



Agile Product Lifecycle Management

Product Interchange User Guide

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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

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Using Product Interchange

This chapter includes the following:

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Functional Overview

The Agile Product Interchange solution enables users to identify any structural or parts related issues in BOMs/AMLs and resolve these issues in a systematic fashion.

The Product Translation function performs automated conversion of a wide range of text-based BOM/AML formats into user-defined format. The supported input formats include:

- MS-Excel, MS-Word, Text, HTML, PDX formats.
- Single/Multiple Levels, Single/Multiple Files.
- Delimited/fixed width formats, Complex rows/columns, Multi-line fields, Wrap-around fields.

It also performs comprehensive 'rules-driven' validation of the BOM/AML structure and provides an interactive framework for correcting errors.

The Product Cleansing function performs manufacturer name aliasing by converting manufacturer name variants into standard 'corporate' manufacturer names. It also performs part number aliasing by mapping 'dirty' incoming part numbers (manufacturer or internal) to part numbers previously 'cleaned' in the organization. Over a period of time this knowledge base of manufacturer name aliases and part number aliases leads to more accurate parts information through out the PLM processes.

The Product Validation function enables users to confirm the accuracy of part information by matching against reference databases or parts catalogs. This also enables users to find alternate replacement parts where issues are detected.

The Product Enrichment function provides a framework for adding a breadth of attributes to the individual part / item records to make the product information more complete and usable throughout the product lifecycle. The additional product attributes can be sourced from one or more reference sources.

Product Interchange Process

The broad capabilities offered by Agile Product Interchange for processing BOMs and AMLs can be executed by following a standard series of steps outlined in the following sections. Based on the business use cases, some of these steps may be skipped altogether or performed multiple times to achieve the desired goals.

The standard steps are as follows:

Submitting Input Files

Select the files to be processed and submit them into Agile Product Interchange.

Performing Bulk Edits

Once the files are submitted, the format translation is performed automatically and you are presented with a screen to edit specific fields in the input file as necessary.

Performing Structural Validation

Select from a pre-defined set of rules that can be used to validate the structure and the integrity of the input file. Once the validation has been performed, you are presented with a screen to interactively correct any errors found during the validation process.

Performing Part Search

Part number specific errors can be corrected by performing an online search for part numbers in one or more reference data sources connected to Agile Product Interchange

Resolving Manufacturer Names

Manufacturer name variants that are found in the input file are automatically aliased to standard manufacturer names. When entirely new variants are detected, you are provided an interface to create new aliases for automated re-use in the future.

Selecting Part Number Aliases

All the part number aliases that are currently available in the Agile Product Interchange knowledge base are displayed. You have the option to select specific aliases to be included in the file being processed.

Performing AML Adds/Deletes

After Manufacturer Name and Part Number aliasing has been completed, you are given the option to add or delete entries to the AML being processed. This can be done by either manually entering new part records from the user interface or by part number matching against reference ERP/PDM systems connected into Agile Product Interchange.

Validating Manufacturer Parts

All the part numbers in the file are validated in bulk against a reference source like a parts catalog.

Finding Alternate Parts

You can also search for alternate parts to replace parts with issues or to add new sources of equivalent parts.

Assigning Commodity Codes

Once all the parts information has been cleaned and validated, you can assign Commodity Codes to individual parts or part groups.

Exporting Processed Files

The processed file can be exported to Agile Product Collaboration along with the automated creation of relevant change order (ECO/MCO). The processed file can also be exported as PDX Packages or in MS-Excel format to allow easy import into downstream systems.

Starting Agile Product Interchange

To start Agile Product Interchange:

1. Start your browser.
2. Click the Agile Product Interchange bookmark, if one exists, or type the URL of the server where Agile Product Interchange is installed.
3. Enter your username. Your username is case-sensitive.
4. Enter your password. Your password is case-sensitive.

You can change your password at any time by clicking the Profile link after you have logged into Agile Product Interchange. If you forget your password, click Forgot your password? link and enter your user name and email address. Your password will be emailed to you.

5. Click Login.

If you make a mistake, click Clear and retype your username and password. The login process is complete.

Once you log in to Agile Product Interchange, you will be presented with a user interface, which organizes application functionality across several tabs. Based on the privileges that have been configured by the administrator you will see 2 or more tabs.

They are:

- Dashboard Tab - This is the default tab that you see upon login. It displays all current projects undergoing validation and allows you to start working on any existing project.
- Component Management Tab - Allows you to create new validation projects or search the database for a specific project.

Creating a Validation Project

To create a validation project:

1. From the Component Management tab, click on the Create link.

2. Select a Use Case from the drop-down list.
3. Enter the Program (Customer) name associated with the validation project.
4. Add any Internal Notes associated with the validation project.
5. Browse for and select the BOM/AML files requiring validation.
6. In many cases, only one file will be required, containing both BOM and AML data. Only in cases where there are separate files for BOM and AML data would both selections be completed.
7. To initiate the parsing process, click Next.
8. If there is an error found in the fields, click Clear to empty the fields and start over.
9. If necessary, click Dashboard more than once to see your new project. This is necessary only if it is a mid to large-size project.

Once you have created a validation project, you will see a summary of the project.

Using Dashboards

Agile Product Interchange provides the ability to utilize a dashboard for the management of validation projects. These projects are retained in Product Interchange until removed by the System Administrator. The advantage of the dashboard is the ability to initiate a validation project and save that project in order to return to it at a later time. This is especially valuable for extremely large projects requiring a good deal of time in the validation process.

