Job

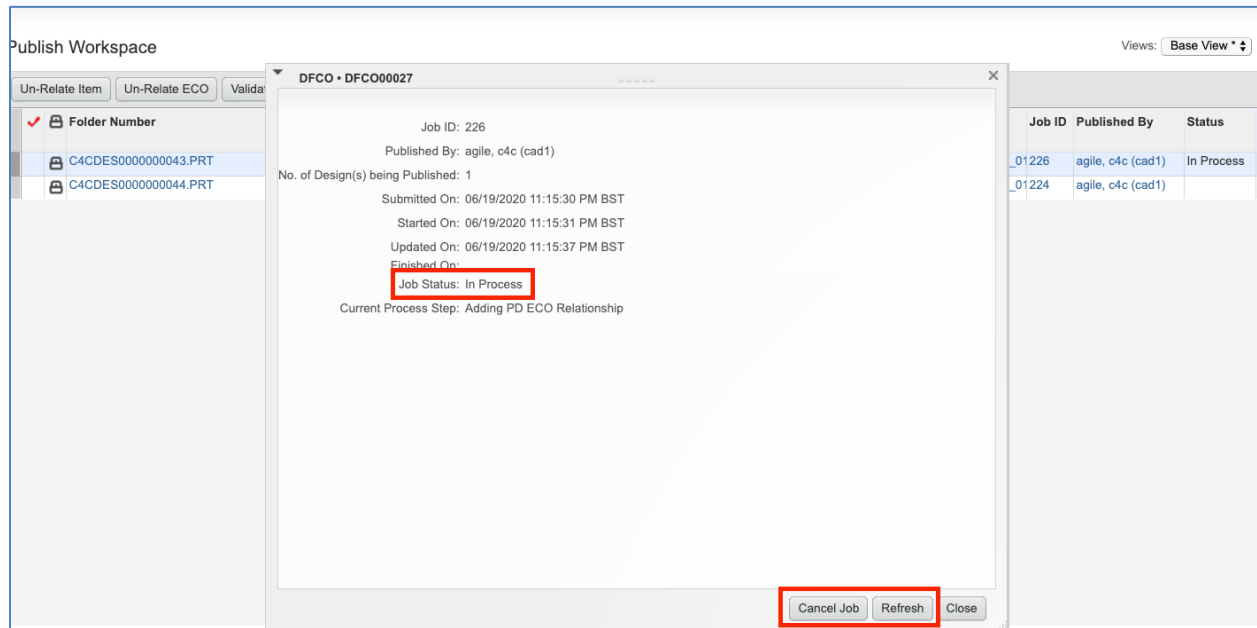
Prior to 9.3.6.14, if a C4C Publish Job became stuck “in process,” the user had no way to clear the status and republish. 9.3.6.14 provides two ways to clear stuck C4C publish jobs.

12.1.1. Manual Cancel Publish Job

New Administrator applied to privilege added “Cancel Publish Job.”



If a user has this new privilege, they will have access to new Cancel Job button in the Job Status pop-up window.



12.1.2. CLOUD_CAD_PUBLISH_THREAD_TIMEOUT

A new configuration parameter - CLOUD_CAD_PUBLISH_THREAD_TIMEOUT is introduced in CloudIntegration.properties file as following:

Timeout (minutes) for CAD Publish thread since last updated, default 120 minutes
CLOUD_CAD_PUBLISH_THREAD_TIMEOUT = 120

This timeout setting is not for the whole job but is for each publish step. For example, last updated time is recorded at the beginning of files uploaded to UCM and will be updated again when the upload is finished. A publish thread is considered to be stuck if there is no update for configured timeout. The Publish will be aborted and the Publish status will be to "Failed" in Publish Workspace with detailed message "C4C Publish is terminated due to being idle longer than the pre-configured time since last update (publish thread may be stuck)."

12.2. Add Support for AutoVue 21.0.2.4

Support AutoVue 21.0.2.4 for Agile PLM release.

12.3. User can Auto-relate an Existing PD Change Order during Publish

CAD to Cloud integration provides capability to Auto-Relate a DFCO with an existing PD Change Order. This is similar to the feature of Auto-Relate Design to PD Item.

The prerequisite configurations or setup to turn on the auto-relate feature is:

Configure 'DFCO_ATTRIBUTE_FOR_PD_CHANGE_NUMBER' property in CloudIntegration.properties file to a DFCO.p2.text attribute.

If Auto-Relate Change is enabled, its value of DFCO is not blank, and the DFCO does not already have a PD Change related, search for the PD Change Number that is stored in the DFCO attribute configured in DFCO_ATTRIBUTE_FOR_PD_CHANGE during publish and relate it to the DFCO if found. The publish will fail with error message if PD Change is not found.

12.4. User can Auto-create PD Change Order during Publish

The CAD for Cloud system can automatically create PD Change Order that needs to be related when it does not exist on Cloud during the Publish process. This Auto-Create feature is designed as internal function and is turned off by default.

The pre-requisite configurations or setup to turn on the auto-create feature are:

- Enable the Auto-relate feature so that the Change Number to be created and related is ascertained:

 - Configure DFCO_ATTRIBUTE_FOR_PD_CHANGE_NUMBER' property to source Change Number.

- Enable system level Auto-Create feature by setting 'CLOUD_CREATE_PD_CHANGE_SUPPORTED ' property value to 'TRUE'. Out-of-the-box, its default value is set to 'FALSE'.

- Configure PD Change class so that the created Change belongs to it:

 - Create a list of Engineering PD Change sub class names.

 - Associate the above list to a suitable Page2 List attribute on DFCO class.

- Configure API name of above attribute to the DFCO_ATTRIBUTE_FOR_PD_CHANGE_CLASS' property in 'CloudIntegration.properties' file. The Auto-Create feature is not enabled if this property is blank or set to an invalid attribute.

- Configure 'Create' Yes/No selection switch so that you can opt in/out of creating a Change Order at DFCO object level:

 - Create a list with entries 'Yes' and 'No', if such a list does not already exist.

 - Associate above list to a suitable List Attribute on Page2 tab of DFCO class.

- Configure API name of the above attribute to the DFCO_ATTRIBUTE_FOR_CREATE_PD_CHANGE_FLAG ' property in 'CloudIntegration.properties' file. The Auto-Create feature is not enabled if this property is blank or set to an invalid attribute.

 - Listed below are a few examples:

 - DFCO_ATTRIBUTE_FOR_PD_CHANGE_NUMBER =

 - DFCO_ATTRIBUTE_FOR_PD_CHANGE_CLASS =

 - DFCO_ATTRIBUTE_FOR_CREATE_PD_CHANGE_FLAG =

Note: The above property settings can be altered any time during production but require a system re-start to make it effective.

The Auto Create process does the following additional tasks within Auto-relate for C4C Publish:

- If the Change search process does not find the Change Number in Cloud and the create Change option is set to blank or 'No' on the corresponding DFCO, the auto-create process reports failure error 'Mapped PD Change for DFCO does not exist in Cloud system' and exits C4C Publish.

- If the Change search process does not find the Change Number and the create Change option is set to 'Yes' on the corresponding DFCO, the auto-create process includes the Change Number for creation through PD Change web services to create Change Order as configured.

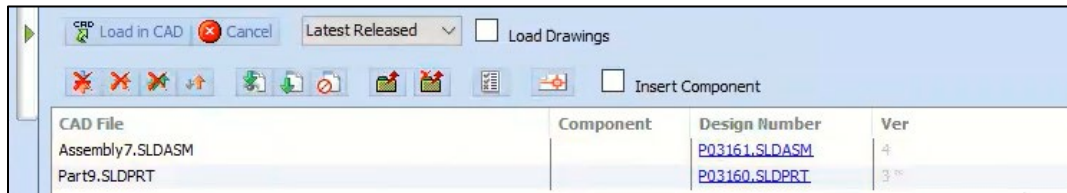
- The auto-relate process will continue for the DFCO corresponding to successfully created Change. The failed Change Creation will report error 'Failed to create PD Change Object on Cloud PD'.

13. 9.3.6 RUP13 Enhancements

13.1. Latest Released Option in Agile Load Preview

Prior to 9.3.6.13, the option "Latest Released" in the Load Preview window only looks for ECO released versions of Items that have a reference of the design in their Attachments tab. If there are no Items that have a reference, then it will pick up the version from the Design Structure tab and ignore the updated children.

