

QAD Product Information Management Release Notes

April 2012

These release notes include information about the latest Product Information Management fixes and changes. These changes may affect the way you implement and use Product Information Management.

Review this document and the Product Information Management errata *before* proceeding with any phase of a Product Information Management implementation.

QAD highly recommends that you implement the latest Product Information Management release available. Check the QAD Web site to make sure you have the latest release notes, user guide, installation errata, installation guide, and installation media:

<http://support.qad.com>

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Release Notes for Current Release

Product Information Management Version: 7.3

Date: March 2012

New Feature Summary

QAD PIM 7.3 introduces equivalence product associations. In previous releases, all product associations in PIM were represented using hierarchical (parent-child) relationships. There was no provision for flat (sibling) relationships. With the new equivalence product associations feature, this limitation is removed.

For example, consider a situation in which there are four products in PIM designated A, B, C, and D that are completely interchangeable so that you can use any one of the parts to manufacture specific finished goods. With the new type of product association, PIM will assume equivalence, which implies transitivity. In other words, if you associate product A with products B and C, then when looking at product B you will see products A and C, and when looking at product C you will see products A and B. Similarly, if you associate products A and B, and then associate products B and C, when you look at product A you will see products B and C; $A=B$ and $B=C$, therefore $A=C$.

Equivalence product associations are recommended when using the Automatic Product Association job.

PIM 7.3 has been tested as compatible with Internet Explorer 8.

Upgrading to PIM 7.3 from PIM 7.2.2

Preparation

- 1 Shut down the Import Manager process.
- 2 Shut down the PIM Servlet Engine application server.
- 3 If using Workflow, shut down the Workflow application server if different from (2).
- 4 Back up PIM_HOME.
- 5 Back up the PIM database.
- 6 If using Workflow, back up the Workflow database.
- 7 Unzip the new PIM `release_full.zip` into a clean directory. This will be referred to as PIM_MEDIA below. Linux users: unzip the file `spring-was.zip` in the `PIM_MEDIA\lib_thirdparty` directory. This will overwrite the `spring.jar` and `spring-webmvc.jar` files with ones compatible with Linux operating systems.
- 8 If Custom jar files were created for your PIM instance, copy them from the latest 7.x custom release into `PIM_MEDIA\lib`. Oracle users: make sure `jdbc.driver.dir` in `install.properties` points to a directory that contains the `ojdbc6.jar` file (leave this option commented-out for SQL Server).
- 9 If you use Workflow notifications, copy the new `LsBpmNotifications.jar`, `LsBpmCommon.jar`, `LsBpmPolicies.jar`, and `jdom-b10.jar` to `PIM_MEDIA\lib`.

PIM Upgrade

- 10 Run `upgrade.bat` to lay down the latest `iaccel.jar`, `ddl`, and generate a new `.war` file:

```
PIM_MEDIA\upgrade.bat Full_Path_To_install.properties
```

- 11 Run the 7.2 to 7.3 upgrade script for your database:

- a SQL Server:

```
cd PIM_HOME\ddl\sqlserver\upgrade
PIM_HOME\scripts\sqlcmd -i -C -c @v72tov73.sql > 72to73.out 2>&1
```

- b Oracle:

```
cd PIM_HOME\ddl\oracle\upgrade
PIM_HOME\scripts\sqlcmd -i -C -c @v72tov73.sql > 72to73.out 2>&1
```

- 12 If you use the Automatic Product Association job (Process Product Cross Reference Queue) and have had the issues described in issues PIM-2841 and/or PIM-2843, run the provided script to fix your DataMart tables in SQL Server:

```
cd PIM_HOME\ddl\sqlserver\upgrade
PIM_HOME\scripts\sqlcmd -i -C -c @v73_xref_data_fix.sql > 73xref_fix.out 2>&1
```

- 13 Redeploy the `.war` file, and if desired, deploy the Web Services `.war` file. If you are using Tomcat:

- a Copy `PIM_HOME\web\your_named_pps.war` file and place it in the `Tomcat_Home\webapps` directory.
- b If you are using web services, copy `PIM_HOME\web\your_named_pps-ws.war` file and place it in the `Tomcat_Home\webapps` directory.

Workflow Upgrade

- 14 Download the new `LsBpmServer.ear` file to the directory specified as `workflow.ear.dir` in `your-workflow-install.properties` file.
- 15 Set your `workflow.old.ear.dir` to point to the deploy directory of your current 7.2.2 JBoss 4.2.2 installation.
- 16 Run the upgrade script to upgrade the EAR file:

```
workflow-upgrade-ear.bat your-workflow-install.properties
```

- 17 Deploy your `LsBpmServer.ear` file:

```
workflow-deploy-jboss.bat your-workflow-install.properties
```

- 18 If you need to deploy new custom JAR files:

- a Copy the files to your `WORKFLOW_HOME\install` directory.
- b Set the `ANT_HOME` environment variable to point to the location of ant (typically in `PIM_MEDIA\bin\ant`).

- c Run this command to upgrade the EAR file:

```
%ANT_HOME%\bin\ant update-custom-policies -f workflow-install.xml -propertyfile your-workflow-install.properties
```

- d Then redeploy your `LsBpmServer.ear` file:

```
workflow-deploy-jboss.bat your-workflow-install.properties
```

Oracle Purge Workflows Stored Procedure Upgrade

For Oracle installations only, you should run a SQL script named `purge_completed_processes.sql` to load a new stored procedure to purge completed workflows. It is in the `FullTiltWorkflow-JBoss4.2.2.zip` file, in the `SQL\Oracle` subdirectory.

19 Load the procedure into Oracle, then execute the procedure:

```
call purge_completed_processes days;
```

where *days* is the number of days old a completed process must be in order to be deleted. Processes newer than this will not be purged. The default value for the *days* parameter if not specified is 30. Only completed processes will be deleted.