Dashboard						
Todo List:						
Results 1 - 4 of 4						
<input type="checkbox"/> Select	Validation Project Id	Use Case	Program (Customer)	BOM File	Create Date <input type="checkbox"/>	Waiting for...
<input type="checkbox"/>	PRJ-1006	New Business Existing Customer	Doc Program	50mpns_with_ipn.txt	October 12, 2005	Resubmit package
<input type="checkbox"/>	PRJ-1005	New Business New Customer	Characters Test	Character_TEST.xls	October 11, 2005	Validation
<input type="checkbox"/>	PRJ-1004	New Business New Customer	HITACHI	10mpns_with_ipn.xls	October 07, 2005	Validation
<input type="checkbox"/>	PRJ-1003	New Business New Customer	525	PI_TEST_BOM.xls	October 03, 2005	Validation
<input type="button" value="Delete Checked"/>						

Product Interchange displays the Dashboard by default. The projects are listed in a table in the Dashboard. Select a project by selecting the check box next to the project.

Note Once the files have been submitted, relevant Parser Profiles will be invoked to perform translation of input file format to the standard format defined during deployment. If the appropriate Parser Profiles are not found, you will be notified that a new Parser Profile should be created. Please refer to Administrators Guide for creating new Parser Profiles.

Viewing a Validation Project

To view a validation project:

Click on any link in the Project Status Column. The project header is displayed with key information about the project. The screen also provides a brief history of actions that have been completed for

the project.

The view screen also serves as the launching pad for various cleansing and validation activities for the selected project. These include:

Bulk Edits - To view imported file and perform edit operations.

MFR Alias - To create aliases to clean manufacturer names.

MPN Alias - To select from known good aliases for manufacturer part numbers.

MPN Search - To search for manufacturer part numbers in external sources / catalogs.

Commodity Code - To assign commodity codes for part numbers in the project.

The general recommended process flow for most validation projects are as follows:

Bulk Edits --> MFR Alias --> MPN Alias --> MPN Search --> Commodity Codes --> Export.

However, you can choose to perform selected validation steps based on validation needs of a specific project. At any stage in the validation process, you can click on the Dashboard tab to return to the dashboard and start a different project or choose a different validation step.

To delete a project from the Dashboard:

1. Select the check box of the project you want to delete. To delete all projects in the Dashboard, select the check box above the Select title.
2. Click Delete Checked.
3. Click OK to delete the selected projects.

Project Status

Based upon the workflow process, the dashboard will display the next working status for the project in the Project Status column.

The statuses include the following:

- TLA Information - This status indicates that the BOM/AML require, based upon the parser profile, the addition of a top-level assembly (TLA) identifier.
- Validation - This status indicates that the BOM/AML has parsed correctly and is now ready to have additional validation steps performed.
- Review Cleansed BOM - This status indicates that the BOM/AML has been validated (and possibly exported), but is still available for additional validation processing.
- Create Parser Profile - This status indicates that there was an error in the parsing of the BOM/AML and that the import should be attempted again.
- Resubmit Package - This status indicates a problem with parsing the incoming BOM/AML data.

Performing Bulk Edits

The Bulk Edit enables users to make global changes across the entire file or to make changes to selected items and fields.

To perform bulk edits:

In the Dashboard tab, click on the Validation link of the project you want to edit.

1. Click Function to select the edit function to be used. The drop-down menu lists the available edit functions.
 - Trim - Allows you to trim “n” number of characters from the beginning or end of any column value and set the number of characters in a textbox.
 - Prefix - Allows you to add user-defined string in front of the value in the selected field.
 - Suffix - Allows you to add user-defined string at the end of the value in selected field.
 - Constant - Allows you to replace data in the selected field with an user-defined value.
 - Replace - Allows you to replace data in rows identified by a specified matching criteria.
2. Click Field Name to select the field to be modified.

The drop-down menu lists all the fields that can be modified. The fields displayed in this list will vary depending on the configuration. The standard fields include:

- Level - The assembly level of the item on the BOM.
 - Customer PN - The part number.
 - Customer Part Description - The description of the item.
 - Rev - The revision number of the item.
 - UOM - The unit of measure for the listed quantity.
 - Quantity - The quantity of the item used in the assembly or subassembly.
 - RefDes - The reference designators.
 - Find Num - The internal number used to locate the item on an Agile BOM.
 - BOM Notes - Records notes about the item.
 - Customer MFR - The manufacturer of the item.
 - Customer MPN - The manufacturer part number.
 - MPN Status - The part availability status, if listed in the AML.
 - MFR Remarks - Manufacturer-related comments.
3. Enter a value to be used for bulk edit.
 4. Select the rows that need to be modified using the check box.
 5. Click Change to edit.

Review changes on the screen.
 6. Click Save to save changes.

These steps can be repeated as often as necessary to complete all the required edits.

Performing Conditional Replace Bulk Edits

To perform Conditional Replace bulk edits:

1. In the Dashboard, click on the Validation link of the project you want to edit.

2. Click Function to select the Replace function.
3. Click Field Name to select the field to be modified.
4. Enter a value to be used for bulk edit and define the condition to be used for selecting the rows to be modified.
5. Click the If button to select the field containing the match pattern and enter the value of the match pattern in Contains the Value/Pattern field.
6. Click Change to edit.
Review changes on the screen.
7. Click Save to save changes.
8. Click Next to proceed to the next step.

These steps can be repeated as often as necessary to complete all the required edits.

Adding and Deleting MPN(s)

To delete one or more MPNs from the project:

1. Select the check box of the MPN(s) to be deleted. You can select one or more MPN(s).
2. Click Delete MPN.

The selected MPN(s) will be deleted.

To Add MPNs to existing items in the validation project:

1. Click on the Add MPN link next to the item number.
2. In the dialog that opens, enter manufacturer and manufacturer part number information of the MPN(s) to be added.
3. Click Add to create the MPN record.

The MPN gets added to the table successfully.

Caution You cannot undo the delete action. Once you hit the Delete MPN button, the selected MPNs are deleted from the system.