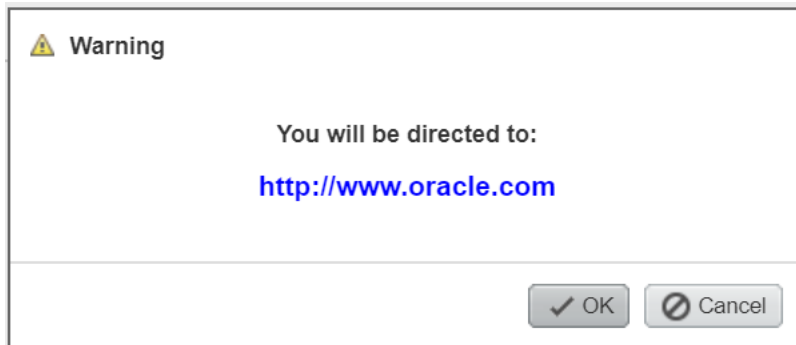
In 9.3.6.13, the "Latest Released" option will recognize DFCO released versions of the design. If there are no ECO or DFCO version released, then the version shown will be the latest checked-in version.



13.2. Security Prompt When Opening External Links

By default, clicking an external link in an Agile object's tab (i.e. Title Block, BOM, and Attachment) will open a new browser window to view the contents of the resource.

Introduced in 9.3.6.13 is a new behavior enabled by setting a property such that whenever a user clicks on an external link, a warning dialog will be displayed before the user is redirected.



For more information about `whitelist.external.url` property, please refer to the Agile Product Lifecycle Management Administrator Guide, Chapter 46 Agile Properties.

13.3. Mapping TB/P2 Attributes with CAD for Cloud

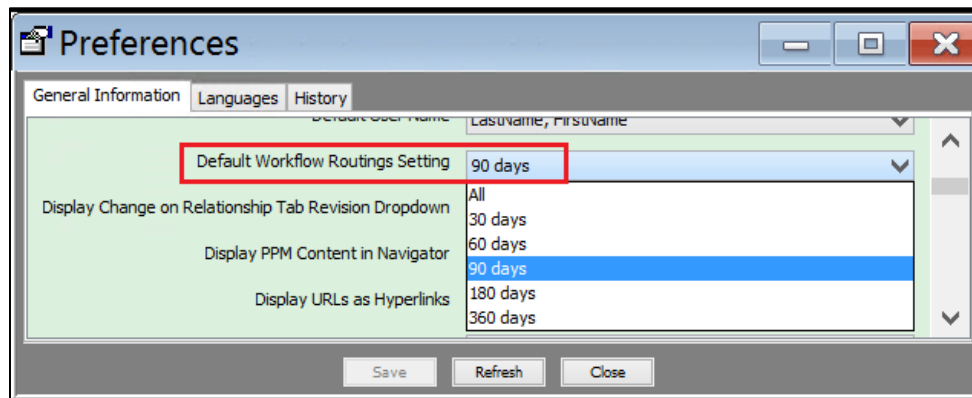
Starting with 9.3.6.13, CAD for Cloud supports mapping TB/P2 attributes to PD Item EFF attributes on Root Item Class.

14. 9.3.6 RUP12 Enhancements

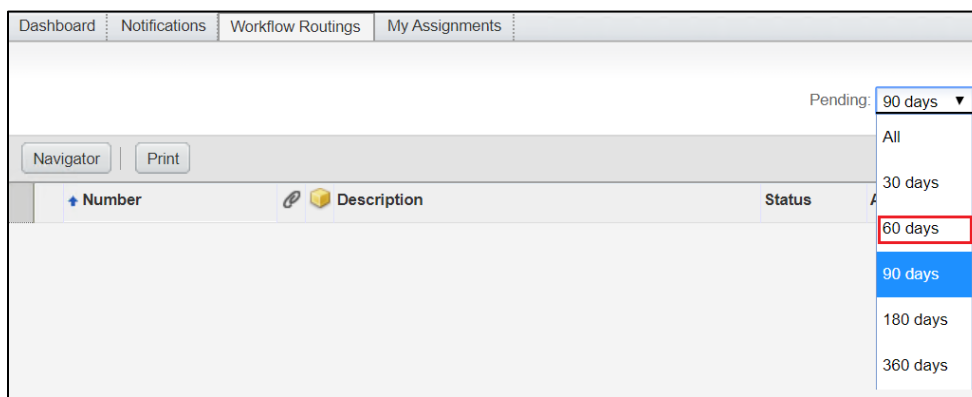
14.1. Allow the Administrator to Control the Workflow Routings Days Setting

Prior to 9.3.6.12, the default value of the Workflow Routings filter is 90 days. This does not give the flexibility to the System Administrator to configure the default value.

In 9.3.6.12, a “Default Workflow Routings Setting” server preference is introduced, which allows the System Administrator to set the default value for the Workflow Routings filter. Initially, the value of the preference “Default Workflow Routings Setting” is set to 90 days in order to retain the behavior prior to 9.3.6.12.



The user can still change the value of the filter on the web client, and the value set by the user will be retained for 100 days unless browser cookies are deleted.



Prior to 9.3.6.12, the possible filter values are “All”, “30 days”, “90 days”, “180 days” and “360 days”. In 9.3.6.12, “60 days” is added to the possible values.

14.2. Performance Improvement for BOM Explosion Report

In 9.3.6.12, a new property "report.BOMExplosionV2.enabled" is introduced in the agile.properties file to use as a different report engine for the "BOM Explosion Report," which should improve the performance.

The default value is false to keep the same functionality as before:
report.BOMExplosionV2.enabled=false

The improved performance option requires setting the parameter to true:
report.BOMExplosionV2.enabled=true

For more information about "BOMExplosionV2.enabled" property, please refer to the Agile Product Lifecycle Management Administrator Guide, Chapter 46 Agile Properties.

15. 9.3.6 RUP10 Enhancements

15.1. File Manager Configuration Page shows RUP Version

Agile PLM 9.3.6 File Manager Configuration Page shows RUP version (i.e. 9.3.6.10).

15.2. Support for Microsoft Office 2019

Support Microsoft Office 2019 for Agile PLM 9.3.6 RUP 10 and later. This excludes Microsoft Project 2019.

16. 9.3.6 RUP 9 Enhancements

16.1. ACS Timeout Configuration for HTTP/HTTPS Destination

A new property `acs.http.dest.timeout` can be set in the `agile.properties` file to solve AGILE CONTENT SERVICES (ACS) timeout issue. This setting is for HTTP/HTTPS protocol destinations only, not for File/FTP/JMS/Agile protocol destinations. The default timeout value for HTTP/HTTPS destinations is 5 seconds.

16.2. Add Support for SAML 2.0 SSO

Support SAML 2.0 SSO for Agile PLM 9.3.6 RUP 9 and later with Identity Cloud Service (IDCS) and Okta Identity Cloud by adding `saml.sso.enabled=true` in `agile.properties` file.

17. 9.3.6 RUP 8 Enhancements

Not applicable.

