

Oracle® Advanced Product Catalog

User's Guide

Release 11*i*

Part No. B13678-03

April 2005

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS

Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software–Restricted Rights (June 1987). Oracle Corporation, 500 Oracle Parkway, Redwood City, CA 94065.

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

Oracle, JD Edwards, PeopleSoft, and Retek are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Contents

Send Us Your Comments

Preface

1 Advanced Search

Administration Advanced Search Overview	1-1
Managing Administrator Level Search Criteria	1-1
Managing User Level Search Criteria	1-2
Managing Administrator Level Display Formats	1-4
Managing User Level Display Formats.	1-6

2 Item Catalog Administration

Item Catalog Administration Overview	2-1
Searching for Item Catalog Categories	2-1
Creating Item Catalog Categories	2-1
Updating Item Catalog Categories.	2-3
Managing Import Formats	2-4
Managing Item Statuses	2-7
Browsing the Item Catalog Category Hierarchy	2-7
Assigning People to an Item Catalog Category	2-8
Associating Attribute Groups with an Item Catalog Category	2-8
Adding Actions to an Attribute Group.	2-9
Setting Up New Item Request Types.	2-10
Associating New Item Requests with an Item Catalog Category	2-12
Defining Item Templates	2-13
Defining Item Numbers and Descriptions	2-14
Creating Parameter Mappings for an Action	2-15
Creating Pages for an Item Catalog Category	2-15
Managing Lifecycle Phases	2-16
Associating Lifecycles with an Item Catalog Category	2-16
Adding Attachment Categories to an Item Catalog Category	2-17
Deleting Attachment Categories from an Item Catalog Category	2-18
Managing Item Change Policies.	2-18
Optimizing the Item Catalog Text Index	2-19
Associating Report Templates with an Item Catalog Category	2-20

GDSN Administration	2-21
-------------------------------	------

3 Catalog Administration

Catalog Administration Overview	3-1
Creating Categories	3-1
Creating Catalogs	3-2
Assigning a Category to a Catalog	3-4
Creating a Category Hierarchy within a Catalog	3-5
Updating a Category Hierarchy within a Catalog	3-5
Deleting a Category from a Catalog	3-6
Assigning People to a Catalog	3-6
Assigning People to a Valid Category	3-7

4 Change Management Administration

Change Management Administration Overview	4-1
Creating Change Categories	4-1
Managing Change Header Types	4-2
Creating Task Templates	4-7
Managing Change Line Types	4-8
Creating Change Priorities	4-10
Creating Statuses	4-10
Creating Change Reasons	4-11
Creating Classifications	4-12
Creating Reports	4-13
Creating Workflow Templates	4-13

5 Configuration Management Administration

Configuration Management Administration Overview	5-1
Searching for Structure Types	5-1
Creating Structure Types	5-1
Associating Structure Names with a Structure Type	5-2
Searching for Structure Names	5-2
Creating Structure Names	5-3

6 People and Roles Administration

People and Roles Administration Overview	6-1
Managing and Viewing Roles	6-1
Creating Roles	6-2
Updating Roles	6-3
Updating Role Mappings	6-3
Deleting Roles	6-4
Managing Organization-Level Roles	6-4
Managing People, Groups, and Companies	6-5

7 Attributes and Functions Administration

Attributes and Functions Administration	7-1
User-Defined Attributes	7-1
Creating User-Defined Functions	7-5
Creating Value Sets	7-7
Defining Table Value Sets	7-8
Creating Independent Values	7-9
Creating Custom Privileges	7-10

8 Item Catalog

Item Catalog Overview	8-1
Searching for Items	8-1
Managing Favorite Items	8-3
Using Recently Visited	8-4
Creating New Items	8-4
Creating Multiple Items	8-8
Managing Item Imports	8-9
EGO_ITM_USR_ATTR_INTRFC	8-11
EGO_ITM_USR_ATTR_INTRFC Column Details	8-13
EGO_ITEM_PEOPLE_INTF	8-15
EGO_ITEM_PEOPLE_INTF Column Details	8-16
Importing Items Using a Spreadsheet	8-18
Importing Item Revisions Using a Spreadsheet	8-20
Importing Item Categories Using a Spreadsheet	8-23
Importing Item Organization Assignment Using a Spreadsheet	8-24
Importing Item People Assignment Using a Spreadsheet	8-25
Updating Existing Items Using a Spreadsheet	8-27
Updating Multi-Row Attributes in a Spreadsheet	8-29
Managing Item Specifications	8-30
Managing Item Phases	8-32
Managing AMLs	8-33
Creating Item Revisions	8-34
Managing Item Attachments	8-35
Enabling Organization Assignments	8-36
Adding People	8-37
Managing Revision Phases	8-38
Managing Projects	8-39
Generating Reports	8-40

9 Global Data Synchronization Network

Managing Items for GDSN Syndication	9-1
Associating GTINS for GDSN Syndication	9-2
Managing GTIN Cross References	9-3
Managing GDSN Attributes	9-3

Managing the Packaging Hierarchy	9-8
Registering Items With GDSN	9-10
Managing Customer Subscriptions	9-13
Publishing Items to a Customer	9-14

10 Catalogs

Catalogs Overview	10-1
Browsing the Catalog	10-1
Assigning an Item to a Category	10-1
Copying Items with Category Assignments	10-2

11 Change Management

Change Management Overview	11-1
Searching for Issues and Change Management	11-1
Creating Issues	11-2
Creating Change Requests	11-5
Creating Change Orders	11-12
Performing Actions	11-15
Managing the Action Log	11-16
Creating Change Revisions	11-17
Managing Attachments	11-18
Managing People and Roles	11-19
Managing Issue and Change Request Lines	11-20
Managing Change Order Revised Items	11-20
Managing Change Tasks	11-24
Creating Relationships	11-25
Managing Workflows	11-26
Importing Changes	11-34
ENG_CHG_USR_ATR_INTERFACE	11-36
ENG_CHG_USR_ATR_INTERFACE Column Details	11-37
ENG_CHANGE_PEOPLE_INTF	11-40
ENG_CHANGE_PEOPLE_INTF Column Details	11-41
ENG_CHANGE_LINES_INTERFACE	11-43
ENG_CHANGE_LINES_INTERFACE Column Details	11-44
Managing Reports	11-46

12 Configuration Management

Configuration Management Overview	12-1
Searching for Items in a Structure	12-1
Viewing Item Structures	12-2
Managing Item Structures	12-3
Performing Item 'Where Used' Inquiries	12-4

13 Product Workbench

Product Workbench Overview	13-1
Item Management	13-2
Creating Items	13-13
Overview of Product Structure and Bills of Material Management	13-14
Managing Bills of Material Product Structures	13-18
Using Multilevel Structures	13-18
Managing Structures Using Effectivity Control	13-22
Excluding Structures.	13-23
Creating Structures	13-28
Viewing Structure Information	13-33
Editing Structure Information	13-39
Using Defined Structure Names and Types.	13-46
Viewing Structures in the Context of a Change Order	13-47
Marking Up Structures.	13-52
Creating New Issues.	13-56

Index

Send Us Your Comments

Oracle Advanced Product Catalog User's Guide, Release 11i

Part No. B13678-03

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, please indicate the title and part number of the documentation and the chapter, section, and page number (if available). You can send comments to us in the following ways:

- Electronic mail: appsdoc_us@oracle.com
- FAX: 650-506-7200 Attn: Oracle Product Lifecycle Management Documentation Manager
- Postal service:
Oracle Product Lifecycle Management Documentation Manager
Oracle Corporation
500 Oracle Parkway
Redwood Shores, CA 94065
USA

If you would like a reply, please give your name, address, telephone number, and electronic mail address (optional).

If you have problems with the software, please contact your local Oracle Support Services.

Preface

Intended Audience

Welcome to Release 11i of the *Oracle Advanced Product Catalog User's Guide*.

This guide assumes you have a working knowledge of the following:

- The principles and customary practices of your business area.
- Oracle Advanced Product Catalog.

If you have never used Oracle Advanced Product Catalog, Oracle suggests you attend training classes available through Oracle University.

- The Oracle Applications graphical user interface.

To learn more about the Oracle Applications graphical user interface, read the *Oracle Applications User's Guide*.

See Related Documents on page xii for more Oracle Applications product information.

TTY Access to Oracle Support Services

Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, seven days a week. For TTY support, call 800.446.2398.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

Accessibility of Code Examples in Documentation

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

Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

Structure

- 1 Advanced Search**
- 2 Item Catalog Administration**
- 3 Catalog Administration**
- 4 Change Management Administration**
- 5 Configuration Management Administration**
- 6 People and Roles Administration**
- 7 Attributes and Functions Administration**
- 8 Item Catalog**
- 9 Global Data Synchronization Network**
- 10 Catalogs**
- 11 Change Management**
- 12 Configuration Management**
- 13 Product Workbench**

Related Documents

Training and Support

Training

Oracle offers a complete set of training courses to help you and your staff master Oracle Applications and reach full productivity quickly. These courses are organized into functional learning paths, so you take only those courses appropriate to your job or area of responsibility.

You have a choice of educational environments. You can attend courses offered by Oracle University at any one of our many Education Centers, you can arrange for our trainers to teach at your facility, or you can use Oracle Learning Network (OLN), Oracle University's online education utility. In addition, Oracle training professionals can tailor standard courses or develop custom courses to meet your needs. For example, you may want to use your organization's structure, terminology, and data as examples in a customized training session delivered at your own facility.

Support

From on-site support to central support, our team of experienced professionals provides the help and information you need to keep Oracle Applications working for you. This team includes your Technical Representative, Account Manager, and Oracle's large staff of consultants and support specialists with expertise in your business area, managing an Oracle Database, and your hardware and software environment.

Do Not Use Database Tools to Modify Oracle Applications Data

Oracle STRONGLY RECOMMENDS that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle Applications data unless otherwise instructed.

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle Applications data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle Applications tables are interrelated, any change you make using an Oracle Applications form can update many tables at once. But when you modify Oracle Applications data using anything other than Oracle Applications, you may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle Applications.

When you use Oracle Applications to modify your data, Oracle Applications automatically checks that your changes are valid. Oracle Applications also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a record of changes.

Advanced Search

Administration Advanced Search Overview

To navigate to all Administration Advanced Search help topics in the Advanced Product Catalog, select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management, and then select the Advanced Search folder.

Managing Administrator Level Search Criteria

Search criteria templates offer a convenient way to save frequently used search criteria. Administrator-created search criteria templates are available for all users. When a default search criteria template for a particular object is defined by a user and administrator, the user-defined search criteria template takes precedence.

Because search criteria templates contain both operational and user-defined attributes, they are always defined in the context of an item catalog category, structure type or change category (depending on the object for which a criteria template is being created).

To create administrator level search criteria:

1. Administrators can create search criteria from the respective item catalog category definition page for an item, the structure type definition page for a structure, or change category list page for a change object. You can access these pages via the Setup Workbench link on the Applications page.
2. From the object's definition page (either the **Basic Information** page for an item catalog category or structure type, or the **Categories** page for a change object), click the Search Criteria link.

Note: On the change management **Categories** page, click the Search Criteria icon in the row of the category for which you wish to create search criteria.

3. On the **Search Criteria** page, click Create.
4. On the **Create Search Criteria** page, provide a name and description for the search criteria. You can set this search criteria as the default search criteria for the object by clicking Set as Default. Note that the name of the respective catalog category, structure type, or change category already appears. You have the option of copying an existing item catalog category, structure type or change category search criteria, and combining the respective attributes with those you wish to add to the this search criteria.

5. Click Add Criteria to add search criteria. If the list of available search criteria is quite long, you can filter or narrow them down by electing to view only those criterion in a particular attribute group. You can do this by entering the name of the attribute group and clicking Go. If you simply wish to locate a single attribute, enter its name and click Find.
6. On the **Add Criteria** page, you can move search criteria back and forth from the Available Criteria list to the Selected Criteria list via the Move, Move All, Remove, and Remove All shuttles. When finished, click Continue.

After adding criteria, you can specify operators and values to further refine the search criteria. For example, when searching for Capacitors, you may always want to include Capacitors with a Capacitance value that is between 5 and 30 uF (microfarads)--in this case you would add the attribute "Capacitance Value" to your search criteria, then select the operator "between," and specify a minimum value of "5" uF and a maximum value of "30" uF.

Note: For multi-row attributes with a value set, the distinction between the operators "is not" and "none of which is" is as follows:

- *is not*

Returns *any* record containing at least one attribute value that is not the value specified. For example, suppose you have a multi-row attribute for "Color." If you specify an operator and value "is not" as "Red," then the search results will include records where there is at least one attribute value for "Color" that is not "Red."

- *none of which is*

Returns any record where none of the attribute values is the value specified. For example, suppose you have a multi-row attribute for "Color." If you specify an operator and the value "none of which is" as "Red," then the search results will include records where none of the attribute values for "Color" are equal to "Red."

To clear the criteria values, select the criteria and click Clear. To delete criteria attributes, select the criteria and click Delete.

Configuration Management Only: You can include the "Create and Update" and "Component Details" attribute groups in the display columns.

7. Click Apply to save your search criteria definition.

Managing User Level Search Criteria

Search criteria can be created either by administrators or end users. User-created search criteria is available only to the particular user who creates it. When default search criteria for a particular object is defined by a user and administrator, the user-defined search criteria takes precedence.

To create a user level search criteria:

1. Navigate to the Advanced Search link from the search sandbox at the top of most Item Catalog and Change Management pages. You can also navigate to

the Advanced Search link in the Items and Change Management sections of the Applications tree menu.

Note: To update search criteria for a structure, go to the **First Level Components** or **Structure Component Hierarchy** page for the item structure and click Personalize (next to Criteria).

2. On the **Advanced Search** page, select an Item Catalog Category or Change Category (whichever is appropriate for your context) and click Go.

Note: For structures, you do not have to specify a Structure Type because you are always in the context of a structure and structure type.

3. Click Personalize in the Search Criteria section.
4. On the **Search Criteria** page, click Create.
5. On the **Create Search Criteria** page, provide a name and description for the search criteria. You can set this search criteria as the default search criteria for the object by clicking Set as Default. Note that the name of the respective catalog category, structure type, or change category already appears. You have the option of copying an existing item catalog category, structure type or change category search criteria, and combining the respective attributes with those you wish to add to the template.
6. Click Add Criteria to add attributes to your search criteria. If the list of available attributes is quite long, you can filter or narrow them down by electing to view only those attributes in a particular attribute group. You can do this by entering the name of the attribute group and clicking Go. If you simply wish to locate a single attribute, enter its name and click Find.
7. On the **Add Criteria** page, you can move criteria back and forth from the Available Criteria list to the Selected Criteria list via the Move, Move All, Remove, and Remove All shuttles. When finished, click Continue.

After adding attributes, you can specify operators and values to refine your search. For example, when searching for Capacitors, you may always want to include Capacitors with a Capacitance value that is between 5 and 30 uF (microfarads)--in this case you would add the attribute "Capacitance Value" to your search criteria, then select the operator "between," and specify a minimum value of "5" uF and a maximum value of "30" uF.

Note: For multi-row attributes with a value set, the distinction between the operators "is not" and "none of which is" is as follows:

- *is not*

Returns *any* record containing at least one attribute value that is not the value specified. For example, suppose you have a multi-row attribute for "Color." If you specify an operator and value "is not" as "Red," then the search results will include records where there is at least one attribute value for "Color" that is not "Red."

- *none of which is*

Returns any record where none of the attribute values is the value specified. For example, suppose you have a multi-row attribute for "Color." If you specify an operator and the value "none of which is" as "Red," then the search results will include records where none of the attribute values for "Color" are equal to "Red."

To clear the criteria values, select the criteria and click Clear. To delete criteria values, select the criteria and click Delete.

8. Click Apply to save your search criteria definition.

To update user level search criteria:

1. Navigate to the Advanced Search link from the search sandbox at the top of most Item Catalog and Change Management pages. You can also navigate to the Advanced Search link in the Items and Change Management sections of the Applications tree menu.

Note: To update search criteria for a structure, go to the **First Level Components** or **Structure Component Hierarchy** page for the item structure and click Personalize (next to Criteria).

2. On the **Advanced Search** page, select a Catalog Category/Structure Type/Change Category (whichever is appropriate for your context) and click Go.
3. Click Personalize in the Search Criteria section.
4. On the **Search Criteria** page you are provided with a list of search criterion that are available for the catalog category/structure type/change category you originally selected. You can only edit search criteria that you created. Click the name link of search criteria you wish to update.
5. On the **Edit Search Criteria** page, you can update the name, description, set as default, and other attributes of the search criteria. You can also add/delete/modify criteria, corresponding search operators, and values.
6. Click Apply to save your search criteria definition.

Managing Administrator Level Display Formats

Display Formats enable you to predefine search display views. You can use these views to look at different sets of attributes of the items or change objects that are returned by the search. Both administrators and users can create display formats. Administrator-created display formats are available to all users. User-created display formats are available only to the users who created them.

To create an administrator level display format:

1. Administrators can create display formats from the respective item catalog category definition page for an item, the structure type definition page for a structure, or change category list page for a change object. You can access these pages via the Setup Workbench link in the Applications tree menu.

2. From the object's definition page (either the **Basic Information** page for a catalog category or structure type, or the **Categories** page for a change object), click the Display Formats link.

Note: On the change management **Categories** page, click the Display Formats icon in the row of the category for which you wish to create a display format.

3. On the **Display Formats** page, click Create.
4. On the **Create Display Format** page, provide the name and a description for the display format. Also, select the number of rows you want to display per page.

You can set this display format as the default display format for the object by clicking Set as Default. Note that the name of the respective catalog category, structure type, or change category already appears. You have the option of selecting an existing item catalog category, structure type or change category display format, and copying the respective columns with those you wish to add in the new display format.

Specify the columns you want to display in the search results display. Note that you can rename the columns that will appear in your display format by clicking Rename Columns. On the **Rename Columns** page, the original column names that you have already selected are listed. Enter the new column names in the New Column Name field and click Continue.

In the Sort Order section, you can select up to three columns upon which to sort the display results. You can also specify whether or not the search results in these columns be displayed in ascending or descending order. Only indexed and non-secured attributes (attributes that are not secured by a view or edit privilege) are available for sorting. Thus, you cannot sort secured attributes.

Under "Display Sections," you can select which sections will be displayed in your search results. Sections are displayed as a column containing an icon with a direct link to the section. For example, to include an Attachments link on your search results page, select Attachments from the Available List and move it to the Selected List.

Configuration Management Only: You can include the "Create and Update," "Component Details," and "Reference Designator" attribute groups in the display columns.

5. Click Apply to save your display format definition.

To update an administrator level display format:

1. Administrators can update display formats from the respective catalog category definition page for an item, the structure type definition page for a structure, or change category list page for a change object--all of which are accessible via the Setup Workbench link.
2. From the object's definition page (either the **Basic Information** page for a catalog category or structure type, or the **Categories** page for a change object), click the Display Format link.

Note: On the change management **Categories** page, click the Display Format icon in the row of the category for which you wish to update a display format.

3. On the **Display Format** page, click the name link of the display format you wish to update. You can only edit the display formats that are explicitly associated with the catalog category, structure type or change category originally selected.
4. On the **Edit Display Format** page, you can update the name, description and other columns of the display format. You can also add/remove/rename columns and modify sort criteria.
5. Click Apply to save your display format definition.

Managing User Level Display Formats

Display Formats enable you to predefine search display views. You can use these views to look at different sets of attributes of the items or change objects that are returned by the search. Both administrators and users can create display formats. Administrator-created display formats are available to all users. User-created formats are available only to the users who created them.

To create a user level display format:

1. Navigate to the Advanced Search link from the search sandbox that appears at the top of most Item Catalog and Change Management pages. You can also navigate to the Advanced Search link in the Items and Change Management sections of the Applications tree menu.
Note: To create display format for a structure, go to the **First Level Components** or **Structure Component Hierarchy** page for the item structure and click Personalize (in Display Formats).
2. On the **Advanced Search** page, select an Item Catalog Category or Change Category (whichever is appropriate for your context) and click Go.
3. Click Personalize in the Display Format section.
4. On the **Display Format** page, click Create.
5. On the **Create Display Format** page, provide the name and a description for the display format. Also, select the number of rows you want to display per page.

You can set this display format as the default display format for the object by clicking Set as Default. Note that the name of the respective catalog category, structure type, or change category already appears. You have the option of selecting an existing item catalog category, structure type or change category display format, and copying the respective columns with those you wish to add in the new display format.

Specify the columns you want to display in the display results. Note that you can rename the columns that will appear in your display format by clicking Rename Columns. On the **Rename Columns** page, the original column names that you have already selected are listed. Enter the new column names in the New Column Name field and click Continue.

In the Sort Order section, you can select up to three columns upon which to sort the display results. You can also specify whether or not the results in these columns be displayed in ascending or descending order. Only indexed and non-secured attributes (attributes that are not secured by a view or edit privilege) are available for sorting. Thus, you cannot sort secured attributes..

Under "Display Sections," you can select which sections will be displayed in your search display results. Sections are displayed as a column containing an icon with a direct link to the section. For example, to include an Attachments link on your search results page, select Attachments from the Available List and move it to the Selected List.

6. Click Apply to save your display format definition.

To update a user level display format :

1. Navigate to the Advanced Search link from the search sandbox that appears at the top of most Item Catalog and Change Management pages. You can also navigate to the Advanced Search link in the Items and Change Management sections of the Applications tree menu.

Note: To create display format for a structure, go to the **First Level Components** or **Structure Component Hierarchy** page for the item structure and click Personalize (in Display Formats).

2. On the **Advanced Search** page, select an Item Catalog Category or Change Category (whichever is appropriate for your context) and click Go.
3. Click Personalize in the Display Format section.
4. On the **Display Formats** page, click on the name link of the display format you wish to update. You can only edit the display formats that are explicitly associated with the catalog category, structure type or change category originally selected.
5. On the **Edit Display Format** page, you can update the name, description and other columns of the display format. You can also add/remove/rename columns and modify sort criteria.
6. Click Apply to save your display format definition.

Item Catalog Administration

Item Catalog Administration Overview

To navigate to all Item Catalog Administration help topics:

1. Select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management.
2. Select the Administration folder, and then click the Item Catalog folder.

Searching for Item Catalog Categories

You can search for item categories by entering search criteria for a category name, description, or parent category.

To search for item categories:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search and Select: Catalog Categories** page, enter your search criteria.
Note: When you enter a search string, the wildcard character "%" is appended to the input. For example, entering "mem" enters the search string "mem%", so that the "memory" catalog category could be returned in the search results. If you wish to search for entries that end with a particular string, such as "log", you can type in "%log", and all entries ending in "log" are returned. If you do not enter a search string in the text box, an error is returned.
3. If your search criteria is Catalog Category or Parent Catalog Category, you can also click the hierarchy icon (three linked folders to the right of the Go button) to select your Catalog Category.
4. On the **Catalog Category Hierarchy** page, navigate through the catalog category hierarchy, click the radio button next to your category and then click Select. The selected category is added to the text field on the **Search and Select: Catalog Categories** page.
5. Click Go to display the search results.

Creating Item Catalog Categories

Item catalog categories provide metadata common to all items that share the category. For example, the item catalog category "Engine" describes attributes, functions and other characteristics common to several item numbers, such as Engine M10000 and Engine M20000.

Note: Item catalog categories are hierarchically structured, with characteristics (attribute groups, functions, pages, lifecycles, criteria templates, and result formats) being inherited throughout the hierarchy.

When you create a new item catalog category that does not have a parent node (meaning it is a top node), APC associates all base attribute groups and pages with the item catalog category. You cannot delete the attribute associations, but you can delete the pages. When you create a new item catalog category that has a parent node, all base attributes and pages are inherited from the parent. If a page is deleted at the parent node, then it is also deleted within all its child nodes. So if you wish to display pages in a particular item catalog category, but they have been deleted at the parent node, you must explicitly add them in the child item catalog category.

For a complete listing of the base (or main) attributes associated with new item catalog categories, see "Item Attributes Listed by Group Name" in the *Oracle Inventory User Guide*.

The following pages are configured for all new item catalog categories:

- Physical Attributes
- Sales and Order Management
- Planning
- Purchasing
- Inventory
- Manufacturing
- Service

To create an item catalog category:

1. On the item **Search: Item Catalog Categories** page, click the Create Item Catalog Category link.
2. On the **Create Item Catalog Category** page, enter the following:

Catalog

Defines the category name. The number of segments (and respective labels) for item catalog category depends on how the item catalog group flexfield is defined in Oracle Inventory setup.

<Key Flexfield>

All administrators have a key flexfield available for use in the "Catalog Category" section of the Create Catalog Category page. The heading and function of this field is determined by the administrator. The key flexfield is case insensitive.

Note: Any leading or ending white spaces in the key flexfield segments are trimmed automatically.

Description

Optionally enter a brief description of the item catalog category.

Parent Item Catalog Category

Specify the immediate parent of the item catalog category being created, thereby determining the item catalog category hierarchy.

Default Template

Optionally specify an item template to use to populate the **Create Item** page for any item of the item catalog category being created. On the **Create Item** page, you can modify the template to be applied upon item creation or choose not to apply a template.

Item Creation Allowed

Select to specify that items of the item catalog category can be created (if you do not select, the category only serves the purpose of being a placeholder in the catalog hierarchy). If item creation is not allowed, the category will typically specify characteristics (attribute groups, etc.) that are inherited by its descendants.

Inactive On

Optionally specify a date on which the item catalog category will become inactive. You cannot specify an inactive date that is later than the inactive date of an item catalog category's parent, nor can you specify an inactive date that has already passed. Also, all children of a parent catalog category with an inactive date should be made inactive at the same time or earlier. Making a category inactive has the following implications:

- You cannot create items of that item catalog category or any of its descendants.
- You cannot use that item catalog category or any of its descendants as the parent catalog category upon creation of an item catalog category.

3. Click Apply.

Updating Item Catalog Categories

It is likely that you will have to update item catalog categories at some point--you may need to change a category so that it can be used for item creation, or modify the inactive date so that the category will no longer be used. Often, users simply need to correct a mistake or reclassify the category due to shifting relationships within the catalog category hierarchy.

To update a catalog category:

1. On the **Search: Item Catalog Categories** page, search for the item catalog category you wish to update and click the corresponding link.
2. On the **Basic Information** page for the item catalog category, click Update.
3. On the **Edit Item Catalog Category** page, enter the following information:

Item Catalog Category (required)

Defines the category name. The number of segments (and respective labels) for catalog category depends on how the item catalog group flexfield is defined in Oracle Inventory setup.

<Key Flexfield>

All administrators have a key flexfield available for use in the "Catalog Item Category" section of the **Create Item Catalog Category** page. The heading and function of this field is determined by the administrator. The key flexfield is case insensitive.

Note: Any leading or ending white spaces in the key flexfield segments are trimmed automatically.

Description

Optionally enter a brief description of the catalog category.

Parent Catalog Category

If at any time a parent catalog category has been created for this item catalog category, then you cannot leave this field blank. In other words, once you have defined a parent for an item catalog category, you always have a parent catalog category. Also, if a parent catalog category has already been defined, then you can only choose the current parent catalog category, its siblings, or its sibling's children as a parent catalog category.

Default Template

Optionally specify an item template to use to populate the Create Item page for any item of the catalog category being created. On the Create Item page, you can modify the template to be applied upon item creation or choose not to apply a template.

Item Creation Allowed

Select to specify that items in the item catalog category can be created (if you do not select, the category only serves the purpose of being a placeholder in the catalog hierarchy). If item creation is not allowed, the category will typically specify characteristics (attribute groups, etc.) that are inherited by its descendants.

Inactive On

Optionally specify a date on which the item catalog category will become inactive. You cannot specify an inactive date that is later than the inactive date of a catalog category's parent, nor can you specify an inactive date that has already passed. Thus, all children of a parent catalog category with an inactive date should be made inactive at the same time or earlier. Making a category inactive has the following implications:

- You cannot create items of that catalog category or any of its descendants.
- You cannot use that catalog category or any of its descendants as the parent catalog category upon creation of a catalog category.

Note: After you've updated an inactive date, the change propagates to all of the catalog category's children.

4. Click Apply.

Managing Import Formats

To import items and item revisions from Oracle Advanced Product Catalog into an Excel spreadsheet, you must use an import format. An import format identifies the base and user attributes in an item catalog category that will be imported into the spreadsheet. Consequently, when you import items from an Excel spreadsheet, the items are all imported to a particular item catalog category defined in the import format. These imported items inherit all the attribute groups defined for the specific item catalog category. You can also copy, update and delete import formats.

You can define import formats for both items and item revisions

Import formats are always created in the context of a particular item catalog category.

If users do not select an item catalog category when importing items or item revisions, the default System Item import format is available for use. If an import format has not yet been defined for an item catalog category that a user selects, then the default System Item import format is available for use. The System Item import format does not appear if a user selects an item catalog category that already has import formats defined. You cannot modify the System Item import format.

Items uploaded to Advanced Product Catalog from a spreadsheet become, by default, Engineering items. If you wish to upload a non-Engineering item, then include an available base attribute column called "Engineering Item Flag" in your import format. When uploading the spreadsheet identify such items in this column by specifying the value "Yes" or "No" in this column. If you leave the column blank, the item once again defaults to an Engineering item.

To create an item import format:

1. In the Applications tree menu, click the Setup Workbench link.
2. On the **Search: Catalog Categories** page, locate the item catalog category for which you wish to create the import format, and click its name link.
3. On the **Basic Information** page for the item catalog category, click the Import Formats link.
4. On the **Import Formats** page, click Create.
5. On the **Create Import Format** page, provide the following information:

Name

Provide the name of the import format you are creating for the item catalog category.

Description

Provide a description of the import format.

Set as Default

Select the checkbox if you wish for this import format to be the default import format for the item catalog category in which it is created.

Note: There can be only one default import format for each item catalog category.

Import

Select the object for which the import format is being created. Item is the default. If you select Item Revision, notice that the base attributes listed in the Available Columns table below now display the base attributes of the item revision rather than those of the item.

6. Click Go after selecting the Import object (item, item revision).
7. After the **Create Import Format** page refreshes, specify the columns/attributes you want to display in the import format. Note that you can rename the columns that will appear in your import format by clicking Rename Columns. On the **Rename Columns** page, the original column names that you have already selected are

listed. Enter the new column names in the New Column Name field and click Continue.

If there are more columns/attributes than can be easily scrolled in the list, you can filter the list by providing the attribute group and clicking Go, or providing the attribute name and clicking Find.

Note: You can select either single or multi-row attributes to include in the import format.

8. Click Apply

To copy an import format:

1. Repeat steps 1-4 in the create import format, page 2-5 task.
2. On the **Import Formats** page, locate the import format you wish to copy and click its Copy icon in the Copy column.
3. On the **Copy Import Format** page, note that a new name is defaulted, as well as the description. You can change either, and also add or remove attributes in the Available Columns and Columns Displayed.

Note that you can rename the columns that will appear in your import format by clicking Rename Columns. On the Rename Columns page, the original column names that you have already selected are listed. Enter the new column names in the New Column Name field and click Continue.

If there are more columns/attributes than can be easily scrolled in the list, you can filter the list by providing the attribute group and clicking Go, or providing the attribute name and clicking Find.

Note: You can select either single or multi-row attributes to include in the import format.

4. Click Apply.

To update an import format:

1. Repeat steps 1-4 in the create import format, page 2-5 task.
2. On the **Import Formats** page, locate the import format you wish to update and click its name link.
3. On the **Edit Import Format** page, you can change the name, description, default setting and add or delete attributes/columns as needed.

Note that you can rename the columns that will appear in your import format by clicking Rename Columns. On the **Rename Columns** page, the original column names that you have already selected are listed. Enter the new column names in the New Column Name field and click Continue.

If there are more columns/attributes than can be easily scrolled in the list, you can filter the list by providing the attribute group and clicking Go, or providing the attribute name and clicking Find.

Note: You can select either single or multi-row attributes to include in the import format. Also, you cannot modify the System Item import format.

4. Click Apply.

To delete an import format:

1. Repeat steps 1-4 in the create import format, page 2-5 task.
2. On the **Import Formats** page, locate the import format you wish to delete, select it and click Delete.

Managing Item Statuses

An item status is assigned to a lifecycle phase; in fact, each lifecycle phase can have multiple item statuses associated with it. You should create item statuses, or edit item statuses appropriately before associating them with lifecycle phases.

To create an item status:

1. On the **Search: Item Catalog Categories** page, click the Lifecycle Phases tab.
2. On the **Search: Lifecycle Phases** page, click the Item Statuses link.
3. On the **Search: Item Statuses** page, click the Create Item Status link.
4. On the **Create Item Status** page, provide the following information:

Status

The name of the item status.

Description

The description of the item status.

Inactive Date

The date on which the item status is no longer valid and available for use.

5. Select the Value checkboxes that correspond to the attributes that you wish to associate with the item status.
6. Click Apply.

To edit an item status:

1. In the Applications tree menu, click the Setup Workbench link.
2. On the **Search: Item Catalog Categories** page, click the Lifecycle Phases tab.
3. On the **Search: Lifecycle Phases** page, click the Item Statuses link.
4. On the **Search: Item Statuses** page, select the item status that you wish to edit.
5. On the **Item Status Details** page, click Update.
6. On the **Edit Item Status** page, update the Description, Inactive Date, or, select an attribute you wish to apply.
7. Click Apply.

Browsing the Item Catalog Category Hierarchy

Item catalog categories are structured hierarchically. You can expand and collapse levels in the hierarchy to view the current structure of your catalog.

To browse the item catalog category hierarchy:

1. On the **Search: Item Catalog Categories** page, click the Catalog Hierarchy link.
2. On the **Hierarchy: Item Catalog** page, click the arrow icons to expand or collapse levels of the hierarchy.
3. Click the focus icon next to the desired item catalog category to display it at the top level.
4. Click an item catalog category link to view the corresponding **Basic Information** page.

Assigning People to an Item Catalog Category

Roles assigned to people for an item catalog category determine the set of privileges that the assignee will have on items of that item catalog category. There are two sets of role assignments for an item catalog category:

Catalog People

Roles specified under "catalog people" apply at the item catalog category level. For example, the role "Item Catalog Category User" grants the assignee the ability to create items of that catalog category.

Item People

Roles specified under "item people" for a given item catalog category are propagated to any item of that item catalog category.

To assign people to a catalog category:

1. On the **Search: Item Catalog Categories** page, locate the desired item catalog category and click its corresponding name link.
2. On the **Basic Information** page for the item catalog category, click the People link.
3. On the **People** page, in the "Item Catalog Category People" section, click Update to assign people to the item catalog category.
4. On the **People For** page, click Add People to create an empty row on the table.
5. Select a Role, Type, Name, and Start Date for each person you are adding.
6. Click Apply after all people have been added.
7. On the **People** page, in the "Item People" section, click the flashlight icon to select the organization to which the item people apply.
8. Click Update to assign item people.
9. On the **People For** page, click Add People to create an empty row on the table.
10. Select a Role, Type, Name, and Start Date for each person you are adding.
11. Click Apply after all item people have been added to the category.

Associating Attribute Groups with an Item Catalog Category

Attribute groups collect characteristics (attributes) that can be used to record specifications or represent the properties of an item belonging to an item catalog

category. Attribute groups can be associated with an item catalog category at the item or item revision levels, thereby determining whether attribute values change over revisions.

Note: Attribute groups inherited from a parent catalog category cannot be deleted at the child catalog category level. Attribute groups can be inherited from a parent catalog category *and* explicitly added to the catalog category itself. Administrators should not associate the same attribute group with an item catalog category in this manner.

To associate an attribute group with an item catalog category:

1. On the **Search: Item Catalog Categories** page, search for the item catalog category, page 2-1 and click its corresponding name link.
2. On the **Basic Information** page of the item catalog category, click the Attribute Groups link.
3. On the **Attribute Groups** page, click Add.
4. On the **Add Attribute Groups to Catalog Category** page, select the attribute groups you wish to associate with an item catalog category. Also select the Data Level for each.
5. Click Apply.

Adding Actions to an Attribute Group

You can associate user-defined actions with an attribute group in the context of an item catalog category. A user-defined action describes a function that, at run-time, can be invoked by the user. Attributes of the attribute group can be mapped to function parameters, so that their values are dynamically passed during function invocation.

To add an action to an attribute group associated with an item catalog category:

1. On the **Search: Item Catalog Categories** page, locate the appropriate item catalog category and click its name link.
2. On the **Basic Information** page, click the Attribute Groups link.
3. On the **Attribute Groups** page, click the Edit Actions icon.
4. On the **Actions** page, click Add.
5. On the **Create Action** page, provide the following information:

Sequence

If there are multiple actions associated with an attribute group, the sequence number determines the order in which they are displayed to the user.

Action Name

The name of the action.

Description

The description of the action.

Function

Associates an existing function with the action. The function has a name, type, and specified parameters.

Security Privilege

The privilege required by a user in order for that user to execute this action.

Execution Method

The manner in which the action is executed.

Display Style

Defines the user interface element that executes the action.

Prompt Application

The application of the prompt for the action if the prompt is defined in the database.

Prompt Message Name

The message name of the prompt if the prompt is defined in the database. Otherwise, the actual prompt.

Dynamic Prompt Function

Selects an existing function whose return value will define the prompt of the action. Must have parameter of type Return, with data type String.

Dynamic Visibility Function

Selects an existing function whose value will determine whether or not the action is rendered.

6. Click Apply.

Setting Up New Item Request Types

Important: Before setting up a new item request type, you must have already defined a workflow template. For details, see *Creating Workflows*, page 4-13.

New Item Request is a seeded Change Management category for which you must define a Type before you can set up new item requests for an item catalog category. For more details, see *Associating New Item Requests with an Item Catalog Category*, page 2-12.

When users create items in item catalog categories that require an item request, the New Item Request Type specified for the item catalog category determines how the request is routed for distribution and approval, and identifies the approvers for the new item. For example, the New Item Request Type determines what item request attributes and sections are available on pages; it determines the valid priorities and reasons available to users; it also determines the valid phases for the request (for example, Open, Approval, and Closed). In essence, the new item request change type defines the process for routing the collection of item attributes and approval requests from various people who are internal (such as Engineering and Manufacturing) or external to your organization (such as Suppliers).

To define a new item request type:

1. On the Change Management **Categories** page in the Setup Workbench, select the New Item Request category and click the New Item Request Types link. When the page refreshes click Create.
2. On the **Create New Item Request Type** page, enter information in the required fields.

The Number Generation field provides the following methods for item number request generation:

Note: The Number Generation field on the **Create New Item Request Type** page applies to the number generation for new item requests, not for new items. Item number generation is defined at the item catalog category level.

- Sequence Generated

If the item request numbering method is sequence generated, then all item number requests will be automatically generated based on the sequence generation rules specified here. You can specify a prefix, starting number, and increment.

- Inherited From Parent

If the item request numbering method is inherited from parent, then the item number request method will be the same as that defined for the parent item catalog category. This numbering method is especially useful in situations where the item request numbering method will be the same in the leaf level nodes as it is in the parent item catalog category.

- User Entered

If the item request numbering method is user entered, then the user is required to manually enter a number for new item requests.

You can set up the default Assignee for all new item requests of this Type in the Default Assigned To section.

3. After creating the New Item Request Type you can continue the setup tasks via the side navigation links on the **Basic Information** page.

Click the Attribute Groups link to associate attribute groups with the New Item Request type.

Click the Pages link to organize the associated attribute groups on one or more **New Item Request** pages.

Click the Codes link to associate valid priorities and reasons for new items that are created with this request type.

Click the Configuration link to select the display sections and primary attributes that you wish to make available for this request type.

Click the Lifecycle link to associate different lifecycle phases with the request type. Click the Properties icon to set up valid phases for promotion, demotion and the associated workflow. Depending on which workflow template that you select, you can then specify the following:

- Allow Updates

Indicates that the item request type will allow updates to the item request while the workflow is running.

- Auto Promote

Indicates that when the workflow completes successfully and all required approvers have approved, the item request will automatically be promoted to the next valid phase.

- Auto Demote

Indicates that when the workflow completes successfully and all required approvers have approved, the item request will automatically be demoted to the previous phase.