Comparing AMLs

Agile Product Interchange provides the capability to compare the AML for items in the validation project against the AML for the same items in a reference system (typically Agile Product Collaboration or customer's ERP system). This is especially useful for use cases where a new quote or a new version of the same product needs to be processed. The capability allows you to identify new or missing AML entries for an existing item, based on comparison with the reference system. You can then decide to add / remove AML entries to the validation project as needed.

To perform AML Adds/Deletes:

Click Compare AML to start the search in reference system (ERP/PDM). This brings up the Compare AML screen.

- If no matches are found for the Item numbers in the reference system, then the Compare AML screen will show no results.
- If matches are found for the Item numbers, then the Compare AML screen shows the Item Number column followed by two columns for MPN & MFR from the validation project.

The next two columns display MPN & MFR (AML entries) for the same Item number from the reference system. This allows side-by-side comparison of the two AMLs.

To add new parts from the reference source to the file being processed:

- Select the check box in the Add column.
- Click Save.

To delete AML entries from the file being processed:

- Select the check box in the Delete column.
- Click Save.

To export the results of AML comparison:

- Use the check box in the Export column to select the records to be exported.
 - Click Export Compare AML to export selected records in MS-Excel format.
1. Click Export PDX to export the file being processed in PDX format.
 2. Click Next to proceed to the next step.

Note The matching will be done using Internal Part Numbers.

Performing Structural Validation

The Structural Validation of input file is driven by a pre-defined set of rules that can be turned on/off by you.

To perform structural validation:

1. Use the check box to select the rules you wish to apply during validation.
2. Click Submit to start the validation.

The BOM/AML Edit All page appears after validation is complete.

Note The BOM/AML Edit All page only shows records that contain an error or warning. It is not like the Bulk Edit screen that shows all records in the project.

3. Click in the highlighted cells to display the error messages. Directly type the correct value in the cell to correct an error.
 - Errors are highlighted in red color and Warnings are highlighted in yellow color. These must be corrected before proceeding to the next step.
 - Full contents of the selected cell are displayed in the top, left hand corner.
 - The specific error condition is displayed in the bottom left-hand corner.
 - Error and Warning Counts are displayed in the top right-hand corner of the screen.

- The cell color changes to green to mark it as a 'corrected' cell.
4. Do as many corrections as necessary and click Save to save these corrections.
 - Click Re-Run to run the validation again and ensure that all the errors have been corrected.
 - Click Save to save all the changes.
 - Click Export Errors to export error report in MS-Excel format.
 - Click Export PDX to export the file being processed in PDX format.
 5. Click Next when done to proceed to the next step.

The structural validation can be repeated multiple times, with different rule selections, if necessary, to correct all the reported errors.

To move on directly to MFR Aliasing without performing the Structural Validation, click Skip Validation.

Note	Alternatively you have the choice to go back to the Bulk Edit screen to fix errors that repeat in multiple rows through out the file.
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Performing Part Search

This function enables you to verify part numbers and their attributes on the fly while reviewing the errors reported during structural validation. The part search can be performed against any reference source connected to Agile Product Interchange. This occurs only if there are errors in the validation.

To perform part search:

1. Click Part Search on BOM/AML Edit All page to bring up the Part Search screen.
2. Type (or paste) the part number to be verified in the Part Number field.
3. Type (or paste) the manufacturer name to the Manufacturer Field.
4. Select the reference data source using the check box in Data Source field.
5. Select the type of part matching to be done from the drop-down in Match Type.
6. Click Search.
Review results from the search operation.
7. Click on the Manufacturer Part Number URL to view the Part datasheet. Copy the correct part number back into the BOM/AML Edit All screen.

Note	In the BOM/AML edit page, you need not enter the Manufacturer and Manufacturer Number manually. You can select and click the Manufacturer and the Manufacturer Part number to automatically populate Part Search.
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Creating Manufacturer Name Aliases

Manufacturing & procurement processes require standardization of manufacturer names to minimizes errors associated with purchasing wrong parts, redundant inventories, etc. It also improves the efficiency of Agile PLM processes.

Since Product Interchange supports part search and validation against multiple catalogs / reference sources, manufacturer name aliasing, it is very important to ensure that 'clean' manufacturer names are being used for matching against each unique source and the 'match rate' for each is maximized.

Manufacturer Name aliasing function automatically maps variants of manufacturer names to standard manufacturer names defined in the organization. Whenever entirely new name variants are encountered, the aliasing function makes suggestions based on 'fuzzy' name matching and allows you to make the final selection to define new aliases.

Agile Product Interchange supports two levels of manufacturer name aliasing, which are typically executed as two sequential steps during the validation process. These are:

- Level 1 - Map 'input' Project manufacturer names to Company standard names.
- Level 2 - Map Company standard names to catalog / reference source standard names.

Level 2 aliasing has to be performed for each reference source that will be used for manufacturer part number matching, since each source may have different names for the same manufacturer.


Level 1 - Map Project Manufacturer Names to “Your Company” Standard Manufacturer Names:

On the Manufacturer Alias Results page, manufacturers and their mapped alias names are displayed. The Alias Matches tab displays MFR names for which aliases to company standard names already exist. The Alias No Match tab displays other manufacturers for which an alias could not be found.

The screenshot shows the 'Map AGILE Standard Mfr' interface. At the top, there are navigation buttons: '< Prev', 'Export Alias', and 'Next >'. Below these, there are tabs for 'Alias Matches' and 'Alias No Match'. The 'Alias No Match' tab is selected. Below the tabs, there is a 'No of Records Per Page' dropdown set to 'All' and a page indicator 'Alias 1 - 3 of 3 | Page 1 of 1'. The main table has five columns: a checkbox, 'Customer Standard Mfr', 'AGILE Standard Mfr', 'Remarks', and 'Action'. The table contains three rows of data: AMD (ADVANCED MICRO DEVICES), EPSON, and MOTOROLA. Each row has an 'Edit' link in the 'Action' column. Below the table, there is another 'No of Records Per Page' dropdown set to 'All' and a page indicator 'Alias 1 - 3 of 3 | Page 1 of 1'. At the bottom left, there is a 'Delete Checked' button, and at the bottom right, there are '< Prev' and 'next >' buttons.