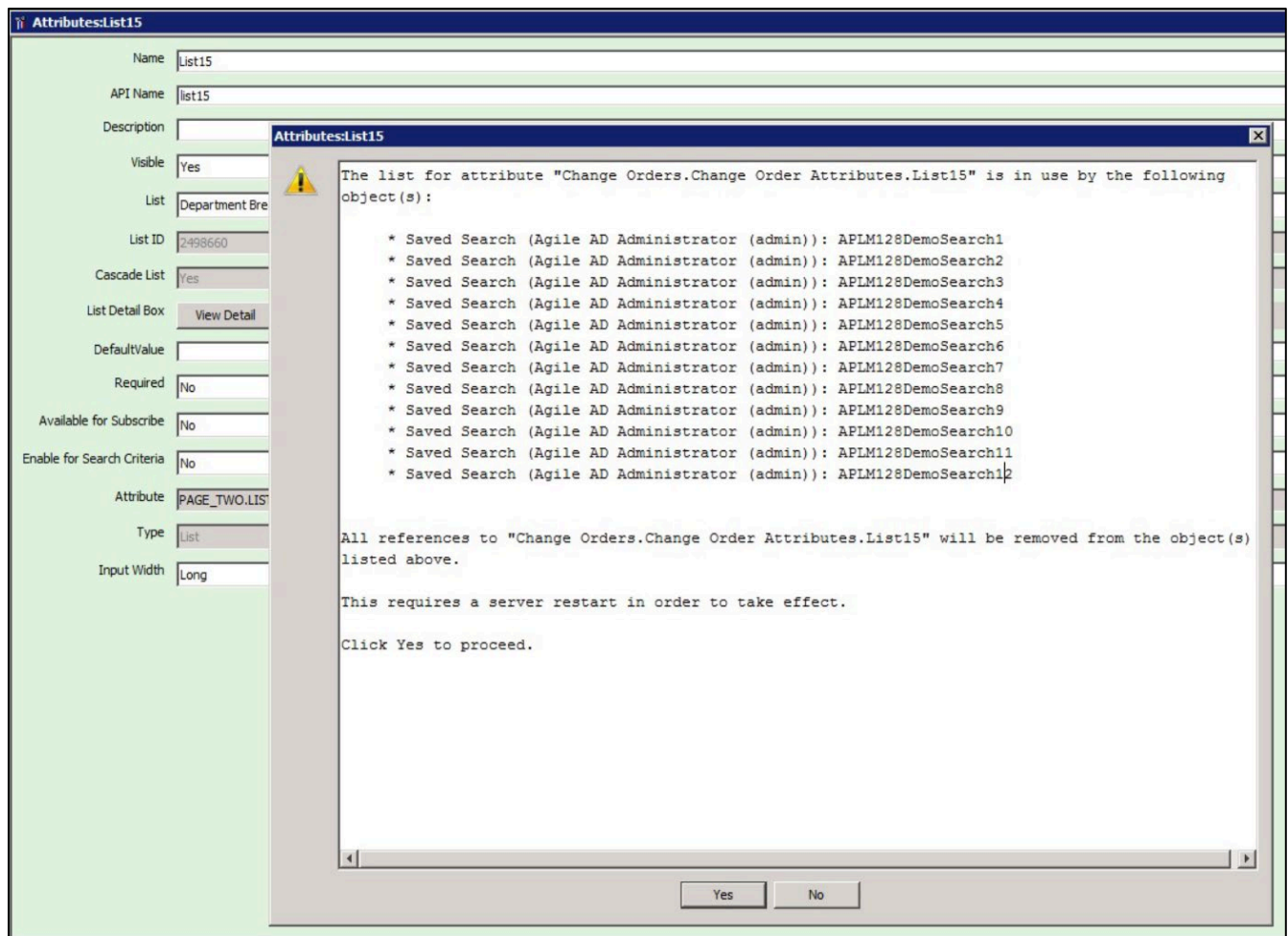
18. 9.3.6 RUP 7 Enhancements

18.1. List Management

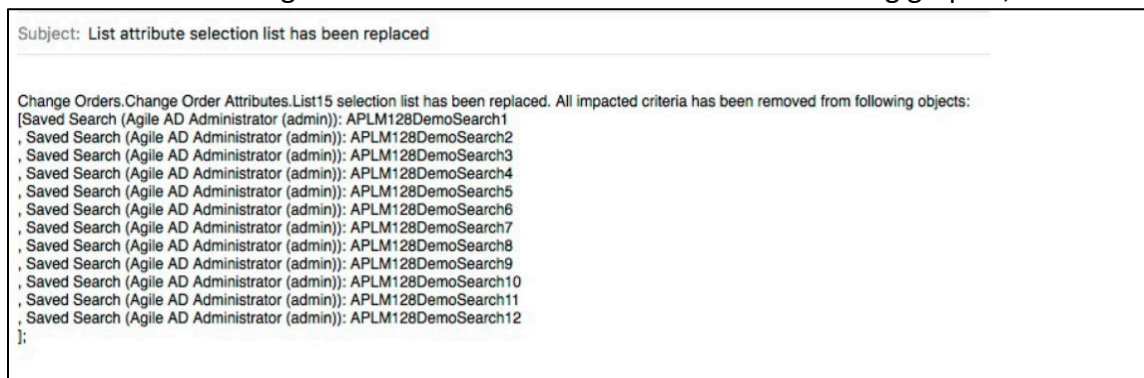
Prior to 9.3.6.7, maintaining lists was cumbersome. The system only tells you the first eight criteria where the list value was being used. Once you cleared out the list value, you needed to contact support to get a script that would update the list values in searches, reports, and dashboards.

In 9.3.6.7, we have improved list management with a Warning dialogue appearing for searches using the attribute and list entry criteria as follows:

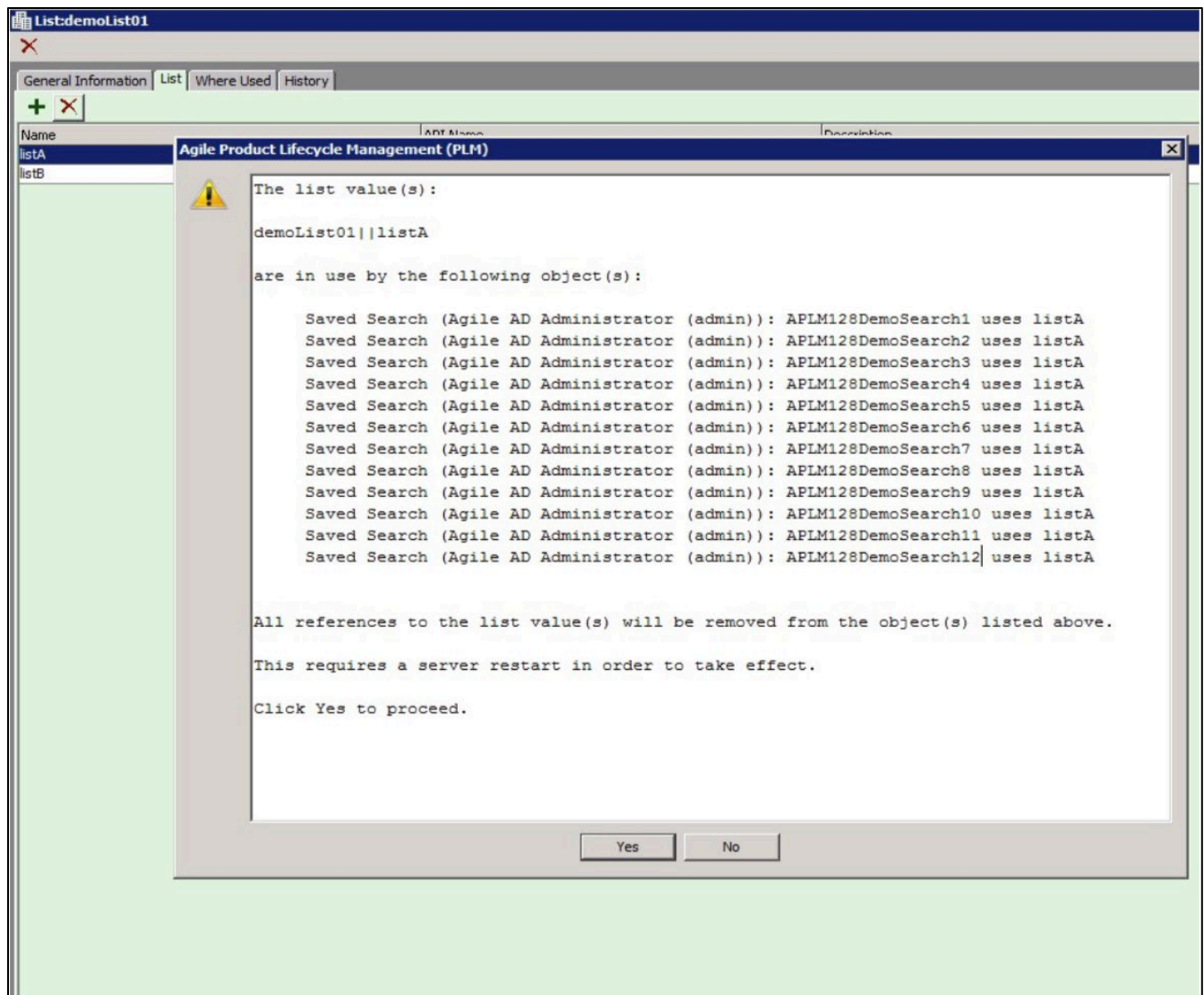
- The Administrator can replace the admin class attribute list selection or remove list entries to see a Warning dialogue with a complete list of search objects with search owners when the search objects uses the attribute and list entry as criteria. That applies to report and dashboard too.
 - The following dialogue will be provided with features in 9.3.6.7. It appears when the Administrator tries to replace the admin class attribute selection list



➤ Impacted search owners get an email notification shown in the following graphic;



➤ When a user tries to delete a list entry, the following dialog appears:



➤ Impacted search owners get the following notification:



18.2. Commodity Code is Available at the Base Class in Advanced Search

Prior to 9.3.6.7, Commodity code was not available at the base class in advanced search.