- Enable Digital Signature

Indicates that users who are expected to approve or reject the item request must enter their username and password to reauthenticate themselves.

Associating New Item Requests with an Item Catalog Category

Important: Before associating new item requests with an item catalog category, you must set up *both* a workflow template and a new item request type. For details, see *Creating Workflows*, page 4-13 and *Setting Up New Item Request Types*, page 2-10.

You can define a new item approval request for all items created in a particular item catalog category. Defining a new item approval request enables an enterprise to enforce standard business processes during item creation, thereby avoiding costly mishaps, such as duplicate parts. New item approval requests enable your enterprise to have different people from various lines of business help define the many item attributes required during item creation.

You can set up a new item request for an item catalog category to request approval from several people in sequence or parallel. Each person may also be required to enter certain item attributes during the approval process.

To associate new item requests with an item catalog category:

1. On the **New Item Request** page, click Update in the Item Request section and select Yes from the New Item Request Required pop-up menu. Specify the Item Request Type to be used for the new item request. For more details see *Setting Up New Item Request Types*, page 2-10.
2. In the Workflow/Approval section, you can specify which people are required to enter attributes during the workflow process for each lifecycle phase of the new item request. For example, when the new item request is in the Open phase, one person in the workflow may be responsible for some technical specifications associated with the new item being created; another might need to provide details about the new item's safety standards--in this case you would be sure to associate the attribute groups related to technical specifications and safety standards so that the appropriate people can add the information necessary to define all aspects of the new item. You can set up the collection of user-defined attributes during the new item request process for any attribute group associated with the item catalog category.

The Workflow/Approval Routing section associated with each lifecycle phase of the New Item Request determines which Workflow/Approval steps and people are available for entering item attributes during the lifecycle of the request. You can specify the attribute groups that each person in each step of the Workflow/Approval routing is responsible for entering. For more details, see *Creating Workflows*, page 4-13 and *Setting Up New Item Request Types*, page 2-10.

People associated with the Workflow must also have sufficient privileges on the item for which you are creating a request. To ensure the appropriate people have sufficient privileges to view and update the attributes on the item for which they are responsible, you should confirm that they have the appropriate role at the organization or item catalog category level.

Defining Item Templates

Users can specify an *item template* during the item creation process. An item template is a defined set of attribute values used during item creation. When you apply a template to an item, you overlay or default in the set of attribute values to the item definition. For example, every time users in a particular organization create new items, the attributes as defined and approved by the organization appear in the appropriate fields—no user guesswork is required, and much time is saved during the creation of items with a similar form, fit and function.

You can create item templates that contain either the operational attributes for an item, which are visible to all organizations, or user-defined attributes, which are specific to an item catalog category. When you explicitly associate a template with an item catalog category, it is made available for all create and update item actions in that item catalog category. Also, the values for the user-defined attributes that are specified in the template are inherited from parent to child within the particular item catalog category. After creating the item template for use with user-defined attributes, you must associate it with an item catalog category.

For more details about creating item templates that use operational attributes, as well as a listing of the Oracle provided templates, see the *Oracle Inventory User's Guide*.

To define an item template and specify user-defined attributes:

1. On the **Search: Templates** page, click Create.
2. In the Oracle Forms **Find Item Templates** window, click New.
3. Provide the item template name and description, and then specify the operational attributes and the default values. When finished, save the template.
4. In the APC user interface, navigate to the item catalog category to which you wish to associate the new item template and click the Templates link.
5. On the **Templates** page, click Add Template.
6. On the **Add Templates to Item Catalog Category** page, locate the new template, select it and click Apply.
7. On the **Templates** page for the item catalog category, click the item template to which you wish to add user-defined attributes.
8. On the **Update Template** page, select the user-defined attributes you wish to add to the template. You can also make this the default item template for all new items created in this item catalog category by selecting Set as Default. Click Apply.

Defining Item Numbers and Descriptions

You can define new item numbers and descriptions so that they are automatically generated when users create new items. Setting up autonumber generation ensures that new items created in item catalog categories have a consistent numbering scheme. You can set up item number and description generation so that numbers/descriptions are either:

- Sequence generated

If the item request numbering method is sequence generated, then all item number requests will be automatically generated based on the sequence generation rules specified here. You can specify a prefix, starting number, increment, and suffix.

Note: Sequence generation does not apply to Item Description generation--it is for item number generation only.

- Function generated

If the item request numbering/description method is function generated, then all number/descriptions for new items in the item catalog category will be automatically generated based on a custom function. When specifying that an item number/description is function generated, select the function that you want to use, and then map the function parameters to the user-defined attributes that you want included in the item number/description. When you create a new item, users will be prompted to enter the user-defined attributes used in generating the item number/description.

Note: You must have already defined a custom function before using this item number/description generation method. For details, see *Creating User-Defined Functions*, page 7-5.

- Inherited from parent

If the item request numbering/description generation method is inherited from parent, then the item number/descriptions for the items will be generated using the same method as the parent item catalog category.

Note: All item catalog category subcategories have, by default, a number/description scheme that is inherited from parent.

- User entered

If the item request numbering/description method is user entered, then the user is required to manually enter a number or a description for new items.

To define automatic item number/description generation:

1. On the **Basic Information** page of an item catalog category, click either the Number Generation or Description Generation link. On the **Auto Generation** page for the generation method you selected, click Update.
2. On either the **Item Description Generation** or **Item Number Generation** page, select the generation method you wish to use and fill in the required fields.

Creating Parameter Mappings for an Action

After creating an action, you should specify the values that will be passed to its associated functions when that action is executed. You can have up to three associated functions: the main function, the dynamic prompt function and the dynamic visibility function.

To create parameter mappings for an action:

1. On the **Actions** page, click the name of the action you just created.
2. On the **Action Details** page, within the appropriate function heading, click Edit.
3. On the **Create Mappings** page, for each function parameter select the following:

Mapping Group Type

The type of attribute that will be mapped to this parameter.

Mapped Attribute

The actual attribute that is mapped. Only attributes with the data type that matches the parameter data type are available.

4. Click Apply.

Creating Pages for an Item Catalog Category

Item pages provide a mechanism to customize the user interface. The administrator can combine and sequence attribute groups into pages. There is no limit on the number of attribute groups associated with a page. However, attribute groups contained in a page must have the same association level, for example, they must all be "item level" or "item revision level" attribute groups.

Note: Pages inherited from a parent catalog category cannot be deleted at the child catalog category level. Pages can be inherited from a parent catalog category *and* explicitly added to the catalog category itself. Administrators should not associate the same pages with an item catalog category in this manner.

To create a page for an item catalog category:

1. On the **Search: Item Catalog Categories** page, search for the item catalog category, page 2-1 and click its corresponding name link.
2. On the **Basic Information** page for the item catalog category, click the Item Pages link.
3. On the **Item Pages** page, click Add.
4. On the **Create Item Catalog Category Page** page, enter the following:

Display Name

Enter the name to be displayed in the user interface.

Internal Name

Enter the internal name. The internal name cannot be updated once a page has been created.

Description

Enter a description of the catalog category page.

Sequence

Enter the sequence number. For each page associated with a catalog category, a corresponding link is displayed to the user on the Item Detail page. The sequence number determines the order for the page links on the **Item Detail** page.

Data Level

Select Data Level and click Go. The data level constrains applicable attribute groups. The data level cannot be updated after a page has been created.

Note: If you change the data level after you have already associated attribute groups with a page, those attribute groups will no longer be associated with the page.

5. Click Add Another Row if you wish to add an attribute group to the page being created.
6. Click Apply.

Managing Lifecycle Phases

Lifecycle phases can have multiple item statuses. Potential item statuses should be defined and edited appropriately before they are associated with a lifecycle phase.

To edit a lifecycle phase:

1. In the Application tree menu, click the Setup Workbench link.
2. On the **Search: Item Catalog Categories** page, click the Lifecycle Phases tab.
3. On the **Search: Lifecycle Phases** page, click the lifecycle phase you wish to edit.
4. On the **Phase Details** page, click Update.
5. On the **Edit Phase Details** page, provide the following information:

Item Status

The valid item status associated with a phase. You can specify more than one. If no item status is associated, then there is no default item status. When you specify the first item status, that value becomes the default. If you delete your default item status, then the next item status in the list becomes the default. To add a new item status, click Add Another Row. To make that new item status the default, click the default icon in the Default column.

6. Click Apply.

Associating Lifecycles with an Item Catalog Category

You can associate any number of lifecycles with an item catalog category. During creation of an item belonging to the item catalog category, you can choose the applicable lifecycle for the item from the set of lifecycles associated with the item catalog category.

Note: Lifecycles inherited from a parent catalog category cannot be deleted at the child catalog category level. Lifecycles can be inherited from a parent catalog category *and* explicitly added to the item catalog

category itself. Administrators should not associate the same lifecycle with an item catalog category in this manner.

To associate a lifecycle with an item catalog category:

1. In the Applications tree menu, click the Setup Workbench link.
2. On the **Search: Item Catalog Categories** page, search for the item catalog category, page 2-1 and click its corresponding name link.
3. On the **Basic Information** page for the item catalog category, click the Lifecycles link.
4. On the Lifecycles page, click Add.
5. On the **Search and Select: Lifecycles** page, select the lifecycle you wish to associate with the item catalog category.
6. Click Apply.

Adding Attachment Categories to an Item Catalog Category

By adding attachment categories, you can classify all attachments that you add to specific item catalog categories. If no attachment categories are specified for an item catalog category, and none are inherited from its parent catalog category, you always have the option of using the attachment category "Miscellaneous."

Note: Attachment categories inherited from a parent catalog category cannot be deleted at the child catalog category level. Attachment categories can be inherited from a parent catalog category *and* explicitly added to the catalog category itself. Administrators should not associate the same attachment category with an item catalog category in this manner.

The following attachment categories are available for all item catalog categories:

- CADView-3D Model
- Description
- Image
- Item Internal
- Miscellaneous
- To Buyer
- To Supplier
- To Receiver
- To Mobile Picker
- To Mobile Putaway
- To Mobile Receiver

To add an attachment category to an item catalog category:

1. On the **Search: Item Catalog Categories** page, locate the item catalog category to which you wish to attach an attachment category.

2. On the **Basic Information** page of the item catalog category, click the Attachment Categories link.
3. On the **Attachment Categories** page, click Add.
4. On the **Search and Select: Attachment Categories** page, select an attachment category from the list. You can also search within the list for a specific attachment category and then select it.
5. Click Apply.

Deleting Attachment Categories from an Item Catalog Category

To delete an attachment category from an item catalog category:

1. On the **Search: Item Catalog Categories** page, locate the item catalog category from which you wish to delete an attachment category.
2. On the item catalog category's **Basic Information** page, click the Attachment Categories link.
3. On the **Attachment Categories** page, select the attachment categories you wish to remove from the item catalog category.
4. Click Delete.

Managing Item Change Policies

Important: Before defining an item change policy you must first define a lifecycle and its phases, and then associate it with an item catalog category. For more details see *Managing Lifecycle Phases*, page 2-16 and *Associating Lifecycles within an Item Catalog Category*, page 2-16.

Administrators can define and update item change policies for item catalog categories. These item change policies determine the rules for how and when an item's attributes, attachments, and associations are changed. For example, a company manufacturing an engine that has hundreds of specifications may wish to define item change policies for the different phases of development. So when the engine is in the concept or design phase, many of the attributes are allowed to change without formal approval, and the lifecycle policy is not very restrictive. When the engine progresses to the prototype phase, the company might wish to place all attributes, attachments, and associations under stricter change control, perhaps requiring a change order for all modifications. Later, when the engine is in the production phase, the company will likely want every facet of the engine's production under tight control.

Defining item change policies enables a company to:

- Specify whether or not item changes are allowed in a particular lifecycle phase of an item lifecycle
- Specify what types of changes (attributes, attachments, associations, structures) are allowed for an item in each lifecycle phase
- Specify whether or not a change order is required to make particular changes to an item in a specific lifecycle phase

Note: Change policies inherited from a parent catalog category cannot be edited at the child catalog category level.

If you do not define a change policy for an item, then by default changes are allowed in all lifecycle phases.

Item change policies only take effect after the item has been Approved.

To define or update an item change policy:

1. On the **Search: Item Catalog Categories** page, search for the item catalog category, page 2-1 for which you would like to define an item change policy, and click its name link.
2. On the **Basic Information** page for the item catalog category, click the Lifecycles link.
3. On the **Lifecycles** page, locate the lifecycle for which you wish to define a change policy. If no lifecycles are listed, associate the lifecycle for which you wish to define item change policies.

Select the item change policy (for attributes, associations, attachments, structures) you wish to define for the selected lifecycle, and then select the lifecycle phase.

4. On the **Update Change Policy for Attributes** (Associations, Attachments, or Structures) page, select the appropriate attribute group (association or attachment category) and the change policy you wish to apply for the particular phase. The valid change policies are:
 - Allowed
 - Not Allowed
 - Change Order Required

Important: Before establishing a change policy for attributes or attachments, you must first associate the attribute group or attachment category with the item catalog category.

You can switch back and forth among the various lifecycle phases via the tabs on the **Update Change Policy for Attributes** (Associations or Attachments) page.

Optimizing the Item Catalog Text Index

As item data changes over time due to ongoing item insert, delete, or update operations, the query response time may gradually decrease. Optimizing the index using the Optimize Item Catalog Text Index concurrent program removes old data and minimizes index fragmentation, and therefore can improve query response time.

The Item Catalog Text Index should be optimized:

- After the import of many items
- After deleting or updating of many items
- On a regular basis (it is recommended that you do this at regular intervals--for example, twice a week)
- When you notice slow performance for item simple search

Note: This program optimizes at most 16,000 items per single run. To continue optimizing more items, re-run the program.

To optimize the catalog text index:

1. In the Applications tree menu, click the "View Concurrent Requests" forms link.
2. In the **Find Requests** form, click Submit a New Request.
3. In the **Submit a New Request** form, select Single Request and click OK.
4. In the **Submit Request** form, select Optimize Item Catalog Text Index from the Name list of values.
5. In the **Parameters** form, provide the Program parameter values:

FAST

This optimization method compacts fragmented rows. However, old data remaining from deleted rows is not removed.

FULL

This method both compacts rows and removes old data (for example, performs garbage collection).

Maximum Optimization Time

Specify the maximum optimization time, in minutes, for FULL optimize.

If you do not enter a value, the program runs until the entire index is optimized. If you specify a maximum time, the program performs as much work as allowed by the imposed time limit. The optimization picks up and continues the next time the program is run. When you specify 0 for maximum time, Oracle performs minimal optimization.

6. Click Submit.

Associating Report Templates with an Item Catalog Category

Important: Before associating Report Templates you must first create Report Templates using XML Publisher Administration responsibility.

Report Template is the framework of your final Item report. It contains the item attributes and its layout. Report templates are created for various purposes. For example, Report template for a data sheet will be different from the template created for Item RoHS material specifications report or for GDSN Attributes. Depending upon their use, report templates can be associated with an Item Catalog Category. You can associate more than one Report template to an Item Catalog Category.

Note: Report Templates inherited from a parent catalog category cannot be deleted at the child catalog category level. Report templates can be inherited from a parent catalog category and explicitly added to the catalog category itself.

To associate a Report Template to an Item catalog category:

1. Locate the Item catalog category to which you want to associate the Report Template.
2. On the **Item Catalog Category: Basic Information** page, click Report Template.

3. Click Add
4. Select the Report Template you want to associate to the Item Catalog Category.
5. Click Apply.

GDSN Administration

Important: To use GDSN Administration, you must have licensed Oracle Product Data Synchronization for GDSN and UCCnet Services. You must also set the "EGO GDSN Enabled" profile option to Yes.

Managing the Default GDSN Catalog

Product Data Synchronization for GDSN and UCCnet Services includes a new GDSN Syndication functional area. Associate a Catalog to this functional area per the GDSN data pool requirement. For example, for the UCCnet data pool, associate a Catalog containing UDEX Categories. Associate an existing catalog, which you are currently using, or create a new catalog.

To associate a default Catalog to a GDSN Syndication functional area:

1. Navigate to the Catalogs tab in the Setup workbench.
2. Click Default Catalogs.
3. Click Update.
4. For the GDSN functional area, select a default Catalog and click Apply to save it.

Managing the Included GDSN Attribute Groups

Product Data Synchronization for GDSN and UCCnet Services includes 27+ attribute groups containing 150+ GDSN attributes. Update the default setup of these attributes to match your business processes.

Update the following attribute details:

- Display Name
- Sequence
- Tip
- Enabled
- Required
- Display
- Indexed
- Unit of Measure
- Value set name
- Default Name

You cannot delete the included attributes.

To update a GDSN Attribute within a GDSN Attribute group:

1. Navigate to the Items tab in the Setup workbench.
2. Click the Attributes sub-tab.

3. Find attribute group by name, description, internal name and type. The Attribute Group type for GDSN attributes is 'Item GTIN Single Row Attributes' or 'Item GTIN Multi Row Attributes'.
4. Click the Attribute Group name link.
5. You cannot add or delete any attributes.
6. You can update the attribute details mentioned above.

Associating GDSN Attribute Groups to an Item Catalog Category

By default, the GDSN attribute groups, except for the Hardlines and FMCG industry- specific attribute groups, are associated with the Root Item Catalog Category. Delete the association and re-associate attribute groups to a different Item Catalog Category.

In addition, Item pages are created for each Root Item Catalog Category. Delete the Item pages and create or modify existing pages with GDSN attribute groups.

If you plan to send Hardlines or FMCG industry-specific attribute information to your customer, associate those attributes to the Item Catalog Category, and create Item pages to display them. For details on managing attribute group associations, see *Associating Attribute Groups*, page 2-8 with an Item Catalog Category. For details on creating Item pages, see *Creating Pages for an Item Catalog Category*, page 2-15.

Defining GTIN Number Setup

Important: You do not need to have Oracle Product Data Synchronization for GDSN and UCCnet Services to use GTIN functionality. This functionality is generally available in Oracle Advanced Product Catalog.

Define new GTIN numbers so that they are automatically generated. Setting up autonumber generation ensures that new GTINS being created have a consistent numbering scheme. Define a GTIN number as:

- Function-generated

If the GTIN numbering method is function-generated, then all the GTIN numbers are automatically generated based on a custom function. To specify that a GTIN number is function-generated, select the desired function, then map the function parameters to the user-defined attributes that you want to include in the GTIN Number generation scheme. When you create a new GTIN, you are prompted to enter the user-defined attributes used in generating the GTIN Number.

- User-entered

If the GTIN numbering method is user-entered, then the user manually enters a 14-digit number.

To define automatic GTIN Number generation:

1. Navigate to the Items tab in the Setup workbench.
2. Click the GTIN sub-tab.
3. Select the generation method and enter the required fields.

Catalog Administration

Catalog Administration Overview

To navigate to all Catalog Administration help topics:

1. Select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management.
2. Select the Administration folder, and then click the Catalog folder.

Creating Categories

A category is a logical classification of items that have similar characteristics. Before creating a product catalog (also known simply as a catalog), you must have first created the appropriate category.

To create a category:

1. On the **Search: Item Catalog Categories** page, click the Catalogs tab.
2. On the **Search: Catalogs** page, click the Categories tab.
3. On the **Search: Categories** page, click the "Create Category" link.
4. On the **Create Category** page, select a Flex Structure and click Continue.

You must enter a flexfield structure. You can define multiple segment structures for the item categories flexfield structure. Each segment in the structure can have its own display name and its own prompt.

If you choose a multi-segment flexfield structure you can assign a specific meaning to each segment. For example, if you want to group items according to product line and product information, then you can use the first segment to represent product line and the second segment to represent the product.

Note that the categories that you assign to a catalog must have the same flexfield structure as the catalog itself. This is true even if you choose not to validate the category list.

The "Category" section of the **Create Category** page is refreshed and populated with fields defined by the flexfield structure you have chosen. Provide the information in the remaining fields of the "Category" section.

5. In the "Category Details" section, provide the following information:

Description

Enter a meaningful description of the category.

Inactive on

Select an inactive date for this category. As of the inactive date, you can no longer assign this category:

- As the default category of a new catalog
- As a valid category of a catalog
- To an item
- As a valid category of an item catalog category

You cannot set the inactive date to a date in the past. However, you can change the inactive date to one that is in the future. You cannot assign an inactive date to a category that is the default for a mandatory catalog set.

Iprocurement

The default is disabled (unchecked); this field cannot be modified unless the category is the default category for the purchasing functional area.

Viewable By Supplier

The default is enabled (checked); this field cannot be modified unless it is the default category for the purchasing functional area.

6. Click Apply

Creating Catalogs

Before creating a catalog, it is a good idea to first understand its purpose and function. It may be easiest if you first understand what makes up an item catalog. The item catalog basically contains all items defined for your company or organization. Item catalogs are hierarchical, and relationships between the various item catalog categories (such as an item's catalog category attributes) are inherited. Catalogs are also hierarchical; however, relationships between the categories are not inherited. Instead, relationships between the categories are explicitly defined by the administrator. A catalog contains some user-defined subset of items that exist in the item catalog. The following table highlights some of the key differences between an item catalog and a catalog.

Important: *Category sets* (in Oracle Inventory) are now available for use in Advanced Product Catalog as *catalogs*. You can add people to catalogs and enable them to browse. You can also create a hierarchy to reflect the category set taxonomy (which now appears in Advanced Product Catalog as a flat list using categories and subcategories).

Functional Comparison of forms "Item Catalog" and APC "Catalog"

Area of Comparison	Item Catalog	Catalog
Purpose	Set up all item-level attributes, lifecycles, attachment categories, etc.	Create taxonomies related to lines of business (such as Assets, Purchasing, Service, etc.)
Contains	All items	Logical subsets of items that are typically based on lines of business
Security	Control inherited roles for items	Control access to catalog (basically, who can view or edit the catalog)
Lifecycle	Set up valid lifecycles for items	N/A
Business Intelligence	N/A	Intelligence reports based on catalog taxonomy

Before creating a catalog, you should have already created the necessary categories. Note that a category is a logical classification of items that have similar characteristics, while a catalog is a distinct grouping scheme and consists of categories.

To create a catalog:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search: Item Catalog Categories** page, click the Catalogs tab.
3. On the **Search: Catalogs** page, click the "Create Catalog" link.
4. On the **Create Catalog** page, provide the following information:

Name

Enter the name of the catalog.

Description

Enter a meaningful description of the catalog. A description is required here so that users can browse the catalog by either the name or description.

Flex Structure

Select a flexfield structure. Flexfield structures contain multiple segment structures for the product catalog flexfield; each segment structure has its own display prompts and fields.

When you install Oracle Advanced Product Catalog, Oracle provides two flexfield structures by default: Item Categories and PO Item Category. You can define your own segment structures that have their own display prompts and fields.

Note that the categories that you assign to a catalog must have the same flexfield structure as the catalog itself. This is true even if you choose not to validate the category list.

Controlled At

Select one of the two available control levels.

- *Item*

Items assigned to this catalog have the same catalog category value in all organizations in which the item is assigned.

- *Organization Item*

Important: Once you assign the control level to the Organization Item level, you cannot change it back to Item level.

Default Category

Select a default category. This is the default category used when you assign an item to a catalog. You can override the default category and replace it with a more relevant category for each item.

Allow Multiple Item Category Assignments

Selecting this checkbox indicates that an item can be assigned to multiple categories within this catalog. If you do not select this checkbox, an item can be assigned to exactly one category in the catalog.

Note: If you select this checkbox, you can assign multiple items to multiple categories within this catalog, but if multiple assignments exist, then you cannot deselect this checkbox until you delete the assignments and are left with only one.

Enforce List of Valid Categories

Select this checkbox if you wish to assign items only to those categories defined as valid categories for this catalog. When selected, the default category is automatically added to the list of valid categories for this catalog. If you do not select this checkbox, then you can assign an item to any defined category that uses the same flexfield structure as this catalog.

You can specify flex structures for both category sets and categories. You can also associate different categories with a category set; if you do this, they must share the same flex structure. However, this does not make a valid category set. The category set and category must also be associated. Once the catalog and category set share the same flex structure and are associated, you have a valid category set.

Enable Hierarchy for Categories

Selecting this checkbox enables you to define explicit hierarchies of categories within a catalog. Once made, you cannot revise this selection.

5. Click Apply.

Assigning a Category to a Catalog

You can assign different categories to a catalog; however, the only categories that you can assign to this catalog are categories with the same flexfield structure as the catalog. When you assign a category to a catalog, you can also define a hierarchical category structure, page 3-5.

To assign a category to a catalog:

1. On the **Search: Item Catalog Categories** page, click the Catalogs tab.

2. On the **Search: Catalogs** page, select the catalog to which you wish to assign a category.
3. On the **Basic Information** page for the catalog, click the "Categories" link.
4. On the **Categories** page, click Add Category.
5. On the **Search: Categories** page, locate the category you wish to assign to the catalog. Note that you search for the category by Name, Description, Flex Structure or Inactive On date. Select the category and click Apply.

Creating a Category Hierarchy within a Catalog

You can define a hierarchy of categories within the context of a catalog, thereby making it easier to browse all the categories within a particular catalog. Creating category hierarchies within a catalog eases use because you are logically grouping categories even further within the context of a catalog. You can define multiple hierarchies within a catalog.

When you define a hierarchy, you add categories to a catalog. You can choose to add a category as a top level category, or as a child of an existing category. Note that the categories appearing in the category list all have the same flexfield structure as the catalog.

To create a category hierarchy within a catalog:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search: Item Catalog Categories** page, click the Catalogs tab.
3. On the **Search: Catalogs** page, select the catalog in which you wish to create a category hierarchy.
4. On the **Basic Information** page for the catalog, click the "Categories" link.
5. On the **Categories** page, you can add a parent category by clicking Add Category, or you can add sub-categories by selecting an existing category and then selecting Add Sub-category from the Actions pulldown.
6. On the **Search: Categories** page, locate the category you wish to assign as a sub-category. Select the category and click Apply.

Updating a Category Hierarchy within a Catalog

You can update a category hierarchy within a catalog by changing parent categories in the list of categories for that catalog.

Note: You cannot assign the parent category of a valid category to a child (also known as a descendant) because it would create loops in the hierarchy.

To update a category hierarchy within a catalog:

1. On the **Search: Item Catalog Categories** page, click the Catalogs tab.
2. On the **Search: Catalogs** page, select the catalog in which you wish to update the category hierarchy.
3. On the **Basic Information** page for the catalog, click the "Categories" link.

4. On the **Categories** page, select the name link of the category whose parent category you wish to update.
5. On the **Category Details** page, click Update.
6. On the **Edit Catalog Category** page, select a new Parent Category, and then click Apply.

Deleting a Category from a Catalog

You can delete categories from a catalog as long as you have not already assigned items to it. In other words, if you have already assigned items to a category within a catalog, then you cannot delete the category.

To delete a category from a catalog:

1. On the **Search: Item Catalog Categories** page, click the Catalogs tab.
2. On the **Search: Catalogs** page, select the catalog in which you wish to delete a category.
3. On the **Basic Information** page for the catalog, click the "Categories" link
4. On the **Categories** page, select the category that you wish to delete, and then select Delete from the Actions pulldown.
5. Click Go.

Assigning People to a Catalog

Depending on their assigned role, people can assign items to a catalog, update the catalog hierarchy, or view the catalog hierarchy. You can assign either of the following roles to people in a catalog:

Catalog Manager

The Catalog Manager role enables users to edit the catalog hierarchy and also enables them to assign items to this catalog.

Catalog Viewer

The Catalog Viewer role enables users to view the catalog hierarchy, but they cannot edit or assign items to it.

To assign people to a catalog:

1. On the **Search: Item Catalog Categories** page, click the Catalogs tab.
2. On the **Search: Catalogs** page, select the catalog to which you wish to assign people.
3. On the **Basic Information** page for the catalog, click the "People" link.
4. On the **People** page, click Update. After the page refreshes, click Add People.
5. After the **People** page refreshes, select a person, specify the role to assign to the person, as well as a Start Date and End Date.
6. Click Apply.

Assigning People to a Valid Category

You can assign roles to people on a valid category. Oracle Advanced Product Catalog does not see any privileges or roles for valid categories.

A category is valid when it meets the following two conditions:

- The catalog and category share the same flex structure.
- The catalog and category are associated.

To assign people to a valid category:

1. On the **Search: Item Catalog Categories** page, click the Catalogs tab.
2. On the **Search: Catalogs** page, click on the name of the catalog that contains the valid category to which you wish to assign people.
3. On the **Basic Information** page for the catalog, click the "Categories" link.

Note: The categories that now appear are the valid categories.

4. Click on the name link of the valid category to which you wish to assign people.
5. On the **Category Details** page, click the "People" link.
6. On the **People** page, click Update. After the page refreshes, click Add People.
7. After the **People** page refreshes, select a person, specify the role to assign to the person, as well as a Start Date and End Date.
8. Click Apply.

Change Management Administration

Change Management Administration Overview

To navigate to all Change Management Administration help topics:

1. Select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management.
2. Select the Administration folder, and then click the Change Management folder.

Creating Change Categories

Oracle Advanced Product Catalog provides three base change categories that can be used to create other categories:

- Issues
- Change Requests
- Change Orders

Other change categories provided by APC include:

- Idea
- Attachment Review
- Attachment Approval
- New Item Request (NIR)

You can create your own change categories to manage a variety of issue and change management business processes relevant to your company.

To create a new change category:

1. On the **Categories** page in the Setup Workbench, select any change category and click Duplicate.

Note: Creating new categories by duplicating existing categories enables your enterprise to better control the general change categories in use. It also makes it easier to introduce new categories that are similar to the basic issue, change request and change order categories. Note, however, that duplication is not allowed for the following change categories:

- Attachment Review

- Attachment Approval
 - NIR
2. On the **Duplicate Category** page, change the data in the fields as necessary to create your new category.

Important: When duplicating a change category, all information from the Basic Information section is copied. For new change categories based on existing change order categories, the following seeded line types are copied:

- Item AML changes
- Item attachment changes
- Item attribute changes

Note the following fields:

- **Plural Name**
Enter alphanumeric text to specify the plural of the name that appears in the user interface.
- **Sort Sequence**
Enter a number to specify the tab sequence in which the categories will appear in the user interface.
- **Autonumbering**
If you select the Number Generation method Override at Type Level, then autonumbering must be specified at the Type level, and therefore does not inherit the numbering schema used for the parent change category.

3. Click Apply to complete creation of the new change category.

If, after creating a new change category you wish for the new category to be displayed as a tab in the item workbench, you must create a form function passing the change category name as a parameter, then assign the form function to the appropriate Menu in the user interface, and finally assign the Menu to a Responsibility, which in turn is granted to a user. For more information, see the *Oracle Advanced Product Catalog Implementation Guide*. For more information on Menus and Responsibilities, see the *Oracle Applications Developer's Guide*.

After creating a new change category, you can configure the Header Types, Line Types and Reports. For more details see:

- Managing Change Header Types, page 4-2
- Creating Line Types, page 4-8
- Creating Reports, page 4-13

Managing Change Header Types

Change header types provide enterprises a way to accommodate business processes and classify types of changes within a change category. Advanced Product Catalog change types enable you to configure the following for each change header type:

- **Attribute Groups**

Associate an unlimited number of attribute groups with a change header type.

- **Pages**

Create pages to organize how the associated attribute groups are displayed.

- **Codes**

Set up valid priority and reason codes for specific change header types.

- **Configuration**

Specify which sections (such as Attached Documents or Action Log) and primary attributes (such as Creation Date or Assigned To) are enabled for a change header type.

- **Workflow**

Specify the valid status that an instance of the change type (for example, a change order) must progress through before it is completed or implemented. You can set up multiple workflows and specify whether or not a digital signature is required for any responses (such as an Approval).

- **Organization Policies**

For change orders only. You can specify task templates and propagation rules by organization. You can group a set of change tasks (defined in a task template) to be performed during or between certain statuses of the change type's workflow. You can also specify whether or not all or some of these tasks are mandatory. A propagation rule enables you to specify an organizational hierarchy to propagate the change order, including all associated revised items and tasks. The propagation rule can be executed automatically when the change order enters a specific status.

To create a change header type:

1. On the **Categories** page in the Setup workbench, select a change category and then click the Header Types tab.
2. If you already know of a similar header type, select it and click Duplicate. Otherwise, click Create.
3. On the **Create <Change Category Name>Type** page, note the following fields:

- **Number Generation**

Select a number generation method.

Note: To enable autonumbering, you must enter both a prefix and next available number.

- **Inherit From Parent**

If the change header type numbering method is inherited from parent, then the change header type number generation method will be the same as that defined for the parent change category.

- **Sequence Generated**

If the change header type numbering method is sequence generated, then all change headers will be automatically generated based on the sequence

generation rules specified here. You can specify a prefix, starting number, and increment.

- **User Entered**

If you specify user entered, then the user is required to manually enter a number for new headers of this change header type..

- **Subject**

You can specify that the subject of the change header type is an item or item revision. The subject may then be restricted by item catalog category, item status, or item type. For example, you can set up an issue header type called 'Production Motherboard Issue' where the subject of the issue is restricted to items in the Motherboard item catalog category that have a status of Production.

Note: For issue types only, you can also specify an item component as the subject.

- **Assignee Type**

You can set up the change header type to assign change objects by Person, Group, or Item Role. A user may have more than one role for an because you can assign item roles at the organization, item catalog category, and item level. If you choose to assign change objects by item role, then you need to choose an Assignee Type that specifies the level in which to look up the assignee by item role:

- **Group**

The change header is assigned to members of the group that is specified.

- **Item Role at Catalog Category Level**

The change header is assigned to users who have a role on the subject item that is inherited from the item catalog category.

- **Item Role at Item Level**

The change header is assigned to users who have a role on the subject item.

- **Item Role at Organization Level**

The change header is assigned to users who have a role on the subject item that is inherited within the organization.

- **Person**

The change header is assigned to the person specified.

After creating and saving the basic information for the change header type, you can complete the configuration setup as described in the following tasks.

To associate attribute groups with a change header type:

1. On the **Basic Information** page of the header type to which you wish to associate attributes groups, click **Attribute Groups**.
2. Click **Add Attribute Groups**.
3. Search for and select the attribute groups you wish to associate and click **Apply**.

To associate pages with a change header type:

Use the Pages link to add attribute groups specified for a type to pages within the user interface. For example, you may have created and associated the attribute groups Cost Information and Inventory Impact for a particular change header type. Now you wish to make them available via the user interface. Using Pages, you can set up a new page, for example, **Related Information**, on which to view and update the interface for the attributes Cost Information and Inventory Impact.

1. On the **Basic Information** page of the header type to which you wish to associate attributes groups, click Pages.
2. On the **Pages** page, click Create Page.
3. Enter the basic information in the required fields. Note that the number entered in Sequence determines the order in which the page links appear on the change object's detail page.
4. Click Add Another Row in the Attribute Groups section. Enter the Sequence number to specify the order in which the attribute groups will appear on the page.

To associate codes with a change header type:

You can specify valid priority and reason codes applicable to a change header type.

1. On the **Basic Information** page of the header type to which you wish to associate attributes groups, click Codes.
2. On the **Codes** page, select the valid priorities and reasons code for the header type.

To configure a change header type:

You can configure the change header type to specify what sections and primary attributes are enabled for the type.

1. On the **Basic Information** page of the header type click Configuration.
2. On the **Configuration** page, select the sections and primary attributes to enable for the change header type.

To associate workflows with a change header type:

The workflow for a change header type is defined by its different statuses. Each status can have one workflow associated with it, and that workflow is automatically launched when changes that employ this change header type enter into the status. When you create a status you specify a status type. These status types determine some of the operational characteristics of the change header during its workflow:

- Open

When a change header has a status of Open, users can update the issue, change request, or change order. However, if the workflow is running and Update Allowed is not selected, users cannot update it.

- Scheduled

Users cannot update the issue, change request or change order (unless reopened). Scheduled change orders are picked up and implemented by the auto-implement manager. Change headers must be Scheduled before they can enter the Implemented status.

- Released

Ready to be scheduled or implemented. Cannot be updated (unless the change is reopened).

- **Approval**

A workflow is mandatory for this status. Once the Approval is granted, the issue, change request or change order cannot be updated. You can associate a workflow template containing an approval request step for Approval status types only.

- **Implemented**

The changes specified in the change order take effect. Implemented change orders cannot be reopened and canceled. Once implemented, no further changes can be made. For each change header type, only one status can use Implemented. Implemented must always be the final status.

Certain workflow types can be associated with the statuses defined here. Following are the associations between status type and workflow type for non-new item requests:

Status Type	Valid Workflow Type
Approval	Approval
Others	Generic

Following are the associations between status types and workflow types for new item requests:

Status Type	Valid Workflow Type
Open	Definition
Approval	Definition & Approval, or Approval
Others	Generic

1. On the **Basic Information** page of the header type, click Workflow to define the workflow for the change header type.
2. On the **Workflow** page, click Add Another Row in the Statuses section.
3. Specify a number that indicates the order in which the statuses are executed, and select a status. Click Apply.
4. After creating a workflow for a change header type, you can click the Update Properties icon to specify for each status the valid promotion and demotion statuses and assign a workflow. For workflows that contain an Approval status, you must assign a workflow template that contains at least one Request Approval step. If you specify a workflow, you can also select a status that, when successfully completed, automatically promotes the change to the next status. If the status is not successfully completed, you can likewise specify that the change is automatically demoted to a previous status.

To specify organization policies for change headers:

You can specify organization policies for change orders only.

You can specify organization policies for change header types such that task templates and propagation rules are applied to every change order created in a specific organization. The changes specified in a change order may need to be propagated to several other organizations in your company. A business may therefore be comprised of hierarchically related organizations for which you need to propagate these change orders. For example, you may have an organization, Vision Operations, which has two manufacturing organizations in the VisionMfg hierarchy named Seattle Manufacturing and Chicago Manufacturing. You initially create change orders in the Vision Operations organization. Once the change orders reach a certain status in the workflow (for example, Scheduled), the change orders can be propagated (for example, copied to the destination organization with the Status initially set to Open) to the two manufacturing organizations in the hierarchy. You can set up the organization policy such that a change order is automatically propagated to the other organizations in the hierarchy whenever the change order reaches a particular status.

Task templates identify the specific tasks that must be performed before a status is considered complete. For details, see *Creating Task Templates*, page 4-7.

1. On the **Basic Information** page of the change order header type to which you wish to create organization policies, click **Organization Policies**.
2. On the **Organization Policies** page, select the organization to which the organization policy will be applied.
3. Click the **Task Template** tab, and then click **Add Another Row** to specify the task template you wish to use. Note that you can assign more than one task template. You can also specify the phase that must be completed before the task is applied, and the phase by which the task must be completed.
4. Click the **Propagation Rules** tab. Before specifying the organization hierarchy for propagation, you have the option of selecting a particular status that, when entered, will automatically propagate the change order to a default organization hierarchy. To do so, specify the **Status for Propagation** and select **Auto Propagate**. If you wish to manually propagate change orders, do not select **Auto Propagate**.
5. In the **Organization Hierarchy for Propagation** table, click **Add Another Row**, then select the Organization Hierarchy to which the change order will be propagated. While you can add more than one organization hierarchy to the propagation rules, the change order can only be propagated to one. Also, you can select one organization hierarchy as the default to which all change orders are propagated.

Note: Both an organization and the task templates/propagation rules must be specified before you click **Apply**. If you select an organization only and click **Apply** no organization policy has been defined, thus nothing is saved.

Creating Task Templates

Task templates define the various tasks that must be completed for a change order. You can create task templates only for categories whose base change category is **Change Order**. After creating task templates, you can use them to define the organization policies for change order header types.

To create a task template:

1. On the **Categories** page in the Setup Workbench, click the **Task Templates** tab.

2. On the **Task Templates** page, click Create.
3. On the **Create Task Template** page, provide data in the required fields and click Add Another Row in the Change Tasks table to specify the tasks associated with the change order header type. Note the following fields:
 - **Sequence**
Determines the order in which the tasks will appear on the page.
 - **Task**
The name of the task.
 - **Assignee Type**
Specify whether you wish to assign the task to a person or group.
 - **Assignee**
The person (or group) to whom the task is assigned.
 - **Mandatory**
Specifies that the task must be completed before the change order can proceed to the next status.