<input type="checkbox"/>	Customer Standard Mfr	AGILE Standard Mfr	Remarks	Action
<input type="checkbox"/>	AMD	ADVANCED MICRO DEVICES		Edit
<input type="checkbox"/>	EPSON	EPSON		Edit
<input type="checkbox"/>	MOTOROLA	MOTOROLA		Edit

To create a Manufacturer Name Alias:

1. Click on the Alias No Match link (located in the top-left corner of the screen). A list displays the manufacturers with no alias found. An exclamation mark  is displayed when no alias is found for the manufacturer name.
2. Click on the Edit link to identify existing standard manufacturer names or add new standard manufacturer names.
3. The Map to Standard Mfr page appears. Review results to see if any standard manufacturer names were returned.

Note Enter a Remark if desired. Remarks are exported in the Export Alias file.

4. If a standard manufacturer name represents the same manufacturer, select a standard name and click Map Selected to create a new alias.
If no standard names were returned, user can search the database using wild cards to identify a suitable standard name.
5. Click Get Standard Mfr Name.
6. When the appropriate standard manufacturer name is found, click Map Selected to create a new alias.
7. If no current standard manufacturer name that represents the same manufacturer is found, enter the new standard manufacturer name.

Create and Map

Standard Mfr name is

Remark

8. Click Create & Map to create the new alias.
9. Click Prev to return to the Manufacturer Alias Results page.
10. When done, click Next to proceed to the next stage.


To delete a Manufacturer Name Alias:

1. Select the check box of the record you want to delete. To select all records on the page, select the check box in the top left-hand box.
2. Click Delete Checked.
3. Click OK to delete the selected record.

Level 2 - Map “your company” standard names to the Data Source Standard names

You can alias new-company standard names to each reference source that is connected into Agile Product Interchange for part matching. Alias Matches tab displays manufacturer names for which the aliases exist already and Alias No-Match tab displays manufacturer names for which no current aliases could be found in Agile Product Interchange database.

To create a Manufacturer Name Alias:

1. Choose a data source from the External Data Source drop down box and click Alias No Match to display the company names for which no alias has been found. An exclamation mark  is displayed when no alias is found for the company name.

External Data Source

I2

[< Prev](#)
[Skip MPN Alias >](#)
[Export Aliases](#)
[Next >](#)

[Alias Matches](#) | [Alias No Match](#)

No of Records Per Page : All
Alias 1 - 14 of 14 Page 1 of 1

	AGILE Standard Mfr	I2 Standard Mfr	Action
<input type="checkbox"/>	ADVANCED MICRO DEVICES		Edit
<input type="checkbox"/>	AGILENT TECHNOLOGIES		Edit
<input type="checkbox"/>	BAYCOM		Edit

2. Click on the Edit link to identify existing standard company names or add new standard company names.
The Map to Source Mfr Name page appears. Review results to see if any standard company names were returned.
3. If a standard company name represents the same manufacturer, select a standard name and click Map Selected to create a new alias.
4. If no standard names are returned, search the database using wild cards to identify a suitable standard name.
5. Click Get Standard Mfr Name.
6. Once the correct standard manufacturer name has been found, click Map Selected to create a new alias.

Repeat this section for each data source.

To delete a Manufacturer Name Alias:

1. Select the check box of the record you want to delete. To select all records on the page, select the check box in the top left-hand box.
2. Click Delete Checked.
3. Click OK to delete the selected record.

Selecting MPN Aliases

During the cleansing and validation of part numbers the same erroneous part number appears in many different projects. At the time of correction, Agile Product Interchange creates an MPN Alias between the dirty manufacturer part number and the clean manufacturer part number. This alias is saved in the Product Interchange database. When a dirty manufacturer part number appears in a project, Agile Product Interchange automatically retrieves the MPN Alias (from the database) and gives the option to replace the dirty part with the clean part number.

To select part number aliases:

1. On the Part Number Alias page, the part numbers are displayed along with the corresponding

part number aliases that are currently in the database.

2. Click Export MPN Alias to export current part aliases.
3. Using the check box, select the part aliases that you want to include in the project.
4. Click on the Manufacturer Part Number URL to view manufacturer's datasheets.
5. Click Save to save these aliases in the file.
6. Click Next to proceed to the next step.

Note MPN Aliases are created during the MPN Search step of the cleansing process.

The following specific actions lead to the creation of MPN Aliases:

- **Near Match Search** - During MPN Search when a user conducts a Near Match Search against a reference catalog/ reference source, one or more near matches will be returned by the reference source. An MPN Alias is created when user selects one particular match result and saves it as the clean (correct) manufacturer part number to replace the dirty manufacturer part number in the project.
- **User Entry in No Match category** - During MPN Search the manufacturer part numbers that do not match against anything in a reference source are presented in the No Match results category. If a user types in a clean (correct) manufacturer part number and saves it, then an MPN Alias is created and saved in the MPN Alias database.
- **MPN Only Search** - During MPN Search when a user conducts a MPN Only Search against a reference catalog / reference source, one or more MPN Only matches will be returned by the reference source. An MPN Alias is created when user selects one particular match result and saves it as the clean (correct) manufacturer part number to replace the dirty manufacturer part number in the project.

Note Other MPN Search operations like Exact Match, Alternate Match do not create MPN Aliases, since the user is not replacing one dirty part number with one clean part number in these operations.

Validating Manufacturer Parts

Like the manufacturer names in the input file, the manufacturer part numbers also need to be validated. The manufacturer part numbers in the input file are validated, in bulk against a reference source like a parts catalog. This ensures that all MPNs in the input file are accurate and complete and also identifies any parts that may have become obsolete or are not recommended for use any more.