In 9.3.6.7, we have added Commodity code at the base class in advanced search. This allows you to search against commodity code across different classes.

Search Criteria

Items Object Search

(Attribute Operator Prompt Value) Join

☐ Commodity Is Not Null ☐ ☐ - +

☐ Match Case

Basic Format Save Grouping

Search Results

Navigator More

Number	Description	Commodity	Lifecycle Phase	Rev
11-0004-00	IC, BOOST SWITCHING REGULATOR, LT1316, MSOP8	ICs	Production	A
11-0041-00	IC, TOUCH PANEL CONTROLLER	ICs	Production	A

Search Criteria

Changes

Object Search

(

Attribute

Operator

Prompt

Value

)

Join

Commodity

Is Not Null

Match Case

Basic

Format

Save

Grouping

Search

Clear

Search Results

Navigator

More

	Number	Description of Change	Status	Workflow	Commodity (Affected Items)	Change Type
	ECO-00011	Initial BOM for SEDAN DASHBOARD	Released	ECO Workflow Basic	ADHESIVES	ECO
	ECO-00043	Release Parts in Group - Capacitors	Released	ECO Default Workflow	CAPACITORS	ECO
	ECO-00044	Release Parts in Group - Diodes	Released	ECO Default Workflow	DIODES	ECO
	ECO-00045	Release Parts in Group - ICs	Released	ECO Default Workflow	ICs	ECO
	ECO-00046	Release Parts in Group - Resistors	Released	ECO Default Workflow	RESISTORS	ECO
	ECO-00047	RELEASE ASSY-5000 TO PROTOTYPE	Released	ECO Default Workflow	ASSEMBLIES	ECO
	ECO-00047	RELEASE ASSY-5000 TO PROTOTYPE	Released	ECO Default Workflow	ICs	ECO
	ECO-00047	RELEASE ASSY-5000 TO PROTOTYPE	Released	ECO Default Workflow	HARDWARE	ECO

0 of 19 rows selected

18.3. SolidWorks Integration with CAD for Cloud

In 9.3.6.7, CAD for Cloud has added support for SolidWorks. Users can relate and publish designs from Agile to Fusion PD Cloud using SolidWorks, in addition to Creo.

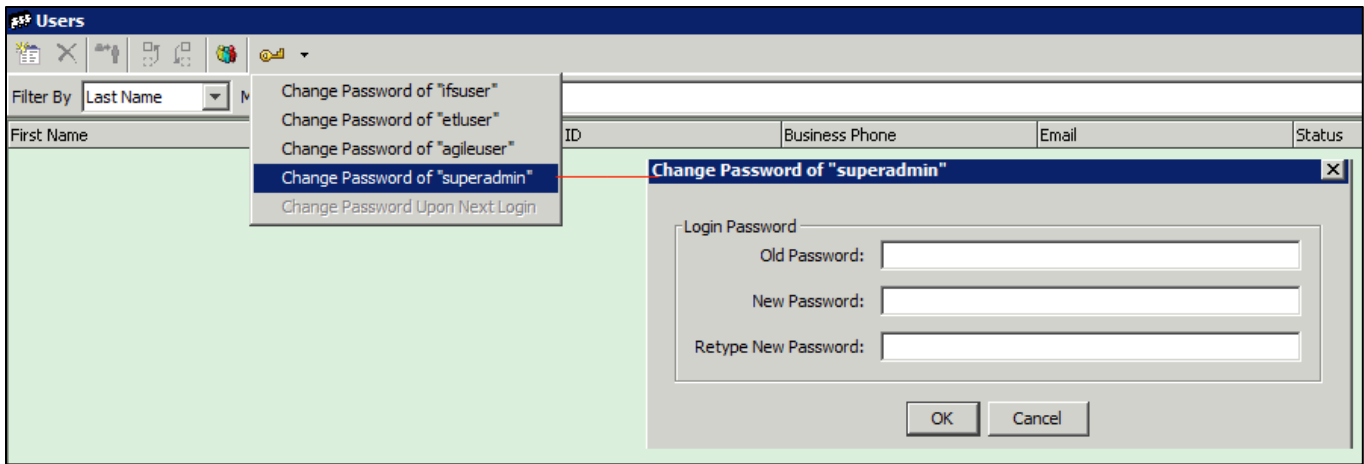
19. 9.3.6 RUP 6 Enhancements

19.1. Ability to Change 'Superadmin' Password in the Java Client

Prior to 9.3.6.6, administrators were unable to update the password for the 'superadmin' user in the Java Client.

With the 9.3.6 release, we have added the ability for the administrator user to update the password for the 'superadmin' user.

- Note that the credentials for the 'superadmin' user are used to start and stop the application server(s) so if the password for user 'superadmin' is changed in the Java Client, then the boot.properties file must also be updated with the new password so that the application server(s) can be started and stopped successfully.



➤ To reset, for example, the 'superadmin' password:

1. Under User Settings, double-click Users. The Users window appears. [L][SEP]
2. In the menu bar, click the Change Internal Password User drop-down list. [L][SEP]
3. Click Change Password of 'superadmin'. The Change Password of 'superadmin' dialog opens. [L][SEP]
4. Fill with appropriate values for the New Password and Retype New Password fields. When you are finished, click OK. [L][SEP]

Note: Once the password for the 'superadmin' user is reset:

- * The Agile application server(s) will continue to run and Agile users can continue their work in the Agile application without requiring an immediate application server restart.
- * Any action that requires logging in as the user "superadmin" (including logging into the WebLogic console) must use the new password for user "superadmin".

5. The following steps must be performed before the application servers are restarted:
 - Update the value of the "password" property in the boot.properties file(s) (under directory <AgileHome>\agileDomain\config) with the new password for user "superadmin" in cleartext (e.g. password=new_password). The password value will be encrypted at the next server restart.

19.2. List Management

19.2.1. Complete Usage Conflict Information is Provided

The Administrator can replace the admin class attribute list selection or remove list entries to see an error dialogue with a complete list of criteria currently using the attribute or list entries. The criteria listed in the error message must be modified by the Administrator to remove references to the list selection or list entries in order to continue.

Note the error message that appears when the user tries to replace the admin class attribute selection list.

- The following dialogue will be provided with features in 9.3.6.6. It appears when the Administrator tries to replace the admin class attribute selection list, the error message can display with all the using criteria and also user can drag the scroll bar to get all the full list.
- Set example of list values replacement:
 1. **Test List01** was assign into the List06

AttributesList16

Name: List16

API Name: list16

Description:

Visible: Yes

List: Test List01 New List

List ID: 2471772

Cascade List: No

List Detail Box: View Detail

DefaultValue:

Required: No

Available for Subscribe: No

Enable for Search Criteria: No

Attribute: PAGE_TWO.LIST16

Type: List

Input Width: Long

Save Refresh Close

2. Replace Test List01 with new list **Template Type List**

Attributes:List16

Name: List16

API Name: list16

Description:

Visible: Yes

List: Test List01

List ID: Template Type List

Cascade List: Transfer Orders

List Detail Box: Unit of Measure

Default Value: Users

Required: Yes/No Cost List

Available for Subscribe: No

Enable for Search Criteria: No

Attribute: PAGE_TWO.LIST16

Type: List

Input Width: Long

Save Refresh Close

3. Click Save button

Attributes:List16

Name: List16

API Name: list16

Description:

Visible: Yes

List: Template Type List

List ID: 2000017616

Cascade List: No

List Detail Box: View Detail

Default Value:

