



Agile Engineering Collaboration

Readme

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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.

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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>)

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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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Agile Engineering Collaboration 1.3.1

What's New

With the Engineering Collaboration (EC) 1.3.1 release, Agile introduces a change in product terminology – **EC PLM API** is now called **EC Services**. This release also includes some key usability improvements such as:

- Single Change Order for Multiple Affected Items - When you perform a checkout or any other operation on multiple items at the same time, only a single change order is now created.
- Mapping File Auto-Generation Tool - This new tool helps you automatically generate the mapping file used by EC Services at the server side. For instructions on using this tool, see [Auto-Generation of Mapping File](#) (on page 1) below. This tool is currently supported only on WebSphere application server.
- Client/Server or Release/Build Version Checking - You can now determine if there is a version mismatch between the client and the server. The client now compares the server version number to the client version number, and throws an exception if these are not absolutely identical.
- Improved Error Handling - Error message handling has been improved to help determine whether the root cause of an issue lies with the EC Services code, or with a customer's processes or code. For details, see [Getting Server-Side Stack Traces](#) (on page 2) below.

Auto-Generation of Mapping File

The mapping file is called *plm-api-sdk.xml*, and contains data from the following two input sources:

- DumpedClasses.csv — A CSV file containing the subclasses and attributes (admin metadata) dumped from the target PLM server. This file needs to be generated every time the subclasses or their attributes in the PLM server are modified. This includes only the subclasses of the supported object types - parts, documents, change orders, file folders, programs, manufacturer and manufacturer parts.
- MappingTables.csv — A CSV file containing default names of the relations that should be used for each table of the supported objects from the PLM server. This file can be used as it is, or modified to match the relation names implemented and supported in the EC Services callables.

To generate the EC Services mapping file:

1. From the EC 1.3.1 installation directory, extract all the contents of the *plm-api-cif.zip* file to a local directory.
2. Edit the file *setEnv.cmd* to set the values for the following environment variable:
 - JAVA_HOME should point to a 1.4 version JDK or JRE home directory.
3. Open a command window prompt to the root folder into which you extracted the contents of the *plm-api-cif.zip* file.

4. If the file *DumpedClasses.csv* has not been generated, or if the subclass configuration in the PLM server has changed:

- Edit the file *ini\ECMappingConfig.properties* to include the Agile PLM Server URL
- Run the following command:

dumpClasses.cmd

You will be prompted for an Agile username and password; please enter these as appropriate.

This process may take some time, especially if the connection to the server is obtained through WAN. At the end of this process, the file *DumpedClasses.csv* will be present in the current folder. When finished, the message "Done Writing Classes Output File to Path: <output file>" appears. This is followed by a final message "BUILD SUCCESSFUL" and an indication of the total time.

You can safely ignore any `java.util.MissingResourceException` messages.

5. Once the classes have been dumped to the file *DumpClasses.csv*, run the following command:

generateMapFile.cmd

Just like the `dumpClasses.cmd` above, the Agile PLM Server URL needs to be in the properties file, and you will be prompted for an Agile username and password when the command is executed. This process takes some time, in some cases up to 30 minutes. When finished, the mapping file *plm-api-sdk.xml* is written to the current folder.

Note	The program prints "Iterating attributes" over and over as it runs to indicate that it is running. When it is complete, the message "BUILD SUCCESSFUL" is printed, with an indication of the total time.
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Within Agile PLM, replace the old mapping file in the PLM-API-CONNECTOR file folder with the newly generated *plm-api-sdk.xml* file.

Getting Server-Side Stack Traces

If the header in the request includes the parameter `PlmSession.OPTION_DEEP_STACKTRACE` with its value set to "true", then the resulting `PlmResponse` from the server will contain all server-side stack traces for its `PlmStatusEvents`. The default value of this flag is "false".

Code sample:

```
PlmRequest request = PlmFactory.createRequest();

request.getHeader().setParameter(PlmSession.OPTION_DEEP_STACKTRACE,
Boolean.TRUE.toString());
```

The `PlmStatus` you get in the `PlmResponse` will now contain events with server side stack traces. These stack traces can be read by simply calling the `getMessage()` method on the `PlmStatusEvent` objects.