The bulk matching of MPNs is done using a part matching template/recipe. A recipe is a set of matching rules used against a data source. Data sources are the master repository of item and manufacturer data against which the validation needs to be done. When validating parts, you can either choose from an existing recipe or create a new recipe.

Every recipe contains the following configurable elements:

- **Match Index** - Select the index for part matching:
 - Manufacturer Part Number only.
 - Manufacturer Name only.

- Both Manufacturer Name and Manufacturer Part Number.
- Data Source - Select reference source to be used for part matching.
- Near Match Rules - Select rules to define how 'near matches' are done:
 - Neutralize Part Numbers - Remove all special characters before finding a part match in the selected data source.
 - Removal leading/trailing characters - Remove a specified number of characters from the beginning or the end of the part number before finding a part match in the selected source.

To validate parts using a new recipe:

1. On the Part Matching Page, click Create Recipe. The Create Recipe page appears.
2. Type the name of the new recipe. It is recommended to name the recipe in a way that describes the rules.
3. Select the check box of the items you want to validate.
4. Choose an exact match, partial match, or alternate match of the items.
5. Select the check box of the data sources you want to use.
6. Select the check box of the matching rules to use during matching.
7. Click Next to begin matching with the newly created recipe.

To validate parts using an existing recipe:

1. On the Part Matching page, select Use Existing Recipe.
2. Select the Recipe from the drop-down list.
3. Click Next to start the part matching and display the match results page.

On the match results page, you can view five groups of data:

- Selected Parts: Parts that have been reviewed and 'certified' as good parts by the user. As parts cleansing progresses all parts should ideally move in to this category from other buckets.
- Exact Matches: Parts that exactly matched the specified data source.
- Near Matches: Parts where an exact match was not found, but one or more near matches were found.
- Alternate Matches: Parts where alternate matches were found. An alternate match is a form-fit-function part equivalent to the original part where similar attributes are compared. The results of the match are listed as possible alternates to the original part.
- No Matches: Parts where no match was found.

Using Alternate Filters

Alternate Filters allow a user to provide a list of manufacturer names that can be used to filter the alternate match results from the content source. This allows the user to narrow the results to the preferred manufacturers.

Currently the manufacturer name filtering does not apply to other MPN Search operations like Exact Match and Partial Match. To provide a list of manufacturers simply include them in an Excel file (single column) and submit the file on the MPN Search screen, before running the Alternate Match

query.

To process Exact Match results:

Part matching results appear in this category only when 'Exact Match' was selected as a criterion in the part-matching recipe.

1. Click on the Exact Matches link to view parts that are exact matches.
2. Click the MPN URL to view manufacturer's datasheets.
3. Click Export Exact Matches to create an MS-Excel report of the Exact Matches found using Exact Match Search Recipe.
4. Select part-matching results that are acceptable.
5. Click Save to save these selections and move these parts to the 'Selected Parts' screen.
6. Click Change Recipe to run a new part-matching recipe.
7. Click Export Selected Parts to create an MS-Excel report with part details.
8. Click Export BOM/AML to create an MS-Excel report with BOM/AML details.
9. Click Export PDX to export the file being processed in PDX format.
10. Click Next to proceed to the next step.

To process Near Match results:

Part matching results appear in this category only when 'Near Match' was selected as a criterion in the part-matching recipe.

1. Click Near Matches link to view parts that are near matches.
2. Click Export Near Matches to create an MS-Excel report of the Near Matches found using Near Match Search Recipe.
3. Select part-matching results that are acceptable.
4. Click Save to save these selections and move these parts to the 'Selected Parts' screen.
5. Click Change Recipe to run a new part-matching recipe.
6. Click Export Selected Parts to create an MS-Excel report with part details.
7. Click Export BOM/AML to create an MS-Excel report with BOM/AML details.
8. Click Export PDX to export the file being processed in PDX format.
9. Click Next to proceed to the next step.

To process No Match results:

Part matching results appear in this category every time there are parts in the input file, which could not be matched according to the criteria listed in the part-matching recipe.

1. Click No Matches link to view parts with no matches.
2. Type the Manufacturer, MPN and Part Description to describe the 'correct' replacement for the 'dirty' part number in the input file.

Note	This action also creates a part number alias (dirty à clean) which is persisted in the part alias knowledge base for all future matches where this (dirty) part number shows up in the input files.
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3. Click Save to save the selections.

Note	This action also removes the selected results from the No Match screen and lists them under 'Selected Parts' screen as parts that have been 'cleaned'.
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4. Click Delete No Matches to delete the No Matches results.
5. Click Export No Matches to create an MS-Excel report with report of the No Matches found using No Match Search Recipe.
6. Click Change Recipe to run a new part-matching recipe.
7. Click Move to No-Match to remove those parts for which no match results can be found (e.g. custom parts) in the reference source.
8. Click Next to proceed to the next step.

Finding Alternate Parts

You can search for alternate parts to replace parts with issues (i.e., fit-form-function or non-compliance) or to add new sources of equivalent parts.

To find alternate parts:

Part matching results appear in this category only when 'Alternate Match' is selected as a criterion in the part-matching recipe.

1. On the Part Matching page, select Use Existing Recipe.
2. Select Alternate Match recipe from the drop-down list.
3. Click Next to start the part matching and display the match results page.
4. Click on the Alternate Matches link to view parts with alternate matches.
5. Select one or more parts which can serve as acceptable alternate parts.
6. Click Save to save the selections.

Note	This action also creates a part number alias (original à alternate). This is stored in the part alias knowledge base for all future matches where the (original) part number shows up from the input files. It also removes the selected results from the Alternate Match screen and lists them under 'Selected Parts' screen as parts that have been 'cleaned'.
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7. Click Change Recipe to run a new part-matching recipe.
 - Click Export Selected Parts to create an MS-Excel report with part details.
 - Click Export BOM/AML to create an MS-Excel report with BOM/AML details.
 - Click Export PDX to export the file being processed in PDX format.
8. Click Next to proceed to the next step.

