



Agile Product Lifecycle Management
ReadMe v9.2.1.6

Part No. E10883-01

January 2008

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Preface

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

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

The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile.html) (<http://www.oracle.com/technology/documentation/agile.html>) can be accessed through Help > Manuals in both the Agile Web Client and the Agile Java Client. If you need additional assistance or information, please contact [support](http://www.oracle.com/agile/support.html) (<http://www.oracle.com/agile/support.html>) (<http://www.oracle.com/agile/support.html>) for assistance.

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

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Readme

Any last-minute information about Oracle|Agile PLM can be found in the Readme file on the [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile.html) (<http://www.oracle.com/technology/documentation/agile.html>).

Agile Training Aids

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

Training offerings.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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What's New

This chapter includes the following:

▪ Install and Test Notice	1
▪ Overview Checklist	1
▪ Agile Configuration Propagation	2
▪ Common Services	3
▪ Integration	3

This section lists new features for this Service Pack release.

Install and Test Notice

Important Install and test this release on a designated development server before installing it on your production environment. Your development environment should mirror your production environment as closely as possible to provide accurate testing results. It is important to validate the installation of this release, and confirm your integrations are working correctly as part of your minimum due diligence. Any problems or questions noted during your development system testing should be resolved before installing this release on your production environment.

Overview Checklist

Important Please view the *Quick Install Guide* to ensure that the correct comprehensive Oracle "E-Packs" have been downloaded that correspond to your customer licenses for this Oracle release.

Oracle Agile Product Overview Checklist

After reading the content of this Agile PLM release document, we suggest performing the following tasks:

- Feature Review:
 - Review the New Features and Resolved Issues sections to make sure you understand the overall product changes in this release.
- Business Process Review:
 - After completing the New Feature and Resolved Issues review, make sure you understand if any of your current business processes are impacted by this release and/or if they might need to be modified and re-evaluated. This is a very important preparation step as you move forward with implementing any Agile release. Make sure all of your key business processes are thoroughly documented and you have an overall business owner who

understands each process. Use this list of processes as a checklist against the features and changes in this Agile release. You may want to assign a “weight” to each change in terms of how significant an impact it has to your organization (think about re-training users, changing current integrations, etc).

- Identify resources to install and test this release.
 - Make sure that a test environment is ready and that tests have been developed to ensure this release performs the functions necessary for your business. Verify that the system can be rolled back in the unlikely event of a failure. Make sure that your testing includes all aspects of the product features, all of your business processes and any integration that you may have (AIS, SDK, ChangeCAST, ACS, etc.). If considering switching to LDAP authentication, come up with a plan to test the LDAP integration. Make sure to cover common scenarios like changing password, removing a user, etc.
- Create an upgrade plan and strategy.
 - For a release, we recommend engaging our Solution Delivery Organization for your upgrade. Validate the hardware configuration according to the Capacity planning and deployment guide. If you plan to manage your own upgrade, create a very detailed upgrade plan that includes a scheduled start time, an established number of “dry” runs, a pre-determined Roll out date, and a designated team of individuals across your organization with detailed knowledge of product, technology, networking, business process, etc.
- Prepare end-user training.
 - We recommend exposing a number of your power users to the new version well in advance of a production rollout to ensure that your users deeply understand the product functionality. Much of the end user training will actually begin during the testing phase. Use this feedback as a basis for your overall end-user training.

Agile Configuration Propagation

Agile Configuration Propagation (ACP) is being GA-released with Oracle Agile PLM 9.2.1.6 and is being simultaneously released to tie in with Oracle | Agile PLM 9.2.2.1, 9.2.2.2 and 9.2.2.3.

ACP is a utility that lets the Agile administrator propagate the configuration of one Agile instance to another Agile instance of the same version. The configuration consists of all settings content of all Administrator nodes (in Java Client > Admin tab) in one Agile instance. The propagation may consist of the complete Administration data for an instance, or it may consist of a selected subset of Administration data for an instance.

Installation and operation of ACP is documented in the *Oracle | Agile PLM 9.2.1.6 Agile Configuration Propagation User Guide*.

Common Services

Support for Internet Explorer 7 (IE7) and FireFox2

Integration

Added capability to remove the aXML generated by Agile from the schema reference

Resolved Issues

This chapter includes the following:

▪ Install and Test Notice	5
▪ Service Pack Hot Fix Note	5
▪ Common Services	6
▪ Install/Upgrade	10
▪ Integration	11
▪ Product Collaboration	16
▪ Product Governance and Compliance	21
▪ Product Portfolio Management	21
▪ Technology Platform	22

This section lists issues that were resolved during this Service Pack release. Underlined numbers (for example, 123456) are Customer Support ID numbers from customer-reported issues. Numbers in the format agile00xxxxxx are Agile internal reference numbers and are for internal use only.

Install and Test Notice

Important Install and test this release on a designated development server before installing it on your production environment. Your development environment should mirror your production environment as closely as possible to provide accurate testing results. It is important to validate the installation of this release, and confirm your integrations are working correctly as part of your minimum due diligence. Any problems or questions noted during your development system testing should be resolved before installing this release on your production environment.

Service Pack Hot Fix Note

Note Note: The contents of this release include the following Hot Fixes: 9.2.0.2 HF8, 9.2.0.2 HF9, 9.2.0.2 HF10, 9.2.1 HF37, 9.2.1 HF38, 9.2.1 HF39, 9.2.1 HF40, 9.2.1.3 HF26, 9.2.1.3 HF27, 9.2.1.3 HF 30, 9.2.1.3 HF31, 9.2.1.3 HF32, 9.2.1.3 HF33, 9.2.1.3 HF34, 9.2.1.3 HF36, 9.2.1.3 HF37, 9.2.1.3 HF38, 9.2.1.3 HF39, 9.2.1.3 HF40, 9.2.1.3 HF41, 9.2.1.3 HF42, 9.2.1.3 HF43, 9.2.1.4 HF5, 9.2.1.4 HF7, 9.2.1.4 HF8, 9.2.1.4 HF9, 9.2.1.4 HF11, 9.2.1.4 HF12, 9.2.1.4 HF13, 9.2.1.4 HF14, and 9.2.1.4 HF16.

Common Services

259238

Reports/Searches

Issue: When creating reports, the "Options" fields need to be selected again, even though they have already been selected in the search.

Root Cause: Design omission.

Resolution: When a search arrangement (search type, search object, related content) is not changed, the layout will remain. Otherwise, all layouts will be deleted.

Verification: Follow the steps below to verify the resolution:

- 1 Create a search and select some Options fields to display.
- 2 Save the search.
- 3 Create a Custom Report using the saved search. Those selected fields in the saved search can be loaded into the customer report as default layout fields.