Upgrade Verification

20 Start the Import Manager.

21 Start the servlet engine (e.g., Tomcat).

22 Bring up the Workflow engine if applicable (e.g., JBoss).

23 Access the user interface and sign-on to PIM.

24 Bring up the About box and check that the version is “Version 7.3, build 2012.03.28.11.48.08”.

Fixes

QAD Issue	Customer Call	Description
PIM-2850	CA775329	Deleting a global attribute did not delete it from Product Association Page Layouts, resulting in errors when adding associations. This release fixes this issue.
PIM-2846	N/A	An HTTP 500 error was generated when assigning a product a malformed URL. The Product Attribute page now validates the URL type attribute for valid values. This release fixes this issue.
PIM-2843	N/A	Automatic Product Association was not disabled for an attribute used in a cross-reference definition. This release fixes this issue.
PIM-2841	N/A	Adding a new attribute definition to the Automatic Product Association template and selecting Use Attribute for Automatic Associations did not update the data mart. This release fixes this issue.
PIM-2839	CA841505	An Attribute with many values was slow to populate the drop-down list in a parametric search. This release fixes this issue.
PIM-2836	N/A	A stored procedure to purge completed workflows from Oracle databases was created. This release fixes this issue.
PIM-2835	N/A	Unwanted line breaks and duplicate text was generated in certain instances when printing to PDF. This release fixes this issue.
PIM-2833	CA829117	The Product Cross-Reference Queue Job did not process everything in the queue. This release fixes this issue.
PIM-2831	CA826716	When comparing versions, an HTTP 500 error was generated when the Production State was deleted. This release fixes this issue.
PIM-2826	N/A	Memory usage efficiency when performing a Template Export was enhanced. This release fixes this issue.
PIM-2795	CA792766, CA807126	Changing the Attribute Data Type adversely impacted performance. This release fixes this issue.
PIM-2764	N/A	An Excel export failed with greater than 65535 products. The limitation still exists, but error message indicating the 65535 product limit in the Excel format has been added. This release fixes this issue.

QAD Issue	Customer Call	Description
PIM-2759	CA771588	Product Cross Reference Job sometimes ran slowly. This release fixes this issue.
PIM-2734	N/A	Product Association failed if the product with which it was being associated has a double-quote in the part number. This release fixes this issue.
PIM-2707	N/A	Template Group Attributes could not be marked as cross-referenceable. This release fixes this issue.
PIM-2701	CA792038	The attribute order on a template/template group that has an Identifying List of Strings attribute could not be changed. This release fixes this issue.
PIM-2667	CA770517	The Catalog Product Counts was counts a product in each classification when the same product is classified more than once. This is functioning as designed.
PIM-2666	N/A	The Global Identifying Attribute did not display concatenated with the Part Number on a Product List screen or an Export even though the Export says to include it. This release fixes this issue.
PIM-2651	CA754399	An HTTP 500 error was generated when changing a String to a List of Strings prior to applying a new attribute to the database. This release fixes this issue.
PIM-2646	CA752227	Product Mgmt >> Templates >> Product >> General Tab did not save the product information correctly when the Product Image was changed from the UI and clicked on Apply Changes button. It showed an HTTP 500 error on the application UI. This release fixes this issue.
PIM-2585	N/A	Autocreate Template/Attributes did not create multi-valued attributes. This release fixes this issue.
PIM-2536	CA800763	The deletion of the data supplier category to template mappings did not work properly. It would throw an "Item not found in the database" error. This release fixes this issue.
PIM-2478	CA714857	When doing a custom export from Products Found, the Export Framework would generate an error message stating "Nothing exported" when products were exported, but an export file was not generated. The message has been changed to "No export file generated."
PIM-2366	CA712391	The Delta Export was not functioning correctly after a restart; all records were exported. This release fixes this issue.
PIM-1915	N/A	On the List of String screen, if a value was blank for any List of the string, a fatal error was created when changes were applied. Now an error message "List of string value cannot be null" appears and changes are not allowed to be applied. This release fixes this issue.
PIM-1637	CA795389	Exports were not grouping products correctly. This release fixes this issue.

Known Issues

Known Issues with the createProduct Web Service

- If used in a CICO (Check-in/Check-Out or Versioned) environment, you **MUST** set the productVersion to "Work" and the productCompletionStateName to a Work completion state. Failure to do so may result in products with improper versions or completion states.
- If used in a CICO environment, take care to not specify a product that already exists in a Production state; createProduct will create a new Work product with the same product number and company. (If this occurs you must delete the newly created Work version before you can check out the existing Production version.)
- If used in a non-CICO environment, you **MUST** set the productVersion to "Production."
- You cannot use the Web Service to set a different value for an attribute that already has an initial value.
- You cannot use the Web Service to set the value for an attribute that applies to both templates and products.
- You cannot use the Web Service to set the value for an Identifying Attribute.

Other Known Issues

- Due to limitations in Excel, the PIM Excel Export format can only handle up to 65,535 products in a single node.
- Lookup tables - if you create a lookup table and populate it with data, and then later add columns to it, there may be problems trying to add data to the new columns. If this occurs, the workaround is to create a new table with all the desired columns.
- Lookup tables - the table name and column names may not be database reserved words. Also, the table name must begin with an alphabetic character, not a numeral.
- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to "object:./../". This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it; you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to reselect the target process before saving your changes.
- In Workflow Studio, policy parameters that take an Operand value must be filled in; these parameters cannot be left blank. If the value for the parameter should be blank, specify an operand, and leave that operand's value empty.
- In Workflow Studio, if Java 1.6.0_10 is used, the Process Map may not open full-sized.
- Unable to remove product associations with attribute values from the import manager's product edit user interface.
- Product association attribute names and pricing names are not supported by the import manager's "mapping" technology. Imported product association attribute names and price names must match the values in the PIM to avoid an error when importing data.
- Import manager date handling - date specifications in imported XML "roll." For example, a date of 1/32/2007 will not be flagged as an error but will be interpreted as 2/1/2007.
- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.
- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.
- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an "error" box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.2

Product Information Management Version: 7.2

Date: September 2010

QAD PIM 7.2 continues the evolution of QAD PIM by making data access even easier. Enhanced integration with Microsoft Excel now offers users many ways to manipulate their data with one of the tools they use the most. PIM 7.2 now also offers a host of other improvements, small and large, from ease of use features in parametric search to a new scheduled job to help find duplicate products in the database. Integration with the QAD ERP has been enhanced, allowing two way communication between the PIM and the ERP.

For instructions to upgrade from PIM 7.1.8 to PIM 7.2 see “Upgrade steps to QAD PIM 7.2 from 7.1.8” on page 9.