Managing Change Line Types

Change orders employ tasks and revised items to capture their various elements or "to do's." Issues and Change Requests, on the other hand, use *change lines*, which more or less serve a similar role. Change lines capture all the details for a particular issue or change request.

To create a change line type:

1. On the **Categories** page in the Setup Workbench, select any Change Request or Issue category, and click the Line Types tab.
2. If you already know of a similar line type, select it and click Duplicate. Otherwise, click Create.
3. On the **Create <Change Category Name> Line Type** page, note the following fields:
 - **Subject**
You can specify an item or item revision upon which the line type shall be based. You can also restrict the subject further by item catalog category, status, or item type. For example, you can create an issue line type to restrict the subject to all items in a particular catalog category whose value you specify. So when users file issues, they will select from a list of values. If you do not restrict the subject, then all items will be available for the line type.

Note: For issue line types only, you can also specify an item component as the subject.
 - **Assignee Type**
Typically users have different roles at different levels within an enterprise. To ensure users are assigned the correct role on line types, you can choose from the following Assignee Types:

- Group

The change line type is assigned to members of the group that is specified.

- Item Role at Catalog Category Level

The change line type is assigned to users who have a role on the subject item that is inherited from the item catalog category.

- Item Role at Item Level

The change line type is assigned to users who have a role on the subject item.

- Item Role at Organization Level

The change line type is assigned to users who have a role on the subject item that is inherited within the organization.

- Person

The change line type is assigned to the person specified.

After the change line type is created, you can associate attribute groups and pages with it.

To associate attribute groups with a change line type:

1. On the **Basic Information** page of the change line to which you wish to associate attributes groups, click Attribute Groups.
2. Click Add Attribute Groups.
3. Search for and select the attribute groups you wish to associate and click Apply.

Note: You cannot associate attribute groups with the following change order line types:

- AML changes
- Attribute changes
- Attachment changes

To associate pages with a change line type:

Use the Pages link to add attribute groups specified for a change line type to pages within the user interface. For example, you may have created and specified the attribute groups Cost Information and Inventory Impact for a particular change line type. Now you wish to make them available via the user interface. Using Pages, you can set up a new page, for example, **Related Information**, on which to make available the interface for the attributes Cost Information and Inventory Impact.

1. On the **Basic Information** page of the change line to which you wish to associate attributes groups, click Pages.
2. On the **Pages** page, click Create Page.
3. Enter the basic information in the required fields. Note that the number entered in Sequence determines the order in which the page links appear on the change line's detail page.
4. Click Add Another Row in the Attribute Groups section. Enter the Sequence number to specify the order in which the attribute groups will appear on the page.

Note: You cannot associate pages with the following change order line types:

- AML changes
- Attribute changes
- Attachment changes

Creating Change Priorities

Change priorities enable you to define the degree of urgency of change requests, change orders, and issues in a way that accommodates your business processes.

To create a change priority:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Change Management tab.
2. On the **Categories** page, click the Codes tab.
3. On the **Priorities** page, click Add Another Row.
4. In the new row, enter the following:

Priority

Enter alphanumeric text to specify the name of the priority.

Priority Sequence

Enter a number between 0 and 9. Use 0 to denote the highest priority and 9 the lowest. Priority sequence is used to determine the sort sequence.

Description

Enter a description for the priority.

Note: You can delete a change priority as long as it has not yet been used--once in use, a priority cannot be deleted.

Creating Statuses

Change categories are managed through their statuses and an approval workflow. Each status can have one workflow associated with it, and that workflow is automatically launched when changes enter into the status.

Note: You can change the name of any status, even those provided by APC. If a status is already in use you cannot delete it. Also, you cannot delete any of the APC-provided status.

To create a status:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Change Management tab.
2. On the **Categories** page, click the Workflow tab.
3. On the **Statuses** page, click Add Another Row.
4. In the new row, enter the following:

- **Status**

Provide a name for the new status.

- **Status Type**

Select the type that applies to the status:

- **Open**

When a change order has a status of Open, users can update it. However, when the workflow is running and Update Allowed is not selected, users cannot update it. Note that Update Allowed specifies that even if a workflow is running, the change object can still be updated. Otherwise, if a workflow is running, it cannot be updated , except for the posting of comments.

- **Scheduled**

Once in use, the change cannot be updated. Scheduled change orders are picked up and implemented by auto-implement manager (when auto-implement is set up).

- **Released**

Cannot be updated.

- **Approval**

A workflow is mandatory for this phase. Once the Approval is granted, the status cannot be updated. You can associate a workflow template containing an approval request step for Approval status types only.

- **Implemented**

For each change header type, only one status can use Implemented. Implemented change orders cannot be reopened and canceled. Implemented must always be the final status.

Note: Once in use, you cannot delete or update Status Types (except for the Display Name).

- **Description**

Enter a description of the status.

- **Inactive On**

Optionally, enter a date on which the status becomes inactive. As of this date, you can no longer assign the status.

Creating Change Reasons

Use change reasons to categorize and identify causes for changes. Advanced Product Catalog uses reasons for reference only.

To create a change reason:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Change Management tab.
2. On the **Categories** page, click the Codes tab.

3. On the **Priorities** page, click the Reasons link.
4. On the **Reasons** page, click Add Another Row. In the new row, enter the following:

Reason

Enter alphanumeric text to describe a unique reason for initiating a change. For example, you could define a reason named OBSOLETE to indicate an obsolete part, or WAIVER to indicate a component change on a bill of material.

Description

Enter a description of the reason.

Note: You can delete a change reason as long as it has not yet been used--once in use, a reason cannot be deleted.

Creating Classifications

Classifications provide a mechanism for companies to automate the categorization of change orders, and to also indicate to users exactly how the change order will impact their production. APC provides two types of classifications:

- **Derived**

Derived classification codes are derived from a user-defined function. For example, a division of a company, Vision Operations, needs to automate the process whereby a change order is assigned a particular classification code as well as being assigned a workflow routing. To create an automated classification process, Vision has created a set of attributes that, when filled in by users, classifies change orders into a particular classification or workflow routing. The user-supplied attributes are mapped to user-defined functions. The function takes the data supplied in the attributes and derives a valid classification code and workflow routing. Derived classification codes appear to users as read-only data.

For details about user-defined attributes and functions see User-Defined Attributes, page 7-1 and Creating User-Defined Functions, page 7-5. For details about setting up user-defined functions to derive classification codes and workflow routings, see the *Advanced Product Catalog Implementation Guide*.

- **Valid**

Valid classification codes are selected by the user from a list of values. Valid values are specified in the change header type.

Note: Classifications are available only to change categories whose base category is Change Order.

To create classifications:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Change Management tab.
2. On the **Categories** page, click the Codes tab.
3. On the **Priorities** page, click the Classifications link.
4. On the **Classifications** page, click Add Another Row.
5. In the new row, provide the name of the Classification Code and a Description.

Note: You can delete a classification code as long as it has not yet been used--once in use, a classification code cannot be deleted.

Creating Reports

Change management reports are basically search criteria and display formats that you can save, browse, email, or print. You can create reports for any change management category. You can also browse a report sequentially or using a summary view. Browsing a report sequentially enables you to step through each change object in a report. A summary view displays the report in tabular column format. You can send a report to other users including registered suppliers and customers.

Creating a report from your most common or frequent searches saves you the time of selecting a change category, search criteria and display format, and repeating the same search over and over again. You can give reports meaningful names as well. For example, a search for all open change orders may yield dozens of change orders, each identified by change order name and number. You can name the report for these search results "Open Change Orders."

Report security is consistent with search security: you can only access change object on which you have the required role. Also, administrator-created reports are available to all users, although only the administrator can edit these reports.

To create a report:

1. In the Setup Workbench, on the **Categories** page, click the Reports tab. When the page refreshes, click Create Report.
2. When the **Create Report** page refreshes, provide the following:
 - Name**
Provide a name for the Report.
 - Description**
Optionally, provide a description of the Report.
 - Criteria**
Select the criteria to be used in the search. You can use an existing search criteria template (if one exists for the change category selected), or add criteria here by clicking Add Criteria.
 - Format**
Select a format for the report. You can use an existing display format by selecting it from the Display Format pulldown and clicking Go.
3. In the **Export Format** section, you can optionally select an export template and output format, such as .pdf , .rtf, .html, .xls, and .xml, in which you want to generate the report.
4. Click Apply.

Creating Workflow Templates

Workflow templates enable you to define a workflow for a change object; you can use workflows for a variety of purposes, some of which include informational messages

(FYI), request for comment, or approval requests. You can create multiple workflows per change object, but only one per status. You can create and maintain workflow routings for each change type using the workflow templates listed in the Workflow tab in the Change Management workbench. Workflow templates are made up of steps--each step describes a workflow process and specifies the assignees. For example, you can create steps to request approval, request comment, or send an FYI notification.

To create a workflow template:

1. In the Applications tree menu, click the Setup Workbench link.
2. On the **Search: Item Catalog Categories** page, click the Change Management tab.
3. On the **Categories** page, click the Workflow tab.
4. On the **Workflow Templates** page, click Create.
5. On the **Create Workflow Template** page, note the following fields:

Start Date

Defaults to the current date. Start date is the date from which the workflow template is available.

End Date

The date upon which this workflow template is no longer unavailable.

Type

Identifies the type of workflow template that you are creating. In issue and change management statuses, workflows are restricted based on the status. Available workflow template types are:

- Approval
The Approval workflow template type is valid only for workflows with status type Approval.
- Definition
The Definition workflow template type is used primarily for workflows in New Item Requests with status type Open.
- Definition and Approval
The Definition and Approval workflow template type is used primarily for New Item Requests of status type Approval.
- Generic
The Generic workflow template type is used for all other status types.

Certain workflow types can be associated with specific statuses. Following are the associations between status type and workflow type for all change categories except New Item Request:

Valid Workflow Types for Change Categories (except New Item Request)

Status Type	Valid Workflow Type
Approval/Review	Approval
Others	Generic

Following are the associations between status types and workflow types for the change category New Item Request:

Valid Workflow Types for New Item Requests

Status Type	Valid Workflow Type
Open	Definition
Approval/Review	Definition and Approval, or Approval
Others	Generic

6. Click Add Step.
7. On the **Add Step** page, provide the following information:

Step

Enter the number of the step. This determines the order in which the steps are executed.

Workflow Process

Select the workflow process that describes this step. After selecting a workflow process, click Go. Selecting FYI will change the fields that follow; only the Instructions field will appear. You can create custom workflow processes using Oracle Workflow Builder.

Important: Users receive a role based on the workflow process that is chosen here. If Request Comment is selected, the person from whom you are requesting the comment receives the Change Reviewer role. If Request Approval is selected, the person from whom you are requesting the approval receives the Change Approver role. If FYI is selected, the person to whom you are sending the FYI receives the Change Reviewer role. These roles are assigned in addition to any other roles these users may already have on the change object. The administrator can edit the privileges for these roles.

Assignee

Following are the choices for Assignee:

- User Entered

You must select a particular user who is restricted to the Roles or Groups specified in the Assignees list.

- Derived

The assignee is derived based on user's roles. Hence, the list of available assignees (in the Assignees section) will all have the same role.

Response Required

Following are the rule choices for responses:

- All Assignees
All assignees must respond (or approve).
- One Assignee
Only one of the assignees must respond (or approve).
- Mandatory Assignees
When you add assignees, you specify that they are Optional or Mandatory. You must always have at least one Mandatory responder/approver.

Days to Respond

Enter the number of days--from the time this step is executed--in which you will need a response. Note that this is not the amount of time that transpires from the time the approval routing is submitted, but that it is the number of days from the time this particular step begins.

Instructions

Optionally, enter instructions for the assignees to follow in their responses.

Assignees

You can add assignees based on roles, membership in groups, or by selecting a specific person.

Note: When you select role, you are selecting either a change management or item role. If you assign someone by item role, then all users with this role on the item become Reviewers. If you assign someone by change management role, then all users with this role on the change become Approvers.

8. Click Apply to save this step.
9. On the **Update Workflow Template** page, verify that all steps required for the template have been added, and then click Apply.

Configuration Management Administration

Configuration Management Administration Overview

To navigate to all Configuration Management Administration help topics:

1. Select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management.
2. Select the Administration folder, and then click the Configuration Management folder.

Searching for Structure Types

You can search for structure types based on different criteria such as display name, internal name, description or parent structure type.

To search for structure types:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Structures tab.
2. On the **Search: Structure Types** page, select your search criteria in the Search By menu, enter the search string, and click Go.

Note: The wildcard character (%) is appended to the search string entered. For example, if you enter "Eng", the search string is actually "Eng%". So the structure type Engineering BOM could be returned as part of the search results.

Creating Structure Types

Structure types provide metadata common to all structures/BOMs that share the structure types. For example, the structure type "Engineering BOM" describes valid component types, attributes, functions and other characteristics common to several structures, such as "EBOM Alternate 1" and "EBOM Alternate 2" of the item "Engine10000."

Structure types are hierarchically structured, with structure names inherited throughout the hierarchy.

To create a structure type:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Structures tab.
2. On the **Search: Structure Types** page, click the "Create Structure Type" link.

3. On the **Create Structure Type** page, enter the following information:

Internal Name

The structure type's internal name.

Display Name

The structure type's display name.

Description

A brief description of the structure type.

Parent Structure Type

Select a parent structure type. The parent structure type specifies the immediate parent of the structure type being created, thereby determining the structure type hierarchy.

Structure Creation Allowed

This flag determines if the structure/BOM of the structure type can be created, or if the type only serves the purpose of being a placeholder in the structure type hierarchy. If structure creation is not allowed, the structure type will typically specify characteristics (such as attribute groups) that are inherited by its descendants.

Inactive On Optionally, you can specify a date on which the structure type will become inactive. Making a type inactive has the following implications:

- You cannot create structures of that type or any of its descendants.
- You cannot use that type or any of its descendants as a parent structure type upon creation of a structure type.

4. Click Apply.

Associating Structure Names with a Structure Type

To associate a structure name with a structure type:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Structures tab.
2. On the **Search: Structure Types** page, find the structure type you wish to associate and click its corresponding name link.
3. On the **Basic Information** page, click the "Structure Names" link.
4. On the **Structure Names** page, click Add.
5. On the **Add Structure Names** page, select structure names. You can also select "Create Structure Names" to create a new structure name for the selected structure type.
6. Click Apply.

Searching for Structure Names

You can search for structure names based on different criteria such as display name, internal name, description or parent structure type.

To search for structure names:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Structures tab.
2. On the **Search: Structure Types** page, click the Structure Names tab.
3. On the **Search: Structure Names** page, select your search criteria in the Search By menu, enter the search string, and click Go.

Note: The wildcard character (%) is appended to the search string entered. For example, if you enter "Alternate", the search string is actually "Alternate%". So the structure name "Alternate 1" could be returned as part of the search results.

Creating Structure Names

You can search for structure names based on different criteria such as display name, internal name, description or parent structure type.

To create a structure name:

1. On the **Search: Item Catalog Categories** page in the Setup Workbench, click the Structures tab.
2. On the **Search: Structure Types** page, click the Structure Names tab.
3. On the **Search: Structure Names** page, click the "Create Structure Names" link.
4. On the **Create Structure Name** page, provide the following information:

Display Name

The display name of the structure.

Description

The description of the structure name.

Structure Type

The associated structure type.

Organization Assignment

A structure name can be assigned to one or more organizations with different inactive dates.

Inactive Date

The date on which the organization assignment is no longer valid. One or more organizations may have different inactive dates.

5. Click Apply

People and Roles Administration

People and Roles Administration Overview

To navigate to all People and Roles Administration help topics:

1. Select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management.
2. Select the Administration folder, and then click the People and Roles folder.

As the people and roles administrator, you are responsible for creating and maintaining the roles required by your enterprise's implementation of the Advanced Product Catalog. You need the Manage Role and Create Role functions to create and update roles. If you only have the Manage Role function, then you can only update roles. If you only have the Create Role function, then you can only create roles--both functions are required to truly manage roles.

Managing and Viewing Roles

Advanced Product Catalog provides a mechanism called "role-based data security," which enables users to secure individual data elements. Every object in Advanced Product Catalog is secured using role-based data security. Your ability to view, edit and perform certain actions on an object is determined by your role on that object. Roles are granted to users by the owner of the object, or by someone who has the privilege to add people. A list of people with object-specific roles is maintained for each of the following objects:

- Item
- Change
- Catalog Category

Privileges

A privilege defines your access to an object such as an item or change. For example, your ability to view an item, edit it, and promote its lifecycle phase is determined by your privileges on that item.

Roles

A role is a collection of privileges. Roles are a convenient way to group privileges into a bundle that can later on be assigned to users. Roles are object type-specific. For example, the role Item Reviewer contains the privileges View Item and View Item People List. You can give this role to various people on individual item instances, and they can in turn view items and the view item people list.

In a collaborative environment, there are users from different departments and companies using the same application. The best people to determine the level of security for their information are the users themselves. The following examples show the importance of role-based security in a collaborative environment.

Example A

Topco Inc. manufactures and sells the products A and B, among others. Their supplier, Comco Inc., supplies components for product A. However, Comco has a competing product for Topco's product B. In this case, Topco would share information about product A with Comco, but would protect all information about product B.

Example B

Engineering-it Dept. is an engineering department that manages many engineering change orders and engineering change requests simultaneously. Alan manages change order X. Alan also reviews some other change orders, but he cannot update any information in those change orders. In this scenario, Engineering-it Dept. would give Alan full access to change order XX and restricted access on the change orders that he reviews.

To view roles:

You can view roles to examine the privileges that are associated with them. However, you must have the View Role function to access roles.

Note: Privileges are tied to specific objects. So if you have the View Item privilege on a particular item, you can view that item. Functions are not tied to an object; however, you may not be able to access a particular object when you have the appropriate privileges and yet you do not have the required function. For example, you may have the View Item, Add Item Lifecycle, and Add Item Issue privileges. However, you do not have the Manage Item function. In this case, you would not be able to view the item, add an item lifecycle or add an item issue.

1. Click the Roles link in the Application tree menu.
2. On the **Roles** page, enter the role name and click Go. If you know the specific object that the role is associated with, select it.
3. On the **Roles Search Results** page, click the name link of the role for which you were searching.
4. On the **Role Detail** page, you can view all the privileges associated with the role. You can also view the role mappings, which identify item roles and their corresponding change object roles.

Creating Roles

Administrators must have the Manage Role and Create Role functions to create and update roles. If you only have the Manage Role function, then you can only update roles. If you only have the Create Role function, then you can only create roles. So both functions are required to truly manage roles.

All default item roles are mapped to change object roles. User-created item roles do not have to be mapped to change roles. If you absolutely do not want a default item role to be mapped to a change role, edit that item role (item reviewer, item owner) explicitly.

To create a role:

1. In the Community section of Applications tree menu, click the "Roles" link.
2. On the **Roles** page, click the "Create Role" link
3. On the **Create Role** page, select the object for which you are creating a role and click Next.
4. On the **Create <object name> Role** page, provide a name and description for the new role. Select the object privileges you want to associate with this new role and click Apply. Be aware that selecting the Edit privilege does not implicitly grant the view privilege. So, if you want someone to be able to edit an item, they must be able to view it first. Every role must have at least one privilege associated with it.

Note: Click Save and Map Roles if you wish to map the item role to a change object role.

Updating Roles

To update a role:

1. In the Community section of Applications tree menu, click the "Roles" link.
2. On the **Roles** page, enter the role name and click Go. If you know the specific object that the role is associated with, select it.
3. On the **Role Search Results** page, click the name link of the role for which you were searching.
4. On the **Role Detail** page, click Edit in the Detail section.
5. On the **Edit Role** page, you can edit the role name, description, or privileges associated with it.
6. Click Apply.

Updating Role Mappings

To update role mappings:

1. In the Community section of Applications tree menu, click the "Roles" link.
2. On the **Roles** page, enter the role name and click Go. If you know the specific object that the role is associated with, select it.
3. On the **Role Search Results** page, click the name link of the role for which you were searching.
4. On the **Role Detail** page, click Edit in the Role Mappings section.
5. On the **Edit Role Mapping** page, you can edit the role name, description, or privileges associated with the role.
6. Click Apply.

Deleting Roles

To delete a role:

1. In the Community section of Applications tree menu, click the "Roles" link.
2. On the **Roles** page, enter the role name and click Go. If you know the specific object that the role is associated with, select it.
3. On the **Role Search Results** page, select the role you want to delete and click Delete.

Note: Once a role has been granted it cannot be deleted.

Managing Organization-Level Roles

You can grant a specific role to a certain person, group, or company that applies to all items in an organizations. This is useful when you want to grant one person access to many items.

Note: You can grant organization-level roles if you are assigned the Item Administration function through one of your responsibilities.

To grant a specific role to a person for all items in the organization:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search: Item Catalog Categories** page, click the Security tab.
3. On the **Organization Roles** page, select an Organization to which to grant a role and click Go. The table returns all people, groups and companies who have been granted roles in the selected organization.
4. Click Update.
5. On the **Update Organization Roles** page, click Add People. A new row appears in the table. Enter the following information:

Role

Select a role for this grant.

Type

Select the type of grant: a grant to a single person, a group, a company, or all users.

Name

Enter the name of the person, group, or company to which you are making this grant.

Start Date

Select a start date from which this grant is effective.

End Date

Select an end date on which the grant will no longer be effective.

6. Click Apply.

To revoke a specific role from a person for all items in the organization:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search: Item Catalog Categories** page, click the Security tab.

3. On the **Organization Roles** page, choose an Organization from which to revoke a role and click Go. The table returns all people, groups and companies who have been granted to the selected organization.
4. Select the person(s) or group(s) whose role you wish to delete, and click Delete.
5. Click Apply.

To edit a role grant of a person for all items in an organization:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search: Item Catalog Categories** page, click the Security tab.
3. On the **Organization Roles** page, choose an Organization whose role you wish to edit, and click Go. The table returns all people, groups and companies who have been granted to the selected organization.
4. Click Update.
5. On the **Update Organization Roles** page, select the person or group whose role you wish to edit, and provide a new start date or end date.
6. Click Apply.

Managing People, Groups, and Companies

The Type attribute on the **People Search Results** and **People Detail** pages corresponds to the three basic types of people in Advanced Product Catalog:

- Internal

When you create a user using the E-Business Suite Define User form, you define an employee in the People field. This person, now identified by the username entered, is classified as Internal in Advanced Product Catalog. You can search for and view details about this person.

- Customer

When you create a user using the E-Business Suite Define User form, you define a customer in the Customer field. This person, now identified by the username entered, is classified as a Customer in Advanced Product Catalog. You can search for and view details about this person .

- Vendor

When you create a user using the E-Business Suite Define User form, you define a supplier in Supplier field. This person, now identified by the username entered, is classified as a Vendor in Advanced Product Catalog. You can search for and view details about this person.

Customer and Vendor are *external* people.

Important: You may have defined people, such as contractors and temporary employees, in Oracle HRMS. You may also have defined people as customers in Oracle Customer Online. These people are not recognized as valid people in Advanced Product Catalog, despite the fact that they are in HRMS and Customer Online. You cannot search for or view details about these people.

To search for people:

1. In the Applications tree menu, click the "People, Groups and Companies" link.
2. On the **People** page, enter the name of the people for whom you are searching in the Search field. If you only know the first or last name of the person for whom you are searching, enter that name. For example, if you are searching for a person with the last name "Smith," then type "Smith" in the search field. A list of all persons with "Smith" in their first name, last name, or part of either the first or last name is returned. For example, all of the following names containing "Smith" are returned to you: John Smith, Blacksmith and Smiths.
3. Click Go. The name you entered is returned in the People Search Results field. If the name you entered is not listed in the People Search Results, check the spelling of the name and try searching again. If you are unable to locate the name, the person is not likely registered in E-Business Suite, or is not valid in Advanced Product Catalog. Try registering the people in the E-Business Suite first, or make sure the person is valid in Advanced Product Catalog.

To create a group:

Groups are communities of people you can define in order to collaborate. You can represent all your teams as groups in Advanced Product Catalog and give your group access to Advanced Product Catalog objects. You can send an Email to everyone in a group with a click of a button. Also, you can create a group if you are assigned the Manage Group function via one of your responsibilities.

1. In the Applications tree menu, click the "People, Groups and Companies" link.
2. Click the Groups tab.
3. On the **Groups** page, click the "Create Group" link.
4. On the **Create Group** page, provide the following:

Group

Provide a name that identifies the group.

Description

Provide a brief description of the group.

Group Email Address

Specify the group mailing list, if you have one, as your group's Email address.

5. Click Apply to save the group, or click Add Another to create another group.
6. On the **Group Detail** page, click Update to edit group information. Click Add to add additional members to the group. If you wish to delete a member, select that group member and click Delete.

To add/remove members to a group:

1. In the Applications tree menu, click the "People, Groups and Companies" link.
2. Click the Groups tab.
3. On the **Groups** page, click the "My Own Groups" link.
4. Select a group and click Edit Membership.

5. On the **Group Detail** page, click Add, and select one or more persons from the list of values.
6. To remove members, select each member you wish to delete and click Delete.

To search for a group:

1. In the Applications tree menu, click the "People, Groups and Companies" link.
2. Click the Groups tab.
3. On the **Groups** page, enter the name of the group for which you are searching. Click Go.
 - If you only know part of the name of the group for which you are searching, enter that name. For example, if you are searching for a group having the name "dev," type "dev" in the Search field.
 - To locate all Groups in which you are a member, click the "My Group Memberships" link.
 - To locate all Groups that you own, click the "My Own Groups" link.
4. If the group name you entered is not listed in the Group Search Results, check the spelling of the name and try searching again. If you are unable to locate the group, it is likely that it has not yet been created. Try creating the group using the "Create Group" link on the Groups page.
5. On the **Group Search Results** page, click Request Membership to join a group. The owner is sent an Email notification and can add you as a member of that group.
6. Click a group name to see all the members of a group (only if you are the owner or a member of that group).

To find groups that you own:

1. In the Applications tree menu, click the "People, Groups and Companies" link.
2. Click the Groups tab.
3. On the **Groups** page, click the "My Own Groups" link to locate all groups that you own.
4. Select a group and click Edit to change the Description, Group Email, Owner, or Visible To option.

To search for a company:

1. In the Applications tree menu, click the "People, Groups and Companies" link.
2. Click the Companies tab.
3. On the **Companies** page, enter the name of the company for which you are searching, or enter a letter from the alphabet. If you only know part of the name of the company for which you are searching, enter that name. For example, if you are searching for a company named "AAA Supplier," type "AAA Supplier" in the search field. You will then see a list of all companies with "AAA" in their name.
4. Click Go. The name you entered is displayed in the Company Search Results field. If the company name you entered is not listed in the Company Search Results, check the spelling of the name and try searching again. If you are unable to locate the company, it is likely not registered in E-Business Suite. Try registering the customer

company using the Customer Online or Order Management product. Try registering the Vendor/Supplier Company using the Purchasing product.

Attributes and Functions Administration

Attributes and Functions Administration

To navigate to all Attributes and Functions Administration help topics: :

1. Select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management.
2. Select the Administration folder, and then click the Attributes and Functions folder.

As the attributes and functions administrator, you are responsible for defining attributes and related functions that serve the needs of your enterprise.

User-Defined Attributes

Oracle Advanced Product Catalog enables you to create user-defined attributes for objects such as items, projects, tasks, issues, and change objects. These attributes are aggregated in user-defined attribute groups. You can associate attribute groups with objects such as items, projects and change orders so that they appear on the object's **Detail** page. You can use attribute groups to define certain attributes that are specific to your business and are also tied to a particular object type.

For each user-defined attribute, you can optionally specify a value set, page 7-7 with data type and validation rules to be applied when the user inputs data. Once created, value sets can be reused for different attributes. It is recommended that you create value sets before defining your attribute groups.

An attribute group can be multi-row or single-row. Multi-row attribute groups enable you to associate multiple sets of attribute values with the same object instance. For example, if your item is a book, you can create an attribute group called "chapters" with attributes "chapter number," "name" and "number of pages." Multiple rows of "chapters" can be associated with a book.

Third-party systems integrators can easily generate a database view of existing attributes and attribute groups. These views are particularly useful when users wish to read the APC-provided data as they write code for integration with APC. To generate database views, on the **Search: Attribute Groups** page, select the attribute groups for which you wish to generate the view and click Generate Database View.

To create and maintain attribute groups:

1. Click the "Setup Workbench" link.
2. On the **Search: Item Catalog Categories** page, click the Attributes tab.

Note: To navigate to Change Management attributes, click the Change Management tab, then click the Header Attributes or Line Attributes tab.

3. On the **Search: Attribute Groups** page, click Create.
4. On the **Create Attribute Group** page, enter the following:

Internal Name

Enter the internal name of the attribute group.

Display Name

Enter the name of the attribute group as it will be displayed in the user interface.

View Privilege

Select a viewing privilege. Users must have a view privilege for any object to which this attribute group is associated. Then, you can narrow the definition of viewing privileges to meet the needs of your enterprise. For example, you may create a privilege called View Item Cost and associate it with an attribute group called "Costs." Users who have view privileges for the item can view the item, but not necessarily the cost information associated with it. To view the costs associated with the item, users must have the additional View Item Cost privilege.

Note: The lock icon (viewed on the **Search Results** page) indicates that a user does not have the privilege required to view a particular attribute group. If you wish to create a custom privilege, see *Creating Custom Privileges*, page 7-10.

Edit Privilege

Select an edit privilege. Users must have an edit privilege to edit information in this particular attribute group. Privileges are granted by roles assigned to users. If no view or edit privilege is specified for the attribute group, then users' ability to view and edit the attribute group is controlled by the view and edit privileges on the object to which the attribute group is associated. You can define editing privileges to meet the needs of your enterprise.

5. Select Multi-Row to associate multiple sets of attribute values with the same object instance. If you do not wish to add attributes to the attribute group at this point, click Apply.
6. Click Raise Post Attribute Change Event to raise a business event every time an attribute is changed. Based on this event, you can choose to execute other functions or workflows to implement your company's business processes. For more details, see "User-Defined Attributes Business Event" in the *Oracle Advanced Product Catalog Implementation Guide*.
7. Click Add Attributes to add user-defined attributes to your attribute group. Note that clicking Add Attributes saves the attribute group and commits it to the database, even if you click Cancel while on the **Create Attribute** page.
8. On the **Create Attribute** page, provide the following information:

Sequence

The sequence number for the attribute. The sequence determines the order in which the attribute is displayed on the page, and also determines the order in which the attribute is processed.

Internal Name

The internal name of the attribute. The name by which the attribute is tracked internally.

Display Name

The name of the attribute as it appears within the user interface.

Description

The description of the attribute; this description also appears as tip text on pages that have updateable attributes.

Data Type

Lists the available data types. The data type that you select determines the values that are available in the column and value set. An attribute's data type must match the data type specified for that attribute's value set. The list of values for a value set only displays value sets whose data type matches the data type of the attribute. Note that selecting a data type always clears the column and value set. For example, say you selected the Number data type. Then you select your column and value set--remember that your column and value set choices are determined by the data type you chose. Then you decide to change the data type from Number to Date. Notice that after you change the data type, your column and value set are cleared; you need to select new ones based on your new data type. Additionally, the data type determines the values that are available in the Display As field. You cannot change the data type once an attribute is created.

Note: The maximum number of characters for a character type attribute is 150 characters. Translatable text fields have a limit of 1,000 characters. Number type fields have a maximum size and precision of 22.5 (22 digits to the left of the decimal and 5 digits to the right).

Column

A list of values that enables you to specify the column in which the attribute is stored in the database table. The column list of values only returns columns with the data type you specified in Data Type. The list of values also indicates whether or not the column is indexed. If you select Searchable, and you choose a column that has not been indexed, the column will be indexed as a consequence of creating the attribute.

Enabled/Disabled

Specify whether or not the attribute is enabled (and available for use) or disabled (and not available for use). If the attribute is enabled, specify whether or not the attribute is optional or required. If required, the user cannot save data for an item using the attribute group without entering a value for that attribute.

Display As

Determines how the attribute appears within the user interface. For example, if you select Text Field for an attribute called "Cost Center", then "Cost Center" appears in

the user interface as a text field. The available values for Display As are determined by the data type selected.

If you choose Checkbox, then the value set defaults to EGO_YES_NO.

If you select Radio Group, then you must choose an independent value type set (in other words, the value set has a discrete set of values that you have already specified). If, while updating the value set, you select the Long List of Values validation type, attributes will be displayed as a text field with a list of values, thereby ignoring your choice of Radio Group.

If you select Text Field, *and* choose a value set whose type is independent, then your display would be either a poplist or list of values (whether or not you get the poplist or list of values is determined by the way you define the value set). Also, when the data type is Number, and Display As is a Text Field, a Unit of Measure list of values is presented. You can choose either the Unit of Measure or the Value Set; they are mutually exclusive.

Hidden attributes do not show up in the user interface; this attribute is primarily populated via user-defined functions.

Selecting Dynamic URL refreshes the page with a new section for specifying the dynamic URL. Enter an URL and use any attribute Internal Name in the attribute group, enclosed between \$\$ symbols, as a token for the value of a parameter. When users click on the URL, the value for that attribute will replace the token in the URL's query string.

The following table describes which display types are supported for the various data types.

Display Types Supported by Data Types

Display Type	String	Number	Date	Date Time	Translatable Text
Text Field	Supported	Supported	Supported	Supported	Supported
Check Box	Supported	Not Supported	Not Supported	Not Supported	Not Supported
Hidden	Supported	Supported	Supported	Supported	Supported
Static URL	Supported	Not Supported	Not Supported	Not Supported	Supported
Dynamic URL	Supported	Supported	Supported	Supported	Supported
Radio Group	Supported	Supported	Supported	Supported	Supported
Attachment	Not Supported	Supported	Not Supported	Not Supported	Not Supported

Indexed

Specify whether or not you want the attribute to be indexed. If you choose to make this an indexed attribute, it will appear as an indexed attribute on the criteria template page. Only indexed attributes are available as sort criteria in result formats.

Part of Unique Key

If the attribute group is multi-row, the Part of Unique Key checkbox determines whether or not the attribute is part of the key that uniquely identifies a row. A unique key is any set of attributes whose values can be used to uniquely identify a row within the attribute group. You can define the unique key on the attribute group **Detail** page.

Note: You can specify that each attribute is part of a unique key when creating the attribute, or--more conveniently--you can specify all unique key attributes in the group via the attribute group **Detail** page.

Value Set

Select a value set that will serve as a set of constraints for an attribute. For details about creating value sets, see *Creating Value Sets*, page 7-7.

Default Value

The default value of this attribute. If you've selected a value set, the value set's constraints apply to the default value.

9. Click Apply or Add Another to save and create another attribute group.

Creating User-Defined Functions

To define your own custom logic, you can add user-defined functions and actions to existing pages in Item and Change Management without having to customize the entire page. By first setting up user-defined attributes, you can then execute user-defined functions with those attributes.

User-defined functions can be Java, URL, or PL/SQL functions. Functions use input and/or output parameters of various data types such as string, integer, or Boolean. You can also map these parameters to attributes and object primary key values.

Actions are trigger points for functions displayed as buttons or links on the page. You can determine the conditional visibility of the button and the label displayed on the button itself. You can also prompt the user based on the user's input.

To create a user-defined function:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search: Item Catalog Categories** page, click the Functions tab.
3. On the **Search and Select: Functions** page, click Create Function.
4. On the **Create Function** page, enter the following information:

Internal Name

The internal name of the function.

Display Name

The name of the function as it appears in the user interface.

Description

The description of the function.

Function Type

Whenever you define a function, there must be an underlying implementation of that function. The type specifies the manner of implementation to which the function maps. The supported function types are:

Java

Specifies that the implementation is via a Java method. When you select Java, the page refreshes and you must specify the following:

- Class
The class in which the method resides.
- Method
The method that implements your custom logic.

PL/SQL

Specifies that the implementation is via a PL/SQL stored procedure. When you select PL/SQL, the page refreshes and you must specify the following:

- Package
The package in which the procedure resides.
- Procedure
The procedure that implements your custom logic.

URL

Specifies that the implementation is a simple URL link. When you select URL, the page refreshes and you must specify the following:

- URL
You can specify either absolute or relative URLs. For absolute URLs, you must begin the URL with the protocol (in most cases, the protocol will be http://).

5. Click Apply.

Note: You can only delete a function when it is no longer associated with an action.

To create parameter mappings for a function:

After creating a user-defined function, you should specify the parameters that will be passed when that function is called.

1. On the **Search and Select: Functions** page, click the name of the function you just created.
2. On the **Function Details** page, click Add.
3. On the **Create Function Parameter** page, enter the following information:

Internal Name

The internal name of the parameter.

Display Name

The name of the parameter as it appears in the user interface.

Sequence

The order in which this parameter appears relative to other parameters associated with this function. Sequence must be unique among all parameters associated with this function.

Data Type

Lists the available data types. The values available are dependent on the type of function for which you are defining parameters.

Parameter Type

The parameter options for a parameter depend on the function type and parameter data type you have already selected. For example, if the Function Type is URL, then the Data Type is constrained to String, and the Parameter type is constrained to Input.

4. Click Apply.

Creating Value Sets

For each user-defined attribute, you can optionally specify a value set with data type and validation rules to be applied when the user inputs data. Once created, value sets can be reused for different attributes. It is recommended that you create your value set before defining your attribute groups.

To create a value set:

1. In the Applications tree menu, click the "Setup Workbench" link.
2. On the **Search: Catalog Categories** page, click the Value Sets tab.
3. On the **Maintain Value Sets** page, click Create.
4. On the **Create Value Set** page, enter the following information:

Value Set Name

The name by which the system and users keep track of the value set. You can only enter alphanumeric (a, b, c,..., 1, 2, 3,...) and the underscore (_) characters for the value set name. You cannot use spaces or special characters. The length is limited to 15 characters.

Description

Optionally, enter a description of the value set.

Data Type

The data type of the value set. The data type that you select determines the values that are available in the value set. An attribute's data type must match the data type specified for that attribute's value set.

Maximum Size

Specify the maximum size of the value for the attribute using this value set. If you do not want to specify Maximum Size, leave it at the default value of 0. Be aware that entering a Maximum Size that is less than the number of characters you would need to enter a valid value for that data type will result in an error.

Validation Type

A set of values against which the values entered by users are validated. Choices are:

- None

There is no explicit set of values against which the user's input is validated.

- Independent

The explicit values against which the user's input is validated are defined here. To create explicit values, select Independent and click Add Values. If you select this validation type, click here, page 7-9. Select the "Poplist" radio button to display valid values as a drop-down list. Select the "List of Values" radio button to display valid values as a searchable list of values.

- Table

The explicit values against which the user's input is validated comes from a database table. To create explicit values, select Independent and click Add Values or click Table and then click Edit Table Information. If you select this validation type, click here, page 7-8.

5. Optionally specify a Minimum Value and Maximum Value in the "Value Range" section. If you selected the Validation Type "None" and a data type of "Number," "Standard Date," or "Standard Date Time," you can enter a minimum and maximum value for your value set. If the data type is "Standard Date" or "Standard Date Time," you can substitute the \$SYSDATE\$ token for the current date. \$SYSDATE\$ is a min/max value placeholder that is replaced by the current day on the day the user enters a value for the attribute. You can also add or subtract whole numbers from \$SYSDATE\$. For example, "\$SYSDATE\$ - 4" would be four days prior to the current date.
6. Click Apply.

Defining Table Value Sets

When creating a value set, you must specify a validation type. If you select the validation type "Table", then you must define the table whose values comprise the value set.

Table value sets build queries that draw valid values from a table/view. For example, you have identified the table EMP as having a value column EMP_ID, and the ID column EMP_NAME. If a user searches for a person named "Smith", the query is directed to the table EMP. The search value entered is "Sm", so the actual search value used is "Sm%". The value set builds a search of the EMP table to find all employees whose names begin with "Sm". A list of values containing all employees whose last names begin with "Sm" is returned to the user. Then the user selects the correct employee, and that employee ID is the value that gets stored for the attribute.

Note: Identifying a table is part of the process of creating a value set. Before identifying a table, you must complete steps 1 through 6 of Creating a Value Set, page 7-7.