264479

Administrator Configuration

Issue: Ability to set more than 100 characters for Character Set.

Root Cause: The maximum length set in client side is 100.

Resolution: Change the maximum length to 170.

Verification: Follow the steps below to verify the resolution:

- 1 Log into Java Client as Admin user.
- 2 Create a Character Set.
- 3 Try to input more than 100 characters in "Valid Characters Set" field. Now the maximum length for this field is set to 170.
- 4 Assign this character set to an attribute of a Class or Subclass and check it out.

270065

Administration Configuration

Issue: The Workflow History is displaying an incorrect user name that has no Administrator privileges. "Modified In Use From No To Yes" history log should not be displayed to the end user, as it is an internally used property.

New Feature/ Enhancement.

Resolution: Skip the logging of the "In Use" property for Changes.

Verification: Follow the steps below to verify the resolution:

- 1 Log into Java Client as Admin user.
- 2 Create a user named USER1 and assign Change Analyst role to USER1.
- 3 Create a new workflow.
- 4 Create a Change with USER1 and assign the new workflow to the Change.
- 5 In Java Client, go to the workflow History tab. The history "Modified In Use from No to Yes" should not be logged in the Admin history tab since USER1 has no Admin privileges and the "In Use" property is internally used.

275523

Reports/Searches

Issue: The Scheduled Report Notification is not sent to the listed "Share with" users.

Root Cause: The Group ID and User ID have not been handled correctly.

Resolution: Changed code to handle Group ID and User ID correctly.

Verification: Follow the steps below to verify the resolution:

- 1 Create a Report.
- 2 Create a Schedule for the Report that will run Every Day at 12:00AM.
- 3 Within the Share with Users field, enter several users other than the creator. These users should have Report User role.
- 4 Make sure to have the proper e-mail address and notification settings.
- 5 When the report is generated, the creator will receive an e-mail notification saying, "Schedule of Custom Report ChangesBacklogNotification generated a historical report for you."
- 6 All the shared users will receive an email notification as expected.

277399

Reports/Searches

Issue: Search result is incorrect for Advanced Search with criteria based on Relationships.

Root Cause: In Relationship searches, when Subclass is selected as With Related Content, Subclass was not added to the search condition.

Resolution: Add Subclass as the additional search condition when Subclass is selected as With Related Content.

Verification: Follow the steps below to verify the resolution:

- 1 Create two Subclasses for File Folder named "folder1" and "folder2". Enable Page Three.List01 for the two Subclasses.
- 2 Create a Program, go to its Deliverables tab and add two File Folder objects F1 and F2 in Affected By with "Create New" using type "folder1" for F1 and "folder2" for F2.
- 3 Edit File Folders F1 and F2; set F1.Page Three.List01=A and F2.Page Three.List01=B.

4 Create an Advanced Search: Search For - Activities; Search Type - Deliverables: Affected By Search; With Related Content - folder1; Criteria - Deliverables.File Folder.Page Three.List01=B. And on Options tab, select field Deliverables.folder1.Page Three.List01 for output.

5 Run the Advanced Search. The query did not return any results.

6 Modify the Advanced Search, change the criteria to Deliverables.File Folder.Page Three.List01=A. The query will return the right Program object.

278083

Reports/Searches

Issue: The Active Directory locked out an LDAP user after one failed login attempt. The maximum allowed before an account gets locked out in the Active Directory configuration is supposed to be four times.

Root Cause:

1. OC4J called LoginModule twice when it got the wrong username/password.
2. LDAP adapter tried the failover LDAP even when the original LDAP server returned authentication failure message.

Resolution:

1. Altered OC4J so it will not call LoginModule twice in the case of a username/password being wrong.
2. Fixed the LDAP adapter so it will not try the failover LDAP server when the authentications fail.

Verification: Follow the steps below to verify the resolution:

- 1 Set login attempts to "4" in the Active Directory.
- 2 Log into Java Client, go to the LDAP node, and input one LDAP configuration, which is an ADS cluster configuration.
- 3 Log into Web Client with an LDAP user account, such as user name "agileuser1" and password is "Le@rning". Login works well for the first time.
- 4 Now log out and log in again with user name "agileuser1" and a wrong password, i.e. "badpw". This login fails and it prompts, "Invalid user ID or password".
- 5 Log out and log in with correct user name and password. The user can log in successfully after one failed login attempt.
- 6 Log out and log in with user "agileuser1", but use the wrong password four times. After the four failed log in attempts, the user account will be locked out as expected.

279702

Reports/Searches

Issue: The Scheduled Report Notification is not sent to the listed "Share With" users.

Root Cause: The Shared user ID and Group user ID are handled incorrectly.

Resolution: Changed code to handle Group ID and User ID correctly.

Verification: Follow the steps below to verify the resolution:

- 1 Create a Report.
- 2 Create a Schedule for the Report that will run every day at 12:00AM.
- 3 Within the Share with Users field, enter several users other than the creator. These users should have Report User role.
- 4 Make sure to have the proper e-mail address and notification settings.
- 5 When the report is generated, the creator will receive an e-mail notification saying, "Schedule of Custom Report ChangesBacklogNotification generated a historical report for you." Also, all the shared users will receive an e-mail notification as expected.

280663

Administration Configuration

Issue: Intermittent SQL error ORA-00904 returned in SDK application.

Root Cause: Concurrency racing issue.

Resolution: Move the potential offending statements to the synchronized section.

Verification: Follow the steps below to verify the resolution:

- 1 Run the three SDK scripts from SDK client at the same time.
- 2 The SDK sessions should complete without ORA-00904 error.

283690

Standard Reports

Issue: When a user edits a report query, the layout of the report is lost, and the user has to re-select the options from the Options tab.

Root Cause: Design omission.

Resolution: When a search arrangement (search type, search object, related content) is not changed, the layout will remain. Otherwise, all layouts will be deleted.

Verification: Follow the steps below to verify the resolution:

- 1 Create a Custom Report.
- 2 Modify the report layout by adding several fields and sorting/grouping by attributes.
- 3 Edit the report query.
- 4 Save the updated query. The layout settings of the report won't be changed unless search class level or search type changed.
- 5 If the content of "Search For" or "Search Type" changed, it will prompt the user with the message: "Saving the query will result in losing the layouts and schedule information. Do you want to continue?" By clicking OK, the layout settings will be cleaned up.

Install/Upgrade

281871

Issue: Performance issue when invoking URL PX that generates custom report using SDK in 9.2.1.4.