New Feature Summary

- Excel integration: create spreadsheets of products directly out of the PIM in native Excel format that contain all the constraints of the products you have in the database. Edit them, send them around the organization, and then import them right back into the PIM with the Import Manager. No need to convert the spreadsheet to any other format.
- Product Association Security: Association types can now be locked down to make it impossible for users to add attributes to any association type. This allows an organization to have an association like a bill of materials that can be changed by some users, but not by others.
- Parametric search: The attribute selection mechanism on search has been changed to make it easier to find the values for which you want to search. Start typing a value, and those which match will show up in the parametric search drop-down box.
- Duplicate product detection: A new Import Manager job has been added to help find products that are duplicates of each other, by part numbers. When many products are added to a system from different sources there is always a chance that duplicates may be included. This job will help locate duplicate or similar products, catalog them, and create associations amongst them (or to a master product).
- ERP support: the PIM now supports sending information out of the PIM and into the ERP so that changes made in the PIM in one of the native tools like search and replace or group edit, can be easily reflected into your ERP.
- Classifications on product detail: The product detail view now includes a new tab called Classifications that shows all the places where a product is classified. This is a simple way to maintain the catalog entries for a given product.

Bug Fixes

Component	QAD Issue	Customer Case	Description
Content Management	PIM-2550	Enhancement	Added security to control which users can edit which product associations definitions.
	PIM-2783	CA789367	You may now edit a List of Strings even though a batch using the attribute is in process in the Import Manager. (A warning will appear noting the batch in progress - you may choose to cancel, or continue with the change.)
	PIM-2698	Enhancement	New checkbox allows alphabetizing the attributes on a template. This establishes an ordering of the attributes alphabetically, in place of any existing ordering.

Component	QAD Issue	Customer Case	Description
	PIM-2688	Enhancement	The Products Found screen after search now offers an "unclassify" action. This action removes the product or set of products from any catalogs in which the product is manually classified.
	PIM-2538	Enhancement	The search screens now have a "Date Added" field to allow searching for products by the date when they were added to the system.
	PIM-2699	Enhancement	The users screen now has a "show disabled users" check box. When selected, any disabled users are displayed. The check box is not selected by default.
	PIM-2693		Values in the parametric search drop-downs now behave in a case-insensitive way. Companies also behave in the same fashion.
Import Manager	PIM-2488	Enhancement	All error information describing why a product ended up on the Severe Error queue is now included in exports of type text or PIM XML.
	PIM-2686	Enhancement	A new scheduled job has been added to run the catalog loader utility from the Import Manager. The job can be run at regular intervals, or by using the run now option. The job can be put in place by adding the following to the db.cfg file, to the jobClasses entry: com.fulltiltinc.ImportManager.jobs.CatalogLoaderJob
	PIM-2578	Enhancement	Added a new job to help find duplicate products in the database. The Duplicate Detection job will examine a catalog and compare it to another catalog in the system. When two products are found with similar part numbers, they can either be associated to one another or associated to a third, master product. To enable this job, add the following to the db.cfg, to the jobClasses entry: com.fulltiltinc.ImportManager.jobs.DuplicateJob
	PIM-2726	CA772238	Fixed a problem with list of strings items and case sensitivity during import. If an item was imported with a list of strings value that was valid in all aspects but case, the Import Manager was placing the value into the database with the case in the import file, not the case in the list of strings value definition.
	PIM-2722	CA707811	When the Import Manager was shut down, it would sometimes leave scheduled job records in a state in which their status would display as starting. This was confusing as the value was not properly updated when the Import Manager was restarted. This has been corrected.
	PIM-2774	Enhancement	The incoming XML can now specify a value and unit for an attribute in the same value field for an attribute. That is, both XML formats below are equivalent: <so_product_attribute value="10 feet" .../> <so_product_attribute value="10" unit_name="feet" .../>
Exports	PIM-2723	CA752062	Products counts for ACD style exports were sometimes incorrect. This has been resolved.
	PIM-2717	Enhancement	The PIM SOXML export now contains the product's unique key. On the <product> entry, the new value "key" will appear with the product key in place.
General	PIM-2789		Exposed new methods in the Java API to allow users to modify the output files from a custom export, and to get configuration information for the system related to the Import Manager's pre-import-root directory.
Workflow	WFL-257		Corrected workflow-install.xml to handle custom policy jar files properly.
	WFL-255, 256		Correct case-sensitivity and syntax error in the workflow-upgrade-ear.sh script used on UNIX platforms.

Known Issues

- Due to limitations in Excel, the PIM Excel Export format can only handle up to 65,535 products in a single node.
- Lookup tables - if you create a lookup table and populate it with data, and then later add columns to it, there may be problems trying to add data to the new columns. If this occurs, the workaround is to create a new table with all the desired columns.
- Lookup tables - the table name and column names may not be database reserved words. Also, the table name must begin with an alphabetic character, not a numeral.
- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to "object://./". This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
- In Workflow Studio, policy parameters that take an Operand values must be filled in; these parameters can not be left blank. If the value for the parameter should be blank, specify an operand, and leave that operand's value empty.
- In Workflow Studio, if Java 1.6.0_10 is used, the Process Map may not open full-sized.
- Unable to remove product associations with attribute values from the import manager's product edit user interface.
- Product association attribute names and pricing names are not supported by the import manager's mapping technology. Imported product association attribute names and price names must match the values in the PIM to avoid an error when importing data.
- Import manager date handling - date specifications in imported XML roll. For example, a date of 1/32/2007 will not be flagged as an error but will be interpreted as 2/1/2007.
- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.
- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.
- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking OK to acknowledge the error box will allow the user to continue.

Upgrade steps to QAD PIM 7.2 from 7.1.8

Preparation

- 1 Shut down the Import Manager process.
- 2 Shut down the PIM Servlet Engine application server.
- 3 If using Workflow, shutdown the Workflow application server if different from (2).
- 4 Back up PIM_HOME.
- 5 Back up the PIM database.
- 6 If using Workflow, back up the Workflow database.