Required: No

Available for Subscribe: No

Enable for Search Criteria: No

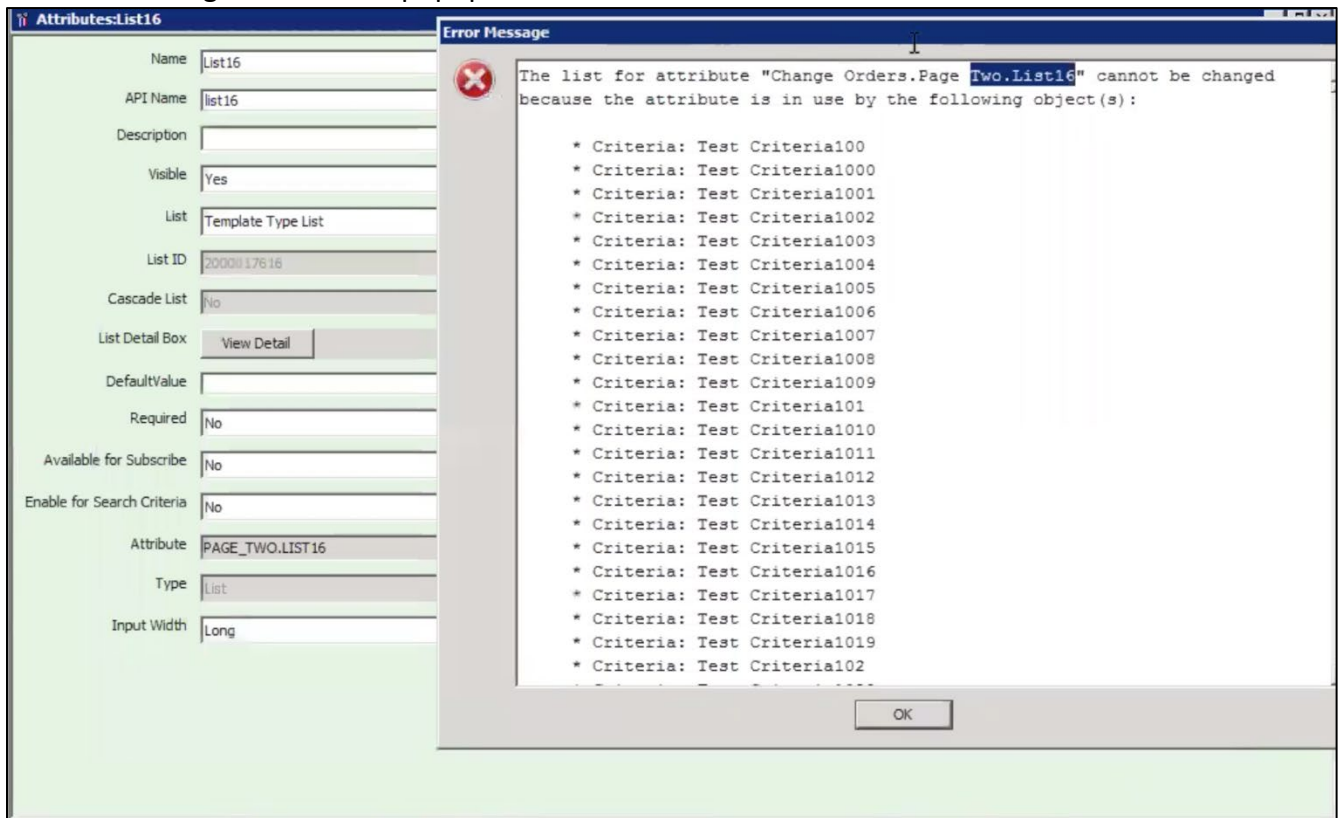
Attribute: PAGE_TWO.LIST16

Type: List

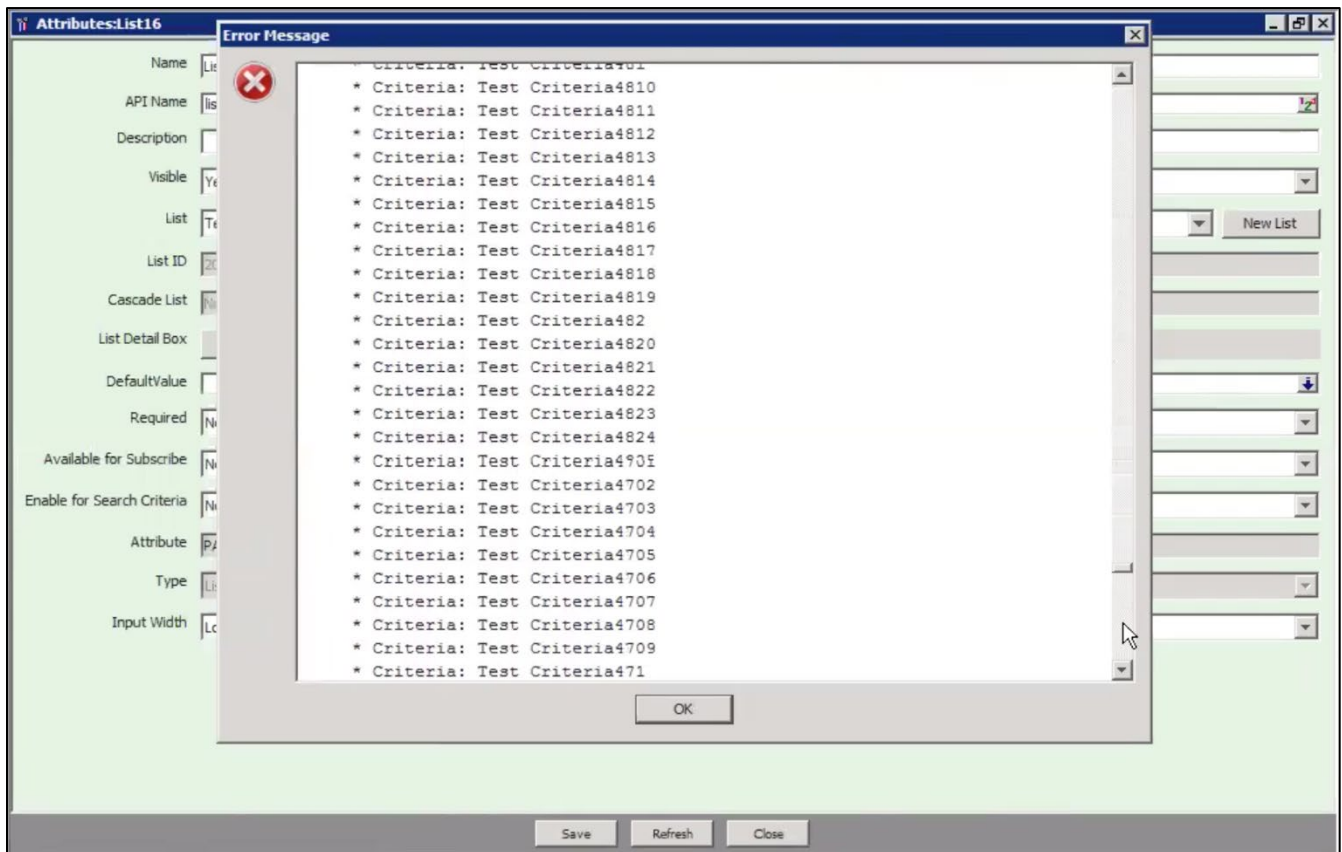
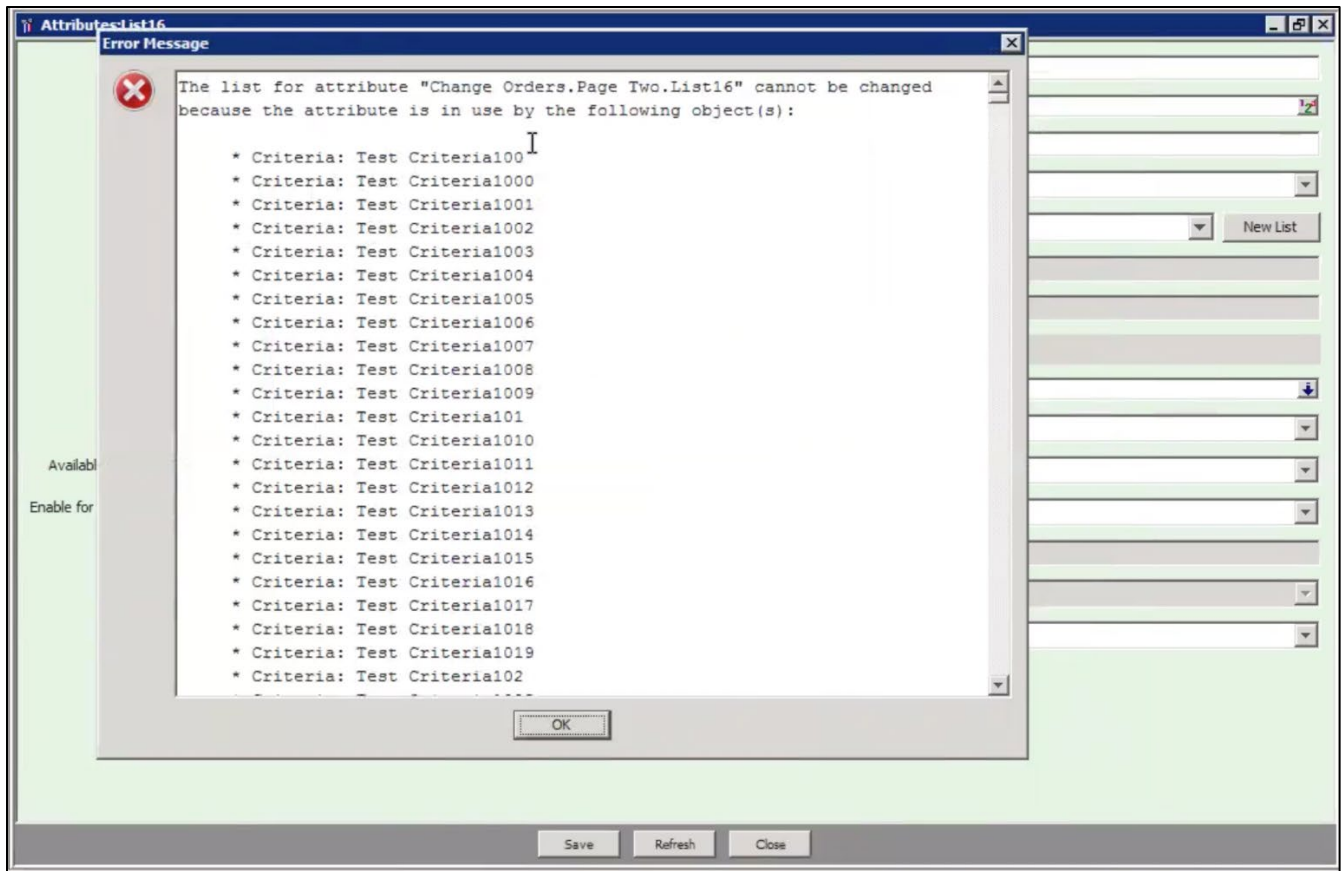
Input Width: Long