Root Cause: For every remote call from SDK, all the roles for the logged user were being retrieved from the DB to create the UserContext object, which is a costly operation. Since creation of UserContext object is a costly operation, generally it would be created once when the user logged in and cached in the server for subsequent calls. When the remote calls were made from SDK, the key (i.e. sessionId, loginId) used to lookup the cached UserContext was incorrect and hence was getting created every time.

Resolution: Fixed the code to parse the string passed from the client to extract the loginId correctly and then use this correctly extract loginId for lookup.

Verification: Follow the steps below to verify the resolution:

- 1 Verify the issue with PMI database and their login userid.
- 2 Search for Projects -> RU04 - ML REVAMP II. And pick up the Gate with name "PDR - Project Detail Report".
- 3 Action menu -> click on "GeneratePDR Report".
- 4 Original response times: First time load - 65 seconds; Second time load: 40 seconds.
- 5 Response times after applying fix: First time load - 45 seconds; Second time load: 10 seconds.

285185

Dataload

Issue: Dataloader says invalid class when class exists.

Root Cause: Dataloader does not support NCR class.

Resolution: Enable Dataloader to support NCR class.

Verification: Follow the steps below to verify the resolution:

- 1 Run Dataloader client.
- 2 Prepare data for PR object and customer object.
- 3 Click table structure, select source_ProblemReport and source_Customer and select required attributes and some P2/P3 attributes.
- 4 Launch MS access -> prepare PR data and customer data.
- 5 Go to view-validation, check some required fields.
- 6 Validate data successfully.
- 7 Load data into the system.
- 8 Compare date UI with the source file.

9 Run Dataload scripts.

10 You will find the customer and PR are dependent in the system. PR data can be loaded without any errors.

Integration

agile00257499

Export/ACS

Issue: Provide the ability to generate an aXML file without a schemaLocation reference.

Root Cause: Users did not have the capability to cause the output aXML not to have the schema reference.

Resolution: New Feature/ Enhancement. A system level setting was added to agile.properties that will cause the aXML generated by Agile to not have the schemaLocation reference.

The aXML header will resemble this:

```
<AgileData
  xmlns=http://support.agile.com/misc/axml/2007/03/

  xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance

  xmlns:xsd=http://www.w3.org/2001/XMLSchema

  xsi:schemaLocation="http://support.agile.com/misc/axml/2007/03/
http://support.agile.com/misc/axml/2007/03/" >
```

Verification: Follow the steps below to verify the resolution:

- 1 Add `extract.axml.output.header_with_no_schemareference=true` to `agile.properties`.
- 2 Restart the agile server.
- 3 Extract a part to aXML and note that the header section of the output no longer contains a `schemaLocation` reference.

268246

ACS

Issue: ATO/CTO failed to transfer objects with a destination delivery error.

Root Cause: In a cluster environment, the ACS threads will run on all of the servers in the cluster. All the ACS threads may operate on the same destination. Occasionally one ACS thread will fail to update a destination with a node version conflict error due to multiple threads operating on the same destination. When the ACS thread runs, however, it basically operates off of a queue of the items that are stored in the database. These items have to be processed in order. The problem in a clustered environment is that different servers in the cluster effectively compete with each other as far as ACS is concerned. Because the Items in the ACS queue need to be processed in order, there is no benefit to ACS in having multiple servers at its disposal.

Resolution: Allow customers to control which server can run as the ACS server. This is done with the introduction of a new field into the `agile.properties` file. If a customer does not want to have the ACS thread run on a given server, they need to add the following field `acs.skipServer=true` in

agile.properties file on that server. After the field is set, Agile cluster needs to be restarted. Agile recommends that in a clustered environment, this setting should be added for all servers in the cluster except for one. That one server will then become the server which the ACS thread will run.

Verification: Follow the steps below to verify the resolution:

- 1 Apply with the following instructions.
- 2 Add `acs.skipServer=true` in agile.properties file on all the servers in a cluster except for one. That one server will then be running as ACS server.
- 3 Re-start all Agile servers in the Cluster.
- 4 In Java Client, export an object with a CTO and ATO to a valid destination. The object can be exported and the Transfer Orders' history is correct.
- 5 Export an object with a CTO and ATO to an invalid destination. The object cannot be exported and the Transfer Order's history is able to report the right reason for the failure.

279516

ACS

Issue: BOM nodes are missing the referentID attributes in the aXML file output.

Root Cause: Export did not include the referentID on the BOM nodes for an aXML report.

Resolution: Include the referentID on the BOM nodes for an aXML report. This will allow the BOM nodes to be easily matched with their corresponding Parts nodes.

Verification: Follow the steps below to verify the resolution:

- 1 Create a Part object, P1.
- 2 Add a new Part, P2, to the BOM tab of P1.
- 3 Create a CTO and transfer P1 into an aXML file.
- 4 Check the aXML file. ReferentID should be included in the BOM nodes in the aXML file.

280022

Import

Issue: The preferences should not save the ECO number when re-importing in same session.

Root Cause: The Import Change number is persistent during the same user session.

Resolution: Clear the Change number from a user session when the user clicks "Import" or "Restart" import.

Verification: Follow the steps below to verify the resolution:

- 1 Prepare an import source file. For example:
2 Part, Parent, REF DES, QTY
P00029, P00001, C1-C3, 3
- 3 In Agile Web Client, click Import, select the source file and click Next.
- 4 Select contents Item | Bill of Material, click Next.

5 On "Select Change Order and Mapping file" page, create a new Change Order and map, then click "Import" to begin.

6 Click "Restart".

7 Repeat steps 1 through 3 and go to "Select Change Order and Mapping file" page, now the previous Change Order number is not retained.

280345, 279220

Export

Issue: File attachments are included in PDX export when a user has NO GetFile privilege and vice versa.

Root Cause: Export was not correctly handling GetFile privileges with criteria.

Resolution: Update Export to be able to properly handle criteria of GetFile privileges.

Verification: Follow the steps below to verify the resolution:

1 In Java Client, create a List type field on Parts.Page Two named "Access Control" with the following values: Internal Only | External Only | Internal and External.

2 Create Criteria on Parts.Page Two.Access Control named "Internal Only Parts" with the following criteria: Parts. Page Two.Access Control Not Equal to External Only And Page Two.Access Control Not Equal to Internal and External.

3 Create a Privilege named "GetFile Internal Parts" with the above criteria.

4 Create a Role and assign the following privileges: Read Parts (all fields are applied to) | Discover Items | Export | EnforceFieldLevelRead | GetFile Internal Parts.

5 Create a test user and assign the above role to the user along with My User Profile.

6 Create three parts all with attachments, and set Page Two.Access Control to different values for each of them.

7 Login as the test user and verify that you can only get the attachments on the Part that Page Two.Access Control equals "Internal Only".