Note	MPN Search is often a very iterative operation requiring you to try several different searches to cleanse part numbers and find alternate parts. During these operations it is possible that, new manufacturers having no corresponding company standard names may be brought into the project.
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Mapping Data Source Substance to Customer Standard Substance Name

You can map the substance from the data source to customer standard substance name and export the standard substance name to Agile PLM.

To map data source to customer standard substance name:

1. In the Dashboard click on the Validation link.
2. Click on the MPN Search link.
Select a recipe from the drop-down menu.
3. Click Next to proceed to the next step.
Depending on the selection, the matches will be displayed.
4. Select the parts, if the part returns material details from the data source.
5. Click Save. The parts automatically move to the Selected Parts bucket.
6. In the Selected Parts page, click on the Map Substance link.
The Map Partminer Substance to Customer Standard Substance name page appears.
7. Click Alias No Match link to display the Data Source Substance name for which no alias has been found. An exclamation mark  is displayed when no alias is found for the Data Source Substance name.
8. Click on the Edit link to identify existing standard substance names.
The Map "Data Source name" to Standard Substance name page appears. Review results to see if any standard substance names were returned.
9. Select a standard substance name and click Map Selected to create a new alias.
10. If no standard substance names were returned, search the database using wildcards to identify a suitable standard substance name.
11. Click Get Standard Substance Name.
12. Once the correct standard substance name has been found, click Map Selected to create a new alias
Repeat this section for each data source.

To delete a Standard Substance Name Alias:

1. Select the check box of the record you want to delete. To select all records on the page, select the check box in the top left-hand box.
2. Click Delete Checked.
3. Click OK to delete the selected record.

Note	Substance mapping is case sensitive.
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Caution	Substance mapping should be used with caution. You need not map every substance to customer standard substance name.
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Assigning Commodity Codes

Once all the parts information have been cleaned and validated, you can assign Commodity Codes to individual manufacturer parts or part groups.

To Assign Commodity Codes:

After completion of creating validation projects, performing bulk edits, structural validation, validating manufacturer parts you are brought to the Assign Commodity Codes page. On the Assign Commodity Codes page, the parts are categorized based on whether they have Commodity Codes already assigned or not.

1. Click on the MPNs without Commodity Codes link to view parts that do not have commodity codes currently assigned.
2. For each part, select the Appropriate Commodity Code from the pull down list. The Commodity Group gets assigned automatically (Optional).
3. Click Save to save all the Commodity Code assignments.

To assign Commodity Codes to multiple parts:

1. Select all the similar parts using the check box or use Select Function to select parts based on a matching pattern.
2. Using the Select Code pull down list, select the desired Commodity Code for the list of parts.
3. Click Change.
4. Click Save to save all the Commodity Code assignments.
5. Click Next to initiate the export of a cleansed project to Agile PLM or to export as a PDX file.

This automatically triggers a BOM/AML validation to verify if the cleansed file is suitable for export.

Exporting Validation Projects

Use Export to export the BOM/AML to a PDX file or to Product Interchange.

To Export the BOM/AML to a PDX file:

1. Create a validation project.
2. Perform Bulk Edit on it.
 - The SmartRule validation is kicked off automatically and the errors / warnings are presented to the user through the BOM/AML Edit All screen.
 - Every cell that has an error is highlighted either with Red or Yellow color.
 - The 'Red' cells have errors that must be corrected before export can proceed further.
 - The 'Yellow' cells may be addressed optionally.
 - Error and Warning Counts are displayed in the top right-hand corner of the screen.
 - The entire text in that field is displayed in the top left-hand corner of the screen.
 - The specific error condition is displayed in the bottom left-hand corner.

- The cell color changes to green to mark it as a 'corrected' cell.
3. If validation errors are found, directly type the correct value in the cell to correct the error.
 4. Do as many corrections as necessary and click Save to save the corrections.
 - Click Re-Run to run the validation again and ensure that all the errors have been corrected.
 - Click Export PDX to begin exporting the BOM/AML to a PDX file.
 - Click Save to save the file to a specified location or click Open to open the file for viewing.

To Export the BOM/AML to Agile PLM in Redlining mode:

Follow these steps to export BOM/AML with Change Order to Product Interchange along with Material Declaration.

Note	The Compliance Manager Cover Page Attribute should be as required field under Homogeneous Material Declaration and IPC 1752-2 Declarations, in Java Client.
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1. In the Perform Bulk Edits page, click Export.
2. Click Export to go to the Select Change and Declaration Source page.
3. Choose the Sub Class and Number Source from their respective drop-down lists.
4. Enter the Change Number or click Auto Number to automatically assign a number to this field.
5. Enter Sub Class for Declaration: Homogeneous Material Declaration or IPC 1752-2 Declaration.
6. Select Number Source for Declaration from drop-down menu.
7. Click Submit.

Enter values for Compliance Manager and Workflow fields for the Selected Declaration.

Enter Change Category and Workflow fields for MCO Cover Page.
8. Click Submit to export the BOM/AML along with the Declaration into Agile PLM.

The Agile Export Results Screen displays the Change Number, Import Log, Declaration Number and Declaration Import Log.

- Click Next - To enter the relevant notes in the Validation Notes and Additional Notes text boxes.
- Click Done - To see a summary of the export.
- Click Dashboard - To return to the Dashboard.

The Project Status on the Dashboard will change to Review Cleansed BOM.

Note	If you click Dashboard, you will return to the Dashboard with a Validation State - Not a Review Cleansed BOM state.
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In the Dashboard, click on the Review Cleansed BOM link to view the following reports that are generated upon completion of the validation:

- BOM File - This is the original file input in the validation file.
- Mfr Report - This is a Microsoft Excel Report that lists the manufacturers contained in the project.
- Standard BOM/AML Report - This report presents the cleansed file in a standard Microsoft Excel format.
- PDX file - This is the PDX version of the cleansed file.