To identify a table for a value set:

1. On the **Enter Validation Table Information** page, enter the following information:

Application Name

The name of the application in which the table is located.

Table Name

The name of the database table or view in the schema.

2. In the Value Column section, enter the following information:

Name

The name of the column that stores the internal value.

Type

The data type of the value column.

Size

The size of the value column.

3. In the Meaning Column section, enter the following information:

Name

The name of the column that stores the description of the value..

Type

The data type of the meaning column.

Size

The size of the meaning column.

4. In the ID Column section, enter the following information:

Name

The name of the column that stores the display value.

Type

The data type of the ID column.

Size

The size of ID column.

5. In the "Where Clause" section, enter an additional Where clause to further constrain a query. For example, go back to the example above. Say you wish to further constrict the search results by only searching for current employees. In this case, you would add an additional Where clause defining the JOB_STATUS as ACTIVE.

You can also use bind values in Where clauses in the following ways:

- You can refer to other attributes in the same attribute group as the attribute that uses this value set by using the following syntax:
:\$ATTRIBUTEGROUP\$.<your attribute's internal name>
- You can refer to primary keys for the object to which the attribute group is associated by using the following syntax:
:\$OBJECT\$.<the object's primary key column name>

6. Click Apply.

Creating Independent Values

When creating a value set, you must specify a validation type. If you select the validation type "Independent", then you must define the independent values that comprise the value set.

Note: Creating an independent value is part of the process of creating a value set. Before creating an independent value, you must complete steps 1 through 6 of Creating a Value Set, page 7-7.

To create an independent value type:

1. On the **Create Value** page, enter the following information:

Internal Name

The internal name of the value; this is a valid value in your value set. The internal name must be of the same data type as the value set data type.

Display Name

The display name of the value. The display name does not have to be the same data type as the value set data type.

Sequence

The order or sequence in which the independent values are displayed.

Start Date

The date on which this value becomes a valid value in the value set.

End Date

The date on which this value is no longer a valid value in the value set.

2. Click **Apply**.

Creating Custom Privileges

Oracle Advanced Product Catalog seeds a number of privileges. However, you have the option to create custom privileges to meet the needs of your business.

To create a custom privilege:

1. Log into Oracle Forms using the System Administrator responsibility.
2. In the Application menu, select **Function**.
3. In the Form Functions window, provide the following information:

Function

Enter a unique function name. You may use this name when calling your function programmatically.

User Function Name

Enter a unique name that describes your function. You see this name when assigning functions to roles.

Description

Provide a description of the function.

4. Click the **Region** tab, and select the Object for which you are creating this privilege.
5. Click **Save**.

Item Catalog

Item Catalog Overview

To navigate to all Item Catalog help topics, select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management, and then select the Item Catalog folder.

Searching for Items

You can perform searches using keywords that may be part of an item number, short description or long description. Keyword searches enable you to search using any or all keywords. You can enter additional keywords to be excluded from a search. For example, the keyword search for "SRAM" may return results that include all items that have "SRAM" in the item name, description, or an attribute value. A Wildcard search enables you to enter the percent (%) sign before and/or after a keyword. For example, a search using "mo%" may return "Monitor" and "Mouse," but a search using "mon%" would return "Monitor." A Fuzzy Search enables you to look for records that closely resemble or sound like your word(s), but are spelled differently. For example, a search for "telefone."

Keyword search options include:

- Exact match
Enter search criteria for a specific word.
- Word positioning
Search using a particular phrase such as "optical sensors relay," or search for words near each other, such as "optical NEAR relay."
- Inexact match
Search for words that sound like your word to account for common spelling and typing errors.
- Intelligent match
Search for an item by entering a word that is about something like a theme--for example searching by the word 'Car' can result in items such as Convertibles, Coupes, and Sedans without having the word car in the item name. You may also ignore the noise words such as 'the', 'of'. A default list of noise words (a stop list) is supplied for each European Language.
- Non-alphanumeric characters

You may choose to search with '-' (or other non-alphanumeric characters) as part of the item name such as AS-18947.

- Boolean combinations

Combine terms described above using the operators: AND, OR, and NOT.

- Stemming search

Search for relevant items. For example, entering the word "pen" returns results that include items like pens and pencils.

APC also allows you to search for items based on item revision attribute values. For example, if the horsepower of an engine has changed from 200 hp to 220 hp between revisions A and B, searching for an item revision with the horsepower attribute value of 220, will return only revision B.

To perform a simple item search:

1. On the **Simple Search** page, enter as many keywords as possible in the Keyword Search field. For example, entering "CRT Color Monitor" would return more relevant results than simply entering "Monitor." To specify that the search uses all the keywords entered, select Match all word(s) (AND). To specify that the search use any of the keywords entered, select Match any word(s) (OR).
2. To exclude a keyword from the search, enter it in the Without Keyword(s) field. For example, entering the keywords "Flat LCD Monitor" without the keyword "black " returns all "Flat LCD Monitors" that are not black.
3. Click Search.
 - You can enter % (wildcard) before and/or after a keyword to perform a wildcard search. For example, a search for "mo%" returns Mouse and Monitor; a search for mon% returns Monitor.
 - Including "\$" before the item name indicates that you want to search for items whose spelling is derived, or stems from the keyword. For example, a search on the keyword "\$contract" could return: "contract," "contracts," "contracted," and "contracting."
 - Including "?" before the item name indicates that you want to search for items whose spelling is close to the actual item for which you are searching. In other words, the search engine looks for records that closely resemble the words you've entered, but that are spelled differently. The search returns results that have items with that term in either its name or description. Hence, entering the keyword "?telephone" also would return "telephone."
 - Simple Search is *case-insensitive*.

To perform an advanced search:

Note the following tips and restrictions before conducting an advanced search:

- Providing values for the indexed attributes improves performance during the search.
- If no search criteria is used, you must add your own criteria to be used for the search.
- If no display format is used, the following columns will be the default for your search results: Item, Catalog Category, and Description.
- Advanced Search is *case-sensitive*.

1. On the **Advanced Search** page, select an Item Catalog Category and click Go. This determines the search criteria that is available to use for this particular search.
Note: You are not required to search by or select a catalog category. If you do not, by default the system primary attributes appear.
2. You can also search by item revision specific attributes. To search by revision, select the type of Revision on which to base the search. Following are the types of revisions available:
 - All
Searches for all (past, current and future) revisions.
 - Latest
Searches for the most current effective revisions that are not yet implemented.
 - Production
Searches for the revisions that are currently implemented.
3. Select a search criteria, add or delete attributes and enter values to define your parametric search. You must include at least one indexed attribute in your search. You can select and preview a display format for the search results.
Note: For details about how to use search criteria and display formats to assist in your advanced search, see Managing Search Criteria, page 1-2 and Managing Display Formats, page 1-6.
4. Click Search.

Managing Favorite Items

The Favorite Items list provides you a mechanism for creating and managing lists of your favorite or bookmarked items. You can add items to your Favorite Item list from the **Search Results** page, or while browsing--there are a number of contexts from which the Favorite Items link is available. The following steps describe just one of these contexts.

To add an item to your favorite items list:

1. Navigate to the **Favorite Items** page by clicking the Favorite Items link in the Items section of the Applications tree menu. You can also get there by navigating to any item **Search** or **Browse** page and clicking the Favorite Items tab.
2. On the **Favorite Items** page, click Add Favorite Item.
3. On the **Advanced Search** page, search for item you wish to add to your favorites list.
4. On the **Search Results** page, select the items you wish to add and select Add to Favorites in the Action menu and click Go. A message acknowledging the successful addition of the item to your favorites list appears at the top of the page.

To manage your favorite items list:

1. Navigate to the **Favorite Items** page by clicking the Favorite Items link in the Items section of the Applications tree menu. You can also get there by navigating to any item **Search** or **Browse** page and clicking the Favorite Items tab.

2. On the **Favorite Items** page, click Add Favorite Item to add a new item to the list. To remove an item from your Favorite Items list, select the item and then choose Remove from the Action menu and click Go.
 - You can Export to Excel the attributes for your favorite item by selecting it and clicking Export to Excel.
 - You can compare attributes of your favorite items by selecting them and then selecting Compare from the Action menu. Each item's attributes will be listed side-by-side in a table.
 - You can change the lifecycle of an item by selecting it and then selecting Change Lifecycle from the Action menu.
 - You can change an item's catalog category by selecting it and then selecting Change Catalog Category from the Action menu.

Using Recently Visited

Clicking the Recently Visited global button (global buttons appear on all pages in the Advanced Product Catalog user interface) enables you to view a list of pages that you visited before the current page. This eases navigation throughout the user interface, as the use of your browser's Back button is not supported. The Recently Visited list provides links up to the last 20 pages visited in your current session, in order of most to least recently visited.

Creating New Items

Items are used to represent:

- Products & services you sell
- Resources that you maintain
- Components that make up your products and services

Each item that you create in the catalog has several standard operational attributes that determine the behavior of the item with respect to various functions, such as Purchasing, and Inventory Management. In addition to these operational attributes, the item has several user-defined attributes defined by its item catalog category. These user-defined attributes can capture item specifications and other information relevant to the product definition.

The create item process enables you to request new items through a standard approval and creation process. Using this process, companies can promote reuse of items and maintain tight controls over item/part creation, avoiding costly maintenance of duplicate items. The item request approval routing ensures that all relevant parties participate in the item's definition.

Note: If there is no item approval request associated with an item catalog category, then new items are created with a blank or empty Approval Status. In such cases, users simply select the Item Status. If there is an item approval request associated with the item catalog category, then the Approval Status defaults to Submitted for Approval (if you save the request for later, then it defaults to Not Submitted for Approval). For example, when you submit a new item and there is an approval request associated with the item catalog category, then the default Approval

Status is Submitted for Approval. Regardless of the default Approval Status, the Item Status is Pending (all flags are disabled). Only APC users can view items with the Item Status Pending--these items are not viewable in the Master Item or any other EBS application. Users can manually update the Item Status after the new item request is approved.

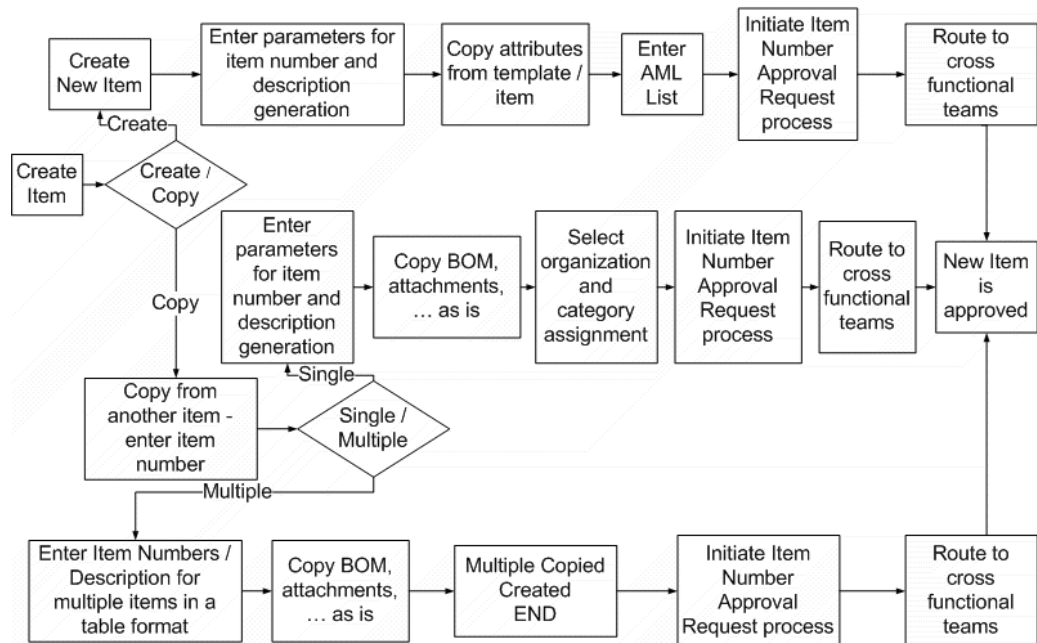
The new item creation process enables you to:

- Perform parametric searches to verify existing functionally-equivalent items
- Copy items and their related information to create single or multiple new items
- Request approval from different functional teams before creating an item
- Automatically route the new item request to different functional groups to participate in the item definition process
- Create related item information, such as a Manufacturer's Part Number, or item attachments (among other item information)

Benefits associated with the new item request process:

- Companies can standardize item numbers and descriptions
- Prevents duplication and promotes reuse of item number that are functionally equivalent

Create New Item Flow



To create a new item:

1. On the **Create Item** page, begin by selecting either an Item Catalog Category or an Existing Item.

Note: You can only create items within a particular item catalog category if you have the Catalog Category User role for that item catalog category.

If you are familiar with an item in the same item catalog category in which you wish to create a new item, then you can save time by creating the new item from an existing item. When you copy an item, select the attribute groups and attachment categories to copy; also choose whether or not to copy people and organizational assignments (you can add new manufacturer part numbers, but you cannot copy existing ones). You can modify the copied information to define the new item's specifications.

Note that you must have the appropriate privileges to copy the item's user-defined attributes, operational attributes, attachments, people, and organizational assignments. For example, if you wish to copy the item's attachments, you must have--at a minimum--the View Item Attachments List privilege. Likewise, if you want to copy the item's people, you must have the View Item People List privilege for the base item.

When creating a new item, you have the option of simultaneously creating multiple items. For details about creating multiple items, see *Creating Multiple Items*, page 8-8.

If a new item request is not required for the item catalog category, then the Engineering Item checkbox appears. Selecting Engineering Item ensures that the new item is an Engineering Item. If not selected, the new item becomes a Manufacturing Item. If a new item request is required, the Engineering Item field does not appear.

2. On the **Create Item: Enter Number/Description** page, enter the required information.

The item catalog category definition determines the new item's generation method. The item number already appears when the item catalog category specifies that it is Sequence-generated. If the category specifies that the item number or item description is User Entered, then enter an item number or item description. A Function-generated item number or item description is generated after the item and description attributes are entered.

Optionally select a template that sets the operational and user-defined attributes for the item.

If you are creating an item by copying an existing item, add or remove attribute groups on the **Create Item: Copy Item Details** page.

For details about defining item catalog categories, see *Creating Item Catalog Categories*, page 2-1.

3. On the **Review Item Information** page, you can check to ensure the values entered are correct before submitting the item. You can also enter or change item attributes; attach documents or folders from a document repository such as Oracle Files; grant people roles directly on the item if they do not inherit a role from the organization or item catalog category level; specify approved manufacturers and their part numbers for the new item.

Note: Remember that data associated with attributes, attachments, people, etc. of the copied/base item only appears if you have the appropriate privileges on that base item.

Use the tabs to manage all your item information.

- **Attributes**

View attributes associated with the item catalog category. You can also update or change attribute values. You cannot add new attributes. Attribute associations with item catalog categories are performed at the administration level. For more information, see *Creating Item Catalog Categories*, page 2-1.

- **Organizations**

View the organization in which the item is created (the Master Organization). You can also add additional organizations, thereby enabling users in those organizations to view the item. For item catalog categories that require approval for new item creation, the Organization tab is disabled. You cannot assign an item to an Organization until after the new item request has been approved.

- **Categories**

View the catalogs and item catalog categories in which the item appears. You can add or delete catalog assignments. For item catalog categories that require approval for new item creation, the Categories tab is disabled. You cannot make Category assignments until after the new item request has been approved.

After providing the required information and reviewing your item information, click Submit. If there is an item request approval process specified with the item catalog category, proceed to the next step. If not, the item creation process is complete.

4. On the **Create New Item Request** page you can customize/edit the new item approval request.

The Assignee is defaulted based on the item catalog category role specified in the assignment rule for new item requests.

Use the Priority and Reason codes to track the degree of urgency and the reason for requesting the new item.

In the Workflow Approval tab, approval routing templates are available for routing the new item request definition/approval. Routing templates are typically defined for standard business processes associated with new item creation/approvals. You can also use the approval routing template to route the new item request to different functional groups, providing those groups the ability to participate in the creation and definition of new items. For example, the Design Engineer may be responsible for entering the item's user-defined attributes.

You can submit the new item request or save it if you wish to enter additional information later. If you save it for later, the new item request is saved with a Draft status. Upon submission, an assignment notification is sent via e-mail.

Important: For new items that require an approval, you can choose a Lifecycle Policy, but not a Lifecycle Phase. Instead, the item defaults to the first Lifecycle Phase of the selected Lifecycle Policy.

All new items requiring approval have the Item Status Pending. After the new item is approved, you can change the Item Status to enable the item for viewing/use outside of APC--you can also define or update its operational attributes.

Creating Multiple Items

When creating a new item, you have the option of creating more than one item simultaneously. In situations where you have to create numerous different items requiring approval, it is best to use this procedure. Attributes are entered by the various reviewers/approvers, thereby ensuring that all appropriate parties have an opportunity to provide information relevant to the different items' definitions.

Note: You can also create multiple items via a spreadsheet item import. For details see Importing Items Using a Spreadsheet, page 8-18.

For details about creating a single item, see Creating New Items, page 8-4.

To create multiple items:

1. On the **Create Item** page, create new items by selecting either the Item Catalog Category or an Existing Item.

Note: You can only create items within a particular item catalog category if you have the Catalog Category User role for that item catalog category.

If you are familiar with an item in the same item catalog category in which you wish to create new items, then you can save time by creating the new items from that existing item. When you copy an item, select the attribute groups and attachment categories; also specify whether or not you wish to copy people, and organizational assignments.

Note that you must have the appropriate privileges to copy the item's user-defined attributes, operational attributes, attachments, people, and organizational assignments. For example, if you wish to copy the item's attachments, you must have the View Item Attachments List privilege. Likewise, if you want to copy the item's people, you must have the View Item People List privilege for the base item.

Select the Create Multiple Items option.

2. On the **Create Items: Enter Items** page, enter the required information.

The item catalog category definition determines the new item's Item Number and Item Description generation method. The Item Number already appears when the item catalog category specifies that it is sequence-generated. If the category specifies that the Item Number or Item Description is user entered, then enter an Item Number or Item Description. A function-generated Item Number or Item Description is generated after the item and description attributes are entered.

For details about defining item catalog categories, see Creating Item Catalog Categories, page 2-1.

3. On the **Create Items: Enter Primary Attributes** page, check to ensure the values entered are correct before submitting the item.

You can select an item template to default values for operational and user-defined attributes. Note that for items requiring an approval request, only the user-defined

attribute values default from the item template. After the item is approved you can edit the operational attributes.

If you are creating the new items from an item catalog category, and there is no approval request associated with that item catalog category, then you can submit the item for creation at this point.

4. If you are creating new items by copying an existing item, on the **Copy Items: Item Details** page, add or remove attributes, attachments, organizations, people, and categories. Note that organizations and categories do not appear on the **Copy Items: Item Details** page when there is an approval request associated with the item catalog category.

Note: Remember that data associated with attributes, attachments, people, etc. of the copied/base item only appears if you have the appropriate privileges on that base item. Also note that operational attributes are only copied if the items do not require an approval request.

If there is no approval request associated with the item catalog category, then submit the new items for creation. If there is an approval request associated with the item catalog category, then proceed to the next step.

5. On the **Create Item Request** page, you can customize/edit the new items' approval request.

The Assignee is defaulted based on the item catalog category role specified in the assignment rule for new item requests.

Use the Priority and Reason codes to track the degree of urgency and the reason for requesting the new item.

You can submit the new items' request or save it if you wish to enter additional information later. If you save it for later, the new items' request is saved with a Draft status. Upon submission, an assignment notification is sent via e-mail.

Important: For new items that require an approval, you can choose a Lifecycle, but not a Lifecycle Phase. Instead, the item status defaults to the first Lifecycle Phase of the selected Lifecycle.

All new items requiring approval have the item status Pending. After the new items are approved, you can change the Item Status to enable the item for viewing/use outside of APC--you can also define or update the operational attributes.

Managing Item Imports

You can import items using the Item Open Interface. Additionally, you can import people and user attributes for items. The Open Interface program validates all data before importing it into the production tables.

To import items:

1. Load the Item Open Interface table (MTL_SYSTEM_ITEMS_INTERFACE) with the data you want to import. For detailed help on loading the Open Interface tables, refer to the *Oracle Manufacturing Open Interfaces and APIs* manual.

2. Navigate to the Inventory Responsibility in Oracle Applications, and click the Inventory link. Then click the Items link
3. Click the Import link.
4. Click the Import Items link.

Note: The Parameters form automatically appears when you select a request that requires parameter values.

5. After entering the values in the required parameter fields, click OK.
6. Click Submit.

To import user attributes for items:

1. Load the Item User-defined Attributes Open Interface table (EGO_ITM_USR_ATTR_INTRFC, page 8-11) with the data you want to import. For detailed help on loading the Open Interface tables, refer to the *Oracle Manufacturing Open Interfaces and APIs* manual.
2. Navigate to the Inventory Responsibility in Oracle Applications, and click the Inventory link. Then click the Items link
3. Click the Import link.
4. Click the Import Item/Item Revision User Attributes link.

Note: The Parameters form automatically appears when you select a request that requires parameter values.

5. After entering the values in the required parameter fields, click OK.
6. Click Submit.

To import item people:

1. Load the Item People Open Interface table (EGO_ITEM_PEOPLE_INTF, page 8-15) with the data you want to import. For detailed help on loading the Open Interface tables, refer to the *Oracle Manufacturing Open Interfaces and APIs* manual.
2. Navigate to the Inventory Responsibility in Oracle Applications, and click the Inventory link. Then click the Items link
3. Click the Import link.
4. Click the Import Item People link.

Note: The Parameters form automatically appears when you select a request that requires parameter values.

5. After entering the values in the required parameter fields, click OK.
6. Click Submit.

EGO_ITM_USR_ATTR_INTRFC

The following table shows the columns in the EGO_ITM_USR_ATTR_INTRFC database table. For more details about the columns in EGO_ITM_USR_ATTR_INTRFC, see EGO_ITM_USR_ATTR_INTRFC Details, page 8-13.

EGO_ITM_USR_ATTR_INTRFC table

Column Name	Data Type	Required?
EGO_ITM_USR_ATTR_INTRFC		
TRANSACTION_ID	NUMBER	Yes
PROCESS_STATUS	NUMBER	Yes
DATA_SET_ID	NUMBER	Yes
ORGANIZATION_CODE	VARCHAR2(3)	Yes
ITEM_NUMBER	VARCHAR2(81)	Yes
REVISION	VARCHAR2(30)	
ROW_IDENTIFIER	NUMBER	Yes
ATTR_GROUP_INT_NAME	VARCHAR2(30)	Yes
ATTR_INT_NAME	VARCHAR2(30)	Yes
ATTR_VALUE_STR	VARCHAR2(150)	
ATTR_VALUE_NUM	NUMBER	
ATTR_VALUE_DATE	DATE	
ATTR_DISP_VALUE	VARCHAR2(150)	
TRANSACTION_TYPE	VARCHAR2	Yes
ORGANIZATION_ID	NUMBER	
INVENTORY_ITEM_ID	NUMBER	
ITEM_CATALOG_GROUP_ID	NUMBER	
REVISION_ID	NUMBER	
ATTR_GROUP_ID	NUMBER	
REQUEST_ID	NUMBER	
PROGRAM_APPLICATION_ID	NUMBER	
PROGRAM_ID	NUMBER	
PROGRAM_UPDATE_DATE	Date	
CREATED_BY	NUMBER(15)	Yes
CREATION_DATE	DATE	Yes
LAST_UPDATED_BY	NUMBER(15)	Yes
LAST_UPDATE_DATE	DATE	Yes
LAST_UPDATE_LOGIN	NUMBER(15)	

EGO_ITM_USR_ATTR_INTRFC Column Details

TRANSACTION_ID

The Primary Key for this table; its value must be generated from the sequence EGO_IUA_TRANSACTION_ID_S.

PROCESS_STATUS

Whether this row has yet to be processed, is currently being processed, encountered an error, or was successfully processed; its value should correspond to the following constants in EGO_ITEM_USER_ATTRS_CP_PUB: G_PS_TO_BE_PROCESSED, G_PS_IN_PROCESS, G_PS_ERROR, and G_PS_SUCCESS.

DATA_SET_ID

The identifier for a group of rows to be processed together; all rows being processed as part of a single request must share the same DATA_SET_ID, whose value must be generated from the sequence EGO_IUA_DATA_SET_ID_S.

The following column values will be validated and used to populate the ORGANIZATION_ID, INVENTORY_ITEM_ID, ITEM_CATALOG_GROUP_ID, and REVISION_ID columns.

ORGANIZATION_CODE

The organization to which the Item belongs; currently, user-defined attributes are supported only for master organizations, and the organization code is validated to ensure that it refers to a master organization.

ITEM_NUMBER

The item number (such as, concatenated segments) for the item.

REVISION

The three-letter code for the current revision of the item (only used if the attribute group is associated at the item revision level; for attribute groups associated at the item level, leave NULL).

Because the user-defined attributes framework is so flexible, its structure must be flattened out for this interface table. To understand this flattening it is useful to first define a logical attribute group row. For single-row attribute groups, the logical attribute group row is just the collection of attributes in the attribute group, but for multi-row attribute groups, each row in the attribute group is a logical attribute group row. For example, the single-row attribute group "Dimensions," with Attributes "Width" and "Height," has only one logical attribute group row, but multi-row attribute group "Orders," with attributes "Date" and "Price" has as many logical attribute group rows as there are separate orders to be recorded.

Every interface table row contains data for one attribute in a logical attribute group row, and a logical attribute group row spans as many interface table rows as there are attributes in the logical attribute group row. To keep these flattened-out logical attribute group rows in order, there is the ROW_IDENTIFIER column, which uniquely identifies each logical attribute group row (for example, all attributes with the same ROW_IDENTIFIER value will belong to the same logical attribute group row). Thus, if a multi-row attribute group has ten attributes and three rows of values (for example, three logical attribute group rows), then there will be thirty interface table rows for the attribute group and three distinct ROW_IDENTIFIER values in those thirty rows.

ROW_IDENTIFIER

The grouping identifier for a logical attribute group row; its value must be the same for all interface table rows in the logical attribute group row, and no two logical attribute group rows in the same data set may share the same ROW_IDENTIFIER value.

ATTR_GROUP_INT_NAME

The internal name of the attribute group to which the current interface table row's attribute belongs.

ATTR_INT_NAME

The internal name of the attribute for which the current interface table row holds a value.

ATTR_VALUE_STR

The value for the current interface table row's attribute if its data type is string.

ATTR_VALUE_NUM

The value for the current interface table row's attribute if its data type is number.

ATTR_VALUE_DATE

The value for the current interface table row's attribute if its data type is date. Values will be converted to and from date data types using the format specified in EGO_USER_ATTRS_DATA_PVT.G_DATE_FORMAT.

ATTR_DISP_VALUE

The value for the current interface table row's attribute (as a string, regardless of its data type) if the attribute has a value set with separate display and internal values (for example, value sets with validation type of independent or table). In all other cases, use the preceding three columns.

TRANSACTION_TYPE

The mode of processing for a logical attribute group row; its value should correspond to the following constants in EGO_USER_ATTRS_DATA_PVT: G_DELETE_MODE, G_UPDATE_MODE, G_SYNC_MODE (which either creates or updates, as appropriate), and G_CREATE_MODE. Note that rows will be processed in the order they were just presented (for example, deletion first, followed by updates and synchronization, with creation last), in accordance with Oracle Applications standards. Typical values of these constants are: CREATE, SYNC, UPDATE, or DELETE.

ORGANIZATION_ID

This column is for internal use, and any user-entered values are ignored.

INVENTORY_ITEM_ID

This column is also for internal use, but the user may enter the inventory item ID if known. If the inventory item ID is passed for a given item number, it will save conversion time from item number into inventory item ID; the inventory item ID will still be validated internally, because it will be used with the organization ID to find the item catalog group ID (so rows with invalid inventory item IDs will time-out during the item catalog ID fetching step).

ITEM_CATALOG_GROUP_ID

This column is for internal use, and any user-entered values are ignored.

REVISION_ID

This column is for internal use, but the user may enter the revision ID if known (and if this interface table row belongs to an attribute group that is associated at the item revision level). Doing so will save conversion time.

ATTR_GROUP_ID

This column is provided in case the user knows the attribute group ID for this interface table row's attribute group. If left blank, the attribute group internal name is used to identify the attribute group.

REQUEST_ID

This column is for internal use (to record the concurrent program request that ordered the processing of this row).

PROGRAM_APPLICATION_ID

This column is for internal use (to record the application ID of the concurrent program that processed this row).

PROGRAM_ID

This column is for internal use (to record the ID of the concurrent program that processed this row).

PROGRAM_UPDATE_DATE

This column is for internal use (to record the time the concurrent program processed this row).

The remaining columns are the standard "Who" columns, and their values must be entered when you load the interface table.

EGO_ITEM_PEOPLE_INTF

The following table shows the columns in the EGO_ITEM_PEOPLE_INTF database table. For more details about the columns in EGO_ITEM_PEOPLE_INTF, see EGO_ITEM_PEOPLE_INTF Details, page 8-16.

EGO_ITEM_PEOPLE_INTF table

Column Name	Data Type	Required?
INVENTORY_ITEM_ID	NUMBER(15)	No
ORGANIZATION_ID	NUMBER(15)	No
GRANTEE_PARTY_ID	NUMBER(15)	No
INTERNAL_ROLE_ID	NUMBER(15)	No
INTERNAL_ROLE_NAME	VARCHAR2(30)	No
LAST_UPDATE_DATE	DATE	No
LAST_UPDATED_BY		No
CREATION_DATE	DATE	No
CREATED_BY	NUMBER(15)	No
LAST_UPDATE_LOGIN	NUMBER(15)	No
REQUEST_ID	NUMBER(15)	No
PROGRAM_APPLICATION_ID	NUMBER(15)	No
PROGRAM_ID	NUMBER(15)	No
PROGRAM_UPDATE_DATE	DATE	No
ITEM NUMBER	VARCHAR2(81)	Yes
ORGANIZATION_CODE	VARCHAR2(3)	Yes
DISPLAY_ROLE_NAME	VARCHAR2(80)	Yes
GRANTEE_TYPE	VARCHAR2(8)	Yes
GRANTEE_NAME	VARCHAR2(360)	Yes
START_DATE	DATE	Yes
END_DATE	DATE	No
TRANSACTION_TYPE	VARCHAR2(10)	Yes
TRANSACTION_ID	NUMBER(15)	Yes
PROCESS_STATUS	NUMBER(15)	Yes
DATA_SET_ID	NUMBER(15)	Yes

EGO_ITEM_PEOPLE_INTF Column Details

INVENTORY_ITEM_ID

Identifier for the Inventory item on which the role is to be granted. The value is obtained from MTL_SYSTEM_ITEMS_B for a given item. This column is also for internal use, but the user may enter the inventory item ID if known. If the inventory item ID is passed for

a given item number, it will save conversion time from item number into inventory item ID; the inventory item ID will still be validated internally.

ORGANIZATION_ID

The item ID and the organization ID form the unique key combination on which the role is to be granted.

GRANTEE_PARTY_ID

The person ID, group ID or part ID that gets the grant on the item ID and organization ID.

INTERNAL_ROLE_ID

The identifier of the role to be granted.

INTERNAL_ROLE_NAME

The internal role definition name; this name is unique.

LAST_UPDATE_DATE

One of the five standard "WHO" columns.

LAST_UPDATED_BY

One of the five standard "WHO" columns.

CREATION_DATE

One of the five standard "WHO" columns.

CREATED_BY

One of the five standard "WHO" columns.

LAST_UPDATE_LOGIN

One of the five standard "WHO" columns.

REQUEST_ID

The concurrent program submission request ID.

PROGRAM_APPLICATION_ID

The concurrent program application ID. This column is for internal use to record the application ID of the concurrent program that processed this row.

PROGRAM_ID

The concurrent program ID. This column is for internal use to record the ID of the concurrent program that processed this row.

PROGRAM_UPDATE_DATE

The concurrent program update date. This column is for internal use to record the time the concurrent program processed this row.

ITEM_NUMBER

The inventory item number (such as, concatenated segments) for the item. The INVENTORY_ITEM_ID is derived from the ITEM_NUMBER.

ORGANIZATION_CODE

The Inventory Organization Code. Should be one of the values in the MTL_PARAMETERS table column ORGANIZATION_CODE.

DISPLAY_ROLE_NAME

The display name for the role; this is one of the values in the FND_MENUS_VL table column USER_MENU_NAME.

GRANTEE_TYPE

The type of grantee. Has one of the following values: USER, GROUP, or GLOBAL.

GRANTEE_NAME

The name of the grantee. This name can be a user name, group name, or all users, depending on the grantee type specified (PERSON, GROUP or GLOBAL).

START_DATE

The grant start date. The grantee gains access to the item on this date.

END_DATE

The grant end date. The grantee loses access to the item on this date.

TRANSACTION_TYPE

The type of transaction. Valid values are: CREATE, SYNC, UPDATE, or DELETE.

TRANSACTION_ID

The unique identifier of the line. The value is retrieved from EGO_IPI_TRANSACTION_ID_S.

PROCESS_STATUS

Indicates the status of the line. Values are:

1 - To Be Processed, 2 - In Process, 3 - Error, 4 - Success, 5 - Warning

DATA_SET_ID

Unique identifier that indicates the subset of data to be processed (like the job ID). Each line that is newly uploaded in the interface table needs to be assigned a unique ID that is be used during the concurrent program request submission. The value is selected from the PL/SQL API: EGO_ITEM_PEOPLE_IMPORT_PKG.get_curr_dataset_id.

Importing Items Using a Spreadsheet

You can use a Microsoft Excel spreadsheet to import items into Oracle Advanced Product Catalog. Before doing so, you must first have defined import formats for the particular item catalog category you wish to use, and you must also have the appropriate version of the Excel spreadsheet installed.

You can use the same spreadsheet for multiple uploads, and also across different sessions for the same user. To upload the same spreadsheet during another session, open the spreadsheet you wish to upload, and select Upload from the Oracle menu in the menu bar. After you log in and choose the appropriate responsibility, you can immediately begin to upload this spreadsheet again.

Whenever you enter new or existing data in the spreadsheet, the Upl column displays a flag, making it easier to scan the spreadsheet and for rows that have been changed.

You can include multi-row attribute groups in your item import formats. To do so, make sure that the rows in the spreadsheet that you are using for updating multi-row

attributes do not contain any attribute values other than the org code, item number, item revision (if applicable), and the user-defined multi-row attribute values.

Caution: If you include values for other primary (for example, item status, or lifecycle) or single-row user-defined attributes in the same rows as the multi-row attributes, then the updates will fail.

Items uploaded to Advanced Product Catalog from a spreadsheet become, by default, Engineering items. If you wish to upload a non-Engineering item, then include an available base attribute column called "Engineering Item Flag" in your import format. When uploading the spreadsheet, identify such items in this column by specifying the value "Yes" or "No" in this column. If you leave the column blank, the item once again defaults to an Engineering item.

To import items using a spreadsheet:

1. In the Applications tree menu, click the Import from Excel link.
2. On the **Import** page, select the type of object you wish to import and click Continue.

Note: An import format should already be defined for items or item revisions. Item categories do not have a defined import format that is associated with an item catalog category. Instead, a predefined format is used for all item category imports. The columns in this format are identical to the interface table.

3. On the **Import: Item** page, select an item catalog category and then click Go. The item catalog category determines which import formats are available for use.

Note: If you do not select an item catalog category, the default System Item import format is available for use. If an import format has not yet been defined for an item catalog category that you select, then the default System Item import format is available for use. The System Item import format does not appear if you select an item catalog category that already has import formats defined. Neither users nor the system administrator can modify the System Item import format.

4. When the **Import: Item** page refreshes with the import formats available for the item catalog category, select the import format you wish to use and click Import.

Note: If a default import format has been specified for the item catalog category, it will already be selected.

5. On the **Select Settings** page, select the version of Excel that you are using and click Next. You cannot enable or disable Reporting. Also, Language has only one choice, which is already selected.
6. A Download window presents processing messages. Click Close when the transfer is complete. The Excel spreadsheet also opens.
7. In the spreadsheet, base attributes are listed first (on the left), and user-defined attributes appear after (on the right). When entering values into the spreadsheet, you must use one of the following Transaction Types:

Sync

If the item already exists, the spreadsheet values are used to update it. If the item does not already exist, a new one is created using the spreadsheet values. If the Sync creates a new item, then the mandatory attributes for Create are also mandatory for the Sync. If the Sync updates an existing item, then the mandatory attributes for Update are also mandatory for the Sync.

Create

A new item is created using the values entered in the spreadsheet. The following attributes are mandatory when using this transaction type:

- Item
- Organization Code
- Primary Unit of Measure
- Description

Note: Description is a base attribute, but appears on the right side of the spreadsheet among the user-defined attributes. It is placed here so that long descriptions will not disrupt the flow of the spreadsheet.

Make a note of the Result Format Usage ID at the top of the spreadsheet. You will need this ID later when you upload the spreadsheet in Advanced Product Catalog.

You can also make updates to multi-row attributes, page 8-29.

8. After data entry is complete, select Upload from the Oracle menu in the toolbar.
9. In the **Upload Parameters** window, enter the Result Format Usage ID and check the Automatically Submit Concurrent Process box, and then click Proceed to Upload.
10. In the **Oracle Web ADI** window, click Upload. After the upload process completes, a message appears with the Concurrent Request number. Make a note of this number, as you will need it later when you access the view log for the concurrent request. Click Close when the process messages complete.
11. Return to the Applications tree menu and click the View Concurrent Requests link.

Note: It is recommended that you review the concurrent process view log to ensure that the upload process was successful.

12. On the **View Concurrent Requests** page, click the Details icon.
13. On the **Request Details** page, click View Log.
14. From the View Log, paste the URL string in a web browser to view any errors. If no errors appear, the upload was successful.

Importing Item Revisions Using a Spreadsheet

You can use a Microsoft Excel spreadsheet to import item revisions into Oracle Advanced Product Catalog. Before doing so, you must first have defined import formats, page 2-4 for the particular item catalog category you wish to use, and you must also have the appropriate version of the Excel spreadsheet installed.

You can use the same spreadsheet for multiple uploads, and also across different sessions for the same user. To upload the same spreadsheet during another session, open the spreadsheet you wish to upload, and select Upload from the Oracle menu in the menu bar. After you log in and choose the appropriate responsibility, you can immediately begin to upload this spreadsheet again.

Whenever you enter new or existing data in the spreadsheet, the Upl column displays a flag, making it easier to scan the spreadsheet and for rows that have been changed.

Item revisions uploaded to Advanced Product Catalog from a spreadsheet become, by default, Engineering items. If you wish to upload a non-Engineering item, then include an available base attribute column called "Engineering Item Flag" in your import format. When uploading the spreadsheet, identify such items in this column by specifying the value "Yes" or "No" in this column. If you leave the column blank, the item once again defaults to an Engineering item.

To import item revisions using an Excel spreadsheet:

1. In the Applications tree menu, click the Import from Excel link.
2. On the **Import** page, select the Item Revision and click Continue.

An import format should already be defined for items or item revisions. Item categories do not have a defined import format that is associated with an item catalog category. Instead, a predefined format is used for all item category imports. The columns in this format are identical to the interface table.

3. On the **Import: Item Revision** page, select an item catalog category and then click Go. The item catalog category determines which import formats are available for use.

Note: If you do not select an item catalog category, the default System Item import format is available for use. If an import format has not yet been defined for an item catalog category that you select, then the default System Item import format is available for use. The System Item import format does not appear if you select an item catalog category that already has import formats defined. Neither users nor the system administrator can modify the System Item import format.