8 Export the three Parts to PDX files including attachments. Check the PDX export for each Part. The attachments should be included in the PDX export only for the Part that has GetFile privilege for the user.

280580

ACS

Issue: A document attribute is not coming over in the PDX generated by ACS, even though it shows on the BOM.

Root Cause: The problem occurs if there are two different lists, (one associated with Parts and the other with Documents) and they are both associated with the same field on the BOM tab. The code was not properly resolving the documents' list.

Resolution: Changed code to properly resolve the Documents' list.

Verification: Follow the steps below to verify the resolution:

1 In Java Client, set Item Filter.BOM Options to "Tab and Items, First Level" or "Tab and Items,

All Levels".

2 Create two new lists named "mylist" and "mylist_doc".

3 Enable Parts.Page Two. List19 and set list to "mylist". Also enable Parts.BOM.Item List19.

4 Enable Documents.Page Two.List19 and set list to "mylist_doc". Also enable Documents.BOM.Item List19.

5 Create a Part named P1; add one Part and one Document to P1's BOM tab.

6 Select a value to Item List19 for both the Document and the Part objects under P1's BOM tab.

7 Export P1 into PDX and aXML. The value of the Document attribute can be exported successfully.

280604, 285289

Export

Issue: ACS is unable to export flex fields on Page Two/Page Three.

Root Cause: Export was unable to handle user-added flex fields for aXML.

Resolution: Added the ability to export user-added flex fields. They will be seen in the aXML output in a form resembling the following:

```
<FlexAttributes>
```

```
  <FlexAttribute Id="36732">
```

```
    <name>NewDate</name>
```

```
    <value xsd:type="xsd:string">2006-11-15T00:00:00Z</value>
```

```
  </FlexAttribute>
```

```
</FlexAttributes>
```

Verification: Follow the steps below to verify the resolution:

1 Log into Java Client and set Part Page Two tab visible.

2 Create a new Date attribute in Part P2. Set a Date value and enable the attribute.

3 Create a Part (the new Date attribute can be seen in the UI).

4 Export the Part by ACS to aXML file by CTO. Check that the newly created attribute is exported in the aXML file.

5 Export the Part to a PDX file. Check that the newly created attribute is exported in the PDX file.

284030

ACS

Issue: Email Notification problem in Agile Content Service (ACS).

Root Cause: In a cluster environment the ACS threads will run on all of the servers in the cluster. All the ACS threads may operate on the same destination. Occasionally, one ACS thread will fail to

update a destination with a node version conflict error due to multiple threads operating on the same destination. When the ACS thread runs however, it basically operates off of a queue of the items that are stored in the database. These items have to be processed in order. The problem in a clustered environment is that different servers in the cluster effectively compete with each other as far as ACS is concerned. Because the Items in the ACS queue need to be processed in order, there is no benefit to ACS in having multiple servers at its disposal.

Resolution: Allow customers to control which server can run as the ACS server. This is done with the introduction of a new field into the agile.properties file. If a customer does not want to have the ACS thread run on a given server, they need to add the following field `acs.skipServer=true` in agile.properties file on that server. After the field is set, Agile cluster needs to be restarted. Agile recommends that in a clustered environment, this setting should be added for all servers in the cluster except for one. That one server will then become the server which the ACS thread will run.

Verification: Follow the steps below to verify the resolution:

- 1 Apply with following the installation instructions.
- 2 Add `acs.skipServer=true` in agile.properties file on all the servers in a cluster except for one. That one server will then be running as ACS server.
- 3 Re-start all Agile servers in the Cluster.
- 4 Log into Java Client. Create a Destination with a valid "URL or Target Path" and a user as "Notification User".
- 5 Create an Event with Event Type - Workflow, Workflow - Default Change Orders and Workflow Status - Released.
- 6 Create a new Subscriber with the Event and Destination as created above, and then enable the Subscriber.
- 7 Create an ECO, ECO1, with workflow "Default Change Orders" and route ECO1 to Released status. An ATO, ATO1, is generated with Complete status and the transmission status is success.
- 8 Disable the Subscriber and break the Destination, then enable the Subscriber again.
- 9 Create a new ECO, ECO2, with workflow "Default Change Orders", and then change its status to Released.
- 10 A new ATO, ATO2, is generated and it is in Released status instead of Complete status as the transmission is failure now.
- 11 Go to the History tab of ATO2, history details show 6 times failed information. After 6 times failed retries, the extract is stopped. In the meanwhile, the notified user gets 6 email notifications with the failed ATO information.
- 12 Now create another new ECO, ECO3, with workflow "Default Change Orders" and route the status to Released.
- 13 Check the History of ATO3, which was generated by ECO3's release, it shows failure information with details "Destination failed during an earlier extraction".
- 14 Now disable the Subscriber again and make the Destination successes, after that, enable the Subscriber.
- 15 Check ATO2 and ATO3 now. The two ATOs can be continued to "Complete" status and the object can be transferred successfully now.

Product Collaboration

274783

Changes

Issue: Insufficient User Privileges to discover Affected Items after changing the workflow status.

Root Cause: The Discovery object was patched with a VOCell value, but not a String value, so the privilege check failed.

Resolution: Make the privilege check able to handle VOCell value too.

Verification: Follow the steps below to verify the resolution:

- 1 Log into Java Client as a super user.
- 2 Create criteria NotEmptyPart as below: Name: NotEmptyPart, ObjectType: Part, Condition: Page Two.Text01 Is Not Null.
- 3 Create a discovery privilege DiscoveryMyParts with the criteria NotEmptyPart.
- 4 Create a role (MyRole) and add the below privileges: DiscoveryMyParts, Read Items, Modify Preliminary Items, Discover Changes, and Read Changes.
- 5 Create a user named TestUser and assign MyRole to the user.
- 6 Go to Admin > Settings > Data Settings > Classes, set Item.Parts.Page Two and Page Two.text01 to Enabled.
- 7 Create two parts P00001 and P00002 and fill Page Two.Text01 with values Test01, and Test02.
- 8 Create a Change C00001 and add P00001, and P00002 as its Affected Items.
- 9 Log into Web Client as user TestUser.
- 10 Open C00001 and navigate to the Affected Items tab where you can see both of the Affected Items.
- 11 Click Affected Item P00001 to open it.
- 12 Edit P00001 PageTwo.text01 to another value and save.
- 13 Go back to C00001's Affected Items tab. You can still see P00001 and P00002.

276743, 279912, 282538

Java Client

Issue: In Java Client, when a user goes to the Redline BOM tab, the Item Number in the Affected Items tab is not highlighted.