- Validation Notes - List of the validation notes.

Note The BOM/AML can be exported to Agile PLM with or without creation of Change Order along with Material Declaration.

Note The Homogeneous Declaration and IPC 1752-2 Declarations supports all the required fields of the Cover Page Attributes.

Note The MCO supports all the required fields of the Cover Page Attributes.

To Export the BOM/AML to Agile PLM in Authoring mode:

1. From the Perform Bulk Edits page, click Export.
2. Click Agile Export.

The Agile Export Results Screen displays the BOM/AML Import Log and Composition Import Log.

- Click Next - To enter the relevant notes in the Validation Notes and Additional Notes text boxes.
- Click Done - To see a summary of the export.
- Click Dashboard - To return to the Dashboard.

The Project status on the Dashboard will change to Review Cleansed BOM.

Note If you click Dashboard, you will return to the Dashboard with a Validation State - Not a Review Cleansed BOM state.

3. In the Dashboard, click on the Review Cleansed BOM link to view the following reports that are generated upon completion of the validation:
 - BOM File - This is the original file input in the validation file.
 - Mfr Report - This is a Microsoft Excel Report that lists the manufacturers contained in that project.
 - Standard BOM/AML Report - This report presents the cleansed file in a standard Microsoft Excel format.
 - PDX file - This is the PDX version of the cleansed file.
 - Validation Notes - Any validation notes you made are listed in a summary fashion.

Note The BOM/AML can be exported to Agile PLM with or without substance data.

PG&C Integration

This chapter includes the following:

- PG&C Integration..... 21

PG&C Integration

Agile Product Interchange supports integration with Product Governance & Compliance (PG&C) solution to manage hazardous material information and provides the following capabilities:

- Retrieval of compliance attributes, including full Bill of Substance information from external content sources and persisting the compliance information in the Product Interchange schema.
- Creation of Homogeneous Material Declaration and IPC1752-2 Declaration in PG&C solution by exporting compliance information from Product Interchange.
 - Unique declaration created for each external data source.
 - Single declaration created for all parts in a validation project.
 - Substances created in PG&C if they do not exist currently.
 - Multi Level Bill Of Substance tree structure supported.
 - Configurable mapping of compliance attributes from external data source to composition attributes in PG&C.

Retrieving Compliance Information & Exporting to PG&C

Product Interchange retrieves compliance information by following a series of steps. A summary of these steps is provided below. For more details, see "[Creating a Validation Project](#) (on page 3)", "[Performing Bulk Edits](#) (on page 5)", "[Performing Part Search](#) (on page 9)", "[Validating Manufacturer Parts](#) (on page 13)" and "[Exporting Validation Projects](#) (on page 18)".

1. Create a Validation Project.
Optional: Perform regular cleansing & validation steps (MFR Aliasing, MPN Aliasing, etc.).
2. Select MPN Search function.
3. Run MPN_MFR_Exact_Match query for the relevant content source.

Note	Run other exact or partial match queries to broaden the search or alternate match queries to identify form, fit, function alternate parts.
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4. On the MPN search results page, click on the Material Details link to see detailed material information retrieved from the content source.
5. Export the project to Agile PLM (PG&C).
6. The Declaration No. (i.e. MD03245-HMD) generated will appear on the Agile Export Results

page along with the Change Number.

The import of Material Declaration into PG&C happens sequentially after the import of a BOM/AML into Agile PLM. Thus if new items, or Manufacturer Part Numbers need to be created, then this action takes place before the import of Material Declaration is initiated.

Note	If the “Redlining” mode has been selected for Agile PLM then the BOM/AML will be exported to Agile PLM with or without creation of Change Order along with the Material Declaration.
Note	If the “Authoring” mode has been selected for Agile PLM import, then items will be created/updated directly without a Change Order. This is the preferred mode for importing larger projects with high part counts.

Content Provider Attribute Tables

This Appendix includes the following:

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▪ Arrow Electronics General Attributes	26
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▪ i2 Technologies General Attributes (Partial List)	28

Partminer General (Non-Compliance) Attributes

General (Non-Compliance) Attributes from Partminer	Attributes Description	Allowed Values
Manufacturer Name	Manufacturer Name	<mfr>
Manufacturer Part Number	Manufacturer Part Number	<mpn>
Manufacturer Part Description	Manufacturer Part Description	<description>
Part Status	Current Part Usage Status	Prelim, Active, Historical, Contact MFR, EOL, Discontinued
Last Time Buy Date	Last Time Buy Date (for discontinued parts)	<date>
Last Time Ship Date	Last Time Ship Date (for discontinued parts)	<date>
Lifecycle Stage	Current Part Lifecycle Stage	Introduction, Growth, Maturity, Saturation, Decline, Maturity
Lifecycle Risk	Current Part Lifecycle Risk	Rating on a scale of 1 - 6 (Low Risk to High Risk)
Earliest Obsolescence Date	Earliest Predicted Obsolescence Date	<date>
Latest Obsolescence Date	Latest Predicted Obsolescence Date	<date>

General (Non-Compliance) Attributes from Partminer	Attributes Description	Allowed Values
Pin Count	Pin Count	<count>
Package Equivalence Code	Package Code	<package>
Package Material	Package Material	<material>
Commodity Code	Commodity Code (Assigned by content source)	<commodity code>
Datasheet	Manufacturer Datasheet	<datasheet url>
Cross References	Form / Fit / Function Cross References	<cross reference parts>
EOL Notices	Manufacturer Issued EOL Notice	<url to EOL Notice>
PCN Notices	Manufacturer Issued PCN Notice	<url to PCN Notice>

Note All attribute information provided here is for guidance only. For actual availability of these and other attributes, and the exact definition / function of the attributes, please contact Partminer.