4. When the **Import: Item Revision** page refreshes with the import formats available for the item catalog category, select the import format you wish to use and click Import. If a default import format has been specified for the item catalog category, it will already be selected.
5. On the **Select Settings** page, select the version of Excel that you are using and click Next. You cannot enable or disable Reporting. Also, Language has one choice, which is already selected.
6. A Download window presents processing messages. Click Close when the transfer is complete. The Excel spreadsheet also opens.
7. In the spreadsheet, base attributes are listed first (on the left), and user-defined attributes appear after (on the right). When entering values into the spreadsheet, you must use one of the following Transaction Types:

Sync

If the item revision already exists, the spreadsheet values are used to update it. If the item revision does not already exist, it is created using the spreadsheet values. If the Sync creates a new item revision, then the mandatory attributes for Create are also mandatory for the Sync. If the Sync updates an existing item revision, then the mandatory attributes for Update are also mandatory for the Sync

Create

A new item revision is created using the values entered in the spreadsheet. The following attributes are mandatory when using this transaction type:

- Item
- Organization Code
- Revision Code
- Description
- Revision
- Revision Label
- Effectivity Date

Note: Description is a base attribute, but appears on the right side of the spreadsheet among the user-defined attributes. It is placed here so that long descriptions will not disrupt the flow of the spreadsheet.

Update

Existing item revisions are updated using the values entered in the spreadsheet. The following attributes are mandatory when using this transaction type:

- Item
- Organization Code
- Revision Code

Make a note of the Result Format Usage ID at the top of the spreadsheet. You will need this ID later when you upload the spreadsheet in Advanced Product Catalog.

You can also make updates to multi-row attributes, page 8-29.

8. After data entry is complete, select Upload from the Oracle menu in the toolbar.
9. In the **Upload Parameters** window, enter the Result Format Usage ID and check the Automatically Submit Concurrent Process box, and then click Proceed to Upload.
10. In the **Oracle Web ADI** window, click Upload. After the upload process completes, a message appears with the Concurrent Request number. Make a note of this number, as you will need it later when you access the view log for the concurrent request. Click Close when the process messages complete.
11. Return to the Applications tree menu and click the View Concurrent Requests link.

Note: It is recommended that you check the concurrent process view log to ensure that the upload process was successful.

12. On the **View Concurrent Requests** page, click the Details icon.
13. On the **Request Details** page, click View Log.

14. From the View Log, paste the URL string in a web browser to view any errors. If no errors appear, the upload was successful.

Importing Item Categories Using a Spreadsheet

You can use a Microsoft Excel spreadsheet to import item categories in Oracle Advanced Product Catalog. Before doing so, you must also have the appropriate version of the Excel spreadsheet installed.

Whenever you enter new or existing data in the spreadsheet, the Upl column displays a flag, making it easier to scan the spreadsheet and for rows that have been changed.

To import item categories using an Excel spreadsheet:

1. In the Applications tree menu, click the Import from Excel link.
2. On the **Import** page, select Item Categories and click Continue.

Item categories do not have a defined import format that is associated with an item catalog category. Instead, a predefined format is used for all item category imports. The columns in this format are identical to the interface table.
3. On the **Import: Item Category Assignment** page, click Import. When your spreadsheet opens, it will display the same item category columns that appear on this page.
4. On the **Select Settings** page, select the version of Excel that you are using and click Next.

You cannot enable or disable Reporting. Also, Language has one choice, which is already selected.

5. A Download window presents processing messages. Click Close when the transfer is complete. The Excel spreadsheet also opens. Note that the columns that appeared on the **Import: Item Category Assignment** page have been exported to the spreadsheet.
6. When entering values into the spreadsheet, you must use one of the following Transaction Types:

Create

A new item is created using the values entered in the spreadsheet. The following attributes are mandatory when using this Transaction Type:

- Item
- Organization Code
- Catalog
- Category

Update

Existing items are updated using the values entered in the spreadsheet. The following attributes are mandatory when using this Transaction Type:

- Item
- Organization Code
- Catalog

- Category

Make a note of the Record Set ID at the top of the spreadsheet. You will need this ID later when you upload the spreadsheet to Advanced Product Catalog.

7. After data entry is complete, select Upload from the Oracle menu in the toolbar.
8. In the Upload Parameters window, enter the Record Set ID.

In the Upload Processed Records menu, select Yes. If you select No, your data is sent to the user interface table only and is not processed; Consequently, debugging is not possible.

In the Delete Processed Records menu, select No. If you select Yes, all records corresponding to the current Record Set ID are cleared from the interface table.

Click Proceed to Upload.

9. In the **Oracle Web ADI** window, wait for the Ready message and click Upload.

Show Trace Messages is, by default, not selected. Do not change this setting unless you wish to have trace information provided via your parameters.

Clicking Parameters enables you to modify your parameters.

Important: When the Upload completes, a Concurrent Request Number appears in this window. Make note of this number, as you can later use it to view the results of the upload process (for example, to view whether or not the upload was successful).

10. If you do not wish to confirm that the upload was successful, you are done. If you wish to view the results of the upload process, return to the Applications tree menu and click the View Concurrent Requests link.

It is recommended that you check the concurrent process view log to ensure that the upload process was successful.

11. On the **Requests** page, select Completed and click Go. Look for your Concurrent Request Number to locate your process. If it does not appear, wait and repeat this step. You can also select Pending and click Go to view pending requests. Locate your process in the Results table and click the Details icon.
12. On the **Request Details** page, click View Log.
13. From the View Log, paste the URL string in a web browser to view any errors. If no errors appear, the upload was successful.

Importing Item Organization Assignment Using a Spreadsheet

You can use a Microsoft Excel spreadsheet to import item organization assignments into Oracle Advanced Product Catalog (APC).

You can use the same spreadsheet for multiple uploads, as well as across different sessions for the same user. To upload the same spreadsheet in another session, open the spreadsheet and select Upload from the Oracle menu in the tool bar. After you log in and select the appropriate responsibility, you can begin uploading the spreadsheet again.

Whenever you enter new or existing data in the spreadsheet, the Upl column displays a flag, making it easier to scan the spreadsheet for rows that have been changed.

Import Item Organization Assignment Using a Spreadsheet:

1. In the **Navigators** page, click the **Import from Excel** link. This link is located under **Batch Import : Import Items**.
2. In the **Import** page, select Item Organization Assignment and click **Continue**.
3. In the **Import: Item Organization Assignment** page, click **Import**.
4. In the **Select: Viewer** page, select the appropriate version of Excel and click **Next**.

The **Processing: Creating Document** page appears. Wait until the Excel application is ready.

The **Confirmation** page appears. An Excel spreadsheet opens and the **Confirmation** page returns to the **Navigators** page. Alternately, click **Return** to return to the **Navigators** page.

Enter Data in the Spreadsheet:

1. Enter the organization assignments for each item in the spreadsheet.
Organization Code - Select your organization from the drop down list.
Item - Enter the item number. For instance, M1000.
Primary Unit of Measure - Enter the display name of the unit of measure. For instance, Each.
Note the **Set Process ID** at the top of the spreadsheet. You will need it to upload the spreadsheet in Oracle APC.
2. Select **Upload** from the Oracle menu in the tool bar.
3. In the **Upload Parameters** window, enter the **Set Process ID** and click **Upload**.
4. After upload, a message appears with the Concurrent Request number. Note this number. You will need it to verify the view log for the concurrent request. Click **Close** when the process messages complete.

Tip: It is recommended that you review the concurrent process view log to ensure that the upload was successful.

View Concurrent Requests:

1. Return to the **Navigators** page and click the **View Concurrent Requests** link. This link is located under **Workflow and Request**.
2. In the **Requests** page, click the **Details** icon.
3. In the **Request Details** page, click **View Log**. If no errors are declared in the view log, the upload was successful.

Importing Item People Assignment Using a Spreadsheet

You can use a Microsoft Excel spreadsheet to import item people assignments into Oracle Advanced Product Catalog (APC).

You can use the same spreadsheet for multiple uploads, as well as across different sessions for the same user. To upload the same spreadsheet in another session, open the spreadsheet and select Upload from the Oracle menu in the tool bar. After you log in and select the appropriate responsibility, you can begin uploading the spreadsheet again.

Whenever you enter new or existing data in the spreadsheet, the Upl column displays a flag, making it easier to scan the spreadsheet for rows that have been changed.

Import Item People Assignment Using a Spreadsheet:

1. In the **Navigator** page, click the **Import from Excel** link. This link is located under **Batch Import : Item Imports**.
2. In the **Import** page, select Item People Assignment and click **Continue**.
3. In the **Import: Item People Assignment** page, click **Import**.
4. In the **Select: Viewer** page, select the appropriate version of Excel and click **Next**.

The **Processing: Creating Document** page appears. Wait until the Excel application is ready.

The **Confirmation** page appears. An Excel spreadsheet opens and the **Confirmation** page returns to the **Navigator** page. Alternately, click **Return** to return to the **Navigator** page.

Enter Data in the Spreadsheet:

1. Use one of the following Transaction Types when entering values into the spreadsheet:
 - **Create**
Select this option to create a new item people assignment using the values entered in the spreadsheet.
 - **Delete**
Select this option to delete an existing item people assignment.
 - **Sync**
Select this option to:
 - Create an item people assignment if it does not exist in the system.
 - Update an item people assignment if it exists in the system.
 - **Update**
Select this option to update an existing item people assignment using the values entered in the spreadsheet.

Note: You can update the End Date only in an existing item people assignment.

Note the **Data Set ID** at the top of the spreadsheet. You will need it to upload the spreadsheet in Oracle APC.

2. Enter values for the attributes.
Transaction Type - Select the appropriate transaction type from the drop down list.
Organization Code - Select your organization from the drop down list.
Item - Enter the item number. For instance, M1000.
Role - Select the display name of the role from the drop down list. For instance, Design Engineer.

Type - Select the type of user from the drop down list. For instance, Group.

Name - Enter the name of the person, group, or company. Leave the cell empty for type 'All Users.'

Start Date - Enter the start date of the grants. Date format - mm/dd/yyyy.

End Date - Enter the end date of the grant. Date format - mm/dd/yyyy.

3. Select **Upload** from the Oracle menu in the tool bar.
4. In the **Upload Parameters** window, enter the **Data Set ID** and click **Upload**.
5. After upload, a message appears with the Concurrent Request number. Note this number. You will need it to verify the view log for the concurrent request. Click **Close** when the process messages complete.

Tip: It is recommended that you review the concurrent process view log to ensure that the upload was successful.

View Concurrent Requests:

1. Return to the **Navigator** page and click the **View Concurrent Requests** link. This link is located under **Workflow and Request**.
2. In the **Requests** page, click the **Details** icon.
3. In the **Request Details** page, click **View Log**. If no errors are declared in the view log, the upload was successful.

Updating Existing Items Using a Spreadsheet

You can use a Microsoft Excel spreadsheet to edit/update existing items in Oracle Advanced Product Catalog. Before doing so, you must also have the appropriate version of the Excel spreadsheet installed.

Whenever you enter new or existing data in the spreadsheet, the Upl column displays a flag, making it easier to scan the spreadsheet and for rows that have been changed.

Items uploaded to Advanced Product Catalog from a spreadsheet become, by default, Engineering items. If you wish to upload a non-Engineering item, then include an available base attribute column called "Engineering Item Flag" in your import format. When uploading the spreadsheet, identify such items in this column by specifying the value "Yes" or "No" in this column. If you leave the column blank, the item once again defaults to an Engineering item.

To update existing items, you must first search for the items, and then import the search results into the spreadsheet. Using this mass import/update saves you time, as the spreadsheet now contains the attributes/columns need to update the specific items you wish to change.

To update existing items using an Excel spreadsheet:

1. In the Applications tree menu, use either of the searches (Simple or Advanced) to locate the item you wish to update.
2. On the **Item Search Results** page, click Export all Items.

3. On the **Select Settings** page, select the version of Excel that you are using and click Next. You cannot enable or disable Reporting. Also, Language has one choice, which is already selected.
4. A Download window presents processing messages. Click Close when the transfer is complete. The Excel spreadsheet also opens. Note that all your search results have been exported to the spreadsheet.
5. In the spreadsheet, base attributes are listed first (on the left), and user-defined attributes appear after (on the right). When entering values into the spreadsheet, you must use one of the following Transaction Types:

Sync

If the item already exists, the spreadsheet values are used to update it. If the item does not already exist, a new one is created using the spreadsheet values. If the Sync creates a new item, then the mandatory attributes for Create are also mandatory for the Sync. If the Sync updates an existing item, then the mandatory attributes for Update are also mandatory for the Sync.

Create

A new item is created using the values entered in the spreadsheet. The following attributes are mandatory when using this transaction type:

- Item
- Organization Code
- Primary Unit of Measure
- Description

Note: Description is a base attribute, but appears on the right side of the spreadsheet among the user-defined attributes. It is placed here so that long descriptions will not disrupt the flow of the spreadsheet.

Update

Existing items are updated using the values entered in the spreadsheet. The following attributes are mandatory when using this transaction type:

- Item
- Organization Code

Important: Make a note of the Result Format Usage ID at the top of the spreadsheet. You will need this ID later when you upload the spreadsheet in Advanced Product Catalog.

6. After data entry is complete, select Upload from the Oracle menu in the toolbar.
7. In the **Upload Parameters** window, enter the Result Format Usage ID and check the Automatically Submit Concurrent Process box, and then click Proceed to Upload.
8. In the **Oracle Web ADI** window, click Upload. After the upload process completes, a message appears with the Concurrent Request number. Make a note of this number, as you will need it later when you access the view log for the concurrent request. Click Close when the process messages complete.

9. Return to the Applications tree menu and click the "View Concurrent Requests" link. It is recommended that you check the concurrent process view log to ensure that the upload process was successful.
10. On the **View Concurrent Requests** page, click the Details icon.
11. On the **Request Details** page, click View Log.
12. From the View Log, paste the URL string in a web browser to view any errors. If no errors appear, the upload was successful.

Updating Multi-Row Attributes in a Spreadsheet

When creating or updating items/item revisions using a spreadsheet, you can provide values for multi-row attributes. When updating an item/item revision's multi-row attributes, you only provide the values for the multi-row attributes; you cannot make changes to the base attributes--doing so results in errors.

To create or update an item's multi-row attributes in a spreadsheet:

1. Perform steps 1-7 in the Importing Items Using a Spreadsheet, page 8-18 procedure.
2. In the spreadsheet, copy the row for the item (or item revision) and paste it into the next row. Then, delete the values of the base attributes in the new row. You must delete the values of the base/single row attributes; if you do not, errors will occur.

Note: By default, the spreadsheet is protected. To copy/paste rows, select the Tools menu, then select Protection, and then select Unprotect.

3. Ensure that the unique key remains the same. After you have a row containing the same unique key as the item (or item revision) whose multi-row attributes you wish to update, and the base/single row attributes are removed, you can enter values for the multi-row attributes. In the following spreadsheet the unique key (Org Code and Item) in the second and third rows remain the same; the base attributes have been deleted, and the multi-row attribute (Product Name, Impact Classification) values are provided.

Sample Spreadsheet with Multi-Row Attribute

Result Format Usage ID										12384
Upl	Transa	Org Code	Item	UOM	Priority	Planning Status	Design Contact	Product Name	Impact Classification	Description
	SYNC	V1	keyboard_99	Each	High	Planned	Joyce Fee	INV - Inventory	High	Joyce Item
	SYNC	V1	keyboard_99					EQD - Engineering	Medium	
	SYNC	V1	keyboard_99					PJM - Projects	Low	

4. Make a note of the Result Format Usage ID at the top of the spreadsheet. You will need this ID later when you upload the spreadsheet in Advanced Product Catalog.
5. After data entry is complete, select Upload from the Oracle menu in the toolbar.
6. In the **Upload Parameters** window, enter the Result Format Usage ID and check the Automatically Submit Concurrent Process box, and then click Proceed to Upload.
7. In the **Oracle Web ADI** window, click Upload. After the upload process completes, a message appears with the Concurrent Request number. Make a note of this

number, as you will need it later when you access the view log for the concurrent request. Click Close when the process messages complete.

8. Return to the Applications tree menu and click the "View Concurrent Requests" link. It is recommended that you check the concurrent process view log to ensure that the upload process was successful.
9. On the **View Concurrent Requests** page, click the Details icon.
10. On the **Request Details** page, click View Log.
11. From the View Log, paste the URL string in a web browser to view any errors. If no errors appear, the upload was successful.

Managing Item Specifications

The specifications of an item are divided into structured and unstructured information. The structured item information is captured in the form of numerous attributes that are enabled for the base item, and others that are inherited from the catalog category of the item. You can also add an unlimited number of descriptions and images about an item to enrich its specification. All unstructured item information can be added as an attachment to the item.

Most of the item specification information is available at the item revision level as well, which enables you to keep track of the specification information by item revision. For information that is tracked at the revision level, you can perform all of the following actions for each item revision.

To update item attributes:

1. Locate the item whose attributes you wish to update.
2. On the item's **Primary Attributes** page, click the Specifications tab.
3. Select Update from the Action list and click Go.
4. On the **Update Item** page, update the attributes and click Apply.

Important: The Primary UOM cannot be updated. Also, you can update the catalog category, but the only available choices are child categories of the currently specified catalog category. For example, if the currently specified catalog category is "Electrical housing," then as you update the catalog category, the list of values available to you will only be child categories of "Electrical housing." If the lifecycle and lifecycle phase are not editable, it is because they have already been defined and are in use. If these fields are editable, it is because they have not yet been defined.

To add to the 'Detailed Description' section:

1. Locate the item for which you wish to add a detailed description.
2. On the item's **Primary Attributes** page, click the arrow next to Detailed Description to expand it.
3. Click Update.
4. On the **Item Detail Document Attributes** page, click Add.

5. On the **Detailed Description** page, provide the Label and choose an attached file for the Description. The Display Mode enables you to display the contents of the file inline or as a link.
6. Click Apply.

To update the 'Detailed Description' section:

1. Locate the item for which you wish to update the detailed description.
2. On the item's **Primary Attributes** page, click the arrow next to Detailed Description to expand it.
3. Click Update.
4. On the **Detailed Description** page, click the Edit icon for the description you wish to update.
5. Update the fields and click Apply.

Note: Use the Description Source list to select either an Attached File description or the Item Long description. If you wish to select an Attached File, then the list of values in the text input field is enabled. However, if you select the Item Long description, then Attached File is disabled and the list of values returns no results. In fact, the Attached File list of values only returns results if you've selected Item Attachments in the Description Source list. Also note that files attached using Oracle's E-Business Suite are rendered inline. Files attached using Oracle Files Online are rendered as links, regardless of what is specified in the Display As list.

To add to the 'Images' section:

1. Locate the item to which you wish to add the image.
2. On the item's **Primary Attributes** page, click the arrow next to Images to expand it.
3. Click Update.
4. On the **Item Detail Document Attributes** page, click Add.
5. On the **Images** page, provide the Sequence, a Label, and choose an attached file for the description. The Display Mode enables you to either display the contents of the image inline or as a link.
6. Click Apply.

To update the Images section:

1. Locate the item for which you wish to update the image.
2. On the item's **Primary Attributes** page, click the arrow next to Images to expand it.
3. Click Update.
4. On the **Item Detail Document Attributes** page, click the Edit icon for the image you wish to update.
5. On the **Images** page, update the fields and click Apply.

Note: Files attached using Oracle's E-Business Suite are rendered inline. Files attached using Oracle Files Online are rendered as links, regardless of what is specified in the Display As list.

Managing Item Phases

Lifecycles enable you to model the lifecycle phases of your items in a flexible manner. You can pre-establish phase level controls that determine the behavior of an item in the different modules. You can also define a list of valid item statuses within each phase. The item status in turn controls the behavior of the item in eight functional areas. There is one lifecycle definition, which is the same for the item and the item revisions. However, an item and item revisions can be in different phases even if they are using the same lifecycle definition. It is not mandatory that an item have a lifecycle; however, if the item revisions have phases, then you must have a lifecycle defined for the item.

You can promote or demote an item from its current phase. When an item enters a new phase, based on the control factors of the new phase and status, the behavior of the item will change. For example, when you move an item from the engineering phase to the production phase, you may want to place tighter controls on changes to product specifications, since that will entail significant change management efforts and costs.

You can optionally define a tracking project that will track the lifecycle of an item in a much more detailed manner. The high level tasks of the project correspond to the lifecycle phases of the associated item. The project may have a detailed work breakdown structure that corresponds to the tasks that take place during various lifecycle phases of an item.

To create a lifecycle tracking project for an item:

1. Locate the item for which you wish to create a lifecycle tracking project.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click Create Project.

If the item already has a lifecycle tracking project, the corresponding field is populated and the Create Project button is not available. You can either create a project from a template or another project by providing the template or project name. Also, you must associate a lifecycle with an item before you can create a tracking project for that item.

4. Provide the project name, project number, project manager and other required attributes.
5. Click Apply.

To promote an item to the next phase:

1. Locate the item that you wish to promote to the next lifecycle phase.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click Promote.

The Promote button is available only if the item is under lifecycle control, but does not have a lifecycle tracking project associated with it. If the item already has a lifecycle tracking project associated with it, you will only be able to promote the item to the next phase from the Projects workbench.

4. Provide the Effective Date.
5. Click Apply.

To demote an item to a previous phase:

1. Locate the item that you wish to demote to the previous lifecycle phase.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click Demote.

The Demote button is available only if the item is under lifecycle control, but does not have a lifecycle tracking project associated with it. If the item already has a lifecycle tracking project associated with it, you will only be able to demote the item to the previous phase from the Projects workbench.

4. Provide the effective date.
5. Click Apply.

To view an item change policy :

1. Locate the item for which you wish to view the change policy.
2. On the **Item Detail** page, click the Lifecycle tab.
3. Click the "Change Policy" link.

To change the item status:

1. Locate the item for which you wish to change the status.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click the "Status" link.
4. Click Demote.
5. Click Change Status.
6. Update the status and effective date.
7. Click Apply.

To implement the phase/item status changes:

1. Locate the item for which you wish to implement the phase/item status.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click the "History" link.
4. Click Implement.

Managing AMLs

You can associate a list of manufacturers and their corresponding part numbers with any item. You can also specify the manufacturer's approval status, preference level, and identify whether or not the first article has been completed. This list of manufacturers and part numbers is called an *Approved Manufacturers List* (AML). The AML for an item is often defined during the new item creation and request process. The AML is thereby reviewed and approved by all necessary people. An item AML may be updated after

item creation either manually or through a change order. The item's change policy determines for each phase of an item's lifecycle whether or not an AML can be updated and if a change order is required.

For more details about item change policies, see *Managing Item Change Policies*, page 2-18.

To specify manufacturer part numbers when creating an item:

1. On the **Create Item: Review Item Information** page (typically the second step in the create item process), click the Manufacturer Part Number tab.
2. When the page refreshes, click Add Another Row.
3. In the empty fields for the row, provide the required information.

Status

If you know the approval status of the manufacturer and manufacturer part number, select it. Otherwise, leave this field blank.

Preference Level

The Preference Level indicates whether or not the manufacturer has been designated as preferred in the item catalog category. Preference Levels range from High (most desirable) to Low (least desirable). A manufacturer can have different Preference Levels for different items--this is a result of the items being in different item catalog categories. Hence, the Preference Level is specified at the item catalog category and not editable in this context.

First Article Status

First Article Status is a milestone that indicates whether or not a manufacturer has built and/or provided the first article.

Creating Item Revisions

Items undergo changes that you may want to track using item revisions. You can associate both structured and unstructured information with item revisions.

To create an item revision:

1. Locate the item for which you wish to create a revision.
2. On the item's **Primary Attributes** page, select the Revise action and click Go.
3. On the **Revise Item** page, provide in the required information and click Apply.

To update an item revision:

1. Locate the item for which you wish to create a revision.
2. On the item's **Primary Attributes** page, click the Revisions tab.
3. On the **Revisions** page, click the revision's name link.
4. Click Update.
5. On the **Update Revision** page, update the relevant information and click Apply.

Managing Item Attachments

The specifications of an item are divided into structured and unstructured information. All unstructured information can be added to the item as an attachment.

Item attachments are available at the item revision level as well. This is to enable you to keep track of the specification information by item revision. Also, for the information that is tracked at the revision level, you can perform all of the following tasks for each item revision.

To search for attachments:

1. Locate the item with the attachments.
2. On the item's **Primary Attributes** page, click the Attachments tab.
3. On the **Attachments** page, click the "Show Simple Search" link.
4. Provide the search criteria and click Go.

To attach documents or folders:

1. Locate the item to which you want to attach a document or folder.

Note: You can attach documents from your desktop or Oracle Files Online. You can also attach text or URL documents. When you attach a document you can specify an Attachment Category to classify the document. The valid Attachment Categories are created by your system administrator. Folders can only be attached from Oracle Files Online; documents within such folders are not attached.

2. On the item's **Overview** page, click the Attachments tab.
3. On the **Attachments** page, navigate to the Add Attachment field, select the type of attachment you wish to add and the repository to which you will add it and click Go. If you wish to attach a folder, click the Attached Folders tab, and in the Add field select the repository and click Add.

Note: When attaching folders from Oracle Files Online, you do not physically attach the folder; rather, you create a reference or shortcut to the it.

4. On the **Add Attachment** page, select the attachment you wish to upload, its Attachment Category, and click Apply.
5. Log in to the repository. For example, if you chose Oracle Files Online as your repository, you would provide your Oracle Files Online username and password. You are not prompted to log in if you choose the E-Business Suite as your repository.
6. Provide all required information and click Finish.

To update attachments:

1. Locate the item with the attachment you wish to update.
2. On the item's **Primary Attributes** page, click the Attachments tab.
3. On the **Attachments** page, click the Update icon for the attachment you wish to update.

4. On the **Edit Attachment** page, make the necessary edits.
5. After updating the fields, click Finish.

To detach documents or folders:

1. Locate the item with the attachment you wish to detach.
2. On the item's **Overview** page, click the Attachments tab.
3. On the **Attachments** page, click the Detach icon for the document you wish to detach. If you wish to detach a folder, click the Attached Folders tab, and in the row of the folder you wish to delete, click the Detach icon.

Creating an attachment approval and review:


You can submit a specified attached document to the appropriate people for review and/or approval. Each approval or review consists of a number of phases; you can associate a workflow approval with each phase.

The Workflow lists the steps in the approval process. You can add steps to the process only if a workflow routing is associated with the particular phase. You cannot delete predefined (in the item catalog category) steps. You can add additional assignees to a step, but you cannot delete predefined assignees.

For more details about approvals see Managing Workflows, page 11-26.

For more details about managing attachments using Document Management, see the *Oracle Applications System Administrator's Guide*.

View pending attachment changes:



The screenshot shows the Oracle Item Catalog interface. The top navigation bar includes links for Recent, Home, Logout, Preferences, Help, and Diagnostics. The main header displays 'Item: VII0001 Revision: B' and 'Organization: Vision Operations (VI)'. The 'Attachments' tab is selected, showing a search bar and a 'Go' button. Below the search bar, there's a 'View' section with a dropdown menu set to 'AC11' and a 'Go' button. A table of attachments is displayed with columns: Action, Name, Description, Attachment Category, Last Modified By, Last Modified Date, Status, Repository, and Details. The table contains two rows of pending changes.

Action	Name	Description	Attachment Category	Last Modified By	Last Modified Date	Status	Repository	Details
Attach	add_workflow.gif		Image	Jonathan Smith	19-Apr-2005	Unapproved	EBS	View
Attach	add_repository_documents.gif		Miscellaneous	Jonathan Smith	19-Apr-2005	Unapproved	EBS	View

You can view pending attachment changes for an item from the attachments sub-tab in the item workbench. You can select a pending change from the attachments drop-down list in the View section and view change details.

Enabling Organization Assignments

Items are engineered, manufactured and distributed by physical facilities called "organizations." To enable an organization to perform one of these functions on an item, you have to first enable the item into that organization with the appropriate attributes. Some of the attributes are modifiable at the organization level. These are called organization-level attributes.

To enable an item in an organization:

1. Locate the item you wish to enable.
2. On the item's **Primary Attributes** page, click the Organizations tab.
3. On the **Assigned Organizations** page, click Assign to Organization.
4. On the **Organization Assignment** page, click Assigned in the row of each organization to which you want to assign the item. Click Assign All to assign the item to all organizations.
5. Click Apply.

Adding People

You can control the access to each individual item using data security.

Internal users are applications users with an employee reference. All internal users are granted an implicit role on all items.

External users are applications users with a supplier or customer reference. External users must be associated with each item or organization explicitly.

In addition to the people who are added explicitly at each item level, you can also add organization level roles, which provide access to all the items in that organization. Likewise, roles can be assigned at the catalog category level, in which case, any item of that catalog category will have those roles.

To add people to an item:

1. Locate the item to which you wish to add people.
2. On the item's **Primary Attributes** page, click People.
3. On the **People** page, click Update.
4. After the **People** page refreshes, click Add People. Provide the following information:

Role

Specify the role of the person you are adding.

Type

Specify the type of person you are adding (All Users, Company, Person, Group).

Start Date

Specify the date on which the person/group gains access to the item.

End Date

Specify the date on which the person/group no longer has access to the item.

5. Click Apply.

To update a person's/group's period of access:

1. Locate the item to which you wish to add people.
2. On the item's **Primary Attributes** page, click People.
3. On the **People** page, click Update.

4. After the **People** page refreshes, update the start and end dates.
5. Click Apply.

Managing Revision Phases

Lifecycles enable you to model the lifecycle phases of your item revisions in a flexible manner. You can pre-establish phase level controls that determine the behavior of an item revision in the different modules.

You can promote or demote an item revision from its current phase. When an item enters a new phase, based on the control factors of the new phase and status, the behavior of the item revision changes. For example, when you move an item from the engineering phase to the production phase, you may want to place tighter controls on changes to product specifications, since that will entail significant change management efforts and costs.

You can optionally define a tracking project that will track the lifecycle of an item revision in a much more detailed manner. The high level phases of the project correspond to the lifecycle phases of the associated item revision. The project may have a detailed work breakdown structure that correspond to the tasks taking place during various lifecycle phases of an item revision.

To promote an item revision to the next phase:

1. Locate the item for which you wish to promote the item revision.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click the Revision Phases tab.
4. On the **Revision Phases** page, click Promote.
5. On the **Promote Item** page, provide the Effective Date.
6. Click Apply.

To demote an item revision to the previous phase:

1. Locate the item for which you wish to demote the item revision.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click the Revision Phases tab.
4. On the **Revision Phases** page, click Demote.
5. On the **Demote Item** page, provide the Effective Date.
6. Click Apply.

To implement the phase changes:

1. Locate the item for which you wish to implement phase changes.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click the Revision Phases tab.
4. On the **Revision Phases** page, click "Phase History" link.
5. Click Implement.

To create a lifecycle tracking project for an item revision:

1. Locate the item for which you wish to create a lifecycle tracking project for the revision.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click the Revision Phases tab.
4. Click Create Project.
5. Create a project from either a template or another project by providing either the template or project name.
6. Provide the project name, description, project manager and other required attributes.
7. Based on the template chosen, there is a prompt for more information. Provide all the necessary information.
8. Click Apply.

Managing Projects

In addition to associating a lifecycle tracking project with an item, you can also associate multiple projects with items and item revisions. This association can be identified with a purpose. You can define your own purposes. Examples of purposes are engineering, prototyping, sourcing, and field testing.

To associate a project to an item/item revision:

1. Locate the item for which you wish to associate a project.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click Projects.
4. On the **Project Associations** page, click Associate Project.
5. On the Associate Project page, provide the following:

Item Revision

Select the particular item revision that you wish to associate with a project.

Purpose

Specify the purpose.

Project

Specify the project to be associated.

6. Select Across Organizations to enable access to this project from all organizations where this item is enabled.
7. Click Apply.

To view the projects associated with an item revision:

1. Locate the item for which you wish to view the associated project.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click Projects.

4. On the **Project Associations** page, select the item revision associated with the project, and click Go.

To navigate to a project from project associations:

1. Locate the item from which you wish to navigate to associated projects.
2. On the item's **Primary Attributes** page, click the Lifecycle tab.
3. On the **Item Phases** page, click Projects.
4. On the **Project Associations** page, click the project's name link.

Generating Reports

Item reports can be generated for one or more items from Item search results, Browse Catalog category, and Item Detail pages. You can export these Item reports in various formats like Adobe Acrobat, Rich Text format, Web page, Microsoft Excel, or XML using custom report formats. You can design report formats using familiar desktop tools such as Adobe Acrobat and Microsoft Word.

Report security is consistent with search security. You can only generate reports for item objects on which you have the required role. Also, you can only export item information in the report on which you have the required role.

To generate a report:

1. Using Item simple or advanced search, find the Items for which you want to generate the report.
2. Select Items from the search results, and click Generate Report.
3. Select the Report template and Output format.
4. Upon export, the report will be generated in the required format.

Note: You can also generate report from Browse Catalog Category and Item detail page.

Global Data Synchronization Network

Managing Items for GDSN Syndication

Important: To use these features except GTIN Cross References, you must have licensed Oracle Product Data Synchronization for GDSN and UCCnet Services. You must also set the "EGO GDSN Enabled" profile option to "Yes."

Any item in your item catalog can be enabled for GDSN syndication by assigning it to the catalog associated with the GDSN Syndication Functional Area. Once an Item is classified as GDSN Syndicated, GDSN attributes are displayed and you can begin defining GDSN attributes.

To create an item for GDSN syndication:

1. On the create Item page, select Item Catalog Category or existing Item.
2. Select GDSN syndicated.
3. On the Create Item: Enter Item/Description page, select Trade Item Unit Descriptor.
4. Add or copy GDSN attributes in the copy step.
5. In the Review Item information, view and update GDSN attributes.
6. In the Categories sub tab, view default GDSN Catalog and category assignments. You can update the category assignment, but cannot delete the GDSN Catalog assignment.
7. In the Association sub tab, add GTIN Cross-References. To find details on how to add GTIN cross-references, see Managing GTIN Cross-References., page 9-3

Note: The GDSN Syndicated flag applies only when the Item you are creating is an approved Item and doesn't require a New Item Request approval.

The GDSN Syndicated flag does not apply when creating multiple Items.

To enable an existing Item for GDSN syndication:

1. Find the item that you want to enable for GDSN syndication.
2. On the Item's overview page, click the Classification and Categories tab.
3. Check whether the item has been already enabled.

4. Click Update.
5. On selecting the GDSN Syndicated check box, the categories assignments region gets refreshed with GDSN Catalog and default category assignment.
6. You can update the category assignment, however you cannot delete the GDSN Catalog assignment.
7. Adding a GDSN Catalog Category assignment automatically selects the GDSN Syndicated checkbox.
8. Click Apply to save your changes.

Note: Once you enable an Item for GDSN Syndication, you cannot remove it. You cannot de-select the GDSN Syndication, nor delete the GDSN Catalog Category assignment. You can update the GDSN Catalog category assignments to a new GDSN category.

Import of Item Catalog Category assignments to the GDSN Catalog using Microsoft Excel automatically enables Items for GDSN Syndication.

Associating GTINS for GDSN Syndication

A GTIN uniquely identifies a trade item in the Global Registry. A GTIN is associated with each Item in the packaging hierarchy. In Product Data Synchronization for GDSN and UCCnet Services, you associate a unique GTIN number to each Item that you plan to syndicate with GDSN.

To associate a GTIN to a GDSN Syndicated Item:

1. Locate the item with which you want to associate a GTIN.
2. On the Item's Overview page, click any GDSN attributes page.
3. Click 'Associate GTIN'.
4. Associate an existing GTIN, or create a new GTIN.
 - Associate an existing GTIN:

More than one GTIN can be associated to an Item as Cross-References. In most cases, these GTINs are at a different level of the packaging hierarchy for the same product.

 1. Select the Unit of Measure.
 2. Select the GTIN.
 3. Select Item revision, if applicable.
 4. Click Apply.
 - Create a new GTIN:
 1. The GTIN Number generation varies according to your setup. If your setup specifies that the GTIN is User Entered, then enter a 14-digit GTIN number. Otherwise, your GTIN is function-generated after GTIN attributes are entered.
5. Enter a GTIN description.
6. You can also associate a GTIN to a specific Item Revision.
7. Enter any other required attributes.

8. Click Apply to associate a GTIN.

Note: This GTIN association is also visible from the GTIN Cross-reference page under the Association tab. A GTIN's cross-reference unit of measure for this association is defaulted to the Item's Unit of Measure. Details on how to associate more than one GTIN cross-reference to an item can be found at Managing GTIN Cross-References, page 9-3.

Note: A GTIN whose unit of measure is the same as the Item unit of measure is sent during the registration and publication process to the Global Registry and to customers.

Managing GTIN Cross References

Associate GTIN numbers with any approved item or item revision. Specify a GTIN cross-reference Unit of Measure and description during the process. A GTIN cross-reference for an item can also be defined during the new item creation process.

To add a GTIN cross-reference:

1. Locate the item whose GTIN Cross-reference you wish to add.
2. On the Item's overview page, click the Association tab.
3. Click the GTIN cross-reference tab.
4. Click Add GTIN cross-reference. For details about the Add GTIN cross-reference page, see Associating GTINS for GDSN Syndication., page 9-2
5. In contrast to the GTIN association from the GDSN pages, here you must select a Unit of Measure.

Note: If a GTIN cross reference has the same unit of measure as the item, you cannot remove it once the Item-GTIN has been registered with the Global Registry.

GTIN setup for Oracle Warehouse Management

Oracle Warehouse Management module uses the profile option "INV:GTIN_CROSS_REFERENCE_TYPE" to identify the cross reference type used to populate GTINs. This profile option should not be set to 'GTIN' to avoid data conflicts between Oracle Warehouse Management and Oracle Advanced Product Catalog.

Managing GDSN Attributes

Product Data Synchronization for GDSN and UCCnet Services includes 150+ GDSN Attributes, such as:

- Core registration attributes
- Industry neutral and trading partner/customer neutral extension attributes
- Trading partner/customer specific attributes
- Hardlines industry extension attributes
- FMCG industry extension attributes

The included attributes are grouped into a number of seeded attribute groups, which are themselves functionally grouped into seeded Item Attribute pages.

The included Item Attribute pages are:

- ‘GDSN Registration’, which includes the 35 registration attributes that are essential for registering into the Global Registry using the RCIR (Registry Catalog Item Registration) message
- ‘GDSN Physical Attributes’, which includes attributes that physically describe an Item-GTIN, such as the Trade Item Description, and the Trade Item Measurements.
- ‘GDSN Order Information’, which includes attribute groups such as Price Information, Order Information, and Price Date Information.
- ‘GDSN Packaging’, which includes attribute groups such as Packaging Marking, Packaging Material, and Trade Item hierarchy.
- ‘GDSN Hazardous’, which includes attribute groups such as Hazardous Goods Indicator and Hazardous Information
- ‘GDSN Industry’, which includes industry-specific attribute groups, such as Hardlines and FMCG.
- ‘Customer Specific’, which includes attributes whose values are specific to a customer.

The Registration attributes that are part of the RCIR message are:

- Name of Information Provider
- GLN of Information Provider
- Target Market
- GTIN
- Quantity Of Next Lower Level Trade Item
- Net Content/Net Content UOM
- Trade Item Unit Descriptor
- Brand Name
- Consumer Unit
- OrderableUnit
- NetWeight
- GrossWeight
- Height
- Length
- Width
- Dimension Unit Of Measure
- Volume
- Size Code Value
- Size Code List Agency

- Private Flag
- Effective Date
- EANUCC Type
- EANUCC Code
- GLN of Brand Owner
- Brand Owner
- Additional Trade Item Description
- Description Short
- GLN of Data Pool
- Name of Data Pool
- Catalog Item Classification

The supported Hardlines Industry Attributes are:

- Trade Item Recall Indicator
- Model Number
- Security Tag Location
- Pieces Per Trade Item
- Nesting Increment
- Is Out Of Box Provided
- URL For Warranty
- Warranty Description
- Trade Item Finish Description
- Department of Transportation Dangerous Goods Number
- Return Goods Policy

The supported FMCG (Fast moving consumer goods) Industry Attributes are:

- Degree Of Original Wort
- Fat Percent In Dry Matter
- Percent Of Alcohol By Vol
- ISBN Number
- ISSN Number
- Ingredient Irradiated
- Raw Material Irradiated
- Trade Item genetically modified
- Trade Item irradiated

To update GDSN Attributes:

1. Locate the item whose attributes you wish to Update.

2. On the appropriate GDSN attributes page, click update.
3. On the Update page, update the attributes and click Apply.

Product Data Synchronization for GDSN and UCCnet Services applies validation rules to meet the GDSN Synchronization standards. As a result, you may not be able to edit some attributes on the higher Item-GTINS, or some might be derived from the packaging hierarchy.