Note	Stack traces might not be present if the server-side code does not provide any trace for that status event. Setting of the flag does not generate such stack traces, it only causes them to be sent to the client if and when they are present on the server-side.
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To check whether a stack trace is included in the status message, use the following code:

```
PlmStatus status = response.getStatus();
List statuses = status.getAllStatuses();
Iterator it = statuses.iterator();
while (it.hasNext()) {
    PlmStatusEvent event = (PlmStatusEvent) it.next();
    String stackTrace = event.toString();
    if (!stackTrace.contains("at ")) {
        // Test fails!
    }
}
```

Agile Version Support

EC 1.3.1 supports the following platforms:

- Agile PLM 9.2.2.1 and 9.2.2.2
- Application servers - WebSphere 5.1.1, WebLogic 8.1, Oracle 10g.

Resolved Issues

This section lists issues that were resolved during this Service Pack release. Issue numbers prefixed with the letters *SR* are Customer Service Requests. Numbers in the format *agile00xxxxxx* are Agile internal reference numbers and are for internal use only.

EC Server/SDK

agile00261050 / SR301034

Issue: Attachments cannot be updated when an item has been Incorporated. The PX logic does not scale properly across multiple publishing of the same item. A null pointer exception also occurs, resulting in an incorrect error message.

Root cause: When you check out all attachments associated with an item, a function call `checkOutAllAttachments` returns false if an item has been moved to the Incorporated state.

Resolution: Implemented change so that the function call `checkOutAllAttachments` returns true or false based on whether the checkout flag is enabled. If enabled, the call returns "false", and additionally, a proper error message is displayed. If not, it returns "true" as no attachments should be checked out.

Verification: Update an attachment to an item that has been Incorporated.

agile00261142 / SR301246

Issue: EC Services creates empty duplicate relationships between changes.

Root cause: When creating relationships between changes, if you create a relationship that already exists, a false empty relationship is created.

Resolution: If an existing relationship is duplicated, the row is removed. Multiple relationships between two changes can be created only if the relationship rules are unique.

Verification: Attempt to create a duplicate of an existing relationship between two changes. Empty duplicate relationships should not be created.

agile00261143 / SR301245

Issue: EC Services cannot use all statuses for relating changes.

Root Cause: When the CIF relates two changes, it can create a relationship rule that has a trigger workflow status and a target workflow status, but this only works if the constant refers to a status that is the next available status for the change.

Resolution: You can now use any status while creating a relationship, even if it is not the next available status in the workflow.

Verification: Create a relationship between changes and use a workflow status that is not the next available status.

agile00261660 / 301861

Issue: Multiple criteria searches fail while using EC Services.

Root cause: When attempting to join multiple criteria, an XML error results because the expression criteria class does not store the join condition. This causes the search to fail.

Resolution: The expression criteria class has been fixed to store the join condition.

Verification: Run the test class `cvs-maja/java/projects/agile-plmapi/src/main/java/com/agile/plmapi/samples/query/MultipleCriteriaQuerySample.java`

agile00262475 / SR302485

Issue: EC Services `asynservice.sql` script does not do Commit.

Root Cause: The SQL script to create the database objects did not include a COMMIT statement before the EXIT statement; this caused the SQL tool to exit and not store the objects.

Resolution: The SQL script is fixed to include COMMIT statements before the EXIT statement and also at the end of the contained stored procedure.

Verification: Execute the EC Services `asynservice.sql` script to see if it creates the database objects.

agile00262476 / SR302474

Issue: EC Services – Specifying any user but \$USER results in class cast error.

Root Cause: When using EC Services, if you specify another user for the change analyst other than \$USER, a class cast exception is thrown and an error is given in the response. This is due to a bug

in the AgileHelper.java used by the extensions.

Resolution: The code has been corrected to read the user properly.

Verification: Read an object with a user other than \$USER.

agile00262731 / SR302695

Issue: EC Services session times out in asynchronous call.

Root Cause: When multiple asynchronous executions take place in parallel, the session could time out.

Resolution: The variable that counts the asynch connections and the flag that indicates that the session should be closed are now set for the connector alone, and not globally.

Verification: Open a session and execute an execAsync() call in polling mode.

Known Issues

Issue: When using the pre-packaged extension callables, the standard EC Services function calls may not operate correctly, and vice versa. CAD connector applications should be written exclusively using one or the other approach.

Root Cause: This is due to different mapping used for the standard vs. extension callables.

Workaround: No workaround available.

Issue: Mapping file generation tool generates incorrect xml when run on Agile 9.2.2.2.

Root Cause: This is due to missing files in the Agile 9.2.2.2 SDK client jar.

Workaround: Copy the agileclasses.jar file from the server deployment.