Root Cause: Java Client did not restore the highlighted Affected Items after a user highlighted the AI and in consequence related redline tables were refreshed.

Resolution: Restore the highlighted Affected Item row.

Verification: Follow the steps below to verify the resolution:

- 1 Log into Java Client with Admin user.
- 2 Create an Item P1 and add item P2 as its BOM.
- 3 Log into Web Client with another user named User01.
- 4 Open P1 and create a change order ECO1 against P1.
- 5 In Java Client, open ECO1 and go to the Affected Items tab.
- 6 User01 in Web Client redline P1's BOM through ECO1, adding a new Item P3 as P1's BOM.
- 7 Back in Java Client select P1 under the Affected Items tab of ECO1. Marking of selected P1 is retained correctly.

277136

Web Client

Issue: The "Copy URL to Clipboard" function is not linking the Item, which it was copied from correctly.

Root Cause: Flags are missing in the copied URL.

Resolution: Add a flag "fromPCClient=true" to the copy URL link.

Verification: Follow the steps below to verify the resolution:

- 1 In Agile Web client, create a Part.
- 2 Execute action "Copy URL to Clipboard" from the Action menu of this Part.
- 3 Open a new Window, and then paste the copied URL.
- 4 In this newly opened Window, paste the copied URL a second time. It will be linked to the right Item that it was copied from.

279559

Web Client

Issue: In the Agile Web Client the MaxLength of an Item Description on a Change Affected Items tab was always coming from the MaxLength of the Part class Description MaxLength even if you added a Document to its Affected Items tab.

Resolution: Get the MaxLength of Item description based on Parts Class and Documents Class.

Verification: Follow the steps below to verify the resolution:

- 1 In the Agile Java Client, set the MaxLength of Part Class Description attribute on Title Block to 20 and set the MaxLength of Document Class Description attribute to 30, which is greater than the MaxLength of Part.
- 2 In the Agile Web Client, create a Document and then create an ECO against the Document.
- 3 Go to the ECO Affected Items tab; select the Document and click the Edit button. Input 30 characters in Item Description and then click Save. It can be saved without any warning or error messages.

280130

Folders, Files and Attachments

Issue: Cannot open attachments when the user password contains special characters.

Root Cause: The username and password in the http request form are not encoded

Resolution: Encode username/password whenever send them through wire.

Verification: Follow the steps below to verify the resolution:

- 1 Log into Java Client with the created username.
- 2 Create BO and add attachments.
- 3 Perform the following operations:
 - Open
 - Get
 - Checkout
 - Checkin
 - Showversions - Open
 - Showversions - Get

280989

Java Client

Issue: Cascading list is not fully showing in Affected Items criteria.

Root Cause: For multiple source list attributes (AI.Item P2 List01-25, AI.Item Product Line.AI.Item Category) we only supported multiple regular source lists when defining a criteria, and did not support multiple cascading source lists.

Resolution: Now we support multiple cascading source list attributes when defining a criteria. Provide the new API to the client side.

Verification: Follow the steps below to verify the resolution:

- 1 In Java Client, create a cascading list and a normal regular list with multi list entries. Create multilevel list values for the cascading list.
- 2 Enable Document.Page Two.List01 and Multilist01, Part.Page Two.List01 and Multilist01.
- 3 Point Part.Page Two.List01 and MultiList01 to the normal regular list and set Document.Page Two.List01 and MultiList01 to the cascading list.
- 4 Enable Change Orders.Affected Items.Item P2 List01 and Item P2 MultiList01.
- 5 Create criteria; set the Object Type to Change Orders and add Affected Items.Item P2 List01 Equal To (select normal regular list of Parts and some cascading list values of Documents). In Java Client, the list of available values is showing as cascading list and after selection, the criteria condition is also shown cascading list as multilevel.

282443

Advanced Viewer

Issue: File Manager writes to Read-Only vaults.

Root Cause: Copy files action in vault always copies in the "Current" vault, including read-only.

Resolution: Use read-write vault to create new files.

Verification: Follow the steps below to verify the resolution:

- 1 Create two vaults and configure (i.e. Vault A as read-write and Vault B as read-only) in Java Client.
- 2 Restart the File Server.
- 3 Log into Web Client/Java Client.
- 4 Create a part (i.e.P001) and add attachments (i.e. 2D and 3D files).
- 5 Log into Java Client. Configure Vault B as Read-Write and configure Vault A as Read-Only.
- 6 Restart the file server.
- 7 Log into Web Client/Java Client.
- 8 Search the part created in Step 3 (i.e.P001) and create another part (i.e. P002) by clicking "Save As".
- 9 Check the vaults. The new attachment, which was created by "Save As", will be added to Vault B, the read-write vault.

282847

Web Client

Issue: HTML code is showing up in field values.

Root Cause: The response page of a request is getting forwarded to the application error page.

Resolution: Do not forward to any page if it is a request.

Verification: Follow the steps below to verify the resolution:

- 1 In Agile Web Client, create an ECO and add item P1 to its Affected Items tab.
- 2 Redline P1 and add item P2 as P1's BOM.
- 3 Select P2 to edit, set Qty to 3, Find Num to 410 and Ref Des to C124-C126, and then click Save. The field values can be saved and no HTML code is showing up.
- 4 Check Ref Des in BOM view, choosing Date from Calendar in AI row editing and autonumber generation, they are all working well as expected.

283195

Java Client

Issue: Criteria based on Item category are becoming corrupt after editing.

Root Cause: ItemClass.TB.ItemCategory could have List for Part Class and Document Class.

Resolution: Handling ItemClass.TB.ItemCategory to pick up List both from Part and Document.

Verification: Follow the steps below to verify the resolution:

- 1 Log into Java Client and make sure that Part Category and Document Category Lists contain values.
- 2 Create new Criteria and base it on Items.
- 3 Go to the Criteria tab of the Criteria and hit the ellipsis (three dots) box. Edit the Criteria and add Tile Block.Item Category Equal to [Documents] Category1 OR Title Block.Item Category Equal to [Parts] Category1. Then click OK to save.
- 4 Edit again and add one more condition for Criteria.
- 5 Select another tab and then go back to the Criteria tab. The values are still there and the Criteria tab can be opened as usual.

286199

Changes

Issue: Approval fails when a user has special characters in the password.

Root Cause: If the password/approval password contains special characters, like single quotes, the Approve or Reject action is not working properly. This is because of the java script error due to single quotes.

Resolution: Store the password in the session context for the Approve or Reject action.