The following attributes are propagated across the packaging hierarchy, since their values should be the same across the Item-GTINS included in the packaging hierarchy. Update these attributes values for an Item-GTIN whose Trade Item Descriptor is 'EACH':

- Brand Owner Name
- Brand Owner GLN
- Functional Name
- Manufacturer GLN
- Manufacturer Name
- Storage Handling Temperature Minimum
- Storage Handling Temperature Maximum

The following packaging and weight attributes are computed using the packaging hierarchy. They cannot be edited from a GDSN attributes page:

- Total Quantity of Next Level Trade Item
- Net Weight – It is computed for higher-level Item-GTINS using lower-level Net weight and the component quantity. Net weight can be edited only on those Item-GTINS whose Trade Item Unit Descriptor is 'EACH'.

The following attribute values are shared with Item operational attributes, as functionally they are the same attributes. Update these attributes from the Operational attribute pages as well as the GDSN attribute pages, however Product Data Synchronization for GDSN and UCCnet Services makes sure their values remain the same.

Item Master Attribute Group	Item Master Attribute	GDSN Attribute Group	GDSN Attribute
Physical Attributes	Length	Trade ItemMeasurements	Depth
Physical Attributes	Height	Trade ItemMeasurements	Height
Physical Attributes	Weight	Trade ItemMeasurements	Net Weight
Physical Attributes	Width	Trade ItemMeasurements	Width
Physical Attributes	Volume	Trade ItemMeasurements	Volume
Order Management	Shippable	TradeItemUnit Indicator	IsTrade ItemADespatchUnit
Invoicing	Invoiceable Item	TradeItemUnit Indicator	IsTradeItemAn InvoiceUnit
Order Management	Customer Orders Enabled	TradeItemUnit Indicator	IsTrade ItemAnOrderableUnit

Note: You can import these GDSN attributes using Product Data Synchronization for GDSN and UCCnet Services import functionality. For import details, see Importing Items Using a Spreadsheet., page 8-18

The supported Trading Partner/Customer specific attributes are:

- Start Availability Date Time
- End Availability Date Time
- Order Quantity Maximum
- Order Quantity Minimum
- Dispatch Unit
- Invoice Unit
- Orderable Unit

The Trading Partner/Customer specific attributes are also available at the Item level along with other GDSN attributes. By default, Item level attribute values are communicated to the customer. However, if you specify these attributes at the Customer level, then those values will be communicated to the customer.

To update customer specific attributes:

1. Locate the item whose customer attributes you wish to Update.
2. On the Item's **overview** page, click the **Syndication** tab.
3. Click the Details icon available under the Attributes column for each Customer.
4. On Customers attributes page, click update.

5. On the Update Customer Attributes page, update the attributes and click Apply.

Managing the Packaging Hierarchy

Configuration Management enables you to view multiple Packaging Hierarchies for an item.

Product Data Synchronization for GDSN and UCCnet Services includes a structure type called 'Packaging BOM' for constructing Packaging Hierarchies. Each structure type has a preferred structure name. During publication, the packaging hierarchy information from the preferred structure name is sent to the customer as part of the CIN message.

The Packaging Hierarchy view allows you to manage packaging hierarchies from the top down, for example, from 'Pallet' to 'Each'. This is the traditional structure creation approach, where you have a top assembly Item, and you add components to it.

The Where Used view allows you to manage packaging hierarchies from the bottom up, for example, from 'Each' to 'Pallet'. For example, suppose you have an 'EACH' Item that you manufacture. Before shipping the finished good, you need to decide its packaging. You decide to package it as 'PACK of 6', which in turn is packaged in a 'CASE containing 6 packs'. This approach allows you to construct your packaging hierarchy from your final finished good Item-GTIN, and then add PACK and CASE as its next level.

Depending upon your business needs, use either of the following two approaches:

To create a packaging hierarchy from Where Used / bottom up view:

1. Locate the item for which you want to Create Packaging Hierarchy.
2. On the Item's overview page, click the Configuration tab.
3. Click the Where Used tab.
4. Select Structure type 'Packaging BOM' and Structure Name.
5. The Item-GTIN region is displayed, which provides information about the GTIN Number, UDEX Category, Registration Status, and Trade Item Unit Descriptor.
6. Add Next level allows you to search and find an Item-GTIN, and add it as the next level in the Packaging Hierarchy.
7. Create Next level allows you to create an Item-GTIN, and add it as the next level in the Packaging Hierarchy.
8. Enter Quantity, which is the number of component Item-GTINs that are packaged in the parent Item-GTIN.

Note: Product Data Synchronization for GDSN and UCCnet Services tries to derive the component quantity using Unit of Measure (UOM) conversion rules between the Parent Item-GTIN and Component Item-GTIN, provided both have a unit of measure belonging to the same UOM class.

9. Upon adding the component, the packaging hierarchy gets saved.
10. You can update Inner Unit quantity and save the packaging hierarchy.

To create a packaging hierarchy from the Top down / Structure view:

1. Locate the item for which you want to Create Packaging Hierarchy.

2. On the Item's overview page, click the Configuration tab.
3. Click Create Structure.
4. Select Structure type 'Packaging BOM'. Structure Name defaults to the preferred structure name. Select a different structure name if you prefer.
5. Optionally select this structure to be the preferred structure.
6. Common Structure functionality allows you to point your packaging BOM to your Manufacturing BOM, allowing BOM reuse. However, common structure functionality is used mainly for manufacturing purposes. For more information on creating or managing a Common BOM, see the Oracle Bills of Material User's Guide.
7. Click Apply.
8. On the Structure page, the Item-GTIN region is displayed, which provides information about the GTIN Number, UDEX Category, Registration Status and Trade Item Unit Descriptor.
9. Add Component allows you to find an Item-GTIN and add it as the next level in the Packaging Hierarchy.
10. Create Component allows you to create an Item-GTIN and add it as the next level in the Packaging Hierarchy.
11. Enter Component Quantity, which is the number of component Item-GTINs that are packaged in the parent Item-GTIN.
12. Upon adding the component, the packaging hierarchy is saved.
13. Update the component quantity and save the packaging hierarchy.

Note: You cannot update the Item-GTIN components of the Packaging Hierarchy once the Item-GTIN is successfully published to a customer.

The following Trade Item Unit Descriptor validations are applied:

Product Type	Description	Parents	Parents Instance	Children	Children Instance	Orderable	Consumable
(MX) Mixed Module	A 'mixed mod' or 'display ready pallet' that is not the normal 'turn' for ordering	None	N/A	CA, DS, PK, EA	Multiple	True	False
(PL) Pallet	A pallet of turn product	None	N/A	CA, DS, PK, EA	Single	True or False	False
(DS) Display/ Shipper	A display or shipper	PL		CA, EA	Single/ Multiple	True	True or False
(CA) Case	The standard shipping unit level.	PL, MX, DS	Multiple	PK, EA	Single/ Multiple	True or False	True or False
(PK) Pack/ Innerpack	A logistical unit between case and each	DS, CA	Multiple	EA	Single/ Multiple	True or False	True or False
(EA) Each	The lowest level of the item hierarchy intended or labeled for individual resale	PK, CA, DS, PL, MX	Multiple	None	N/A	True or False	True

Registering Items With GDSN

Using Product Data Synchronization for GDSN and UCCnet Services, you can register Item-GTIN information into the Global Registry to notify the community of any new or changed Item-GTINs. Product Data Synchronization for GDSN and UCCnet Services is an efficient platform for all Item-GTIN registration processing and messaging, allowing you to:

- Find all new or updated Item-GTINs that need to be registered or updated to the Global Registry
- Track registration event history, with transaction disposition, for each Item-GTIN

Product Data Synchronization for GDSN and UCCnet Services allows you to register a single Item-GTIN, or multiple Item-GTINs in a batch. Product Data Synchronization for GDSN and UCCnet Services' advanced parametric search allows you to use Item-GTIN

Attributes, like brand name and registration status, to select all the Item-GTINs that require registration.

Product Data Synchronization for GDSN and UCCnet Services automatically determines the action for the RCIR registration message allowing you to quickly register Item-GTINs with the Global Registry. If an Item-GTIN has never been registered the action given is “Add” and a new Item-GTIN is created in the Global Registry. If an Item-GTIN was previously registered, Product Data Synchronization for GDSN and UCCnet Services defaults either a “change” or “correct” action on the RCIR message. A change to an item-GTIN is considered a data correction rather than a product update if one of the following attributes is changed :

- UDEX Category
- Brand Name
- Quantity of next lower level trade item
- Net weight
- Net Content
- EANUCC Code
- EANUCC Type
- Trade Item Unit Descriptor
- GLN of Brand Owner
- Gross weight changed by more than 20 %
- Height changed by more than 20 %
- Depth changed by more than 20 %
- Width changed by more than 20 %
- Volume changed by more than 20%

When you click ‘Submit,’ an RCIR message is sent to the data pool. The data pool receives the message and returns its disposition to you. The disposition statuses are:.

- Processed
- Failed

Note, you need Registration Management function security, and View Item privilege in the Master Organization, to register an Item. You can only register an Item from the Master Organization.

To register an item:

1. From the Item Detail page, go to the GDSN Registration page. Check that the item has a Data Validation Status equal to ‘Compliant’ which means that the Item-GTIN has passed data validation. If the Data Validation Status is ‘Non-Compliant’, then examine the data validation errors. You must resolve all data validation errors before registering an item with a GDSN data pool (for example,. UCCnet)

Note: The GDSN Registration page is only available for ‘GDSN Syndicated’ items.

2. Upon submitting the Item-GTIN for registration, an RCIR message is sent to the data pool. A message group id is generated to track the Item-GTIN Registration.
3. If the registration is successful, registration status is automatically changed to 'Registered'. If registration fails, registration status assumes its previous value.
4. Click the message group id and navigate to the collaboration events page to check the message detail. Click the message payload icon to view the entire XML payload that was sent to the GDSN data pool.
5. There are four registration statuses to identify the current state of the Item-GTIN registration:
 - Not Registered
 - Registered
 - Registration in Progress
 - Re-registration Needed

Note: Product Data Synchronization for GDSN and UCCnet Services does not allow you to re-register an already-registered item unless you change one or more of its attributes.

Note: When you update the Item-GDSN attribute for a registered Item, its registration status is automatically changed to 'Re-registration Needed'. Depending on which Item attribute is changed and by how much, Product Data Synchronization for GDSN and UCCnet Services automatically determines whether it a 'Change' or a 'Correct' action has occurred.

To register multiple items:

1. The registration workbench allows you to register multiple Items at the same time. Using Product Data Synchronization for GDSN and UCCnet Services' parametric search capabilities, find all Item-GTINS that are "Not Registered" or have a status of "Re-registration Needed", and register those items. Refine your search by any GDSN attribute, such as Brand Name, Trade Item Unit Descriptor, and so on.
2. Select more than one Item, and register them to GDSN at the same time.
3. Non-compliant Item-GTINS are filtered from the Registration list. Check data validation errors for those Items and resolve them before registering the Items.

Managing Registration User Level Search Criteria

Create personalized search criteria. For details on creating and managing search criteria, see Managing Search Criteria., page 1-2

Note the following about Registration search criteria.

1. These search criteria span all Item Catalog Categories.
2. Construct search criteria by including:
 - Item primary attributes
 - Operational attributes
 - GDSN Attributes

- GTIN Attributes
 - Messaging Attributes
3. Set user-defined search criteria as the default for an object by selecting 'Set as Default'.

Managing Registration User Level Display Formats

Create personalized display formats. For details on creating and managing Display Format to assist in your Search, see Managing Display Formats., page 1-6

Note the following about Registration Display Formats:

1. These Display Formats span all Item Catalog Categories.
2. Construct your Display Format by including:
 - Item primary attributes
 - Operational attributes
 - GDSN Attributes
 - GTIN Attributes
 - Registration Messaging Attributes
3. Select History as one of the display sections to view all the messages sent for that Item-GTIN.
4. Set a user-defined display format as the default display format by selecting Set as Default.

Managing Customer Subscriptions

You set up a customer subscription for each Item-GTIN you would like to publish.

To add a GLN to a Customer Address:

Using the Customer online screens you can enter a GLN for a Customer address.

1. Select "Oracle Customers Online User" responsibility.
2. Navigate to the customer tab.
3. Search and find the Customer to which you want to add a GLN.
4. On the customer overview page, click the addresses tab.
5. Click update for the customer address for which you want to add a GLN.
6. Enter Global Location Number (GLN) and save the record.

To subscribe a customer to an item:

1. On the **Item Detail** page, go to the **Syndication** page.
2. View the customer subscription for this Item-GTIN and click 'Update'.
3. Search and add additional customers to this Item-GTIN. Delete subscriptions for any customer to whom you have not published.

Note: Only a customer that has a GLN appears on the search screen. Using the Oracle Customer Online Update Address page, you can enter a GLN for each customer address.

Note: You need View Item privilege and Edit Customer Item Cross-reference privilege in the Master Organization to associate customers with an Item-GTIN.

Add multiple items to a customer:

1. On the Publication Management page, view the Items to which a customer has subscribed.
2. Using simple and advanced search, Add Items to a customer.

Customer Items Comparison

Customer Items Comparison allows you to compare customer item subscriptions. It also highlights which Item information you are not publishing to customers in the same line of business. You can compare between the same customer stores that have different GLNS.

To compare Customer Items:

1. On the Publication Management page, click Compare Customers Items.
2. Find the Customers you want to Compare.
3. On the Review Customer Items Comparison page, view which Items are associated with the selected Customer.
4. Click update to add Items to, or remove Items from, your customers.

Note: You can compare only five customers at a time.

Publishing Items to a Customer

Using Product Data Synchronization for GDSN and UCCnet Services, you can publish Item-GTIN information to customers to inform them of:

- New Item-GTINs being offered
- Changes to existing Item-GTINs
- Withdrawal of Item-GTINs from a specific customer, or delisting of Item-GTINs from the market.

Product Data Synchronization for GDSN and UCCnet Services is an efficient platform for all Item-GTIN publication processing and messaging, allowing you to:

- Find all new or updated Item-GTINs that need to be published to customers
- Track publication event history, with transaction disposition, for each Item-GTIN customer combination

Product Data Synchronization for GDSN and UCCnet Services allows you to publish a single Item-GTIN, or multiple Item-GTINs in a batch. Upon 'Publication', a CIN message is sent to your customer for each Item-GTIN via a GDSN data pool. Your customer can review each message, and decide whether to 'Accept', 'Reject', 'Synchronize' or 'Review' the Item-GTIN. The customer's response is returned via a confirming CIC message, and is stored in your work list on the GDSN data pool. These global registry messages are transferred from the data pool to Product Data Synchronization for GDSN and UCCnet Services, where the message content and disposition status can be viewed for each Item-GTIN customer combination. Disposition statuses are:

- Processed

- Failed
- Customer-Accepted
- Customer-Rejected
- Customer-Review
- Customer-Synchronized

Note: You will need Publication Management function security, View Item privilege, and View Customer Item cross-reference privilege in the Master Organization to perform the following actions on an Item-GTIN for a customer:

- Initial load
- Publish
- Withdraw

To publish an Item-GTIN to customers:

You must set up customer subscriptions for each Item-GTIN before you begin the publication process. For details on how to create and manage customer subscriptions, see *Managing Customer Subscriptions*, page 9-13.

The publication status for a customer indicates whether the Item-GTIN requires publication. The publication validation status on the GDSN Attribute pages and syndication page indicates whether the Item-GTIN packaging hierarchy is compliant for publication.

Note: You must always publish from the top Item-GTIN of a valid packaging hierarchy to a customer, as the entire packaging hierarchy must be included in the CIN message.

A valid packaging hierarchy is one that contains at least one consumable and one orderable GTIN. A Top GTIN is an item that is not a component in a packaging hierarchy, that has at least one orderable and one consumable unit in its packaging hierarchy.

1. From the top Item-GTIN page, navigate to the Customer Syndication page. This page displays the list of customers to whom you have already published or plan to publish the Item-GTIN packaging hierarchy.

Note: For details about creating and maintaining customer syndication, see *Managing Customer Syndication*.

2. For each customer, there is a publication status and a corresponding disposition status. From the Publication status, you can determine which customers the Item-GTIN has not been published to, or requires re-publication. Publication statuses are:
 - Published
 - Not Published
 - Re-publication Needed
 - Publication In Progress

- Withdrawn
- Delisted
- Rejected

Note: You cannot publish information to customers to whom you have previously published that information if no new GDSN attribute changes have occurred since your last publication.

3. Click the Publish action icon to publish the Item-GTIN to a customer. On the Publish Items page, you can view the entire packaging hierarchy and the list of customers for each packaging hierarchy.
4. You can review the name and GLN of the data pool to which the Item is being published, as well as the customer's name, address and GLN.
5. After you submit the Item-GTIN for publication, a CIN message is sent for each customer that the Item-GTIN is being published to. A message group id is generated to track all Item-GTIN publication messages sent in this transaction.
6. The Disposition status for each message is updated with the response that is received from the customer via the data pool.

Note: If a customer rejects an Item-GTIN publication, Product Data Synchronization for GDSN and UCCnet Services will not allow you to re-publish the Item-GTIN to the same customer.

Note: A first time publication message to a customer is sent with a 'New Item' or an 'Initial Load' action. Subsequent re-publication messages are sent with a 'Data Change' action. Product Data Synchronization for GDSN and UCCnet Services automatically derives these actions.

Note: When you update the Item-GDSN attributes for a published Item, its publication status is automatically changed to 'Re-publication Needed' for all customers. However, if you update a customer-specific Item-GDSN attribute, then the publication status is automatically changed to 'Re-publication Needed' for that particular customer only.

To withdraw an Item-GTIN from a customer:

The withdraw action allows you to temporarily discontinue an Item-GTIN synchronization process with one or more customers. Once you have successfully withdrawn the top Item-GTIN from a customer, the Item-GTIN is not published to the customer until you explicitly re-publish the Item-GTIN to this customer.

Note: You can only withdraw Item-GTINS whose publication status is 'Published' and disposition status is 'Not Rejected'.

1. From the top Item-GTIN page, navigate to the Customer Syndication page. This page displays the list of customers to whom you have already published or plan to publish the Item-GTIN packaging hierarchy.
2. For the customers that you have already published to, select those from you which you want to withdraw the Item-GTIN, and click Withdraw.

3. The Withdraw from Customers page allows you to view the entire Item-GTIN packaging hierarchy and the customers from whom you are withdrawing the Item-GTIN.
4. A CIN message is sent to each customer from whom the Item-GTIN is being withdrawn. A message group id is generated to track all messages sent in this transaction

To delist an Item-GTIN from customers

The delist action permanently discontinues the synchronization process with all customers for this Item-GTIN. Once you successfully delist the top Item-GTIN, Product Data Synchronization for GDSN and UCCnet Services does not allow you to publish this Item-GTIN to any customer.

Note: You can only delist the Item-GTINS whose publication status is published and disposition status is not rejected.

1. From the top Item-GTIN page, navigate to the Customer Syndication page. This page displays the list of customers to whom you have already published or plan to publish the Item-GTIN packaging hierarchy.
2. Click Delist from the customer syndication page.
3. All customers to whom the Item-GTIN was previously published will be delisted.
4. A CIN message is sent to each customer from whom the Item-GTIN is being delisted. A message group id is generated to track all messages sent in this transaction.

To publish multiple Item-GTINS to customers:

The publication workbench allows you to view multiple Item-GTINS for a customer. Similar to the registration workbench, you can search for Item-GTINS that are associated with the customer.

Note: You can only search for top Item-GTINS in the publication workbench.

You can Publish, Withdraw, and Delist Item-GTINS from this workbench. These actions are described in the section To publish an Item-GTIN to customers, page 9-14.

1. On the Publication Management page, select the Item-GTINS you want to publish and click Publish.
2. On the Publish to Customers page, a list of all the top Item-GTINS you have selected is displayed with its entire packaging hierarchy.
3. Review the list of customers per each Item-GTIN packaging hierarchy.

You can also select Item-GTINS for Withdraw and Delist.

On the publication workbench, you can select top Item-GTINS and click Check Data Validation to see whether the Item-GTIN packaging hierarchy you plan to publish is compliant.

To publish an Item-GTIN to customers with Initial load action:

If a supplier who has recently joined a data pool, such as UCCnet, wants to establish item synchronization with an existing Demand Side customer through the data pool, they can

use the Initial Item load publication to synchronize data for items currently being traded between the two organizations.

1. On the Publication Management page, find the Items you want to publish.
2. Select the Items you want to publish with the Initial load action, click Initial load.
3. On the Publish (Initial Load) to Customers page, a list of all the top Item-GTINS you selected is displayed with their packaging hierarchy.
4. Review the list of customers for each Item-GTIN packaging hierarchy.

Note: Initial load action is only performed for the first time publication with the customer.

Note: For details about how to create and manage search criteria to assist in your Search, see Managing Registration User Level Search Criteria, page 9-12.

Note: For details about how to create and manage Display Format to assist in your Search, see Managing Registration User level Display Formats, page 1-6.

Catalogs Overview

To navigate to all Catalogs help topics, select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management, and then select the Catalogs folder.

Browsing the Catalog

Catalogs are structured hierarchically. You can expand and collapse levels in the hierarchy to view the current structure of your catalog. You can only browse catalogs for which you have the Catalog Viewer role. While you can see all the items listed in an item catalog, here you only see the subcategories within a particular catalog.

To browse the catalog:

1. In the Items section of the Application tree menu, click the "Browse Catalog " link.
2. On the **Browse** page, you can choose to display categories by Name or Description. After selecting the desired display option, click Go. The default display option is Name.

To view the hierarchy of the categories in the catalog, click the Hierarchy icon next to the catalog name. The number in parentheses after the catalog name represents the cumulative number of items in this catalog and all of its subcategories. You can add an item to a catalog, export to a spreadsheet, remove, compare, and add an item to your Favorites list--all from the context of browsing the catalog.

Assigning an Item to a Category

When you create an item, it is automatically assigned to the default mandatory catalog and default category of the functional area in which it is created. You can override the catalog's default category as well as manually assign the item to an unlimited number of catalogs.

To assign an item to a category:

1. In the Applications tree menu, use either the "Simple Search" or "Advanced Search" links to search for the item whose category you wish to change.
2. Click the item's name link in the search results.
3. On the **Item Detail** page, click the Categories tab.

4. On the **Category Assignment** page, click Update. After the page refreshes, click Add Assignment.
5. After the **Category Assignment** page refreshes, select a catalog and then a category within that catalog.

If *Enforce List of Valid Categories* is enabled in the catalog definition, page 3-2, then you can only choose from the list of valid categories defined for that catalog. Otherwise, you can choose any category that has the same flex field structure as the catalog.

If *Allow Multiple Item Category Assignments* is disabled in the catalog definition, page 3-2, then you can assign an item to only one category in the catalog. Otherwise, you can choose to assign the item to multiple categories in the catalog.

In a hierarchical catalog, you can only assign items to leaf categories.

6. Click Apply.

Copying Items with Category Assignments

When you assign an item to another organization, Oracle Advanced Product Catalog copies the item level catalogs, organization level default catalog, and the associated categories assigned in the item master organization. This means that if you manually assign an organization item level catalog to the item in the master organization, Advanced Product Catalog does not copy over that organization item level catalog when you assign that item to another organization.

After assigning an item to another organization, you can disable the item for one or more functional areas in the new organization. However, Oracle Advanced Product Catalog does not remove the corresponding functional area's default catalog. For example, you may have set the value of the Purchased attribute to "Yes" when you defined the item in the item master organization. When you assign this item to another organization, Oracle Advanced Product Catalog copies over the "Yes" value of the Purchased attribute, and therefore assigns the default catalog of the Purchasing functional area. In the new organization you may decide to set the value of the Purchased attribute to "No." After you disable the item for the Purchasing functional area in the new organization, the item still retains the Purchasing default catalog. You may manually delete the Purchasing catalog in the new organization.

If you copy an item from another item with catalogs defined at the organization level, Advanced Product Catalog assigns the new item the default categories of the mandatory catalogs, even if the original item did not have the default categories. This occurs because Advanced Product Catalog copies the values of the item defining attributes and not the catalogs and categories themselves.

Change Management

Change Management Overview

To navigate to all Change Management help topics, select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management, and then select the Change Management folder.

Searching for Issues and Change Management

You can search for issues, change requests, and change orders using either a simple or advanced search. Simple search enables you to search for issues, change requests, and change orders using a keyword search, wildcard search, search excluding keywords, fuzzy search, and stemming search.

To perform a simple search:

1. On the **Simple Search** page, search using one or more of the following options:

Keyword Search

Enter a partial or whole value for the issue, change request, or change order's number, name, or description in the Search field. You can narrow your search results by entering as many keywords as possible.

- Select "Match all word(s) (AND)" to search for issues, change requests, and change orders containing all the keywords entered as search criteria. This is the default value.
- Select "Match any word(s) (OR)" to search for issues, change requests, and change orders containing any one of the keywords entered.

Wildcard Search

Use "%", also known as the wildcard character, to enter partial searches as part of your search criteria. For example, you can search for all change requests that have "Engine" and "Overheating" in the name as follows: %Engine%Overheating.

Search Excluding Keywords

Refine your queries by excluding certain keywords from your search. For example, you can search for issues containing the keyword DEF-3% and exclude issues that contain the keyword DEF-32%.

Fuzzy Search

Enter '?' before the keywords to perform a fuzzy search. Use keywords that sound similar to the word you are searching for. For example, enter "?Clik" to search for an issue containing the word "click."

Stemming Search

Enter '\$' before the keywords to perform a stemming search on the name, number, description, line name, or line description of the change category selected. Stemming Search allows you to search for words whose spelling is derived, or stems from the keyword. For example, a search on the keyword "\$contract" could return: "contract," "contracts," "contracted," and "contracting."

2. Click Search. Simple search returns all matching results for the search criteria entered. You can view these search results using different results formats. For details about how you can personalize and create result formats see Managing User Level Display Formats, page 1-6.

To perform an advanced search:

1. On the **Advanced Search** page, select the change category (such as issue, change request, or change order) from the list of categories and click Go.

Choose criteria templates to change the criteria fields for your search. For details about how to define and personalize criteria templates, see Managing User Level Search Criteria, page 1-2.

2. Add the criteria fields to be used in the search and click Add Criteria.
3. Use the shuttle on the **Add Criteria** page to:
 - Add/Remove Criteria
To clear the criteria values, select the criteria and click Clear.
 - Delete Criteria
To delete criteria, select it and click Delete. Note that deleting criteria from this page doesn't remove it from the criteria template that you selected for the search.
 - Duplicate Criteria
To duplicate criteria, select it and click Duplicate. When you duplicate criteria, the search uses an OR condition between the different duplicates. For example, if you include an attribute called "Priority" twice, with values "High" and "Medium," the result will contain change objects that are either "High" or "Medium."
4. The display format enables you to switch between different views of the search results. The view on the Display Format page shows the columns in the results table without any data. For information about defining and personalizing display formats, see Managing User Level Display Formats, page 1-6.
5. Click Search to perform the search. You can switch between results formats to view the results on the **Search Results** page.

Creating Issues

Advanced Product Catalog provides a workflow-based collaborative issue management system that enables you to track, manage, and resolve various product/process related issues across your enterprise as well as with suppliers and customers. APC issue

management helps to speed identification, communication, and resolution of quality problems or design changes to your product.

Your system administrator has configured the issue creation process so that it is optimized for your enterprise. For example, in a company that designs or manufactures computer motherboards, you may have the issue types: Design, Defect, Documentation, and Implementation. Depending on the issue type selected, the workflow processes for each status may already be defined by default, thereby ensuring that all new issues are captured and managed in a way that is consistent with your company's product development processes.

You can link issues to new change requests and change orders, effectively copying required information from the issue to the new change request or change order.

To create an issue:

1. On the **Create Issue: Select Issue Type** page, select the appropriate Issue Type and click Continue.

User-defined issue types enable your enterprise to build categorizations for different types of issues so that you can apply consistent review and approval processes to different categories of issues. For example, for each issue type, there is a specialized workflow that best suits the review and resolution process required by the particular type of issue. Issue types best suited for your enterprise's product development processes are listed in the Issue Type field. For details about your enterprise's issue types, contact your system administrator.

2. On the **Create Issue** page, provide the required base attribute information, as well as any required user-defined attribute information. Depending on the configuration of the issue type selected, you can specify a subject for the issue. Following are the possible subjects of an issue:

- Item Number
- Item Revision
- Component
- None

The person or group in the Assigned To field is defaulted based on the item or component role specified in the assignment rule for the issue type. If no item or component is selected, you can enter a valid assignee name.

Note: You are not required to select a subject for the issue. If you prefer not to assign a subject to the issue, select the blank or empty value. If no item or component is selected, then your (the requestor's) name becomes the default value in the Assigned To field.

3. Depending on the configuration of the issue type selected, you may be required to provide data in any of the following sections (in addition to any user-defined sections or pages) when creating an issue:

- Lines

Issue Lines capture all the details that comprise an issue--lines make up a "to do" list for a particular issue. Just as there are types of issues, you have types of issue

lines. These issue line types have been configured by your system administrator to best serve the needs of your business.

- Dependencies

The resolution of an issue may depend upon a particular Idea, New Item Request, Change Request, or Change Order being approved. An issue may also be required by or implemented by a change request, change order, or project. To ensure this relationship is captured in a new issue, specify what the issue is related to (for example, a change request, change order, or project), and then specify the nature of the dependency.

- References

You can specify that the issue references an item or project. Any reference to an item may also include the item revision.

- Workflow Approval

Workflow Routings or Approvals may be defined for any status of the issue based on the issue type. The issue type selected determines the workflow process steps defaulted in for each status. A workflow process may include steps to request approval, request comment, FYI, or a custom workflow process. For some steps you may be required to select an assignee and specify whether the assignee is mandatory or optional. You can add additional workflow process steps and update a step to add Assignees if a workflow is associated with the status; however, you cannot delete any assignees or steps that were defaulted in based on the issue type. You can remove any Steps or Assignees that you add.

- Attached Documents

You can attach documents from your desktop or Oracle Files Online. You can also attach text or URL documents. When you attach a document you can specify an Attachment Category to classify the document. The valid Attachment Categories are created by your system administrator.

Note: During issue creation you cannot attach folders from Oracle Files Online. However, after the issue has been created, you can attach folders (from Oracle Files Online) to it.

After providing the required information you can Submit the new issue, which starts the Workflow for the first status and notifies the assignee. If you have not completed adding all the information, click Save for Later. You or anyone with the appropriate role can update the issue later on.

4. After submitting and creating an issue, you can view and update the following information:

- People

You can directly add people to an issue and assign them a role. Depending on how the issue type was configured, a number of people may inherit a role on the issue (based on the issue type). You cannot delete inherited people or modify their roles. If you specify an item as the subject of the issue, all people with a role on that item may also inherit a role on the issue if their item role has been mapped to an issue role; to change the role or delete any of these people from the issue, their roles must be changed or deleted at the item level.

- Action Log

The Action Log displays all actions (and associated comments) executed against or posted to the issue in a threaded discussion format. You can respond to requested comments or reply to specific comments, thereby creating a threaded discussion within the context of the issue.

- **Workflow**

Issues are managed through their statuses and associated workflow processes. Each status can have one workflow associated with it, and that workflow is automatically launched when issues achieve a particular status. You can explicitly promote or demote an issue to its different statuses (defined by the issue type). Issues may automatically be promoted (or demoted) to the next status after the completion of the workflow in a specific status (as defined by the issue type).

If you abort an issue, that issue's status is changed to Not Submitted for Approval, and all dates are reset. You can update and restart a workflow; if an aborted or updated workflow is restarted, a new instance of the workflow begins with the first step.

If you add or remove people from a step in the workflow, be sure to Refresh Assignees--doing so ensures all new assignees are added to steps in the workflow before it is submitted.

Creating Change Requests

Advanced Product Catalog provides a workflow-based collaborative change request management system that enables you to track, manage, and analyze solutions to various product/process related issues within your enterprise. After an issue is closed, appropriate parties can analyze proposed solutions via change requests; analysis can be conducted and proposals routed to relevant parties for review and approval.

You can link issues to new change orders, effectively copying required information from the change request to the new change order.

To create a change request:

1. On the **Create Change Request: Select Change Request Type** page, select the appropriate Change Request Type and click Continue.

User-defined change request types enable your enterprise to build categorizations for different types of change requests so that you can apply consistent review and approval processes to different categories of change requests. For example, for each change request type, there is a specialized workflow that best suits the review and resolution process required by the particular type of change request. Change request types best suited for your enterprise's product development processes are listed in the Change Request Type field. For details about your enterprise's change request types, contact your system administrator.

2. On the **Create Change Request** page, provide the required base attribute information, as well as any required user-defined attribute information. Depending on the configuration of the change request type selected, you can specify a subject for the change request. Following are the possible subjects of a change request:
 - Item Number
 - Item Revision

- Component
- None

The person or group in the Assigned To field is defaulted based on the item or component role specified in the assignment rule for the change request type. If no item or component is selected, you can enter a valid assignee name.

Note: You are not required to select a subject for the change request. If you prefer not to assign a subject to the change request, select the null or empty value. If no item or component is selected, then your (the requestor's) name becomes the default value in the Assigned To field.

3. Depending on the configuration of the change request type selected, you may be required to provide data in any of the following sections (in addition to any user-defined sections or pages) when creating a change request:
 - Lines

Change Request Lines capture all the details that comprise a change request--lines make up a "to do" list for a particular change request. Just as there are types of change requests, you have types of change request lines. These change request line types have been configured by your system administrator to best serve the needs of your business.
 - Dependencies

The final approval or resolution of a change request may depend upon a particular Issue, Idea, New Item Request, or Change Order being approved. A change request may also be required by or implemented by another change object or project. To ensure this relationship is captured in a new change request, specify what the change request is related to (for example, another change object, or project), and then specify the nature of the dependency.
 - References

You can specify that the change request references an item or project. Any reference to an item may also include the item revision.
 - Workflow Approval

Workflow Routings or Approvals may be defined for any status of the change request based on the change request type. The change request type selected determines the workflow process steps defaulted in for each status. A workflow process may include steps to request approval, request comment, FYI, or a custom workflow process. For some steps you may be required to select an assignee and specify whether the assignee is mandatory or optional. You can add additional workflow process steps and update a step to add Assignees if a workflow is associated with the status; however, you cannot delete any assignees or steps that were defaulted in based on the change request type. You can remove any Steps or Assignees that you add.
 - Attached Documents

You can attach documents from your desktop or Oracle Files Online. You can also attach text or URL documents. When you attach a document you can specify an Attachment Category to classify the document. The valid Attachment Categories are created by your system administrator.

Note: During the creation of a change request you cannot attach folders from Oracle Files Online. However, after the change request has been created, you can attach folders (from Oracle Files Online) to it.

After providing the required information you can Submit the new change request, which starts the Workflow for the first status and notifies the assignee. If you have not completed adding all the information, click Save for Later. You or anyone with the appropriate role can update the change request later on.

4. After submitting and creating a change request, you can view and update the following information:

- People

You can directly add people to a change request and assign them a role. Depending on how the change request type was configured, a number of people may inherit a role on the change request (based on the change request type). You cannot delete inherited people or modify their roles. If you specify an item as the subject of the change request, all people with a role on that item may also inherit a role on the change request if their item role has been mapped to a change request role; to change the role or delete any of these people from the change request, their roles must be changed or deleted at the item level.

- Action Log

The Action Log displays all actions (and associated comments) executed against or posted to the change request in a threaded discussion format. You can respond to requested comments or reply to specific comments, thereby creating a threaded discussion within the context of the change request.

- Workflow

A change request is managed via its statuses and associated workflow processes. Each status can have one workflow associated with it, and that workflow is automatically launched when a change request enters into the status. You can explicitly promote or demote a change request to its different statuses (defined by the change request type). Change requests may automatically be promoted (or demoted) to the next status after the completion of the workflow with a specific status (as defined by the change request type).

If you abort a change request, that change request's status is changed to Not Submitted for Approval, and all dates are reset. You can update and restart a workflow; if an aborted or updated workflow is restarted, a new instance of the workflow begins with the first step.

If you add or remove people from a step in the workflow, be sure to Refresh Assignees--doing so ensures all new assignees are added to steps in the workflow before it is submitted.

To create a change request from a 3D model in the CADView-3D DeskTop:

1. Open the CADView-3D DeskTop by launching a model that has been attached to an item. If you do not have the CADView-3D client installed, you will be prompted to install it.
2. In the Window menu, double-click Change Management.

3. In the Change Management window, select change request, then click Create. A corresponding page in Advanced Product Catalog is opened in a separate browser window.
4. Create your change request and save it. The corresponding change request appears in the Change Management list in the CADView-3D desktop.

Note: All change requests that you have permission to view and which are associated with a given item are displayed. Double-click an entry in the list to display a page for that change request inside Advanced Product Catalog.

To create a change order from a change request/issue/idea:

Advanced Product Catalog provides a workflow-based collaborative change management system that enables you to track, manage, and resolve various product/process related issues, change requests and change orders, across your enterprise as well as with suppliers and customers. APC change management helps to speed identification, communication, and resolution of quality problems or design changes to your product.

A simple change cycle includes the following:

1. Customers log issues against a product and/or new ideas related to the product are collected from all stakeholders
2. The issues and ideas are consolidated and analyzed
3. A change request is created to request changes to the product design to address the ideas and issue
4. Based on the change request, a change order is created to implement the design changes.

Oracle Advanced Product Catalog provides the ability to copy information from source change objects (like issues and ideas in the above cycle) and default them on to appropriate destination change objects like change requests and change orders. Thus new change objects can be quickly created with minimal data entry and with appropriate relationships established with the source change objects.

The following copy actions are allowed:

- Add a change request/Issue/Idea to a change order
 - Add a change order to another change order
 - Add a change request/Issue/Idea to another change request
 - Add an issue/idea to another issue
 - Add an idea to another idea
1. To add a change request detail page, select the action, Add to Change Order, and then choose the Go button.

ORACLE Change Management

Change Request: ECR18
Organization: Vision Operations (V1)

Recent Home Logout Preferences Help Diagnostics

Change Request Lines Relationships Workflow

Overview Action Log Attachments People

Basic Information Search Change Request Go Advanced Search Shortcuts Browse Catalog Go

Cost Information Overview

Change Request Type ECR
Change Request Name APC_1Hr_Chg_Reg_474
Description Created Thru RT

Assigned To Satish Rao
Requestor Satish Rao
Priority High
Status Open
Approval Status Not submitted for approval
Item Number
Item Description
Project

Actions
Add to Change Order
Add to Change Request
Cancel
Change Priority
Generate Report
Post Comment
Promote
Put on Hold
Reassign
Request Comment
Update

Source Type Internal
Source Name Nagesh
Need By Date 20-Apr-13
Creation Date 13-Apr-13
Reason Aesthetic

Task

Actions Add to Change Order Go

2. On the Add to Change Order page

ORACLE Change Management

Change Request: ECR18
Organization: Vision Operations (V1)

Recent Home Logout Preferences Help Diagnostics

Change Request Lines Relationships Workflow

Overview Action Log Attachments People

Change Request Overview >

Add to Change Order

Change Order Category Change Notice

Create New CN-1

Add to Existing

Add as dependency on current Change Request

TIP Dependency established will be of type 'Implemented By'.

Copy Change Order Details

Available Information

Selected Information

Project/Task
Header Attributes
Header Items
Line Items (as Revised Items)

Cancel Continue

- Select the change order category

You can add the change request information to a change order belonging to either the seeded change order category or any user defined change order categories.

- You can choose to add the change request information to a new change order or append relevant information to an existing change order.

If you are adding the change request information to a new change order, then highlight the 'Create New' radio button and select the change order type.

User-defined change order types enable your enterprise to build categorizations for different types of change orders so that you can improve the accuracy of change orders with review and approval workflows, and automatically implement changes on a scheduled effective date. For example, for each change order type, there is a specialized workflow that best suits the review and resolution process required by the particular type of change order. Change

order types best suited for your enterprise's product development processes are listed in the Change Order Type pop list.

If you are adding the change request information to an existing change order, then highlight the 'Add to Existing' radio button, search and select the appropriate change order.