Save Refresh Close

4. Error message will show in popup windows

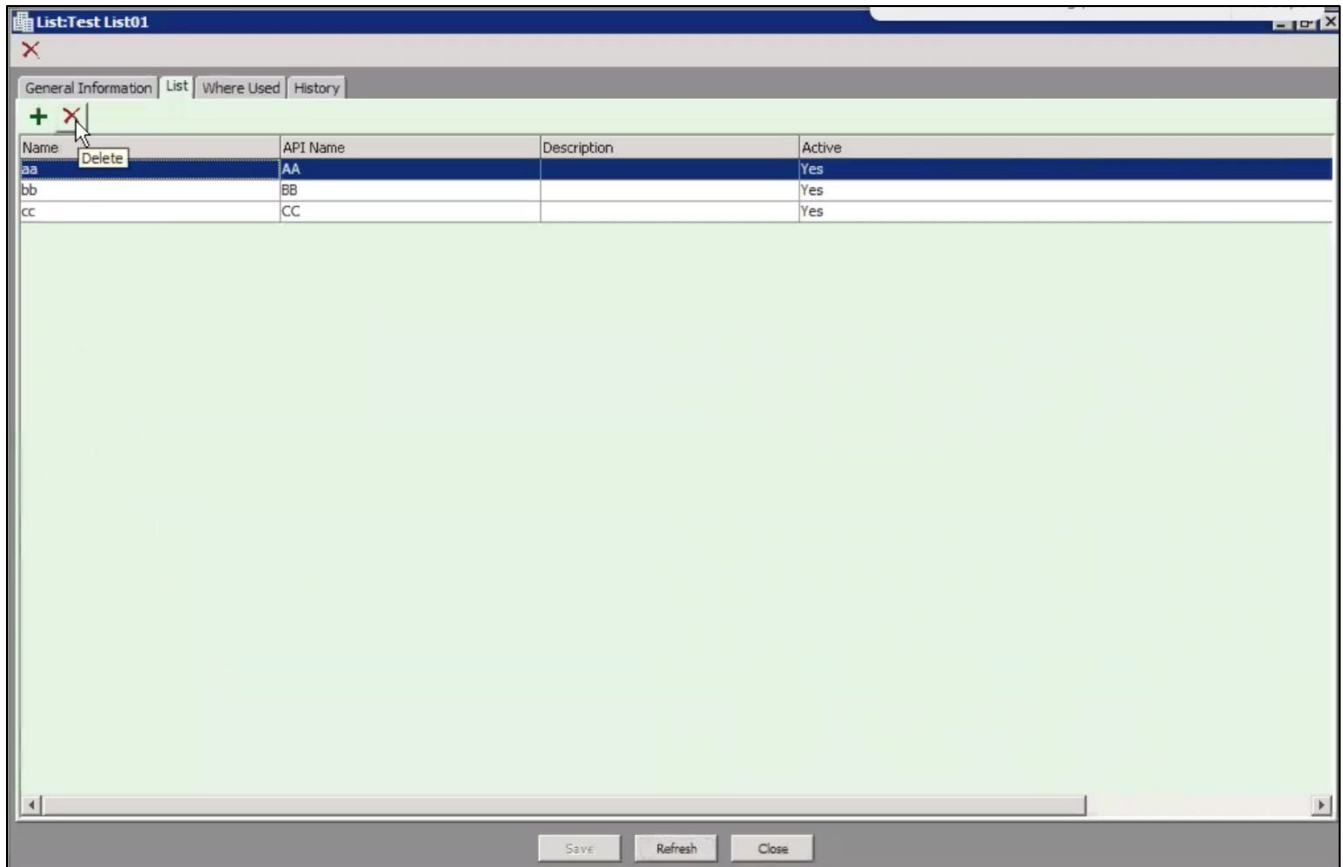


5. Current list is using by hundreds of criteria, user can move scroll bar up and down to see all the values.

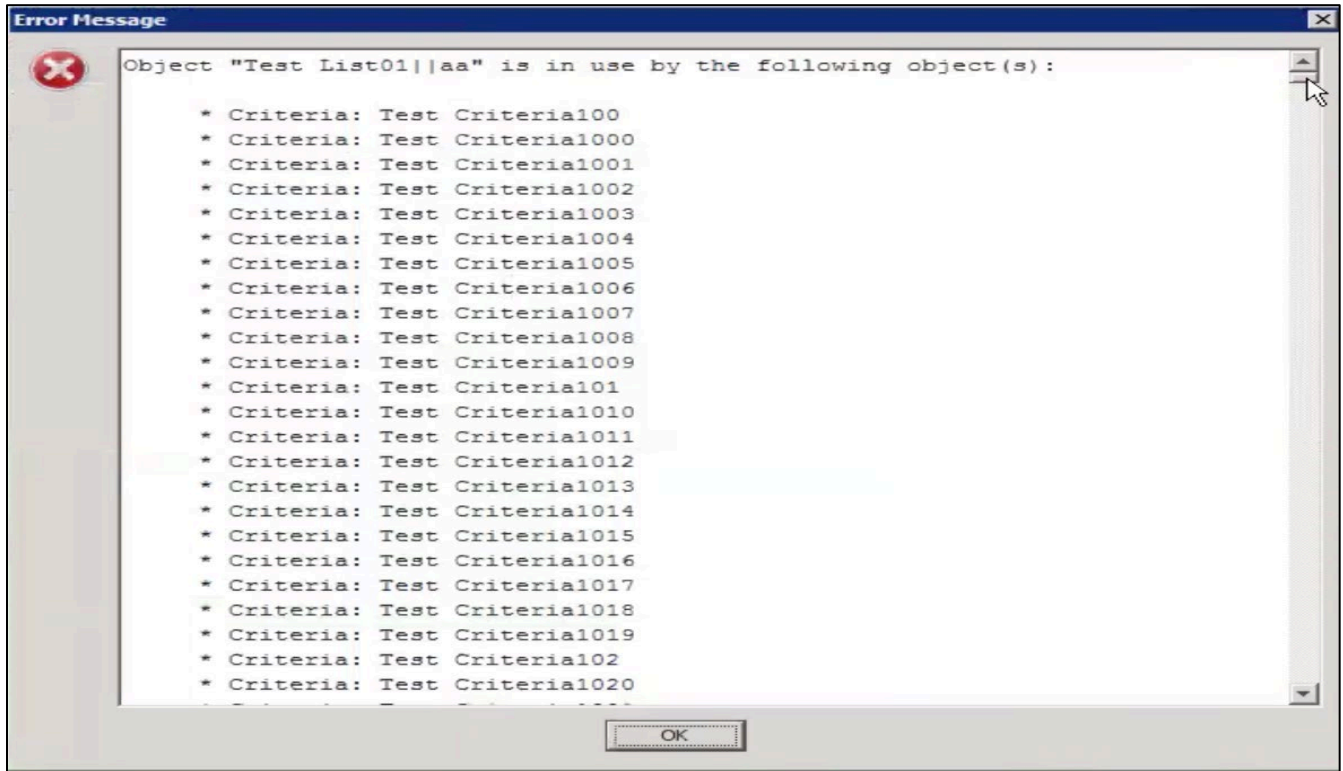


➤ Set example 2 about the list values was removed which support to show the error message.

1. Open the List: **Test List01** and try to delete the value **aa**



2. The graphic below shows the error message that appears when the user tries to delete the list entry.



20. 9.3.6 RUP 5 Enhancements

20.1. Commodity and Item Group Attributes are Available in Search Output

Prior to 9.3.6.5 release, Change Order.Affected Item.Commodity and Change Order.Affected Item.Item Group attributes were available as search criteria, but not as search output.

Search Criteria

Changes ECO Object Search

Attribute Operator

Item Number Is Not Null

Match Case

Search Personalization

Sort Format

Hidden Fields

- Cover Page
- Change Order Attributes
- ECO Attributes
- Affected Items
- Attachments

Displayed Fields

- Number (Cover Page)
- Description of Change (Cover Page)
- Status (Cover Page)
- Commodity (Affected Items)
- Item Group(s) (Affected Items)
- Workflow (Cover Page)

Apply Close

Basic Format Save Grouping

Search Results

Navigator More

Number	Description of Change	Status	Commodity (Affected Items)	Item Group(s) (Affected Items)	Workflow
ECO-00012	Release of Vent Parts with Color Options	Submitted	ICs	lg001	ECO Workflow B

21. 9.3.6 RUP 4 Enhancements

21.1. Import Supports Append Mode for Multilist Attributes

Prior to 9.3.6.4, when importing a multilist attribute, the previous value was overwritten.

With the 9.3.6.4 release, we have a new Import Preference called 'Multilist Data Action':

- The default is 'Overwrite Data' to keep the existing behavior
- Select 'Append Data' to retain the existing multilist values and append the imported values to the list.

Import Preference

Parsing and ValidationBusiness RuleDefault TypesAutonumber Sources

Log Transformations: ☒

Multilist Delimiter Character: semicolon (;) ▼

Cascade Delimiter Character: Vertical bar (|) ▼

Whitespace Validation Action: Reject ▼

Case Validation Action: Convert ▼

Length Validation Action: Reject ▼

Blank Data Action: Overwrite Data ▼

Multilist Data Action: Overwrite Data ▼

Append Data
Overwrite Data

☐ Persist preference settings to be shared