- 7 Unzip the new PIM release_full.zip into a clean directory. This will be referred to as PIM_MEDIA below. Linux users: unzip the file spring-was.zip in the PIM_MEDIA\lib_thirdparty directory. This will overwrite the spring.jar and spring-webmvc.jar files with ones compatible with Linux operating systems.
- 8 If Custom jar files were created for your PIM instance, copy them from the latest 7.x custom release into PIM_MEDIA\lib. Oracle users: make sure jdbc.driver.dir in install.properties points to a directory that contains the ojdbc6.jar file (leave this option commented-out for SQL Server).
- 9 If you use Workflow notifications, copy the new LsBpmNotifications.jar, LsBpmCommon.jar, and jdom-b10.jar to PIM_MEDIA\lib.

Upgrade steps for PIM

- 1 Run upgrade.bat to lay down the latest iaccel.jar, ddl, and generate a new war file:
 - PIM_MEDIA\upgrade.bat Full_Path_To_install.properties
- 2 Run the 7.1 to 7.2 upgrade script for your database. Make sure you save the output to a file, and that there are no errors in the output.

SQL Server:

 - cd PIM_HOME\ddl\sqlserver\upgrade
 - PIM_HOME\scripts\sqlcmd -i -C -c @ v71tov72.sql > 71to72.out 2>&1

Oracle

 - cd PIM_HOME\ddl\oracle\upgrade
 - PIM_HOME\scripts\sqlcmd -i -C -c @ v71tov72.sql > 71to72.out 2>&1
- 3 Redeploy the war file, and if desired, deploy the Web Services war file:

Tomcat users:

 - Copy PIM_HOME\web\your_named_pps.war file and place it in the Tomcat_Home\webapps directory
 - If you are using web services, copy PIM_HOME\web\your_named_pps-ws.war file and place it in the Tomcat_Home\webapps directory
- 4 If you want to use the Duplicate Detection job, add this to your db.cfg jobClasses list:


```
com.fulltiltinc.ImportManager.jobs.DuplicateJob
```
- 5 If you want to use the Catalog Loader job, add this to your db.cfg jobClasses list:


```
com.fulltiltinc.ImportManager.jobs.CatalogLoaderJob
```
- 6 If you want to use the new Excel export format, add this to your db.cfg exportFormats list:


```
com.fulltiltinc.db.ProductExporterExcelFormat
```

Upgrade steps for Workflow:

- 1 Windows users: Copy the new workflow-install.xml file to your WORKFLOW_HOME\install directory. Linux users: Copy the new workflow-install.xml and workflow-upgrade-ear.sh files to your WORKFLOW_HOME\install directory.
- 2 Download the new LsBpmServer.ear file to the directory specified as workflow.ear.dir in your-workflow-install.properties file.

- 3 Set your workflow.old.ear.dir to point to the deploy directory of your current 7.1.x JBoss 4.2.2 installation.
- 4 Run the upgrade script to upgrade the EAR file:

```
workflow-upgrade-ear.bat your-workflow-install.properties
```
- 5 Deploy your LsBpmServer.ear file:

```
workflow-deploy-jboss.bat your-workflow-install.properties
```
- 6 If you need to deploy new custom jar files, copy them to your WORKFLOW_HOME\install directory. Set the ANT_HOME environment variable to point to the location of ant (typically in PIM_MEDIA\bin\ant), and run this command to upgrade the EAR file:
 - %ANT_HOME%\bin\ant update-custom-policies -f workflow-install.xml -propertyfile your-workflow-install.properties
- 7 Then re-deploy your LsBpmServer.ear file:

```
workflow-deploy-jboss.bat your-workflow-install.properties
```

Verification

- 1 Start the Import Manager.
- 2 Start the servlet engine (for example, Tomcat).
- 3 Bring up the Workflow engine if applicable (for example, JBoss).
- 4 Access the user interface and sign-on to PIM.
- 5 Bring up the about box, check the version version 7.2, build 2010.09.17.15.28.32.

Release Notes for PIM 7.1.8

Product Information Management Version: 7.1.8

Date: April 2010

Database Administration Best Practices for index and table fragmentation in Microsoft SQL Server databases

During the natural course of processing in the PIM database, data is inserted, updated or deleted by processes such as the Import Manager, group edit or search and replace. Large operations done repeatedly can cause the tables and indexes in a SQL Server database to become fragmented. Fragmentation results in longer processing times as the database engine needs to read in more pages to find the data it needs to resolve queries.

More information on the technical details of index fragmentation in SQL Server and the differences between reorganizing and rebuilding indexes can be found in the Microsoft article Reorganizing and Rebuilding Indexes [1], and other related articles on Microsoft's TechNet.

The database administrator should set up a scheduled run in order to reorganize or rebuild impacted indexes. Example (D) in the TechNet article sys.dm_db.index_physical_stats [2] gives an example of a job that may be set up to maintain indexes when their fragmentation becomes too high.

Simple index reorganization and rebuild scripts can be provided by Technical Support on request. These scripts can be used to reorganize or rebuild all the indexes in the PIM database, regardless of fragmentation levels.

The expected run time of the rebuild procedure is a function of the number of rows in the largest tables in the PIM database and the existing fragmentation level. The following table summarizes findings during testing internally at QAD.

Note that a specific site's performance will vary depending on the hardware on which the database is running, disk subsystem in use, current fragmentation level, and other usage of the machine. Although the number of products and attributes are noted in the table, other factors apply, such as the number of associations or rows in the audit tables. These can be used as a rough guide.

Data size	Initial Fragmentation	Rebuild time	Reorganize time
500,000 products; 15 million attributes	Low	14 minutes	17 minutes
200,000 products; 12.5 million attributes	High	1 hour 33 minutes	1 hours 56 minutes
3.5 million products; 100 million attributes	Moderate	1 hour 45 minutes	1 hour 33 minutes

The benefit of decreasing index fragmentation is directly proportional to the amount of fragmentation at the time of the first rebuild. It was observed during investigation of PIM-2644 that a single query that was running in seven minutes on a highly fragmented system was reduced to under 10 seconds after a full index rebuild. Not all queries will be as significantly impacted, but the benefits of index optimization can be significant.