Verification: Follow the steps below to verify the resolution:

- 1 Log into Java Client as the Admin user.
- 2 Create a new user User1. Make the User1 password include the ' character. For example, agile'.
- 3 Create a Change Order and add at least one affected item.
- 4 Route the Change Order status to CCB and add User1 as an approver.
- 5 Log into Web Client as the User1.
- 6 User1 rejects the ECO first and then tries to approve the ECO using the user password agile'. Approval works without any error message.

287150

Folders, Files and Attachments

Issue: Agile SDK fails to get the file attachment with null pointer exception.

Root Cause: URL PX uses a custom security token for authentication. The Token contains a ":" character. (AGILESSO::xxxx). Agile File Manager uses a ":" as a delimiter for username/password resulting in an invalid authentication token being passed to the App Server.

Resolution: Change parsing code to handle this case.

Verification: Follow the steps below to verify the resolution:

- 1 Try to get a file on Java Client, SDK (make sure the SDK client has the same JRE version as the Agile Application Server), and URL PX.

Product Governance and Compliance

281809

Substance/Specification/Part Group

Issue: "Save As" on a Part generates duplicate Specifications.

Root Cause: "Save As" carried all Specifications in all Revisions to the new created Part.

Resolution: Filter the Specifications table by Revision before performing "Save As".

Verification: Follow the steps below to verify the resolution:

- 1 Create a Part object, then add a Specification to the Part's Compliance tab.
- 2 Create a few revisions of the Part.
- 3 Add the same Specification to each revision of the Part.
- 4 Save as the Part to a new Part. The new part will have no duplicate Specifications on the introductory revision.

Product Portfolio Management

279572

Java Client

Issue: The "Actual Days Effort" field does not allow any value greater than 100 to be entered.

Root Cause: The UI was not allowing a value greater than 100 for the "Actual Days Effort" field.

Resolution: Changed the code to allow the field value to be greater than 100.

Verification: Follow the steps below to verify the resolution:

- 1 Create a Program and add user A as a resource.
- 2 Log in as user A and go to Program Activities.
- 3 Edit and enter a value greater than 100 for "Actual Days Effort" and then click Save. The value can be saved successfully.

Technology Platform

286023, 286661

LDAP

Issue: LDAP Integration - Disabled Users in ActiveDirectory cause LDAP Synchronization to end prematurely.

Root Cause: The LDAP synchronization has code that limits each LDAP query to 1000 users. Once that 1000 user limit is reached, it loops back and takes the next 1000. However, the counter does not increment if there is a disabled user in LDAP, it simply gets skipped.

Resolution: The counter needs to be incremented regardless of whether the user is active or inactive. This will prevent the LDAP synchronization from exiting prematurely.

Verification: Follow the steps below to verify the resolution:

- 1 Create more than 1000 users on the ADS server.
- 2 Migrate these users into Agile system.
- 3 Enable these migrated users in Agile system.
- 4 Change several users from Active to Inactive on the ADS LDAP server.
- 5 Click "Refresh User from LDAP" in Java Client to update these users from the LDAP server. Users can be updated successfully, and those disabled users on the ADS server will be changed to Inactive in Agile as expected.

Upgrading the Application to Agile 9.2.1.6 on Windows

This chapter includes the following:

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▪ Upgrading the SDK Client.....	24
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Install and Test Notice

Important Install and test this release on a designated development server before installing it on your production environment. Your development environment should mirror your production environment as closely as possible to provide accurate testing results. It is important to validate the installation of this release, and confirm your integrations are working correctly as part of your minimum due diligence. Any problems or questions noted during your development system testing should be resolved before installing this release on your production environment.

Upgrade Requirements

Before you install Agile PLM 9.2.1.6, make sure your system meets the following requirements:

Operating System

- Windows 2003 SP1 and later

Supported Application Upgrade Path

The Agile PLM 9.2.1.6 application upgrade path is from the following releases:

- Agile PLM 9.2.1 GA
- Agile PLM 9.2.1.1 - 9.2.1.5

Upgrading the File Manager

1. If there is no distributed file server network, stop here and go to Upgrading the Application Server. Otherwise, continue with the following steps.
2. Stop the file server and any additional Agile services.
3. Back up the existing deployed application, Filemgr, if present:
 - a. Change to the agile_home\Tomcat\webapps directory.
 - b. Verify there is a directory named Filemgr under the webapps directory.
 - c. If the Filemgr directory exists, then perform the following:

```
cd ..  
mkdir webapps.old  
mv webapps\Filemgr webapps.old
```
4. Download Agile9216_Win.exe to a temporary folder.
5. Download and extract the contents of the 9.2.1.6_Platforms.zip file to the same location as the Agile9216_Win.exe file.
6. In the temporary file, double-click Agile9216_Win.exe.
The Install Window appears.
7. Click Done to finish the installation.
8. Repeat the steps in this section on each distributed file server.

Upgrading the SDK Client

1. If the SDK Client is installed on the same machine as the application server, stop here and go to Upgrading the Application Server. Otherwise, continue with the following steps.
2. On the system where the SDK Client is installed, download Agile9216_Win.exe to a temporary folder.
3. Download and extract the contents of the 9.2.1.6_Platforms.zip file to the same location as the Agile9216_Win.exe file.
4. In the temporary folder, double-click Agile9216_Win.exe.
The Install window appears.
5. Click Done to finish the installation.

Upgrading the Application Server

On Oracle Application Server:

1. Undeploy the Agile Application:
 - a. Make sure Oracle Application Server is still running.
To check OAS status, open a command prompt window, change to <oas_home>\opmn\bin

- directory, and run `opmnctl status`. If OAS isn't running, run `opmnctl startall`.
- b. From a command prompt window, change to the `agile_home\agileDomain\bin` directory.
 - c. Run `UnDeployAgile`.
2. Stop the OPMN processes from the Oracle home directory:
 - a. Open a command prompt window.
 - b. Stop the Oracle Application Server Control Console:
`\<oas_home>\bin\emctl stop iasconsole`
 - c. Stop the Oracle Application Server instance:
`\<oas_home>\opmn\bin\opmnctl stopall`
 3. Verify that the application server, the Apache or IIS Admin Service, and any additional Agile services are stopped.
 4. On the system where the application server is installed, download `Agile9216_Win.exe` to a temporary folder.
 5. Download and extract the contents of the `9.2.1.6_Platforms.zip` file to the same location as the `Agile9216_Win.exe` file.
 6. In the temporary folder, double-click `Agile9216_Win.exe`.
The Install window appears.
 7. Click Done to finish the installation.
 8. Restart the Oracle Application Server instance:
`\<oas_home>\opmn\bin\opmnctl startall`
 9. Check the status of the Oracle Application Server instance:
`\<oas_home>\opmn\bin\opmnctl status`
 10. Deploy the Agile application:
`\agile_home\agileDomain\bin\DeployAgile.cmd`
When deployment is finished, the script prompts that the Agile application has been deployed.
 11. Verify that the Agile application is deployed:
`\<oas_home>\dcm\bin\dcmctl listapplications`
If Agile is listed, you can log in to the application server.
 12. Start the Apache or IIS Admin Service.
 13. If you are running in a clustered environment, repeat these steps on each application server.