Partminer Compliance Attributes

Compliance Attributes from Partminer	Attributes Description
Lead Free Status	<p>"YES" is returned if the part is lead-free, or the part contains $\leq 0.1\%$ lead.</p> <p>"NO" is returned if the part contains lead. If the tag is not returned, it indicates that the lead content is unknown.</p>
Lead Free Code	Code used by the manufacturer to differentiate lead-free parts. This code may be included in the part number suffix. Used in the ordering process or used as a marking code on the device itself
Component Mark	Description of the identifier(s) on the component used by the manufacturer to indicate that the component is lead-free and/or green (may be called "RoHS compliant").
Shipping Mark	Description of the identifier(s) on the shipping materials (label, reel, box, etc.), used by the manufacturer to indicate that the component is lead-free and/or green (may be called "RoHS compliant").
ROHS Compliance	<p>YES" is returned if the part is RoHS compliant.</p> <p>"NO" is returned if the part is not RoHS compatible.</p> <p>If the tag is not returned, it indicates that the RoHS status is unknown.</p>
ROHS Code	Code used by the manufacturer to differentiate RoHS compliant parts. This code may be included in the part number suffix; Used in the ordering process or used as a marking code on the device itself.
Green Code	This is the date code for parts with RoHS Compliance ...1005 noncompliant 1105 compliant.
Manufacturer Package ID	Manufacturer's name or description of the package for the part.
Data Capture Date	The date when Partminer collected the material data for the part.
Effective Date	Data Capture Date
Moisture Sensitivity Level	Moisture Sensitivity Level value.
Peak Reflow Temperature	The maximum temperature in degrees C that the part is qualified to withstand during the soldering process

Compliance Attributes from Partminer	Attributes Description
Mat Data Sheet	Image server filename of Material Datasheet document.
Certification Doc	Image server filename of Material Content Certification document.
Roadmap Doc	Image server filename of Manufacturer's Lead-free/ RoHS Compliant Roadmap document.
Total Weight	Total weight of the part in milligrams.
Material	A material is made up of one or more substances (i.e. copper alloy is a material, which in turn is made up of a number of defined substances, copper, nickel, silver, etc.).
Substance	Substances are chemical elements and their compounds.
Substance Weight	Weight of the substance in milligram.
Substance Symbol	The symbol or symbols from the periodic table of the elements which describe the substance. Symbols are only used if given by the manufacturer.
Substance CAS Number	CAS registry number of the substance. CAS numbers are only used if given by the manufacturer.
Substance Location	Location of the substance in the part.
Substance Use	The use of the substance at the location where the substance is used

Note All attribute information provided here is for guidance only. For actual availability of these and other attributes, and the exact definition / function of the attributes, please contact Partminer.

Arrow Electronics General Attributes

General Attributes from Arrow Electronics (Partial List)	Attributes Description
Manufacturer Name	Manufacturer Name
Manufacturer Part Number	Manufacturer Part Number
Manufacturer Part Description	Manufacturer Part Description
Part Status	Current Part Usage Status
Last Time Buy Date	Last Time Buy Date (for discontinued parts)
Last Time Ship Date	Last Time Ship Date (for discontinued parts)
Lead Free Status	Lead Free Status
ROHS Compliance Status	ROHS Compliance Status
Datasheet	Manufacturer Datasheet (url)
Cross References	Form / Fit / Function Cross References
Multi Source Profile	Indicator for number of sources for the part
Breadth of Usage	Industry Usage Indicator
EOL Notices	Manufacturer Issued EOL Notice (url)
PCN Notices	Manufacturer Issued PCN Notice url)

Note All attribute information provided here is for guidance only. For actual availability of these and other attributes, and the exact definition / function of the attributes, please contact Arrow Electronics.

Avnet General Attributes (Partial List)

General Attributes from Avnet (Partial List)	Attributes Description
Manufacturer Name	Manufacturer Name
Manufacturer Part Number	Manufacturer Part Number
Manufacturer Part Description	Manufacturer Part Description
Part Status	Current Part Usage Status
Last Time Buy Date	Last Time Buy Date (for discontinued parts)
Last Time Ship Date	Last Time Ship Date (for discontinued parts)
Quantity Available	Available Quality
Price	Market Price
Lead Time	Lead Time

Note All attribute information provided here is for guidance only. For actual availability of these and other attributes, and the exact definition / function of the attributes, please contact Avnet.

i2 Technologies General Attributes (Partial List)

General Attributes from i2 Technologies (Partial List)	Attribute Description
Manufacturer Name	Manufacturer Name
Manufacturer Part Number	Manufacturer Part Number
Manufacturer Part Description	Manufacturer Part Description
Part Status	Current Part Usage Status
Last Time Buy Date	Last Time Buy Date (for discontinued parts)
Last Time Ship Date	Last Time Ship Date (for discontinued parts)
Lifecycle Stage	Current Part Lifecycle Stage
Lifecycle Risk	Current part Lifecycle Risk
Predicted Obsolescence	Predicted Obsolescence Date
Lead Free Status	Lead Free Status
Datasheet	Manufacturer Datasheet <url>
Cross References	Form / Fit / Function Cross References
EOL Notices	Manufacturer Issued EOL Notice
PCN Notices	Manufacturer Issued PCN Notice
Terminal Finish	Terminal Finish
JEDEC Marking	JEDEC Marking
Reflow Temperature	Reflow Temperature
Moisture Sensitivity Level (Min)	Moisture Sensitivity Level (Min)
Moisture Sensitivity Level (Max)	Moisture Sensitivity Level (Min)
Material Compound (ppm)	Material Compound (ppm)
Material Compound (mg)	Material Compound (mg)
EOL Notices	Manufacturer Issued EOL Notice
PCN Notices	Manufacturer Issued PCN Notice

Note All attribute information provided here is for guidance only. For actual availability of these and other attributes, and the exact definition / function of the attributes, please contact I2 Technologies.