✓ Save⊘ Close

21.2. Reviewer Modifications During Workflow Status Change are Captured in the History Tab

Prior to 9.3.6.4, if changes are made to reviewers (approvers, acknowledgers, observers) during a workflow status change, the change was not captured in the History tab

With 9.3.6.4, changes made to reviewers is now captured during a workflow status change for all routable objects.

The screenshot displays two parts of the Oracle Agile PLM interface. On the left, the 'Change Status to CCB' dialog box is shown, with a list of reviewers. A red box highlights 'Joe Manager (pm)' and 'Approver Group'. On the right, the 'History' tab is shown, displaying a table of actions performed by Joe Manager (pm) on 01/26/2018. The table has columns for User, Action, Local Client Time, Details, and Status. Red boxes highlight specific actions: 'Remove from approvers list' and 'Add to approvers list'.

User	Action	Local Client Time	Details	Status
Joe Manager (pm)	Remove from approvers list	01/26/2018 08:39:39 PM PST	(Removed from status - CCB) Joe Manager (pm) Approver Group	Submitted
Joe Manager (pm)	Change Status	01/26/2018 08:39:39 PM PST	Default Change Orders Submitted=>Default Change Orders CCB	Submitted
Joe Manager (pm)	Change Status	01/26/2018 08:37:46 PM PST	Default Change Orders Pending=>Default Change Orders Submitted	Pending
Joe Manager (pm)	Change Status	01/26/2018 08:37:37 PM PST	Default Change Orders CCB=>Default Change Orders Pending	CCB
Joe Manager (pm)	Reject	01/26/2018 08:37:37 PM PST	Rejected for Joe Manager Approver Group	CCB
Joe Manager (pm)	Add to approvers list	01/26/2018 08:35:53 PM PST	(Added to status - CCB) Joe Manager (pm) Dave Manager (dm1)	CCB
Joe Manager (pm)	Change Status	01/26/2018 08:35:53 PM PST	Default Change Orders Submitted=>Default Change Orders CCB	Submitted
Joe Manager (pm)	Change Status	01/26/2018 08:33:55 PM PST	Default Change Orders Pending=>Default Change Orders Submitted	Pending

21.3. WSSConfigurator tool change: reordered menu options so that the client policy can be configured directly from the top-level menu.

For more information, see the section entitled **Enabling Security for Web Services** in the **Security Guide** in the [Product Lifecycle Management Documentation Library Release v9.3.6](#).

22. 9.3.6 RUP 3 Enhancements

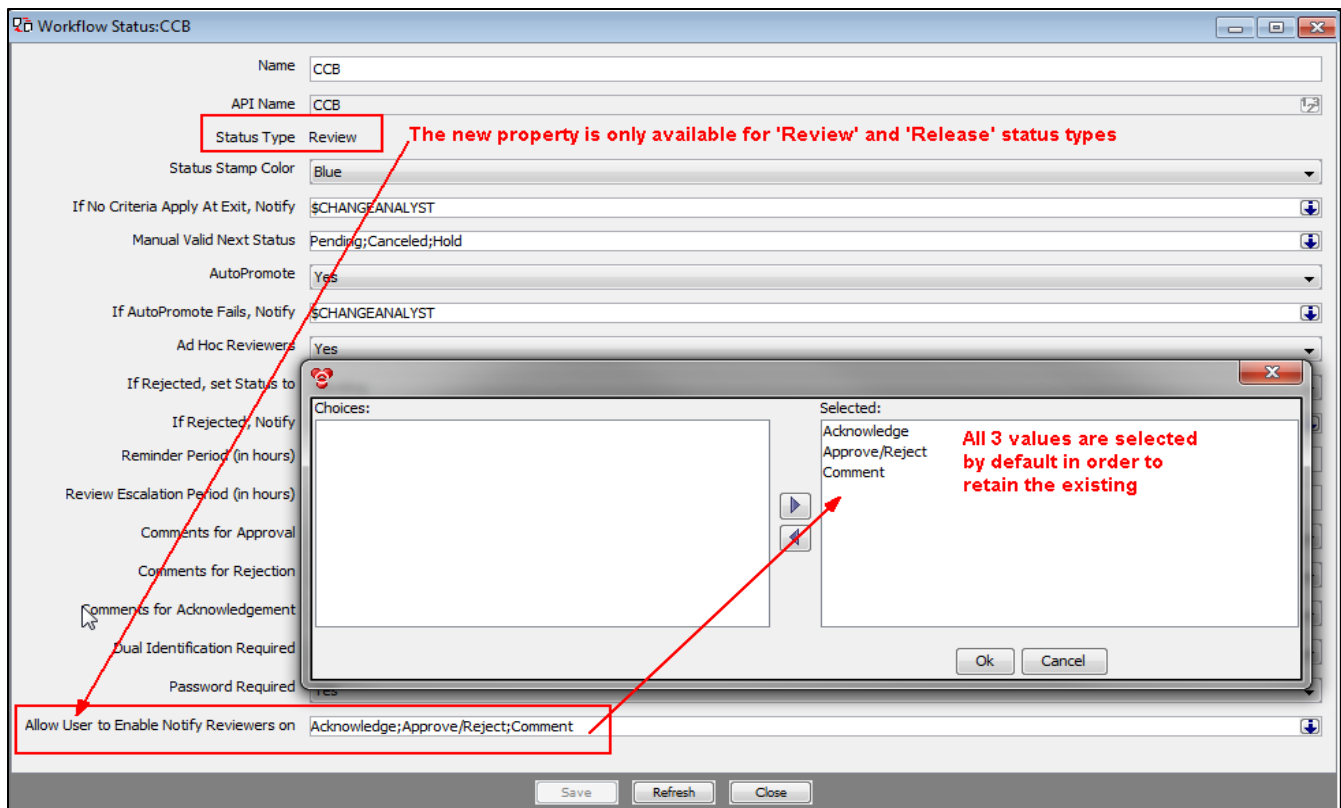
22.1. LDAP '-f' Force Option is Introduced