On BEA WebLogic Application Server:

1. Follow the instructions in the *Installing Agile PLM with BEA WebLogic* guide to stop the Agile application server.
2. Verify that the application server, the IIS Admin Service, and any additional Agile services are stopped.
3. On the system where the application server is installed, download `Agile9216_Win.exe` to a temporary folder.

4. Download and extract the contents of the 9.2.1.6_Platforms.zip file to the same location as the Agile9216_Win.exe file.
5. In the temporary folder, double-click Agile9216_Win.exe.
The Install window appears.
6. Click Done to finish the installation.
7. Start the IIS Admin service.
8. Start the Agile application server.
9. If you are running in a clustered environment, repeat these steps on each application server.

Post-Installation Verification

Application Server

Start the Application Server before performing the following steps:

1. Open a web browser and type <http://localhost:80/Agile/PLMServlet>.
2. Log into the application server from this URL.
 - In the application menu under Help | About Agile, Update Versions should contain 9.2.1.6.
 - In the application menu under Help | About Agile, Agile Version should contain 9.2.1.6.09.

File Manager

Start the File Manager before performing the following steps:

1. Open a web browser and type <http://localhost:8080>.
The Tomcat information should display verifying that Tomcat is running.
2. In the existing web browser type <http://localhost:8080/Filemgr/Configuration> to display the File Manager Configuration page.

Upgrading the Application to Agile 9.2.1.6 on UNIX

This chapter includes the following:

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▪ Upgrading the SDK Client.....	28
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Install and Test Notice

Important Install and test this release on a designated development server before installing it on your production environment. Your development environment should mirror your production environment as closely as possible to provide accurate testing results. It is important to validate the installation of this release, and confirm your integrations are working correctly as part of your minimum due diligence. Any problems or questions noted during your development system testing should be resolved before installing this release on your production environment.

Upgrade Requirements

Before you install Agile PLM 9.2.1.6, make sure your system meets the following requirements:

Operating System

- Solaris 9 or 10
- Red Hat Linux 4

Supported Application Upgrade Path

The Agile PLM 9.2.1.6 application upgrade path is from the following releases:

- Agile PLM 9.2.1 GA
- Agile PLM 9.2.1.1 - 9.2.1.5

Upgrading the File Manager

1. If there is no distributed file server network, stop here and go to Upgrading the Application Server . Otherwise, continue with the following steps.
2. Stop the file server and any additional Agile processes.
3. Back up the existing deployed application, Filemgr, if present:
 - a. Change to the agile_home/Tomcat/webapps directory.
 - b. Verify there is a directory named Filemgr under the webapps directory.
 - c. If the Filemgr directory exists, then perform the following:

```
cd ..  
mkdir webapps.old  
mv webapps/Filemgr webapps.old
```
4. Download the upgrade file to a temporary directory.
Solaris: Agile9216_Sol.bin
Linux: Agile9216_Lin.bin
5. Download and extract the contents of the 9.2.1.6_Platforms.zip file to the same location as the upgrade file.
6. From the temporary directory, run the upgrade file.
The Install Window appears.
7. Click Done to finish the installation.
8. Repeat the steps in this section on each distributed file server.

Upgrading the SDK Client

1. If the SDK Client is installed on the same machine as the application server, stop here and go to Upgrading the Application Server. Otherwise, continue with the following steps.
2. On the system where the SDK Client is installed, download the upgrade file to a temporary directory.
Solaris: Agile9216_Sol.bin
Linux: Agile9216_Lin.bin
3. Download and extract the contents of the 9.2.1.6_Platforms.zip file to the same location as the upgrade file.
4. From the temporary directory, run the upgrade file.
The Install window appears.
5. Click Done to finish the installation.

Upgrading the Application Server

On Oracle Application Server:

1. Undeploy the Agile Application:
 - a. Make sure Oracle Application Server is still running.

To check OAS status, open a command prompt window, change to <oas_home>/opmn/bin directory, and run opmnctl status. If OAS isn't running, run opmnctl startall.
 - b. From a command prompt window, change to the agile_home/agileDomain/bin directory.
 - c. Run UnDeployAgile.sh.
2. Stop the OPMN processes from the Oracle home directory:
 - a. Open a terminal window.
 - b. Stop the Oracle Application Server Control Console:

```
<code>/<oas_home>/bin/emctl stop iasconsole</code>
```
 - c. Stop the Oracle Application Server instance:

```
<code>/<oas_home>/opmn/bin/opmnctl stopall</code>
```
3. Verify that the application server, the Apache web server, and any additional Agile processes are stopped.
4. On the system where the application server is installed, download the upgrade file to a temporary directory.

Solaris: Agile9216_Sol.bin
Linux: Agile9216_Lin.bin
5. Download and extract the contents of the 9.2.1.6_Platforms.zip file to the same location as the upgrade file.
6. From the temporary directory, run the upgrade file.

The Install window appears.
7. Click Done to finish the installation.
8. Restart the Oracle Application Server instance:

```
<code>/<oas_home>/opmn/bin/opmnctl startall</code>
```
9. Check the status of the Oracle Application Server instance:

```
<code>/<oas_home>/opmn/bin/opmnctl status</code>
```
10. Deploy the Agile application:

```
<code>/agile_home/agileDomain/bin/DeployAgile.sh</code>
```

When deployment is finished, the script prompts that the Agile application has been deployed.
11. Verify that the Agile application is deployed:

```
<code>/<oas_home>/dcm/bin/dcmctl listapplications</code>
```

If Agile is listed, you can log in to the application server.
12. If the web server is installed on the same machine as the application server, restart the web server.

13. If you are running in a clustered environment, repeat these steps on each application server.

On BEA WebLogic Application Server:

1. Follow the instructions in the *Installing Agile PLM with BEA WebLogic* guide to stop the Agile application server.
2. Verify that the application server, the Apache web server, and any additional Agile processes are stopped.
3. On the system where the application server is installed, download the upgrade file to a temporary directory.
Solaris: Agile9216_Sol.bin
Linux: Agile9216_Lin.bin
4. Download and extract the contents of the 9.2.1.6_Platforms.zip file to the same location as the upgrade file.
5. From the temporary folder, run the upgrade file.
The Install window appears.
6. Click Done to finish the installation.
7. If the web server is installed on the same machine as the application server, restart the web server.
8. Start the Agile application server.
9. If you are running in a clustered environment, remove the previous deployment cache located at agile_home/agileDomain/applications/<wlnotdelete_servername> and agile_home/agileDomain/<managed_server> on each managed server, then repeat these steps on each application server.