References

- Reorganizing and Rebuilding Indexes, Microsoft (November 2008), extracted from <http://technet.microsoft.com/en-us/library/ms189858%28SQL.90%29.aspx>
- sys.dm_db_index_physical_stats, Microsoft (November 2008), extracted from <http://technet.microsoft.com/en-us/library/ms188917%28SQL.90%29.aspx>

Release Notes for PIM 7.1.7

Product Information Management Version: 7.1.7

Date: March 2010

Bug Fixes

Component	QAD (internal) bug	Customer Case	Description/fix
Import Manager	PIM-2665		In certain environments, batch imports in which the products had no attributes would take a long time to process. That has now been corrected.

Known Issues

- If you create a lookup table and populate it with data, and then later add columns to it, there may be problems trying to add data to the new columns. If this occurs, the workaround is to create a new table with all the desired columns.
- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to object:././.. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
- In Workflow Studio, policy parameters that take an Operand values must be filled in; these parameters can not be left blank. If the value for the parameter should be blank, specify an operand, and leave that operand's value empty.
- In Workflow Studio, if Java 1.6.0_10 is used, the Process Map may not open full-sized.
- Lookup tables - The table name and column names may not be database reserved words. Also, the table name must begin with an alphabetic character, not a numeral.
- Unable to remove product associations with attribute values from the import manager's product edit user interface.
- Product association attribute names and pricing names are not supported by the import manager's mapping technology. Imported product association attribute names and price names must match the values in the PIM to avoid a severe error when importing data.
- Import manager date handling - date specifications in imported XML roll. For example, a date of 1/32/2007 will not be flagged as an error but will be interpreted as 2/1/2007.
- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.
- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.
- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.1.6

Product Information Management Version: 7.1.6

Date: February 2010

Bug Fixes

Component	QAD (internal) bug	Customer Case	Description/fix
Import Manager	PIM-2661	CA765455	If product descriptions were left out of an import file, the first (guide) product in a like group of products, would have its description removed from the database.
	PIM-2654	CA757060	Discard of several, large batches will now complete without running out of Java memory.
	PIM-2641	CA750618	Exports from Import Manager queues of a large number of products will now complete without running out of Java memory.
Export Manager	PIM-2657		Exports will now succeed if the hyper-threaded option is deselected
	PIM-2649	CA753198	For several custom export formats, an export definition can now be saved without exclude automatic associations being automatically checked. Additionally, when that export definition is run as a scheduled export, the database value for automatic product associations is now honored by the export.
UI	PIM-2656	CA759756	A global derived string attribute whose values are based on 2 or more global string attributes will now display its value initially without having to navigate to another product detail tab and then return.
	PIM-2650	CA753947	In product versioning environments, check-out will now complete without an out-of-memory error.

Known Issues

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- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to object:./../. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
- In Workflow Studio, policy parameters that take an Operand values must be filled in; these parameters can not be left blank. If the value for the parameter should be blank, specify an operand, and leave that operand's value empty.
- In Workflow Studio, if Java 1.6.0_10 is used, the Process Map may not open full-sized.
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- Import manager date handling - date specifications in imported XML roll. For example, a date of 1/32/2007 will not be flagged as an error but will be interpreted as 2/1/2007.
- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.
- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.
- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.1.5

Product Information Management Version: 7.1.5

Date: October 19, 2010

Bug Fixes

Component	QAD (internal) bug	Customer Case	Description/fix
Import Manager	PIM-2639	CA748891	If a product association has been imported with the association attribute names in one case (e.g., all upper-case, or first-letter-upper case), and then is re-imported with the association attribute names the same except for case (e.g. all lower-case), the Import Manger will correctly identify these as the same association attribute and the update to the product association attribute values will be processed correctly.
	PIM-2640	CA748743	Import of a large batch will now complete without running out of Java memory.
DB API	PIM-2605	CA747955	If products are moved from one template to another, then moved back, and the data types of some attributes are not the same but are compatible (e.g., List of Strings being mapped to String), the move will now be successful.
UI	PIM-2541	CA723054	When performing a Group Edit on a large number of products to Revert to Parent value the value of an inherited attribute, the change will now apply to the entire set of selected products (previously it was applying only to the items displayed on the current page). Also, Revert to Parent will now be successful when used on multi-valued inherited attributes. (Note that if *any* of a product's values for that attribute matches the user-selected From value in the Group Edit screen, all of that product's values for the attribute are reverted to the parent's.)
	PIM-2642	CA750083	The performance of check-in of products in a Check-in/Check-out (CICO)environment has been improved.

Known Issues

- If you create a lookup table and populate it with data, and then later add columns to it, there may be problems trying to add data to the new columns. If this occurs, the workaround it to create a new table with all the desired columns.
- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to object:./../. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
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- Lookup tables - The table name and column names may not be database reserved words. Also, the table name must begin with an alphabetic character, not a numeral.

- Unable to remove product associations with attribute values from the import manager's product edit user interface.
- Product association attribute names and pricing names are not supported by the import manager's mapping technology. Imported product association attribute names and price names must match the values in the PIM to avoid a severe error when importing data.
- Import manager date handling - date specifications in imported XML roll. For example, a date of 1/32/2007 will not be flagged as an error but will be interpreted as 2/1/2007.
- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.
- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.
- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.1.4

Product Information Management Version: 7.1.4

Date: October 2009

Bug Fixes

Component	QAD (internal) bug	Customer Case	Description/fix
Import Manager	PIM-2633		In certain cases, if an inherited non-veritable attribute was included in a product batch with a value of or with delete=y, the attribute value would be nulled out. This has been corrected. Also, in some cases when Updates are Definitive was checked, inheritable attributes would be nulled out. This too has been fixed.
Exports	PIM-2630	CA743239	Export of a large, broad hierarchy (such as UNSPSC) now completes in a short amount of time and without running out of memory.
UI, XML Template Loader	PIM-2631	CA743239	Assigning a value to an inherited attribute at the top of a large hierarchy now updates all applicable children (templates and/or products) much more quickly.

Known Issues

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- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to object:./../. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
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- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.1.3

Product Information Management Version: 7.1.3

Date: July 2009

Bug Fixes

Component	QAD (internal) bug	Customer Case	Description/fix
Exports	PIM-2627		Export of template hierarchy would slowly leak memory. This would cause an export of a large hierarchy, like UNSPSC, to run out of memory. This has been fixed.