Note: You can add to an existing change order only if the change order is in 'Draft' or 'Open' status

- By default, a dependency of type 'Implemented By' would be created on the change request. A complementary dependency of type 'Implements' would be created on the change order. You can choose not to create any dependency by unchecking the dependency check box
- Specify what attribute values should be copied over from the source change request to the destination change order and click Continue

If you are copying the change request to a new change order, then the following attributes are available for selection

- Project/Task

The Project/Task information entered on the change request would be copied over to the corresponding fields on the change order

- Header Attributes

The attributes entered for the change request header will be copied to the change order. These attributes include: Name, Description, Source Type, Source Name, Priority, Need By Date, Reason and Assigned To. You can overwrite these attribute values on the change order.

Note: If the change order type is configured such that some of the attribute values entered on the change request are not valid for the change order, then the appropriate attribute value which has the lowest sequence number is defaulted on the change order. For eg: If the priority of a change request is 'High' and this value is not defined as a valid value for the change order type, then the priority value with the lowest sequence number defined for the change order type is defaulted on the change order.

- Header Item

The header item number, item description, and revision entered on the change request are copied over to the change order

Note: If the subject selection criteria of the change request is 'Item and Component', then the component information is ignored when adding to a change order. Also, if the header item entered on the change request does not satisfy the subject selection criteria specified for the change order type, then you cannot copy the item to the change order.

- Line Items (as Revised Items)

Items specified as subjects on the open change request lines are copied to the change order as revised items.

Change order revised items list changes to specific items. For each revised item you can specify changes to item attributes, attachments, AMLs, and structures. The revised item changes are implemented when the change order is implemented either manually or on the scheduled effective date. You can optionally schedule item changes at the revised item level. Revised items can be promoted or demoted on an individual basis.

Note: If the item entered as a subject on the change request line does not satisfy the subject selection criteria specified for the change order type, then you cannot copy the line item as a revised item on the change order.

If you are copying the change request to an existing change order, then only the 'LineItems (as Revised Items)' is available for selection. The other attribute values are not copied from the change request. Instead, the existing attribute values of the change order are preserved.

3. On the 'Create Change Order' page enter/modify data in any of the sections. For details about creating change orders refer 'Creating Change Orders'
4. Similarly, you can add an issue or an idea to a change order:

The process is similar to adding a change request to a change order, except for the following differences:

1. revised items in the source change order, which are in open status, are copied to the destination change order.

Note: A change order cannot have lines

2. A dependency of type 'Composed of' is created on the change order. A complementary dependency of type 'Composes' is created on the destination change order.

To add an issue/idea/change request to another change request:

1. The issue lines in the source issue, which are in open status, are copied to the destination change request, provided the same line types are defined for both the change categories.

Note: An Issue, Change Request or an Idea cannot have revised items

2. A dependency of type 'Resolved By' is created on the issue. A complementary dependency of type 'Resolves' is created on the destination change request.
3. You can copy the following additional header item information:
 - Structure
 - Component

Note: The issue and change request types should be appropriately configured to include these attributes

To add an issue/idea to another issue:

The process is similar to adding a change request to a change order.

1. The issue lines in the source issue, which are in open status, are copied to the destination issue, provided the same line types are defined for both the change categories.
2. A dependency of type 'Resolved By' is created on the issue. A complementary dependency of type 'Resolves' is created on the destination change request.
3. You can copy the following additional header item information:
 - Structure
 - Component

Note: The issue and change request types should be appropriately configured to include these attributes

4. Similarly, you can copy an idea to an issue.

To add an idea to another idea:

The process is similar to adding a change request to a change order.

1. The idea lines in the source idea, which are in open status, are copied to the destination idea.
2. A dependency of type Required By is created on the source idea. A complementary dependency of type Requires is created on the destination idea.
3. You can copy the following additional header item information:
 - Structure
 - Component

Note: The source and destination idea types should be appropriately configured to include these.

Creating Change Orders

You can use change orders to specify and implement changes for item attributes, attachments, AMLs, and structures. For a specific change order you can specify changes for several items, route the change order for approval, schedule the effective date, and automatically implement the changes on the scheduled effective date. A change order also can be propagated to many organizations within your company; depending on how your company's organization policy is defined, a change order can be automatically propagated to other organizations in your company hierarchy whenever it reaches a particular status.

To create a change order:

1. On the **Create Change Order: Select Change Order Type** page, select the appropriate Change Order Type and click Continue.

User-defined change order types enable your enterprise to build categorizations for different types of change orders so that you can improve the accuracy of change orders with review and approval workflows, and automatically implement changes on a scheduled effective date. For example, for each change order type, there is a

specialized workflow that best suits the review and resolution process required by the particular type of change order. Change order types best suited for your enterprise's product development processes are listed in the Change Order Type field. For details about your enterprise's change order types, contact your system administrator.

2. On the **Create Change Order** page, provide the required base attribute information, as well as any required user-defined attribute information. Depending on the configuration of the change order type selected, you can specify a subject for the change order. Following are the possible subjects:

- Item
- Item Revision
- None

The person or group in the Assigned To field is defaulted based on the item role specified in the assignment rule for the change order type, or it can be explicitly entered. If no item is selected, you can enter a valid assignee name.

Note: You are not required to select a subject for the change order. If you prefer not to assign a subject to the change order, select the null or empty value. If no item is selected, then your (the requestor's) name becomes the default value in the Assigned To field.

3. Depending on the configuration of the change order type selected, you may be required to provide data in any of the following sections (in addition to any user-defined sections or pages) when creating a change order:

- Revised Items

Change order revised items list changes to specific items. For each revised item you can specify changes to item attributes, attachments, AMLs, and structures. The revised item changes are implemented when the change order is implemented either manually or on the scheduled effective date. You can optionally schedule item changes at the revised item level. You can specify revised item details such as Use-up item, WIP details, and corresponding dates. You can also create new item revisions within the change order and define changes for those revisions, as well as schedule changes by providing a scheduled date. Revised items can be promoted or demoted on an individual basis.

- Change Tasks

Change tasks help ensure that mandatory work is completed before a change order is implemented or promoted to the next status. You can use change tasks to create and assign work to individuals or groups. Each change task must be started after and completed before specific statuses. Before you promote a change order through its various statuses, its Mandatory change tasks must be completed. If a task is listed, but is not Mandatory, the change order can be promoted to the next status without completion of the task.

- Dependencies

The final approval or implementation of a change order may depend upon a particular Issue, Idea, New Item Request, or another Change Order being approved. A change order may also be required by or implemented by another

change object or project. To ensure this relationship is captured in a new change order, specify what the change order is related to (for example, another change order, item, or project), and then specify the nature of the dependency.

- References

You can specify that the change order references an item or project. Any reference to an item may also include the item revision.

- Workflow Approvals

Workflow Routings or Approvals may be defined for any status of the change order based on the change order type. The change order type selected determines the workflow process steps defaulted in for each status. A workflow process may include steps to request approval, request comment, or FYI. For some steps you may be required to select an assignee. You can add additional workflow process steps and update a step to add Assignees if a workflow is associated with the status; however, you cannot delete any assignees or steps that were defaulted in based on the change order type. You can remove any Steps or Assignees that you add.

- Attached Documents

You can attach documents from your desktop or Oracle Files Online. You can also attach text or URL documents. When you attach a document you can specify an Attachment Category to classify the document. The valid Attachment Categories are created by your system administrator.

Note: During the creation of a change order you cannot attach folders from Oracle Files Online. However, after the change order has been created, you can attach folders (from Oracle Files Online) to it.

After providing the required information you can Submit the new change order, which starts the Workflow for the first status and notifies the assignee. If you have not completed adding all the information, click Save and Continue. You can then add revised items and save the change order in Draft status. You or anyone with the appropriate role can submit the change order later on.

- Organization Hierarchy

Depending on how the change order type is defined, you may view and select from a list of valid organization hierarchies. If you select an organization hierarchy from this list, the change order can be propagated to all of the organizations within that hierarchy. Again, depending how the change order type is defined, a change order may also automatically be propagated through an organization hierarchy when it reaches a certain status. To view the organizations to which a change order can be propagated, click the Organizations tab on the change order's detail page.

4. After creating a change order, you can view and update the following information:

- People

You can directly add people to a change order and assign them a role. Depending on how the change order type was configured, a number of people may inherit a role on the change order (based on the change order type). You cannot delete inherited people or modify their roles. If you specify an item as the subject of the

change order, all people with a role on that item may also inherit a role on the change order if the item role has been mapped to a change order role; to change the role or delete any of these people from the change order, their roles must be changed or deleted at the item level.

- **Action Log**

The Action Log displays all actions (and associated comments) executed against or posted to the change order in a threaded discussion format. You can respond to requested comments or reply to specific comments, thereby creating a threaded discussion within the context of the change order.

- **Workflow**

A change order is managed through its workflow with statuses and associated workflow processes. Each status can have one workflow associated with it, and that workflow is automatically launched when a change order enters into the status. You can explicitly promote or demote a change order to its different statuses (defined by the change order type). Change orders may automatically be promoted (or demoted) to the next status after the completion of the workflow in a specific status(as defined by the change order type).

If you abort a change order, that change order's status is changed to Not Submitted for Approval, and all dates are reset. You can update and restart a workflow; if an aborted or updated workflow is restarted, a new instance of the workflow begins with the first step.

If you add or remove people from a step in the workflow, be sure to Refresh Assignees--doing so ensures all new assignees are added to steps in the workflow before it is submitted.

Performing Actions

You can manage the workflow of a an issue, change request, or change order using change management actions. Change management actions can be readily executed from change detail pages, item change lists, and change management search results lists.

In general, actions are used to update, reassign, or change the priority or status of an issue, change request, or change order. Some actions, such as schedule, release, and implement, are only available to issues, change requests, or change orders with revised items enabled. All actions are recorded in the action log.

The following actions are available to all change categories:

Submit

Submits an issue, change request, or change order to an assigned person or group.

Submit for Approval

Submits a change object for approval.

Update

Updates the primary attributes of an issue, change request, or change order.

Reassign

Reassigns an issue, change request, or change order to a person or group.

Change Priority

Changes the priority of the issue, change request, or change order.

Change Status

Changes the status of the issue, change request, or change order.

Request/Post Comment

Requests a comment from one or more people.

The following actions are available to change categories with revised items enabled:

Release

Releases all revised item changes for implementation. The status is changed to Released.

Schedule

Schedules implementation based on the effective date. The status is changed to Scheduled.

Put On Hold

Places the issue, change request, or change order on hold. The status is changed to On Hold.

Cancel

Cancels all changes. The status is changed to Cancelled.

Implement

Implements the revised item changes. The status is changed to Implemented.

Reschedule

The issue, change request, or change order is rescheduled for implementation based on the effective date.

Change Effectivity Date

Changes the effective date for all revised items. Propagate ECO propagates the ECO to other organizations. Reopen changes the status to Open.

Generate Report

Generate report creates a report with specified issue or change information. You can choose to generate a report by selecting report templates defining the change information the report will contain and a report output format such as pdf, html, rtf, xls, and xml.

You can also generate a change report from change search results page.

To perform an action:

1. On an issue, change request, or change order detail page, select an Action and click Go.
2. Enter information in the required fields.
3. Optionally, enter a comment and click Apply.

Managing the Action Log

For tracing and auditing efficiency, you can maintain a complete history of all actions and comments related to a change object. All actions such as reassignments, status and

priority changes, along with comments and responses to requests, are posted in the action log. The name of the action, who performed the action, a date/time stamp, and all comments are recorded in the action log.

You can filter and sort the action log to show only certain actions such as approval requests, status and priority changes, comments from specific people, and reassignments.

To view the action log:

1. On an issue, change request, or change order detail page, click the Workflow tab, then click Action Log.
2. Expand or collapse any or all entries in the action log to view responses, replies to requests, and comments.

To request a comment:

1. On an issue, change request, or change order detail page, select Request Comment and click Go.
2. Enter a person's or group's name.
3. Enter a subject and click Apply.

To post a comment in the action log:

1. On an issue, change request, or change order detail page, click the Workflow tab, then click Action Log.
2. Click Post Comment.
3. Enter a comment then click Apply.

To post a reply in the action log:

1. On an issue, change request, or change order detail page, click the Workflow tab, then click Action Log.
2. Click the Reply icon in the Action Log row to which you would like to reply.
3. Enter a comment then click Apply.

Creating Change Revisions

You can create revisions for issues, change requests, or change orders to track and audit modifications. When you create a new revision the approval status is reset to Not Submitted for Approval, thereby enabling you to make additional edits to the change object.

To create a revision for an issue, change request or change order:

1. On an issue, change request or change order detail page, click the Revisions tab.
2. On the **Revisions** page, click Create.
3. On the **Create Revision** page, enter a Revision and a Start Date. Optionally, enter Comments describing the purpose for the new revision.
4. Click Apply.

To update a revision for an issue, change request or change order:

1. On an issue, change request or change order detail page, click the Revisions tab.
2. On the **Revisions** page, click the Update icon.
3. Update the comments for the revision.
4. Click Apply.

To delete a revision for an issue, change request or change order:

1. On an issue, change request or change order detail page, click the Revisions tab.
2. On the **Revisions** page, select the revision you wish to delete and click the Delete icon.

Note: You can only delete future effective revisions.

Managing Attachments

An attachment is unstructured information related to a change object. For example, unstructured information attached to a change object could be a marked up CAD drawing, test results document, specification sheet, or URL. You can add attachments to an issue, change request, or change order from your desktop or a document repository (such as Oracle Files Online). You can also attach text or URL documents. When you attach a document you can specify an Attachment Category to classify the document. The valid Attachment Categories are created by your system administrator. Folders can only be attached from Oracle Files Online; documents within such folders are not attached.

To search for attachments:

1. On an issue, change request, or change order's detail page, click the Attachments tab.
2. On the **Attachment** page, click the Show Simple Search link.
3. Provide the search criteria and click Go.

To attach documents or a folder to a change issue, change request, or change object:

1. On an issue, change request, or change order detail page, navigate to the Attachments section.
2. On the **Attachments** page, navigate to the Add Attachment field, select the type of attachment you wish to add and the repository to which you will add it and click Go. If you wish to attach a folder, click the Attached Folders tab, and in the Add field select the repository and click Add.
3. On the **Add Attachment** page, select the attachment you wish to upload, its Attachment Category, and click Apply.
4. Log in to the repository. For example, if you chose Oracle Files Online as your repository, you would provide your Oracle Files Online username and password. You are not prompted to log in if you choose the E-Business Suite as your repository.
5. Provide all required information and click Finish.

To attach documents to a change request or change order line:

1. On the change request or change order detail page, click the Lines tab.
2. On the **All Lines** page, click on the line's name link.
3. On the line's detail page, click Add Attachment.
4. Provide all required information and click Apply.

To update attachments:

1. On an issue, change request, or change order's detail page, click Attachments.
2. On the **Attachment** page, click the Edit icon.
3. Update the fields and click Apply.

To detach documents or folders from a change order:

1. On a change order's detail page, click the Attachments tab.
2. On the **Attachments** page, click the Detach icon for the document that you wish to detach. If you wish to detach a folder, click the Attached Folders tab, and in the row of the folder you wish to delete, click the Detach icon.

Managing People and Roles

Change management enables you to secure issues, change request, and change orders through role-based data level security. You can grant roles explicitly or implicitly to people and groups associated with an issue, change request, or change order. A change management role determines whether or not you can simply view an issue, change request, or change order, or view *and* edit it.

You can grant all people within an organization a role for all issue, change request, or change orders within a specific change category. You can map item roles to change roles. For example, if the Design Engineer item role is mapped to the Change Manager change role for change orders, you will be granted a Change Manager role on all change orders related to an item for which you have a Design Engineer role. The creator, requestor, and assignee of an issue, change request, or change order are always granted a role on it. These scenarios are "implicit role grants" added by the system.

Of course you can always grant an explicit change role to a person or group for any issue, change request, or change order. For example, you may grant a Change Reviewer role to a supplier engineer on a specific change order.

To view people who have access to an issue, change request, or change order:

1. On an issue, change request, or change order detail page, click the People tab.
2. On the **People** page, in the Direct Change Roles section you can view people and groups explicitly granted a role by a user on the issue, change request, or change order. In the Inherited Change Roles section you can view people and groups implicitly granted a role by the system on the issue, change request, or change order. For example, the system automatically grants a role to the creator, assignee, and requestor.

Note: You can view each person's or group's role on the issue, change request, or change order, the start and end date of their assigned role, and their company.

To provide a person or group access to an issue, change request, or change order:

1. On an issue, change request, or change order detail page, click the People tab.
2. On the **People** page, click Update, then click Add People. When the page refreshes, select a role, people type (such as person or group), and then choose a person or group.

Enter a start date and optionally, an end date, specifying when the role for the person or group is to be effective.

3. Click Apply.

Note: People can also be implicitly granted a role by the system. For more information on roles granted to people by the system see Types and Adding People and Roles.

To delete a person or group from an issue, change request, or change order:

1. On an issue, change request, or change order detail page, click the People tab.
2. On the **People** page, select one or more people and click Delete.

Note: You cannot delete people or groups added by the system.

Managing Issue and Change Request Lines

You can add lines to any issue or change request that has line types configured for the change category. Lines are useful for specifying details and assigning responsibility for completion of tasks related to an issue or change request. For example, you can assign a line to an engineer to investigate and report on the cost of a change.

You can add a line of any valid line type to an issue or change request. You can edit a line as long as the approval status is not 'Submitted for approval' or 'Approved.' If you are assigned a line you automatically get a Reviewer role on the issue or change request, which enables you to view the details and edit the assigned line. Notifications are sent to inform assignees of their line assignments.

When you add or edit a line for an issue or change request you can specify a name, description, item number, assigned to, need by date, and estimated completion date. You can also attach documents and folders to a line. The assignee may be defaulted in based on line type rules set up by a system administrator (for example, a specific item role).

Managing Change Order Revised Items

Change order revised items list changes to specific items. For each revised item you can specify changes to item attributes, attachments, AMLs, and structures. The revised item changes are implemented when the change order is implemented either manually or on the scheduled effective date. You can optionally schedule item changes at the revised item level.

To manage change order revised items:

1. On the change order's **Overview** page, click the Lines tab. On the **Revised Items** page you can view, edit, and add revised items depending on the role you are assigned on the change order. Optionally, you can add revised items from a spreadsheet. You can view and edit the following information for each revised item:
 - **Revised Item Details**

You can view the Use Up Details, Work in Progress information, and the Cancel Details.
 - **Structure Changes**

You can view the structure changes for the change order revised item in this context, but to perform any updates on a structure, you must click Update in Forms or Launch Product Workbench. The following structure changes can be authored:

 - Creation of New Structure
 - Component changes including adding new component, changing primary attributes of the component and disabling the component.
 - Reference Designator and Substitute component changes
 - **Attribute Changes**

All changes to user-defined attribute groups associated with an item are listed here. You can update both single and multi-row attributes.
 - **Attachment Changes**

You can specify attachment changes by adding and removing attachments to the revised item.
 - **AML Changes**

You can specify to add, remove or update approved manufacturers. Only valid or approved manufacturers appear in the list of Manufacturer Names.
 - **Routing Changes**

You can view the routing changes for the change order revised item in this context, but to perform any updates on a routing, you must click Update in Forms.

Adding Revised Items to a Change Order Based on Where-Used Search:

Change order revised items list changes to specific items. For each revised item you can specify changes to item attributes, attachments, AMLs, and structures. The revised item changes are implemented when the change order is implemented either manually or on the scheduled effective date.

Based on the changes to a revised item, the assemblies or sub-assemblies in which the revised item is used, may also need to be revised to accommodate the changes proposed for the context revised item. APC Change Management provides the ability to quickly identify such parent assemblies and sub-assemblies from within the context of a change order and add them as new revised items on the same change order. Thus the changes to the context revised item and its parent assemblies or sub-assemblies can be managed through the same change order.

1. On the change order's Overview page, click the Lines tab

Change Management Lines Tab

ORACLE Change Management [Recent](#) [Home](#) [Logout](#) [Preferences](#) [Help](#) [Diagnostics](#)

Change Order: C01-10
Organization: Vision Operations (V1)

Change Order | **Lines** | Relationships | Workflow

Overview | Action Log | Attachments | Revisions | People | Organizations

Search: [Advanced Search](#) Shortcuts:

Overview

Actions:

Change Order Type	C0-1	Source Type	
Change Order Name	N2	Source Name	
Description		Need By Date	
Assigned To	Satish Rao	Classification Code	
Requestor	Satish Rao	Approval Status	Not submitted for approval
Priority	High	Current Revision	
Status	Open	Department	
Creation Date	19-Apr-2005 17:59:24		
Reason	Aesthetics		
Organization Hierarchy			
Item Number			
Item Description			
Project		Task	

Actions:

- On the Revised Items page, select Item Where Used from the tableaction drop-down list, and the click the Go button.

Items Where Used Example

ORACLE Change Management [Recent](#) [Home](#) [Logout](#) [Preferences](#) [Help](#) [Diagnostics](#)

Change Order: C01-12
Organization: Vision Operations (V1)

Change Order | **Lines** | Relationships | Workflow

Revised Items | Change Tasks

Revised Items

Select Revised Item: | Actions:

Select Item	Description	Catalog Category	Lifecycle Phase	From Revision	New Revision	Schedule Date and Time	Status
<input type="radio"/> SMC1000	Raw Wafer	Motherboards	Production	AA		20-Apr-2005 11:47:46	Open

Revised Item: SMC1000

Item Details

Item Catalog Category	Computer Parts and Components >	Motherboards
Primary Unit of Measure	Each	
User Item Type	Purchased item	
Item Status	Active	
Lifecycle		
Lifecycle Phase	Production	

New Revision Details

Revision Description	Revision Label Reason
----------------------	-----------------------

The Revised Item Where Used page appears.

Revised Items Where Used Page

ORACLE Item Catalog

Item: SMC1000 Revision: A
Organization: Vision Operations (V1)

Recent Home Logout Preferences Help Diagnostics

Summary **Lines** Relationships Workflow

Revised Items | Lines | Change Tasks

[Lines: Revised Items](#) >

Revised Item Where-used

Structure Type Structure Name

View

Date
(example: 19-Apr-2005 19:45:00)

From Unit Number

To Unit Number

Display

☐ View Top Items Only

Select All | Select None | Expand All | Collapse All

Select	Name	Description	Organization	Structure Name	Catalog Category	Revision	Type	Status	LifeCycle	LifeCycle Phase
<input type="checkbox"/>	▼ SMC1000	Raw Wafer	Vision Operations		Motherboards	A	Purchased item	Active	Computer Component LifeCycle	Production
<input type="checkbox"/>	Indica_Sat_01	Indica_Sat_01	Vision Operations	ProtoBOM	Motherboards	A		Engineer	Computer Component LifeCycle	Concept
<input type="checkbox"/>	Indica_Sat_01	Indica_Sat_01	Vision Operations	MBOM	Motherboards	A		Engineer	Computer Component LifeCycle	Concept

On the Revised Item Where Used page, you can do the following:

- You can select a Structure Type and an appropriate Structure Name to narrow the where used search of the context revised item.

Specifying a structure name returns all the structures with this name in which the context revised item appears as a component. The search can be further narrowed down by specifying criteria which are listed below.

Note: A structure type may have a number of structure names associated with it. When the structure type is selected in the pop list, only those structure names which are associated with the structure type are listed in the structure name pop list.

- You can specify a date in the Date field. A where used search is launched on the basis of this date. All the assemblies/sub-assemblies in which the revised item is effective (as a component) on this date are returned in the where used search. By default, the system date and time is displayed in this field.
- You can specify a range of unit numbers in whose bill the revised item appears as a component
- You can choose a format to display the where used search results through the 'Display' pop list. The seeded formats available are: Item Detail and Structure Detail.
- You can choose to display only the top most items in the where used search results by checking the 'View Top Items Only' check box

Example

Assume a sample bill as below: K0 (Level 0)->K1(Level 1)->K2 (Level 2)->K3(Level 3). A where used search for K3 with 'Top Items Only' set to 'Yes' would return only item#K0. The intermediate assemblies K2 and K1 will not be listed

- Clicking 'Go' returns the appropriate assemblies and sub-assemblies based on the criteria specified earlier.

Note: Only those items on which the user has a 'View' privilege are listed in the search results. Also, only assemblies/sub-assemblies in the current org are listed in the search results

- You can select any set of items returned in the where used search and add them as a revised item to the change order by clicking 'Apply'.

On the Update Revised Items page, you can specify other details of the newly added revised item.

Note: The date specified in the 'Date' field is defaulted as the Scheduled date for the new revised item. If this date is in the past, then the system date is defaulted as the scheduled date for the new revised item

Update Revised Items Page

ORACLE Change Management Recent Home Logout Preferences Help Dashboard

Change Order: C01-12 Change Order Lines Relationships Workflow

Organization: Vision Operations (V1)

Revised Items | Change Tasks

Lines: Revised Items > Where Used >

Update Revised Items

* Indicates required field Cancel Apply

Select	Item	Description	Item Type	Current Lifecycle Phase	From Revision	New Revision Label	New Revision Code	Schedule Date and Time
<input type="radio"/>	Indica_Sat_01	Indica_Sat_01		Concept	A-A			20-Apr-2005 13:22:22
<input type="radio"/>	Indica_Sat_01	Indica_Sat_01		Concept	A-A			20-Apr-2005 13:22:22
<input checked="" type="radio"/>	SMC1000	Raw Wafer	Purchased Item	Production	A-A			20-Apr-2005 11:47:46

Add 5 Rows

TIP date format example: 20-Apr-2005 13:22:22

Revised Item: Indica_Sat_01

New Revision Details

Description Reason

Dates

Earliest Schedule Date and Time

Use Up Details

Use Up Item Number Plan Name

☒ MRP Active

For detailing and managing the changes to the newly added revised item, see Managing Change Order Revised Items, page 11-20.

Managing Change Tasks

Change tasks help ensure that mandatory work is completed before a change order is implemented or promoted to the next status. You can use change tasks to create and assign work to individuals or groups. Each change task must be started after and completed before specific statuses. Before you promote a change order through its various statuses, its Mandatory change tasks must be completed. If a task is listed, but is not Mandatory, the change order can be promoted to the next status without the task being completed.

You can change the status of an existing change task, reassign it, update it, or delete it.

To manage change tasks:

1. On the change order's **Overview** page, click the Lines tab. Then, on the **Revised Items** page, click the Change Tasks tab.
2. On the **Lines: Change Tasks** page, select the change task whose status you wish to edit, reassign, update, or delete.

Creating Relationships

You can link one or more change objects (such as an issue, change request, or change order) to each other as dependencies. You can specify the type of dependency to describe how the linked change objects are related to each other. For example, a dependency can show the number, name, and status of change order that implements a change request, or it can show an issue that is required by a change order.

Following are the Dependency Types:

Implemented By

A change object is implemented by the dependent change object.

Implements

A change object implements the dependent change object.

Required By

A change object that is required by the dependent change object.

Requires

A change object that requires the dependent change object.

Resolved By

An issue is resolved by a change request or change order.

Resolves

A change request or change order resolves an issue

To view a change object's dependencies, navigate to a change object's detail page, click the Relationships tab, then click Dependencies.

To link a dependency to a change object:

1. On a change object's detail page, click the Relationships tab, then click Dependencies.
2. Select a Change Category and click Go.
3. Select a Relationship Type.
4. Enter a change object number.
5. Click Apply.

To add a reporting reference to an issue, change request, or change order:

You can add one or more reporting references to an issue, change request, or change order. Reporting references show items, projects, and tasks that are related to an issue, change request, or change order in context. For example, a change order may implement several component item changes required for a prototype assembly managed by an item lifecycle tracking project. In such a case, the assembly item and tracking

project may be listed as reporting references to provide convenient access to the item or project details.

To view an issue, change request, or change order's reporting references, navigate to an issue, change request, or change order detail page, click the Relationships tab, then click Reporting References.

1. On an issue, change request, or change order detail page, click the Relationships tab, then click References.
2. Select an object to reference, such as an item or project, and click Go.
3. Enter information in the required fields.
4. Click Apply.

Managing Workflows

An issue, change request, or change order can only be approved through the successful completion of an approval routing. When you create an issue, change request, or change order, an approval routing is created automatically based on a template, or manually by any user granted an edit privilege on the issue, change request, or change order.

An approval routing consists of one or more approval steps. Each approval step specifies a workflow process and to whom it is assigned. For example, you can create steps to request approval, request comment, or send an FYI notification. You can create custom activities using Oracle Workflow Builder.

The approval status of an issue, change request, or change order reports the progress of the approval. For example, when you submit a change object for approval, the approval status changes to Submitted for Approval, and then Approved or Rejected, depending on the outcome of the approval routing workflow. Every time a new revision is created for an issue, change request, or change order, the approval status is reset to Not Submitted for Approval. You cannot edit an issue, change request, or change order's attributes, lines, or attachments after it has been approved. However, you can perform actions (such as reassign, change status, change priority, and request comment) to manage the workflow of the issue, change request, or change order.

Notifications are sent to each of the assignees of a step when the step is started. Each assignee is requested to respond by the Date Required. If an assignee does not respond by the Date Required, then they will receive a reminder notification every N days, where N is the value specified for Response Required in N Days. The Date Required for a step is calculated to be the date/time the step is submitted, plus the Response Required in N Days. You can respond either through the email notification or directly from the workflow notification. When the issue, change request, or change order is approved or rejected, a notification is sent to the Creator, Requestor, and Assignee. If the approval routing workflow is aborted, then a notification is sent to all people in the approval routing that were previously notified regarding an assigned workflow process in a step.

A workflow consists of one or more steps. Each step specifies a workflow process and to whom it is assigned. For example, you can create steps to request approval, request comment, or send an FYI notification. Notifications are sent to each of the assignees of a step when the step is started.

To edit a step in an approval routing:

1. On an issue, change request, or change order's detail page, click the Workflow tab, then click Approval.

2. On the **Approval** page, click the Update icon for the approval process you wish to edit.
3. On the **Update Step** page, make updates to any of the following fields:

Response Required From

Selecting all means all assignees must respond. Selecting One means only one of the assignees must respond.

Response Required in N Days

A response is required D days from the date the workflow is submitted.

Instructions

Provide any instructions you have for assignees.

Add Assignee

Select and add assignees to include in the approval workflow.

4. Click Apply.

Note: You can edit steps that have not yet begun in an approval routing, even after the workflow is started. For steps derived from the approval routing template, you cannot change the Workflow Process or Response Required From, nor can you delete the derived Assignees.

To insert a step in an approval routing:

1. On an issue, change request, or change order's detail page, click the Workflow tab, then click Approval.
2. On the **Approval** page, click Add Step.
3. On the Add Step page, provide the following information:

Step Number

The step number determines the order in which steps are executed in the approval routing.

Workflow Process

Select a workflow process (such as Request Approval, Request Comment, or FYI).

Response Required From

If the workflow process is Request Approval or Request Comment, then choose whether responses are required from all or one of the assignees.

Response required in N Days

Enter the number of days, from the time the step is submitted, that all responses are required.

Instructions

Enter any instructions to be included in the notifications sent to assignees.

Add Assignee

Click Add to add an assignee.

4. Click Apply.

Note: Steps must be inserted after the last completed step or step that is currently in process.

To delete a step in an approval routing:

1. On an issue, change request, or change order's detail page, click the Workflow tab, then click Approval.
2. On the **Approval** page, click the Update icon for the step you wish to delete.
3. On the **Update Step** page select all assignees you wish to delete and click Delete, then click Apply.
4. On the **Approval** page, click the Delete icon for the step you wish to delete.

Note: You must delete all assignees for a step before you can delete the step.

To start or stop an approval:

1. On an issue, change request, or change order's detail page, click the Workflow tab, then click Approval.
2. On the **Approval** page, click Start Approval to start the approval workflow.
3. If the approval workflow is running, click Abort Approval to stop the workflow.

Note: If the status of an issue, change request, or change order is Draft, then you cannot start the approval process. Also, it is recommended that you click Refresh Assignees before starting the approval process (in case there have been any changes in item or change role assignments).

To view the progress of an approval:

1. On an issue, change request, or change order's detail page, click the Workflow tab, then click Approval.
2. On the **Approval** page, you can view all the steps in the approval routing, the date required to respond, and the response outcome for each workflow process assigned in the step.

Click the Show link to view the date the step was submitted on, the date of the response, instructions, and response comments.

Note: The Date Required of a step is based on the date the step is started plus the number of days a response is required.

To switch a template:

1. On an issue, change request, or change order's detail page, click the Workflow tab, then click Approval.
2. On the **Approval** page, click Switch Template.
3. On the **Switch Template** page, select the approval routing template to associate with the change type. The currently applied template does not appear in the list of templates.

- Click Apply.

Note: When you switch templates, all current steps/assignees--whether derived from the previous template or added after creation (ad-hoc)--are deleted.

To view the approval history:

You can submit an issue, change request, or change order for approval multiple times. The approval history lists a summary of all past and present approval workflows. The approval history displays for each approval workflow the issue, change request, or change order revision at the time the approval was submitted, who submitted the approval, the date submitted and completed, and the final result of the approval workflow. The result of a workflow may be Approved, Rejected, or Aborted.

- On an issue, change request, or change order detail page click the Workflow tab, then click Approval History.
- On the **Approval** page, click the Details icon to view the complete approval routing for a specific approval workflow.

To transfer workflow notifications:

If you are one of the step assignees, then you can transfer these notifications to another user (transferee) who you feel is more qualified to take the decision. The transferee receives a notification requesting approval or comment. Thus, the onus for approving a change or commenting on it, is shifted to the transferee.

- To transfer a notification, you must access the Notifications list from the Home page and launch the notification detail page of the relevant notification

The screenshot shows the Oracle Workflow and Request interface. At the top, there's a navigation bar with 'ORACLE Workflow and Request' and links for 'Diagnostics', 'Home', 'Logout', 'Preferences', and 'Help'. Below this, a breadcrumb trail shows 'Notifications >'. The main heading is 'Change Order CO1-14 requires approval'. To the right of this heading are three buttons: 'Approve', 'Reject', and 'Transfer'. Below the heading, there's a table with notification details:

From	Rao, Satish	Priority	High
To	Rao, Satish	Status	Approval
Sent	20-Apr-2005 15:42:22	Assigned To	Satish Rao
Due	22-Apr-2005 15:42:22	Reason	Aesthetics
ID	419695	Attachments	

Below the table is a section titled 'Change Order Overview' with a list of fields: Type (CO-1), Name (NN2), Description, Organization (Vision Operations(V1)), Item Number, Item Description, and Instructions. At the bottom, there's a section titled 'Revised Items' with a table that has columns: Item, Description, Catalog Category, Lifecycle Phase, From Revision, New Revision, Schedule Date and Time, and Status. The table currently shows 'No data exists.'

- Choose the Transfer button to transfer this notification to another user.

Note: The transfer button is available only for To Do notifications, such as Request Comment or Request Approval notifications.

- On the Transfer Notification page, select a person to transfer the notification to. You can optionally enter comments and then choose the Submit button to transfer the notification.

The person, to whom the notification is transferred to, automatically gets an appropriate role on the change object. If the original notification is an approval notification, the original assignee no longer has the privilege to approve the change object after the notification is transferred.

Transfer Notification

Note: You cannot transfer notifications to a group or to a role. You can notifications only to other individuals.

On transfer, the transferee gets an approval or request comment notification. A new workflow step assignee record with the same step number is inserted in the workflow table on the notification details page in order to capture the response from the transferee.

After transfer, the 'to do' notifications related to the change object in the original assignees worklist, no longer remain in the open status.

Change Order - Approval Request

When the notification is transferred, the action is recorded in the Action Log.

Change Order - Action Log

ORACLE Change Management Recent Home Logout Preferences Help Diagnostics

Change Order: CO1-14
Organization: Vision Operations (V1) Change Order Lines Relationships Workflow

[Overview](#) | [Action Log](#) | [Attachments](#) | [Revisions](#) | [People](#) | [Organizations](#)

Action Log

Post Comment Request Comment

View

[Expand All](#) | [Collapse All](#)

Focus	Action	Comment	Who	Date/Time	Reply
<input checked="" type="checkbox"/>	CO1-14				
<input checked="" type="checkbox"/>	1 Workflow Started for Status: Approval ECO Approval		Satish Rao	20-Apr-2005 03:12:21	
	Transferred to: Nagesh Narasimhan		Satish Rao	20-Apr-2005 03:47:26	
	2 Status Promoted to: Approval		Satish Rao	20-Apr-2005 03:12:17	
	3 Submitted		Satish Rao	20-Apr-2005 03:11:59	

Post Comment Request Comment

To set vacation rules:

You can set vacation rules to redirect or auto-respond to workflow notifications. You set vacation rules using the Worklist page.

1. On the Worklist page, select the Vacation Rules link.
2. Create a vacation rule on the Vacation Rules page.
3. By selecting an Item Type, you can specify the type of notification that will activate this rule.
4. Select a notification format to activate this rule.
5. Specify a message, set the validity period of the rule, and specify who the appropriate notifications should be transferred to.

Note: The functional rule governing the transfer of notifications are listed in the Transfer Workflow Notifications section.

How to Set the Digital Signing Option:

Digital Certificates provide a means of proving your identity in electronic transactions. With a Digital Certificate, you can assure other stakeholders that the electronic information they receive from you are authentic.

The most widely accepted format for Digital Certificates is defined by the CCITT X.509 international standard; thus certificates can be read or written by any application complying with X.509.

APC allows a user to set up digital signature options for a change type. Thus, a response to any approval or request comment notifications for a change object belonging to this change type, would require a certificate-based signature from the stakeholder.

1. To set this option, you have to navigate to the Status Property page of a status associated with a change type

Note: Navigation: Setup Workbench -> 'Change Management' tab -> 'Categories' sub-tab -> Highlight a change category -> click on 'Types' -> Click on any change type link -> click on 'Workflow' link in the bin -> click on 'Update Properties' icon for any Status)

Status Properties Page

ORACLE Item Catalog Administration [Home](#) [Logout](#) [Preferences](#) [Help](#) [Diagnostics](#)

[Items](#) [Structures](#) [Change Management](#) [Security](#) [Functions](#) [Catalogs](#) [Value Sets](#)

[Categories](#) | [Statuses](#) | [Codes](#) | [Workflow](#) | [Task Templates](#) | [Header Attributes](#) | [Line Attributes](#)

[Change Management Categories](#) >

Status Properties

Status Number: **10** Status Name: **Open** [Cancel](#) [Apply](#)

Valid Statuses for Promotion

Statuses Available		Statuses Selected
	Move Move All Remove Remove All	Implemented(Implemented) Approval(Approval)

Status Properties

Valid Statuses for Demotion

Statuses Available		Statuses Selected
	Move Move All Remove Remove All	

Workflow

Workflow Template: [Help](#)

Enable Digital Signature:

☐ Allow Updates
☐ Auto Promote

[Cancel](#) [Apply](#)

2. Select one of the three options from the Enable Digital Signature drop-down list.
 - **Empty** - Digital Signature is not enabled if 'Enable Digital Signature' field is empty
 - **Password Based Signature** - The user needs to respond to a notification with his password
 - **Certificate Based Signature** - The user needs to respond to a notification with a certificate-based signature

Note: The default value is **Empty**.

If you enable the digital signature for a change type, then all the request comment and approval notifications for changes belonging to this change type will need to be commented on or approved with a certificate based digital signature

How to Use Digital Certificates for Signing

3. Navigate to the Worklist page, and select any Request Comment or Request Approval notification.

Workflow Worklist Page

ORACLE [Diagnostics](#) [Home](#) [Logout](#) [Preferences](#) [Help](#)

Worklist

View: [Open Notifications](#) [Go](#)

Select Notifications: [Open](#) [Transfer](#)

[Select All](#) | [Select None](#)

Select From	Type	Subject	Sent	Due
<input type="checkbox"/> Rao, Satish	Change Workflow Routing Step	Change Order ECO9 requires approval	21-Apr-2005	23-Apr-2005
<input type="checkbox"/> Rao, Satish	Change Workflow Routing Step	Change Order CO1-15 requires comment	21-Apr-2005	22-Apr-2005
<input type="checkbox"/> Rao, Satish	Change Workflow Routing Step	Change Order CO1-16 requires comment	21-Apr-2005	22-Apr-2005
<input type="checkbox"/> Rao, Satish	Change Workflow Routing Step	Change Order CO1-14 requires approval	20-Apr-2005	22-Apr-2005

[TIP](#) [Vacation Rules](#) - Redirect or auto-respond to notifications.
[TIP](#) [Worklist Access](#) - Specify which users can view and act upon your notifications.