Post-Installation Verification

Application Server

Start the Application Server before performing the following steps:

1. Open a web browser and type <http://localhost:80/Agile/PLMServlet>.
2. Log into the application server from this URL.
 - In the application menu under Help | About Agile, Update Versions should contain 9.2.1.6.
 - In the application menu under Help | About Agile, Agile Version should contain 9.2.1.6.09.

File Manager

Start the File Manager before performing the following steps:

1. Open a web browser and type <http://localhost:8080>.
The Tomcat information should display verifying that Tomcat is running.
2. In the existing web browser type <http://localhost:8080/Filemgr/Configuration> to display the File Manager Configuration page.

Database Upgrade Guidelines

This chapter includes the following:

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▪ Checking Database Upgrade Requirements	34
▪ Backing Up Your Database	34
▪ Verifying Your Database.....	34
▪ Stopping the Application Server and the Database Listener	34
▪ Performing Database Operations Locally on the Database Server	34

This section provides basic database upgrade guidelines for Agile PLM. For specific upgrade instructions, see subsequent sections.

- Checking Database Upgrade Requirements
- Backing Up Your Database
- Verifying Your Database
- Stopping the Application Server and the Database Listener
- Performing Database Operations Locally on the Database Server

Important Install and test this release on a designated development server before installing it on your production environment. Your development environment should mirror your production environment as closely as possible to provide accurate testing results. It is important to validate the installation of this release, and confirm your integrations are working correctly as part of your minimum due diligence. Any problems or questions noted during your development system testing should be resolved before installing this release on your production environment.

Database Upgrade Planning

The entire upgrade process may take a considerable amount of time depending on the size of the database and the hardware configuration. Based on our past experience, 75% of the upgrade process is spent on upgrading and backing up the database. We strongly recommend running the schema backup and upgrade on a test system so that appropriate time can be scheduled for the production deployment.

The sequence of actions to be performed for a service pack upgrade is as follows:

1. Undeploy the Agile PLM application.
2. Upgrade the database to 9.2.1.6.
3. Upgrade the Agile PLM application.
4. Deploy the Agile PLM application.

Checking Database Upgrade Requirements

Before upgrading your database, verify the database upgrade requirements. You must have the correct operating system, database, and an Agile PLM version that is supported by the database upgrade path.

Backing Up Your Database

For information about backing up your database, refer to the section called “Backing up the database” in the *Agile PLM Database Installation Guide*. Before updating the database instance, you should back up the full database instance or do a cold backup.

Verifying Your Database

Before upgrading your database, you should run the Averify script to validate the current database. If you encounter any errors, contact Agile Support to resolve them. All errors should be fixed before you continue with the database upgrade.

Stopping the Application Server and the Database Listener

Make sure the application server and database listener remain stopped during the entire database upgrade process.

Shut down the Agile application server and any additional Agile services. Follow the instructions in the *Installing Agile PLM with Oracle Application Server* guide to undeploy the Agile Application.

Performing Database Operations Locally on the Database Server

All database operations should be performed by the DBA on the computer where the database server is installed.

Important The DBA should not use Oracle Client to upgrade the database server from another computer.

Upgrading the Database

This chapter includes the following:

- Upgrade Requirements..... 35
- Upgrade Procedure 36

Important Install and test this release on a designated development server before installing it on your production environment. Your development environment should mirror your production environment as closely as possible to provide accurate testing results. It is important to validate the installation of this release, and confirm your integrations are working correctly as part of your minimum due diligence. Any problems or questions noted during your development system testing should be resolved before installing this release on your production environment.

Upgrade Requirements

Before you install Agile 9.2.1.6, make sure your system meets the following requirements:

Operating System

- Windows 2003 Server
- Solaris 9 or 10
- Red Hat Linux 4

Database

- Oracle 9iR2 or Oracle 10g R2

Supported Database Upgrade Paths

Note If you wish to upgrade from these versions or other versions not listed, you can use the Automated Upgrade Tool (AUT) to upgrade your database to Agile PLM 9.2.1.6. Check the Agile Support website for information on upgrading your database to Agile PLM 9.2.1.6 with AUT.

The Agile PLM 9.2.1.6 Oracle database supported upgrade paths using the AUT are:

- Agile PLM 9.2.1.3 HF22 --> 9.2.1.6
- Agile PLM 9.2.1.4 --> 9.2.1.6

Upgrade Procedure

Important Check the current database schema version and identify the proper upgrade script to upgrade database to Agile 9.2.1.6.

To upgrade your database to 9.2.1.6, perform the following steps:

5. Shut down the Agile application server and any additional Agile services.

Note	If you are running Agile on Oracle Application Server, follow the instructions in the “Upgrading the Application” chapter specific to your operating system to undeploy the Agile Application.
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6. Back up the database by exporting the Agile schema.
7. Log in to SQL*Plus as agile/tartan and run the following query to check the schema and data version of the database:

select value from propertytable where parentid=5001 and propertyid in (37,726);

Release version	Schema version	Data version
Agile 9215	9.2.170	9.2.170.2

8. Make a temporary directory, upgradetmp.
9. Download the oracle script specific to your version and the latest oracle_averify92x.sql script, located on the Agile Support site, to the temporary directory.
10. Download and copy the agile9.sql and agile9_check.sql files to the existing database instance template directory, agile9tmp.
11. Change to the upgradetmp directory.

Note	Upgrade scripts must be run from the directory where the scripts are located. Running the upgrade scripts from a different directory may cause errors.
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12. Run Averify. Instructions are provided in the averify.zip file.
All errors should be fixed before continuing. Contact Agile Support for help with any errors.

13. Upgrade the database schema, as follows:

- a. In the command window, change to the upgradetmp directory and type:

```
set NLS_LANG=AMERICAN_AMERICA.UTF8
```

- b. Log in to the database using SQL*Plus as the agile user.

```
sqlplus agile/tartan
```

- c. Run the Oracle upgrade script.

- d. Run Averify.

All errors should be fixed before continuing. Contact Agile Support for help with any errors.

14. Log in to SQL*Plus as agile/tartan and run the following query to verify the schema and data version of the database:

select value from propertytable where parentid=5001 and propertyid in (37,726);

Release version	Schema version	Data version
Agile 9.2.1.6	9.2.175	9.2.175.0

15. Back up the upgraded database by exporting.