Known Issues

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- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to object:././.. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
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Release Notes for PIM 7.1.2

Product Information Management Version: 7.1.2

Date: July 2009

Bug Fixes

Component	QAD (internal) bug	Customer Case	Description/fix
Exports	PIM-2619	CA737853, CA738834	Exports of templates, or failure to update a global attribute, will no longer fail if the Substitute product association type has an attribute.
	PIM-2620	CA738746, CA737853	Export performance has been enhanced. Exports will now run faster and use less memory. Note that some tuning of database connection parameters in the db.cfg file is required in addition to the new PIM software. Please refer to the Upgrade Instructions for more detail, or ask your QAD PIM support representative.

Known Issues

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Release Notes for PIM 7.1.1

Product Information Management Version: 7.1.1

Date: June 2009

Enhancements

Export Enhancements

- If products fall into the Severe Error queue during import, the error text can now be included in both the standard SOXML and TSV exports (PIM-2488)
- The standard SOXML and TSV exports can now optionally include the PIM key (the product's External ID) (PIM-2498)

Product Association Tab

- The Product Association tab in Product Detail will now display in the drop-down selector only those Product Association Types for which actual associations exist for the product. If this product has an associated product of a certain Product Association Type, that type name will appear in the list, in black. If the product is an associated product of another product (i.e., is a child, the other product is the parent), the type name will appear in the list, but in grey. Adding a new product association will of course still display the full list of Product Association Types (PIM-2517).

New LDAP Authentication Configuration Options

Two new `iaccel.cfg` options have been added to accommodate LDAP systems which do not support referrals, such as Active Directory (PIM-2593, CA733386).

- `auth.ldap.referral` - valid values are `ignore` (default; means ignore any referrals); `follow` (follow referrals); `throw` (throw an exception if you receive a referral)
- `auth.ldap.ignorePartialResultException` - valid values are `true` or `false`. Some LDAP servers (such as Active Directory) are unable to handle referrals automatically, which causes an Exception to be thrown whenever a referral is encountered in a search. To avoid this, set this property to `true`

Import Manager New Batch Options

The Import Manager New Batch Advanced Options tab now allows the user to set the new import options that were added to the Import Manager in 7.1 (but were only able to be set in a `supplier_batch_header` in that release) (PIM-2346).

- a checkbox for batch commit immediate - defaults to false
- a checkbox for move duplicates to error - defaults to true
- the automatically catalog products checkbox has been changed to a drop-down list from which the user can choose to not catalog, to use an autogenerated name for the catalog, or to choose to use an existing catalog
- automatic notifications can be sent to a specific user - the drop-down list will display all users in the system with an email address

Compare Versions/Compare Products changes

- The Compare Versions screen will now highlight in red only differences between columns, rather than making an entire row red whenever there is a difference between any two versions (PIM-2527).
- The Compare Versions screen will now properly render archived HTML attribute values (PIM-1820, PIM-2601).
- The Compare Versions screen will now respect the Attribute Group(s) assigned to a catalog and not show attributes not in the catalog's group (PIM-2601).
- Both the Compare Versions and Compare Products screens now left-align data for better presentation of attributes that contain large amounts of data or HTML data. (PIM-2588).

ERP Template Changes

The erp-template.xml file has been updated to set appropriate constraints to match the pt_mstr table in ERP, such as maximum string lengths or maximum number of decimal places allowed in number (PIM-2592).

Bug Fixes

Component	QAD (internal) bug	Customer Case	Description/fix
UI	PIM-1868		When choosing a product to add as an associated product in the UI, if browsing in a very large catalog, the pagination of the screen would not work properly. This has been fixed.
	PIM-2310		The caption of a URL can now be modified in a Template (or Template Group) attribute tab, and in product detail, without having to change the URL value itself also
	PIM-2514		Unchecking show group attributes and then editing an attribute definition will no longer remove all groups from the assigned attribute groups for the attribute definition.
	PIM-2570		The left-hand pane of the Template tree will now refresh if the template's automatic product description is changed.
	PIM-2587		When using Group Edit to add a URL value with caption information to products that did not have a value for the URL attribute previously, the caption is now saved properly.
	PIM-2590		Printing product information to a PDF file will now properly format HTML String attributes
	PIM-2591		When moving a product between templates, constraints on attributes in the target template were being ignored if the attributes were defined above the template level. This has been corrected to take into account all attributes in the hierarchy of the target template.
	PIM-2596		When viewing the hierarchy for an inherited template attribute that is defined as HTML, the HTML will now be properly rendered.
	PIM-2600		If you try to discard unnecessary attributes from the source template when moving a product, you will no longer receive a database error.
	PIM-2594		Fixed the printing of special character codes in HTML attributes, both in Compare Products and in Printing to PDF.
Import Manager	PIM-2548		The Import Manager will now apply the standard unit to an incoming numeric-with-unit attribute value that does specify a unit. The Map Attributes screen will no longer require that incoming numeric values without a unit be modified to include a unit.

Component	QAD (internal) bug	Customer Case	Description/fix
	PIM-2598		The Import Manager will now correctly format the error message when an incoming product fails to meet the constraints of a numeric attribute that has a maximum value criteria but no minimum criteria.
Exports	PIM-2586		SOXML exports where the include content from external URL product attributes option is checked were failing when the URL pointed to a PDF. This has been corrected. Also, the URL attribute's value in the export is now set to a valid URL (e.g., file:///12345.pdf), rather than just the file name.)
	PIM-2612	CA737853	The TSV export will not escape (with a backslash) a semicolon in non-multivalued attribute values.
XML Template Loader	PIM-2568, PIM-2569		The XML template loader will now properly handle initial values for URL and Date/Time attribute types
Web Services	PIM-2530		The web service request GetProductsForTemplate will now function properly when the web services are deployed in JBoss.
Oracle databases	PIM-2551		In Oracle databases only, temporary tables generated by the Import task were not always being cleaned up. This has been corrected.
	PIM-2575		In Oracle databases only, import speed had degraded with patch release 7.0.5; this has been corrected.
	PIM-2576		In Oracle databases only, with Identifying Attributes in use and the batch is definitive flag set, the Import task would sometimes send products to the Map Attributes queue when there was nothing that required mapping. This has been corrected.
Workflow	WFL-241		If the Continuous Activities option was enabled, after starting a new workflow, the user would be placed immediately in the first Activity - which probably wasn't from the just-started workflow, as that may not have had time to progress to the first activity that required user intervention. Now, the user will be switched from the Start Workflow screen to the main Activity list.