This setting allows the script 'migrateUserstoDB' to suppress any warnings or prompts. The Administrator can use this force option '-f' with other options (e.g. -p) when running the script migrateUserstoDB' to migrate a user from LDAP to the Agile database. It will complete the migrations without any interaction if this option is used.

22.2. New Workflow Property to Control the 'Notify Reviewer' Checkbox Visibility

Prior to 9.3.6.3, workflow reviewer users could check a 'Notify Reviewers' checkbox, which would send a notification to all other reviewers. If Supplier users are reviewers, there is the potential for them to see other suppliers who are also on the change order.

With 9.3.6.3, in the Java Client, we have added a new property 'Allow User to Notify Reviewers on' to each 'Review' and 'Release' workflow status type.



- There are three values, all selected by default: Acknowledge, Approve/Reject, and Comment. When any of the property state names are selected, the 'Notify Reviewers' checkbox is made visible for the selected property state names.
- Unselecting a value hides the 'Notify Reviewers' checkbox for the selected property state names.
- Impact to Web Client
 - User will see or not see the 'Notify Reviewers' checkbox depending on the property setting
- Impact to Workflow
 - The new property can be exported/imported as well as other properties through export/import functionality
- Impact to ACP
 - The new property as well as the other workflow properties can be migrated through an ACP script.
- Impact to Upgrade
 - The new property has all values selected by default for upgraded customers.
- Impact to OOTB Reports
 - The new property is added to the Workflow Configuration Report.

➤ Unsupported Use Cases

- The behavior change is not applied in the Java Client, which means the 'Notify Reviewers' checkbox will always be available, disregarding the workflow settings.
- Once an Administrator tries to block the option on a certain workflow, they should make sure that all Review and Release status types are set consistently to avoid the possibility of sending out notifications to other reviewers.

22.3. CAD for Cloud

CAD for Cloud is available for customers who desire to maintain their Designs 'on premise', but choose to publish Items, BOMs and Changes to the Product Development Cloud in order to take advantage of the 'End to End' Supply Chain Services in the Cloud.

23. 9.3.6 RUP 2 Enhancements

23.1. OAM SSO logout delay

The administrator can configure SSO logout delay time by adding a new property setting 'oam.sso.logout.nodelay=true' in the agile.properties file. By default it is set to false, which means with the user logs out of the Agile Web Client, the system will immediately invalidate the Agile session, but will have a 10 second delay to logout and invalidate the relevant SSO session. If the property is to true, when the user logs out from the Agile web client, the system will immediately invalidate the Agile session as well as the relevant SSO session.

23.2. Change to Job Function Search Display

When searching for users by 'Job Function', the search results should include the same columns as when searching by User, with the additional column for Type (User or User Group). Columns should be in the following order:

- User ID/Name
- Type
- First Name
- Last Name
- Status
- Job Function(s)

Approvers

Purchasing

*

User ID / Name	Type	First Name	Last Name	Status	Job Function(s)
pc	User	Alexis	Procurement	Active	Purchasing
Procurement	User Group			Active	Purchasing

23.3. Integrate JET Date Picker for the Calendar

The calendar framework now uses the JET Date Time Picker. This change occurs everywhere a date is entered. Click on the year to navigate to a new screen where you can select a different year.

<

October

2019

>

2010

2011

2012

2013

2014

2015

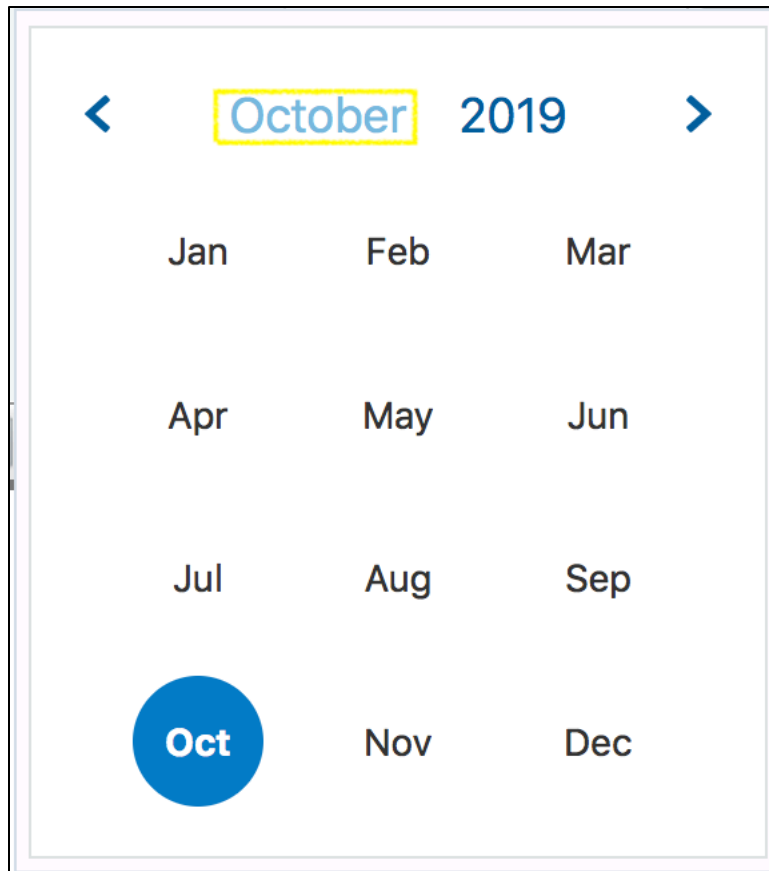
2016

2017

2018

2019

Similarly, click on the month to navigate to a new screen where you can select a different month.



24. 9.3.6 RUP 1 Enhancements

24.1. File Manager Advanced Dialog Changes

Support secure communication using SSL between the VueServlet and the AutoVue server. In the area of the File Manager Advanced dialog on the **Server Settings > Locations > File Manager** tab of the Java Client Admin setting, the following two settings are not used anymore and have been removed after applying this patch:

- Vue Server Host
- Vue Server Port

File Manager

Name: IFS

API Name: IFS

File Manager URL: http://slc01bff.us.oracle.com:8080/Filemgr/AttachmentServlet

Enabled: Yes

Primary file server: Yes

Standard <<

File Manager Internal Locator: http://slc01bff.us.oracle.com:8080/Filemgr/services/FileServer

Viewer Server URL: http://slc01bff.us.oracle.com:8080/Filemgr/VueServlet

Viewer Proxy URL: http://slc01bff.us.oracle.com:8080/Filemgr/VueLink

Viewer Content URL: http://slc01bff.us.oracle.com:8080/jVue

Enable Pre-Generation by Vue Server: Yes

+ X

Vault Type	Description	Base Storage D...	Purge Directory	Category
Standard	Primary Vault	C:/files	C:/files/purge	Read-Write

OK Cancel

24.2. Streaming Files

If 'Enable Pre-Generation by Vue Server' is set to 'Yes', thumbnails and streaming files pre-generation will be enabled, the generation will be processed by the same AutoVue server specified by the parameter 'JVueServer' in <Agile_Home>\agileDomain\applications\webfs.war\WEB-INF\web.xml.

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