Release Notes for PIM 7.0.6

Product Information Management Version: 7.0.6

Date: June 2009

Bug Fixes and Minor Enhancements

New LDAP Authentication Configuration Options

Two new `iaccel.cfg` options have been added to accommodate LDAP systems which do not support referrals, such as Active Directory (PIM-2593, CA733386)

- `auth.ldap.referral` - valid values are `ignore` (default; means ignore any referrals); `follow` (follow referrals); `throw` (throw an exception if you receive a referral).
- `auth.ldap.ignorePartialResultException` - valid values are `true` or `false`. Some LDAP servers (such as Active Directory) are unable to handle referrals automatically, which causes an Exception to be thrown whenever a referral is encountered in a search. To avoid this, set this property to `true`.

Known Issues

- If you create a lookup table and populate it with data, and then later add columns to it, there may be problems trying to add data to the new columns. If this occurs, the workaround is to create a new table with all the desired columns.
- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to `object:././.`. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the `AddStatusToProcess` policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
- In Workflow Studio, policy parameters that take an Operand values must be filled in; these parameters can not be left blank. If the value for the parameter should be blank, specify an operand, and leave that operand's value empty.
- In Workflow Studio, if Java 1.6.0_10 is used, the Process Map may not open full-sized.
- Lookup tables - The table name and column names may not be database reserved words. Also, the table name must begin with an alphabetic character, not a numeral.
- Unable to remove product associations with attribute values from the import manager's product edit user interface.
- Product association attribute names and pricing names are not supported by the import manager's mapping technology. Imported product association attribute names and price names must match the values in the PIM to avoid a severe error when importing data.
- HTML text content is displayed as raw HTML when the print function is invoked.
- Import manager date handling - date specifications in imported XML roll. E.g., a date of `1/32/2007` will not be flagged as an error but will be interpreted as `2/1/2007`.
- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.

- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.
- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.0.5

Product Information Management Version: 7.0.5

Date: May 2009

Bug Fixes and Minor Enhancements

Component	QAD (internal) bug	Customer Case	Description/fix
Import Manager	PIM-2533	CA721586	Greatly improved performance when importing products into template groups that have inherited attributes with initial values
Authentication	PIM-2532	CA721561	When using Active Directory (via LDAP) as the authentication source, Workflow will now be able to find all users with a specific role, and the SendNotificationByRole policy should function properly.
UI	PIM-2557	CA724724	When a Product Description Pattern exists on a Template and a product in that template also has a Short Description, users without ChangeBaseProductData privilege will no longer receive an error when leaving the product's General tab. Also, the Short Description value will no longer be deleted when a user with ChangeBaseProductData privilege changes any other information on that tab.
Workflow	WFL-225	CA713686	The Last Modified date displayed on the Workflow Definition screen will now correctly show when the definition was last uploaded. The Modified By value will also be updated correctly.

Known Issues

- If you create a lookup table and populate it with data, and then later add columns to it, there may be problems trying to add data to the new columns. If this occurs, the workaround is to create a new table with all the desired columns.
- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to object:./././.. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
- In Workflow Studio, policy parameters that take an Operand values must be filled in; these parameters can not be left blank. If the value for the parameter should be blank, specify an operand, and leave that operand's value empty.
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- HTML text content is displayed as raw HTML when the print function is invoked.

- Import manager date handling - date specifications in imported XML roll. For example, a date of 1/32/2007 will not be flagged as an error but will be interpreted as 2/1/2007.
- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.
- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.
- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.0.4

Product Information Management Version: 7.0.4

Date: March 2009

Bug Fixes and Minor Enhancements

Component	QAD (internal) bug	Customer Case	Description/fix
UI	PIM-2357	CA711173	Group Editing to apply a value to an Identifying Attribute will now properly update the Product Number for all edited products to append the new identifying information.
DBAPI	PIM-2451		Inherited URL attribute values for products will now store correctly in the database. This corrects the problems described in the Technical Bulletin titled Inherited URL Attributes in PIM 7.0.3

Known Issues

- If you create a lookup table and populate it with data, and then later add columns to it, there may be problems trying to add data to the new columns. If this occurs, the workaround is to create a new table with all the desired columns.
- In Workflow Studio, operands that reference the sub-process of another activity will be displayed after saving with the initial part of the target process's path changed to object://../. This should not affect the operation of the policy; however, if you change the name of the activity, the change will not be automatically reflected in any policy that references it - you will have to manually change any references to the activity in any policies that reference the activity as a sub-process. Also, when the AddStatusToProcess policy is used to target a sub-process of another activity, once saved, the policy will display an error message when you try to edit it saying that one or more parameters are invalid. The workaround is to re-select the target process prior to saving our changes.
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- Job scheduler - leaving your session on this screen can consume memory over time. Avoid monitoring scheduled jobs for long periods of time.
- Product manager does not support delete of a company if the company has been used as the data supplier on an import batch.

- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.0.3

Product Information Management Version: 7.0.3

Date: January 2009

Bug Fixes and Minor Enhancements

Component	QAD (internal) bug	Customer Case	Description/fix
UI	PIM-2385	CA713983	There should be improved performance when navigating the template hierarchy in the UI as unnecessary calls to count the number of products in groups and templates have been removed.
UI	PIM-2254		When editing a template or group in the template hierarchy, saving changes will no longer cause the left pane to re-draw (which then caused the right pane to re-draw also). Now the left pane will only re-draw if the template name has changed.
UI	PIM-2219	CA713784	List of Strings attributes should now show the complete list of values.
UI	PIM-2346		The 7.0 PIM can now be installed in Websphere 6.1.

Known issues

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Release Notes for PIM 7.0.2

Product Information Management Version: 7.0.2

Date: January 2009

Bug Fixes and Minor Enhancements

Component	QAD (internal) bug	Customer Case	Description/fix
DBAPI	PIM-2363	CA711742	The Workflow Policies GetLookupTableValue and GetLookupTableDelimitedValues now work properly.
DBAPI	PIM-2361		The DBAPI saveProductError(product, msg) in ProductExporter is now published in the user Javadoc
Upgrade Script	PIM-2359	CA712050	The 6.3.x-to-7.0.1 SQL Server upgrade script failed to create a row in the IAccelOID table, resulting in the inability to create an attribute value for a template attribute. This has been fixed.
Javadoc	PIM-2358		The user API javadoc no longer exposes unpublished APIs through the INDEX link
Installation	PIM-1983		Fixed the install.sh script to fix a problem in some Unix environments where the attempt to re-create the directory was failing when install.sh was re-run.
UI	PIM-1925	CA713203	The action drop-down in Lookup tables should be immediately visible; you should no longer have to resize the screen to see the drop-down menu.
Installation	PIM-1428		The sample.properties file now contains options for setting the log file size and number of files to maintain.
Workflow Portal	WFL-224		The Workflow Definitions screen should no longer show duplicate entries on extraneous extra pages
Workflow Policies	WFL-223		The policy RunExportForCatalog now allows the Catalog operand to be null or blank
Workflow Policies	WFL-56		The StartProcessWithLabel policy can now be used in a sub-process without having to make local copies of Process Invoker and Process Title.

Known issues

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- Product manager - switching catalogs without entering search criteria from the add new product association full text search screen will bring up an error box asking for the search criteria. Clicking on OK to acknowledge the error box will allow the user to continue.

Release Notes for PIM 7.0

Product Information Management Version: 7.0

Date: February 2009

Major enhancements

Inheritance

- Attribute definitions throughout the template hierarchy
 - Global
 - Template group
 - Template
- Template and template group attribute values
 - Template (group) values can apply to child:
 - Templates
 - Products

Attribution enhancements

- Multi-valued attributes on products and product associations
- Expanded datatype support
 - Boolean
 - Date
 - Date/Time
 - Date Range

Process improvements

- Search improvements - parametric and text search discrete settings
- Product count jobs have been engineered out of the system. They are no longer required to maintain counts.
- Multi-threaded export to improve throughput of a single exports
- Workflow improvements throughout the user interface
- Web service support for Product Retrieval

Bug fixes and minor enhancements

Product	Issue Type	Component	QAD (internal) bug	Customer Case	Description/fix
PIM	Enhancement	API	PIM-1817	4235, 4530	Add support for Date & Date Time product attribute types.
	Enhancement	UI	PIM-1683	4775, 4916	Alphabetize the user list in the Users Screen.
	Enhancement	UI - Export	PIM-1872	4794	SOXML Export - add the option NONE to Product Associations selection.
	Defect	API	PIM-1885	4793	The product XXX has been modified and saved by another user error message would occur erroneously when a single user was operating on a product and its associations from workflow.

Product	Issue Type	Component	QAD (internal) bug	Customer Case	Description/fix
	Defect	API	PIM-1909	CA674114	Parametric search's retrieve all Attribute values can run for a long time. This is driven by the number of distinct values in the returned list. Prior to 7.0, each attribute definition could be marked searchable or not, which would apply to both text and parametric search alike. In 7.0, text and parametric search can be controlled independently - eliminating the need to include long lists in parametric search.
	Defect	API	PIM-1831	4807, 4869	ConcurrentModificationException thrown repeatedly and erroneously from the servlets.
	Defect	Documentation	PIM-1800	4710	Scheduled Job help is incorrect.
	Defect	Import Manager	PIM-1678	4538	When using the spreadsheet mapper, the batch load fails with status of NULL when a column defined as numeric attribute and unit contains an invalid value such as 10FT.
	Defect	Import Manager	PIM-2064	5039	Update Product Count Job is Failing - Transaction Log out of Disk Space. Product count jobs have been eliminated.
	Defect	Job Manager	PIM-1908		Update Product Count job failing due to missing Catalog node. Product count jobs have been eliminated.
	Defect	Job Manager	PIM-2171	CA675334	Scaling issues for large number of events and notifications. The event manager, now processes events in groups of 100 events.
	Defect	UCCnet	PIM-1691	4653	ISync Export fails with could not be bound error message.
	Defect	UCCnet	PIM-2119		Corrected an error in the mapping of manufacturer name in the Freemarker template.
	Defect	UI - Import	PIM-1778	4932	Error when selecting over 999 records in Found screens.
	Defect	UI - Import	PIM-2037	5017, 5110	Unable to Export Products from Import Manager Queues when Category is missing.
	Defect	UI - Import	PIM-2053		Can't view product records in custom import queue.
	Defect	UI - Product	PIM-1811	4713	Unable to add numeric attribute with scaling from product detail screen. The ability to create template attribute definitions directly from product detail has been removed.
	Defect	UI - Product	PIM-2041	5034	HTTP 500 Error when unchecking Use attribute for Automatic Product Cross Referencing box. This error would occur if the user attempted to modify the cross referencing choice with a global attribute definition. This is not supported - the ability to select a global attribute has been removed.
	Defect	UI - Product	PIM-2046	4672	Unable to make a Template Attribute required when all products have a value.

Product	Issue Type	Component	QAD (internal) bug	Customer Case	Description/fix
Workflow	Enhancement	Portal	WFL-140	4669, DPRD-7LRPF5	Description instead of part number placed in field when operand is defined as a product. A new property was added to Portal.properties to permit the configuration to support product selection to display either 1) Concatenated company + part number; 2) Description; 3) Part number.
	Defect	Engine	WFL-114	4740	Activities not appearing for user - null pointer exception in createTitleMap.
	Defect	Engine	WFL-128	4691	Workflow leaving open / abandoned Database connections - Added min-pool-size and max-pool-size properties.
	Defect	Engine	WFL-180		BaseWorkflowSetStatusNotification can fail with error null.
	Defect	Engine	WFL-200	4720	Failed notifications while trying to dispatch exception to move Workflows.
	Defect	Installation	WFL-168	5023	Workflow can't update PIM attribute value if there is a template validation script.
	Defect	Portal	WFL-139	4705	Sort order of Workflow Activities should maintain state instead of returning to the default.
	Defect	Portal	WFL-143	4786	Populating the sub-class picklist stops workflow Oracle 10G. Errors would occur when the size of operands were too large for the database tables. This has been corrected.
	Defect	Studio	WFL-10	4264, CA668655	Can not save workflow to server: hibernate error. Errors would occur when the collective size of operands were too large for the database tables. This has been corrected.

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