[Notifications](#) | [Diagnostics](#) | [Home](#) | [Logout](#) | [Preferences](#) | [Help](#)

Copyright 2000-2004 Oracle Corporation. All rights reserved.
[About this Page](#) [Privacy Statement](#)

- On the notification detail page, choose the Approve/Reject/Reply/Transfer button (whichever is appropriate).

Notifications Detail Page

ORACLE [Diagnostics](#) [Home](#) [Logout](#) [Preferences](#) [Help](#)

[Notifications](#) >

Change Order ECO9 requires approval [Approve](#) [Reject](#) [Transfer](#)

From: Rao, Satish
 To: Narasimhan, Nagesh
 Sent: 21-Apr-2005 05:20:02
 Due: 23-Apr-2005 05:20:02
 ID: 415851

Priority: High
 Status: Approval
 Assigned To: Malay Sarkhel
 Reason: Aesthetics
 Attachments:

Change Order Overview

Type	ECO
Name	Test1
Description	Test
Organization	Vision Operations(V1)
Item Number	
Item Description	
Instructions	

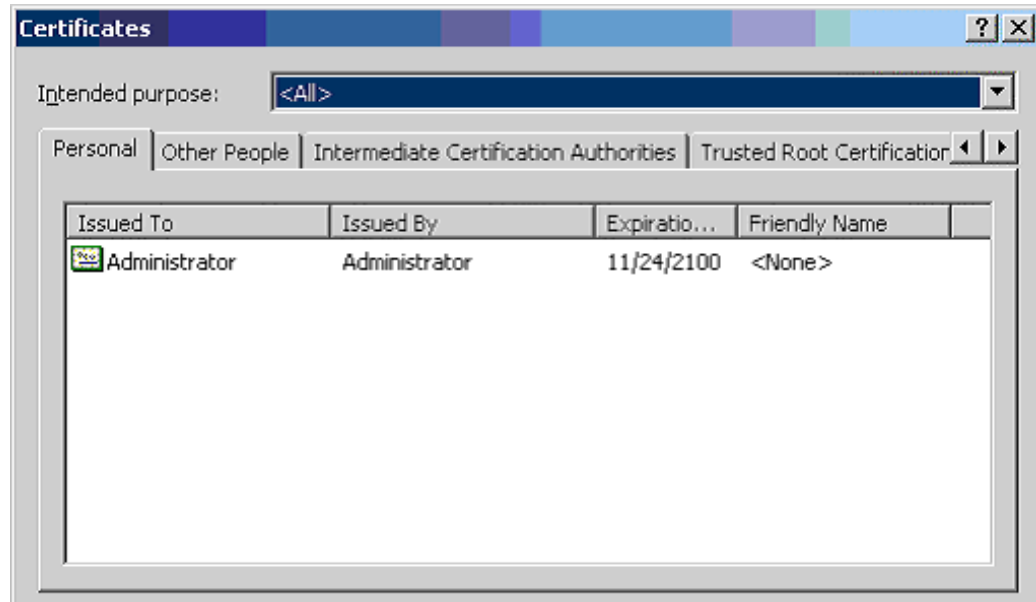
Revised Items

Item	Description	Catalog Category	Lifecycle Phase	From Revision	New Revision	Schedule Date and Time	Status
CM00037	CD Writer	Server		A.A		13-Apr-2005 03:46:28	Approval

The notification signing page appears

- Choose the Sign button.
- Select the appropriate certificate in the Certificates window, and then choose the OK button.

Certificates Window



After the signing process, the system automatically returns to the Worklist page.

Importing Changes

You can import issues, change requests and change orders using the Engineering Change Order Open Interface. Additionally, you can import people and user attributes for issues, change requests and change orders. Instead of forcing you to enter cryptic ID and system-specific values, the ECO Business Object Interface enables you to enter only the necessary business information that defines your changes. The Open Interface program validates all data before importing it into the production tables.

To import issues, change requests and change orders:

1. Load the Engineering Open Interface tables with the data you want to import. For detailed help on loading the Open Interface tables, refer to the *Oracle Manufacturing Open Interfaces and APIs* manual.
2. Navigate to the Engineering Responsibility in Oracle Applications.
3. Navigate to the Submit a New Request window by selecting Other from the Requests menu.
4. Click Submit New Request.
5. Select the request option to submit a single request, or submit a predefined group of requests by selecting Request Set.
6. Click OK.
7. Select Import Changes for the name of the request.

Note: A parameters window automatically appears if you select a request that requires parameter values.

8. After entering the values in the required parameter fields, click OK.

9. Click Submit.

To import user attributes for changes:

1. Load the Engineering Open Interface table (ENG_CHG_USR_ATTR_INTERFACE, page 11-36) with the data you want to import. For detailed help on loading the Open Interface tables, refer to the *Oracle Manufacturing Open Interfaces and APIs* manual.
2. Navigate to the Engineering Responsibility in Oracle Applications.
3. Navigate to the Submit a New Request window by selecting Other in the Requests menu.
4. Click Submit New Request.
5. Select the request option to submit a single request, or submit a predefined group of requests by selecting Request Set.
6. Click OK.
7. Select Change User Attributes Import for the name of the request.

Note: A parameters window automatically appears if you select a request that requires parameter values.

8. After entering the values in the required parameter fields, click OK.
9. Click Submit.

To import change people:

1. Load the Engineering Open Interface table (ENG_CHANGE_PEOPLE_INTF, page 11-40) with the data you want to import. For detailed help on loading the Open Interface tables, refer to the *Oracle Manufacturing Open Interfaces and APIs* manual.
2. Navigate to the Engineering Responsibility in Oracle Applications.
3. Navigate to the Submit a New Request window by selecting Other in the Requests menu.
4. Click Submit New Request.
5. Select the request option to submit a single request, or submit a predefined group of requests by selecting Request Set.
6. Click OK.
7. Select Change People Import for the name of the request.

Note: A parameters window automatically appears if you select a request that requires parameter values.

8. After entering the values in the required parameter fields, click OK.
9. Click Submit.

To import change lines:

1. Load the Engineering Open Interface table (ENG_CHANGE_LINES_INTERFACE, page 11-43) with the data you want to import. For detailed help on loading the Open Interface tables, refer to the *Oracle Manufacturing Open Interfaces and APIs* manual.

2. Navigate to the Engineering Responsibility in Oracle Applications.
3. Navigate to the Submit a New Request window by selecting Other from the Requests menu.
4. Click Submit New Request.
5. Select the request option to submit a single request, or submit a predefined group of requests by selecting Request Set.
6. Click OK.
7. Select Import Changes for the name of the request.

Note: A parameters window automatically appears if you select a request that requires parameter values.

8. After entering the values in the required parameter fields, click OK.
9. Click Submit.

ENG_CHG_USR_ATR_INTERFACE

The following table shows the columns in the ENG_CHG_USR_ATR_INTERFACE database table. For more details about the columns in ENG_CHG_USR_ATR_INTERFACE, see ENG_CHG_USR_ATR_INTERFACE Details, page 11-37.

ENG_CHG_USR_ATR_INTERFACE table

Column Name	Data Type	Required?
TRANSACTION_ID	NUMBER(15)	Yes
PROCESS_STATUS	NUMBER(9)	Yes
DATA_SET_ID	NUMBER(15)	Yes
ORGANIZATION_CODE	VARCHAR2(3)	Yes
CHANGE_NUMBER	VARCHAR2(10)	Yes
CHANGE_MGMT_TYPE_CODE	VARCHAR2(30)	Yes
CHANGE_LINE_NAME	VARCHAR2(240)	
ROW_IDENTIFIER	NUMBER(38)	Yes
ATTR_GROUP_INT_NAME	VARCHAR2(30)	Yes
ATTR_INT_NAME	VARCHAR2(30)	Yes
ATTR_VALUE_STR	VARCHAR2(150)	
ATTR_VALUE_NUM	NUMBER(38)	
ATTR_VALUE_DATE	DATE	
ATTR_DISP_VALUE	VARCHAR2(150)	
TRANSACTION_TYPE	VARCHAR2(10)	Yes

Column Name	Data Type	Required?
ORGANIZATION_ID	NUMBER(15)	
CHANGE_ID	NUMBER(15)	
CHANGE_TYPE_ID	NUMBER(15)	
REVISION_ID	NUMBER	
ATTR_GROUP_ID	NUMBER(15)	
REQUEST_ID	NUMBER(15)	
PROGRAM_APPLICATION_ID	NUMBER(15)	
PROGRAM_ID	NUMBER(15)	
PROGRAM_UPDATE_DATE	Date	
CREATED_BY	NUMBER(15)	Yes
CREATION_DATE	DATE	Yes
LAST_UPDATED_BY	NUMBER(15)	Yes
LAST_UPDATE_DATE	DATE	Yes
LAST_UPDATE_LOGIN	NUMBER(15)	
CHANGE_LINE_ID	NUMBER	
CHANGE_LINE_SEQUENCE_NUMBER	NUMBER (15)	

ENG_CHG_USR_ATR_INTERFACE Column Details

TRANSACTION_ID

The primary key for this table; its value should be generated from the sequence ENG_CUA_TRANSACTION_ID_S.

PROCESS_STATUS

Whether this row has yet to be processed, is currently being processed, encountered an error, or was successfully processed. The value of this column should correspond to the following constants in EGO_CHANGE_USER_ATTRS_PUB:

- G_PS_TO_BE_PROCESSED (actual value = 1)
- G_PS_IN_PROCESS (actual value = 2)
- G_PS_ERROR (actual value = 3)
- G_PS_SUCCESS (actual value = 4)

DATA_SET_ID

The data set identifier. Identifies a group of rows to be processed together; all rows being processed as part of a single request must share the same DATA_SET_ID, whose value must be generated from the sequence ENG_CUA_DATA_SET_ID_S.

ORGANIZATION_CODE

The organization to which the change belongs.

CHANGE_NUMBER

The engineering change number/notice.

CHANGE_MGMT_TYPE_CODE

The internal category name of the engineering change.

CHANGE_LINE_SEQUENCE_NUMBER

If the change line name is provided along with the change number and organization information, then the program will identify that this particular row need to processed for change line user attributes import. Both change and change line user attributes are supported through this interface table.

Because the user-defined attributes framework is so flexible, its structure must be flattened out for this interface table. To understand this flattening it is useful to first define a logical attribute group row. For single-row attribute groups, the logical attribute group row is just the collection of attributes in the attribute group, but for multi-row attribute groups, each row in the attribute group is a logical attribute group row. For example, the single-row attribute group "Dimensions," with Attributes "Width" and "Height" has only one logical attribute group row, but multi-row attribute group "Orders," with attributes "Date" and "Price" has as many logical attribute group rows as there are separate orders to be recorded.

Every interface table row contains data for one attribute in a logical attribute group row, and a logical attribute group row spans as many interface table rows as there are attributes in the logical attribute group row. To keep these flattened-out logical attribute group rows in order, there is the ROW_IDENTIFIER column, which uniquely identifies each logical attribute group row (for example, all attributes with the same ROW_IDENTIFIER value will belong to the same logical attribute group row). Thus, if a multi-row attribute group has ten attributes and three rows of values (for example, three logical attribute group rows), then there will be thirty interface table rows for the attribute group and three distinct ROW_IDENTIFIER values in those thirty rows.

ROW_IDENTIFIER

The grouping identifier for a logical attribute group row; its value must be the same for all interface table rows in the logical attribute group row, and no two logical attribute group rows in the same data set may share the same ROW_IDENTIFIER value.

ATTR_GROUP_INT_NAME

The internal name of the attribute group to which the current interface table row's attribute belongs.

ATTR_INT_NAME

The internal name of the attribute for which the current interface table row holds a value.

ATTR_VALUE_STR

If its data type is string, the value of the current interface table row's attribute.

ATTR_VALUE_NUM

If its data type is number, the value of the current interface table row's attribute.

ATTR_VALUE_DATE

If its data type is date, the value of the current interface table row's attribute. Values are converted to and from date data types using the format specified in EGO_USER_ATTRS_DATA_PVT.G_DATE_FORMAT.

ATTR_DISP_VALUE

The value of the current interface table row's attribute (as a string, regardless of its data type) if the attribute has a value set with separate display and internal values (for example, value sets with validation type of independent or table). In all other cases, use the preceding three columns.

TRANSACTION_TYPE

The mode of processing for a logical attribute group row; its value should correspond to the following constants in EGO_USER_ATTRS_DATA_PVT:

- G_DELETE_MODE (DELETE)
- G_UPDATE_MODE (UPDATE)
- G_SYNC_MODE (which either creates or updates, as appropriate) (SYNC)
- G_CREATE_MODE (CREATE)

Note that rows will be processed in the order they were just presented (for example, deletion first, followed by updates and synchronization, with creation last), in accordance to Oracle Applications standards.

ORGANIZATION_ID

This column is for internal use; any user-entered values are ignored.

CHANGE_ID

This column is also for internal use, but you may enter the CHANGE_ID if it is known. If the change ID is passed for a given change number, then it may save on conversion time. It is validated using CHANGE_NUMBER and ORGANIZATION_ID.

CHANGE_TYPE_ID

This column is for internal use; any user-entered values are ignored.

ATTR_GROUP_ID

This column is provided in case you know the attribute group ID for this interface table row's attribute group. If left blank, the attribute group internal name is used to identify the attribute group.

CHANGE_LINE_ID

The change line identifier. Calculation is based on the CHANGE_LINE_NAME, CHANGE_NUMBER, and ORGANIZATION_ID.

CHANGE_LINE_SEQUENCE_NUMBER

The change line sequence number uniquely identifies the change line for a change header. It is validated using CHANGE_NUMBER and ORGANIZATION_ID.

REQUEST_ID

This column is for internal use (to record the concurrent program request that ordered the processing of this row).

PROGRAM_APPLICATION_ID

This column is for internal use (to record the application ID of the concurrent program that processed this row).

PROGRAM_ID

This column is for internal use (to record the ID of the concurrent program that processed this row).

PROGRAM_UPDATE_DATE

This column is for internal use (to record the time the concurrent program processed this row).

CREATED_BY

A standard "Who" column whose value must be entered when you load the interface table.

CREATION_DATE

A standard "Who" column whose value must be entered when you load the interface table.

LAST_UPDATED_BY

A standard "Who" column whose value must be entered when you load the interface table.

LAST_UPDATE_DATE

A standard "Who" column whose value must be entered when you load the interface table.

LAST_UPDATE_LOGIN

A standard "Who" column whose value must be entered when you load the interface table.

ENG_CHANGE_PEOPLE_INTF

The following table shows the columns in the ENG_CHANGE_PEOPLE_INTF database table. For more details about the columns in ENG_CHANGE_PEOPLE_INTF, see ENG_CHANGE_PEOPLE_INTF Details, page 11-41.

ENG_CHANGE_PEOPLE_INTF table

Column Name	Data Type	Required?
CHANGE_ID	NUMBER(15)	
CHANGE_NOTICE	VARCHAR2(10)	Yes
CHANGE_MGMT_TYPE_CODE	VARCHAR2(30)	Yes
ORGANIZATION_ID	NUMBER(15)	
GRANTEE_PARTY_ID	NUMBER(15)	
INTERNAL_ROLE_ID	NUMBER(15)	
INTERNAL_ROLE_NAME	VARCHAR2(30)	
LAST_UPDATE_DATE	DATE	
LAST_UPDATED_BY	NUMBER(15)	
CREATION_DATE	DATE	
CREATED_BY	NUMBER(15)	
LAST_UPDATE_LOGIN	NUMBER(15)	
REQUEST_ID	NUMBER(15)	
PROGRAM_APPLICATION_ID	NUMBER(15)	
PROGRAM_ID	NUMBER(15)	
PROGRAM_UPDATE_DATE	DATE	
ORGANIZATION_CODE	VARCHAR2(3)	Yes
DISPLAY_ROLE_NAME	VARCHAR2(80)	Yes
GRANTEE_TYPE	VARCHAR2(8)	Yes
GRANTEE_NAME	VARCHAR2(360)	Yes
START_DATE	DATE	Yes
END_DATE	DATE	
TRANSACTION_TYPE	VARCHAR2(10)	Yes
TRANSACTION_ID	NUMBER(15)	Yes
PROCESS_STATUS	NUMBER(15)	Yes
DATA_SET_ID	NUMBER(15)	Yes

ENG_CHANGE_PEOPLE_INTF Column Details

CHANGE_ID

The change identifier. The import program populates the CHANGE_ID for the corresponding CHANGE_NOTICE.

CHANGE_NOTICE

The engineering change notice. CHANGE_NOTICE must be valid (in other words, it has already been created).

CHANGE_MGMT_TYPE_CODE

The internal category name of the engineering change. This column should be a valid entry in the ENG_CHANGE_MGMT_TYPES table.

ORGANIZATION_ID

The organization identifier. The import program populates this column for the corresponding organization code.

GRANTEE_PARTY_ID

The party identifier of the grantee. Populated by the import program.

INTERNAL_ROLE_ID

The internal role identifier. Populated by the import program. INTERNAL_ROLE_NAME The internal role name. Populated by the import program.

LAST_UPDATE_DATE

A standard "Who" column.

LAST_UPDATED_BY

A standard "Who" column.

CREATION_DATE

A standard "Who" column.

CREATED_BY

A standard "Who" column.

LAST_UPDATE_LOGIN

A standard "Who" column.

REQUEST_ID

A concurrent "Who" column.

PROGRAM_APPLICATION_ID

A concurrent "Who" column.

PROGRAM_ID

A concurrent "Who" column.

PROGRAM_UPDATE_DATE

A concurrent "Who" column.

ORGANIZATION_CODE

The organization code.

DISPLAY_ROLE_NAME

The display name of the role.

GRANTEE_TYPE

The type of grantee. Valid values are: USER, GROUP, COMPANY, or GLOBAL.

GRANTEE_NAME

The name of the grantee. Value will be the name of the user/group/company.

START_DATE

The start date of the grant to user/group/company/global.

END_DATE

The end date of the grant to user/group/company/global.

TRANSACTION_TYPE

The type of action. Valid values are: SYNC, CREATE, UPDATE or DELETE. SYNC will create grants if not existent; otherwise, it will update grants.

TRANSACTION_ID

The transaction identifier.

PROCESS_STATUS

The row status as input by the user. Valid values are 1, 2, 3, and 4. Records with the value 1 are processed by the import program. The value of this column will be updated to 2, 3 or 4 by the import program as follows:

- 2 - In process. This is the status when the record has a valid user name, item name, organization code and role name.
- 3 - Error. The given record is invalid.
- 4 - Success. After inserting the record, the grant is successful.

DATA_SET_ID

The identifier of the data set.

ENG_CHANGE_LINES_INTERFACE

The following table shows the columns in the ENG_CHANGE_LINES_INTERFACE database table. For more details about the columns in ENG_CHANGE_LINES_INTERFACE, see ENG_CHANGE_LINES_INTERFACE Details, page 11-44.

ENG_CHANGE_LINES_INTERFACE table

Column Name	Data Type	Required?
ECO_NAME	VARCHAR2(10)	
ORGANIZATION_CODE	VARCHAR2(3)	
CHANGE_TYPE_CODE	VARCHAR2(10)	
NAME	VARCHAR2(240)	
DESCRIPTION	VARCHAR2(2000)	

Column Name	Data Type	Required?
SEQUENCE_NUMBER	NUMBER	
ORIGINAL_SYSTEM_REFERENCE	VARCHAR2(50)	
RETURN_STATUS	VARCHAR2(1)	
TRANSACTION_TYPE	VARCHAR2(30)	
TRANSACTION_ID	NUMBER	
CHANGE_MGMT_TYPE_NAME	VARCHAR2(45)	
ORGANIZATION_ID	NUMBER	
ENG_CHANGES_IFCE_KEY	VARCHAR2(30)	
PROCESS_FLAG	NUMBER	
STATUS_NAME	VARCHAR2(80)	
OBJECT_DISPLAY_NAME	VARCHAR2(240)	
PK1_NAME	VARCHAR2(240)	
PK2_NAME	VARCHAR2(240)	
PK3_NAME	VARCHAR2(240)	
PK4_NAME	VARCHAR2(240)	
PK5_NAME	VARCHAR2(240)	
ASSIGNEE_NAME	VARCHAR2(360)	
NEED_BY_DATE	DATE	
SCHEDULED_DATE	DATE	
IMPLEMENTATION_DATE	DATE	
CANCELATION_DATE	VARCHAR2(240)	
COMPLETE_BEFORE_STATUS_CODE	NUMBER	
START_AFTER_STATUS_CODE	NUMBER	
TYPE_CLASSIFICATION	VARCHAR2(30)	

ENG_CHANGE_LINES_INTERFACE Column Details

ECO_NAME

The Change notice. A not-null value is required.

ORGANIZATION_CODE

The 3-character Organization code. A not-null value is required.

CHANGE_TYPE_CODE

The Change Type of this Change Line. A not-null value is required.

NAME

The Name of this Change Line. A not-null value is required.

DESCRIPTION

A Description of this Change Line. May be null.

SEQUENCE_NUMBER

Sequence Number of this Change Line (typically 10, 20, 30, ...). A not-null value is required.

ORIGINAL_SYSTEM_REFERENCE

In case this information comes from a migration from a different system, the identifier of this Change Line in the previous system. May be null.

RETURN_STATUS

The result of importing this Change Line into the system; only used internally, a user provided value will be ignored.

TRANSACTION_TYPE

The mode of processing this Change Line; its value should correspond to the following constants in ENG_ECO_PVT: G_DELETE_MODE, G_UPDATE_MODE, G_SYNC_MODE (which either creates or updates, as appropriate), and G_CREATE_MODE. Note that rows will be processed in the order they were just presented (for example, deletion first, followed by updates and synchronization, with creation last), in accordance with Oracle Applications standards. A not-null value is required.

TRANSACTION_ID

The Primary Key for this table; its value should be generated from the sequence MTL_SYSTEM_ITEMS_B_S. A not-null value is required.

CHANGE_MGMT_TYPE_NAME

The Change Category to which the Change belongs. A not-null value is required.

ORGANIZATION_ID

This column is for internal use, and any user-entered values are ignored.

ENG_CHANGES_IFCE_KEY

If this Change Line is imported at the same time as its Change Header, the value in this column must match the sequence-generated value of the ENG_CHANGES_IFCE_KEY in the ENG_ENG_CHANGES_INTERFACE table. A not-null value is required.

PROCESS_FLAG

Whether this row has yet to be processed, is currently being processed, encountered an error, or was successfully processed; its value should correspond to the following constants in EGO_CHANGE_USER_ATTRS_PUB: G_PS_TO_BE_PROCESSED, G_PS_IN_PROCESS, G_PS_ERROR, and G_PS_SUCCESS.

STATUS_NAME

The Status Name of this Change Line. A not-null value is required.

OBJECT_DISPLAY_NAME

The Display Name of the Type of subject: Item, Document. May be null if there is no subject for this Change Line.

PK1_NAME

The first part of the identifier for the subject of this Change Line. May be null if there is no subject for this Change Line.

PK2_NAME

The second part of the identifier for the subject of this Change Line. May be null.

PK3_NAME

The third part of the identifier for the subject of this Change Line. May be null.

PK4_NAME

The fourth part of the identifier for the subject of this Change Line. May be null.

PK5_NAME

The fifth part of the identifier for the subject of this Change Line. May be null.

ASSIGNEE_NAME

The User Name of the person to whom this Change Line is assigned. A not-null value is required.

NEED_BY_DATE

The Date by which this Change Line has to be completed. A not-null value is required.

SCHEDULED_DATE

The Date by which this Change Line is expected to be completed. A not-null value is required.

IMPLEMENTATION_DATE

The Date on which this Change Line was implemented. A not-null value is required.

CANCELATION_DATE

The Date on which this Change Line was cancelled. A not-null value is required.

COMPLETE_BEFORE_STATUS_CODE

Column not supported.

START_AFTER_STATUS_CODE

Column not supported.

TYPE_CLASSIFICATION

Column not supported.

Managing Reports

Change management reports are basically search results that you can save, browse, email, or print. You can create reports for any change management category (issues, change requests, and change orders). You can browse a report sequentially or using a summary view. Browsing a report sequentially enables you to

step through the contents of a report in page layout format. A summary view displays the report in tabular column format. You can send a report to other users including registered suppliers and customers. You can export change management and issue reports to Adobe Acrobat or XML using custom report formats. Design your report formats using familiar desktop tools such as Adobe Acrobat and Microsoft Word.

Creating a report from your most common or frequent searches saves you the time of selecting a change category, criteria template and results format and repeating the same search over and over again. You can give reports meaningful names as well. For example, a search for all open change orders may yield dozens of change orders, each identified by change order name and number. You can simply name the report "Open Change Orders."

Report security is consistent with search security: you can only access change objects on which you have the required role.

Before creating a report, you must have a Display Format defined for the change categories in which you intend to generate reports.

To create a report:

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, click Create Report.
3. On the **Create Report** page, select the change category in which the report will be generated and click Go. Any search criteria or display formats that exist in the selected change category will appear in the Search Criteria and Display Format pulldowns.

4. When the **Create Report** page refreshes, provide the following:

Name

Provide a name for the Report.

Description

Optionally, provide a description of the Report.

Criteria

Select the criteria to be used in the search. You can use an existing search criteria template (if one exists for the change category selected), or add criteria here by clicking Add Criteria.

Format

Select a format for the report. You can use an existing display format by selecting it from the Display Format pulldown and clicking Go.

Optionally, select the Preview mode for the report and click Go. It is recommended that you preview the report before it is actually created to make sure it contains all the information you want in the format that you want it. Previewing a report sequentially enables you to step through the contents of a report in page layout format. A summary view displays the report in tabular column format.

You can also create reports based on search results or item change management lists.

5. In the **Export Format** section, you can optionally select an export template and output format, such as .pdf or .xml, in which you want to generate the report.

6. Click Apply.

To browse a report:

You have the option of browsing your reports in either Inline or Sequential format.

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, select the report you want to browse:

Inline View

Click the Inline View icon to browse the report in tabular column format.

Browse Sequentially

The Browse Sequentially option enables you to browse a report sequentially by scrolling through the contents of a report in page layout format. You can scroll through and view each change order in a report as you would on a **Summary** page.

Export File

If the Export File icon is enabled, you have the option to create an Export File for the report. The Export File icon is only enabled if an export template and output format are specified for the report.

To send a report:

You can send a report to any registered user.

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, select the report you wish to send, select the Send action, and then click Go.
3. On the **Send Report** page, provide the following:

Name

Enter the name(s) of the people or groups to which you wish to send the report. If you wish to send the report to more people than listed in the fields provided, click Add People.

Subject

The default Subject for the email is the report name--you are free to edit it.

Browse

Select the Browse mode you wish the report to appear in.

Message

The message that you enter here precedes the report when delivered to recipients.

4. Click Send.

To update a report:

As time and business dictates, you may want to revise the criteria or results for a report.

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, select the report you wish to update, select the Update action, and click Go.

3. On the **Update Report** page, update the criteria or the display format. You can add additional criteria attributes, update criteria operators or values, and select different results formats.
4. After completing your revisions, click **Apply**.

Note: Only the administrator can update reports created by the administrator.

To export a report:

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, select the report you want to export, select the **Export** action, and then click **Go**.
3. On the **Export** page, select an export template and an output format for the report.
4. Click **Export**.

To print a report:

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, select the report you want to print, select the **Inline View** or **Browse Sequential** action, and then click **Go**.
3. On the **Report** page, click **Printable Page** to display the report in a printer-friendly format. Print the report from your web browser.

To delete a report:

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, select the report you wish to delete, select the **Delete** action, and click **Go**.

To create a report list:

The **Reports** page allows you to create personalized report lists. These lists are displayed in the **View** pulldown on the **Reports** page. You can add or remove reports that you have added to the lists.

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, click **Personalize**.
3. On the **Report Lists** page, click **Create List**.
4. On the **Create Report List** page, provide the following:

Name

Enter a name for the report list. This will be displayed in the **View** pulldown on the **Reports** page.

Description

Enter a description for the report list.

5. Click **Add Reports** to add existing reports to the report list.
6. On the **Add Reports** page, select the reports you want to add to the list.

7. Click Apply.

To update a report list:

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, click Personalize.
3. On the **Report Lists** page, click the Update action corresponding to the report list you want to update.
4. On the **Update Report List** page, make the necessary changes and click Apply.

To delete a report list:

1. In the Applications tree menu, click the "Change Reports" link.
2. On the **Reports** page, click Personalize.
3. On the **Report Lists** page, click the Delete action corresponding to the report list you want to delete.

Configuration Management

Configuration Management Overview

To navigate to all Configuration Management help topics, select the Advanced Product Catalog folder under Manufacturing Applications> Product Lifecycle Management, and then select the Configuration Management folder.

Searching for Items in a Structure

You can search for items in a structure using component and item attributes, as well as other additional criteria. These searches are performed within the context of a selected item structure.

To perform a simple search:

1. Locate an item that is in the structure you wish to view by clicking the "Simple Search" link in the Item menu.
2. On the item's **Search Results** page, click the item's name link.
3. On the **Primary Attributes** page for the item, click the Configuration tab.
4. On the **Structures** page, click the icon in the Hierarchy View column.
5. On the **Structure Components** page, click Modify Search.
6. On the **Advanced Search** page, click Simple Search.
7. On the **Simple Search** page, enter the name of the item structure you wish to locate and click Search.

To perform an advanced search:

1. Locate an item that is in the structure you wish to view by clicking the "Simple Search" link in the Item menu.
2. On the item's **Search Results** page, click the item's name link.
3. On the **Primary Attributes** page for the item, click the Configuration tab.
4. On the **Structures** page, click Modify Search.
5. On the **Advanced Search** page, select a criteria template to use for your search. You must either select an existing criteria template, or create one of your own. When you select a criteria template and click Go, the attributes, components and catalog category defined for that criteria template populate the remaining

attribute, component and catalog category fields on the page. For details about how to define criteria templates, see *Creating Criteria Templates*, page 1-2.

A default criteria template may be defined by the administrator. In cases where there is both a default criteria template and user-defined criteria template, the user-defined template takes precedence.

6. Click Search.

Viewing Item Structures

Configuration Management enables you to view multiple BOMs (product structures) defined for an item. You can view indented structures of those BOMs. You can also manage attachments to those structures. Configuration Management also provides you the capability to view items where used to view an imploded list of all the items using assemblies for a specified component.

To view structure details:

1. Use any of the search methods (simple or advanced search) within Advanced Product Catalog and locate the item in which you are interested.
2. Click the Configuration tab. You can see one or more product structures defined for the item.
3. Click the Detail icon. You can view the structure's details on the **Structure Detail** page.

To view indented structures:

1. Use any of the search methods (simple or advanced search) within Advanced Product Catalog and locate the item in which you are interested.
2. Click the Configuration tab. You can see one or more product structures defined for the item.
3. Click the structure name.
4. On the **Structure Components** page, select the Filter and Display Option.
5. Click Go to explode the structure in the hierarchy view. You can expand or collapse portions of the indented structure.
6. View the indented structure for other structures and item revisions of this item by switching options in the quick search sandbox.

To locate components or subassemblies in indented structures:

1. In the indented structure, click Search.
2. In the Search field, provide the search criteria and click Go.
3. Click the View in Hierarchy icon in the search results table to focus the indented structure on the selected component or subassembly.
4. Click Criteria to return to indented structure options.

To view the structure list by item revision:

1. Locate an item that is in the structure you wish to view by clicking the "Simple Search" link in the Item menu.

2. On the item's **Search Results** page, click the item's name link.
3. On the **Primary Attributes** page for the item, click the Configuration tab.
4. On the **Structures** page, select the specific Item Revision you wish to view and click Go.

Note: Each item has a specific revision (the Item Revision menu defaults to the current revision), and there is an effectivity date for each of these item revisions. Each component that is part of the item structure also has an effectivity date. As long as the component has an effectivity date that occurs on or before the date of the item revision, that component will appear in the item structure.

Managing Item Structures

To add attachment categories to a structure type:

An attachment category must be created before it can be associated with a structure type. To create an attachment category, contact your system administrator.

1. In the Applications tree menu, click the Setup Workbench link.
2. On the **Search: Item Catalog Categories** page, click the Structures tab.
3. On the **Search: Structure Types** page, click on the name of the structure type to which you wish to add an attachment category.
4. On the **Basic Information** page, click the Item Attachment Categories link.
5. On the **Item Attachment Categories** page, select the attachment category you wish to add. If it does not appear in the list, enter the name in the Search field and click Go.
6. After locating the correct attachment category, select it and click Add.

To display document attachments to structure components:

You cannot view attachments for a structure unless an attachment category has already been created and added to the structure type. To create an attachment category, contact your system administrator.

1. Use any of the search methods (simple or advanced search) within the Advanced Product Catalog and locate an item that is part of the structure in which you are interested.
2. Click the Configuration tab. You can see one or more product structures defined for the item.
3. On the **Structures** page click the First Level Components icon for the structure whose attachments you wish to view.
4. On the **Structure Components** page, locate the component whose attachments you wish to display and click the Show (+) icon preceding the component name to open the attachments display.

Note: In a hierarchical grid display, attachments appear as nodes in the component.

Performing Item 'Where Used' Inquiries

You can view assemblies where a component is used throughout all BOM structures. You can search for assemblies in the component Where Used hierarchy.

To view items where used:

1. Use any of the search methods (simple or advanced search) within Advanced Product Catalog and locate the item in which you are interested.
2. On the **Primary Attributes** page, click the Configuration tab.
3. On the **Structures** page, click the Where Used tab.
4. On the **Item Where Used** page, select one of the following:

Current

Select to inquire about component usage in the current organization.

All

Select to inquire about the current organization and all subordinate organizations in the chosen organization hierarchy.

Hierarchy

Select to inquire about all organizations having the same item master organization as the current organization. Enter the organization hierarchy name because current organizations can be accessed from more than one organization hierarchy.

5. Select the display option.
6. Click Go. You can expand or collapse portions of the indented item usages.

To locate assembly items in indented item usages:

1. In the indented item usages, click Search Item.
2. In the search field, provide search criteria and click Go.
3. Click the View in Hierarchy icon in the search results table to focus the indented item usages on the assembly item.
4. Click Criteria to return to Where Used.

Product Workbench

Product Workbench Overview

Using the Product Workbench, edit, view, and manage product information, including product structures/bills of material and structured attributes. Using the HTML user interface, drag & drop, red-lining/markup inside a familiar interface. This tool is for users who frequently need to work with complex product structures and need quick response time and extra flexibility that a windows based UI can provide.

Product Workbench's Advanced Graphical User Interface

Oracle Product Workbench's graphical interface improves productivity and enables easy access to critical information. The windowing, mouse actions, icons, and built-in drilldown enable easy transactions and inquiries. The workbench provides all the relevant information in different windows that can be displayed simultaneously. You can resize, minimize, maximize and close these windows based on your requirement.

Oracle Product Workbench [Change Context: ECO_1_1_1]

File Edit View Actions Window Help

Item Search: CMV

View: Vision Operations

Find

Favorites

Organizations

- Vision Oper... V1
 - CH52777 Sentinel Co
 - CH52744 Envoy Corp
 - CH54000 Sentinel SI
 - Carl B...
 - IBS...
 - Canby...
 - RootP...
 - RootP...
 - CH42527 Sound Car
 - CH34701 Base Asse
 - V140001 Motherboa
 - RootP...
 - Engine...
 - Engine...
 - SG_Test_S... Desktop e
 - RootP...
 - Engine...
 - Engine...
 - Engine...
 - Engine...

Vision Operations - SG_Test_S4888(A) - Primary (Change Context: ECO_1_1_1)

Date: 09-Mar-2005 10:32:50

Search Criteria: * Name Filter: Current

Revision: A Display Format: Component Details Changes: ECO_1_TEST

Name	Action	Description	Revision	Item Sequence	Quantity	Operation S
SG_Test_S4888		Desktop system	A	1		
CM18759		Keyboard - 101 Key	A	10	2	1
CH32982		Manual Set	A	20	6	1
SE34701		Base Assembly	A	30	4	1
MC95728		Motherboard Holder - White	A	20	1	1
SB17794	Change	Drive Mount Assembly	A	30	3	1
CM2246	Delete	Card Holder	A	40	4	4
CH36717		Screens Steel 32 Philips	A	50	1	1
CM24713	Add	Plastic Base - Black	A	60	1	1
CH42237	Add	Sound Card	A	70	1	1
CM15138		Monitor - 17"	A			
V111476		SMC Ethernet Card	A			
V111405		Licon/Litelyear Battery Charge	A			

V1: SG_Test_S4888(A) - Primary / V1: SG_Test_S4888(A) - Flow

Search Criteria: * None Display Format: BOM Comparison

V1: SG_Test_S4888(A) - Primary

Name	Action	Revision
V1: SG_Test_S4888(A) - Primary		A
CM18759		A
CH32982		A
SE34701		A
MC95728		A
SB17794		A
CH36717		A
CM24713		A
CH42237		A
CM15138		A
V111476		A
V111405		A

V1: SG_Test_S4888(A) - Flow

Name	Action	Revision	Description
V1: SG_Test...		A	Desktop system
CH32982		A	Manual Set
SE34701		A	Base Assembly
MC95...		A	Motherboard Holder
SB177...		A	Drive Mount Assem
CH422...		A	Card Holder
CH367...		A	Screens Steel 32 Ph
CM24...		A	Plastic Base - Black
Flow...		B	Flow_Test_Pend05

Overview Effectivity Attributes Revision Where Used Attachments

Date: 09-Mar-2005 10:39:05

Display: Item C

Name	Description	Original
SE34701	Base Assembly	
A12388	Envoy Customer L...	Vision Op...
CH37444	Envoy Customer L...	Vision Op...
CH37444	Envoy Customer L...	Vision Op...

Relationship CMV72333 (Change Context: ECO_1_1_1)

Name	Description
Vision Operations	V1
CMV72333	Upgrade Board
CM51582	PC Bag - Double Sided, Leather
CM11062	Mouse Pad

Attachments Change Management Relationships

Overview Attributes Revision Where Used

Item Status Item Revision: A

Name	Current Value	New Value	UDM
Item			
Physical Attributes			
Physical Attributes			
Unit			
Unit Weights			
Unit			
Unit			
Unit			

Added = 0, Deleted = 14, Changed = 0

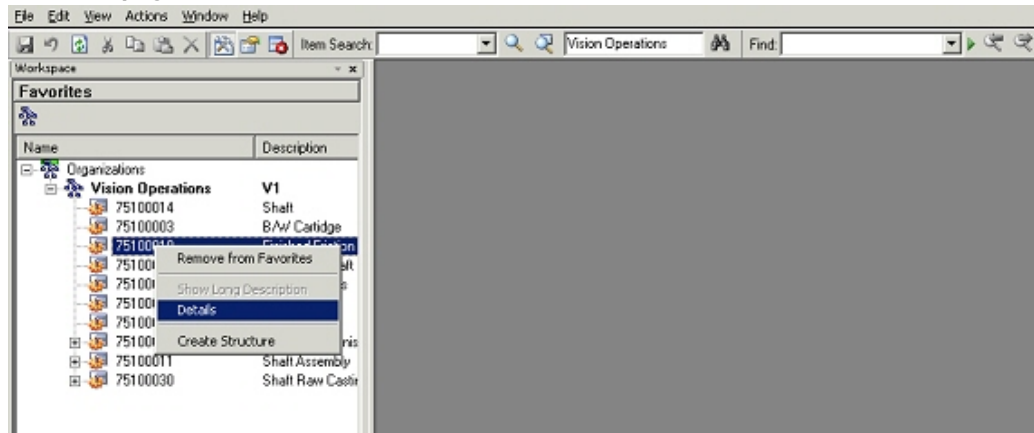
Favorites List

Editing Favorites List

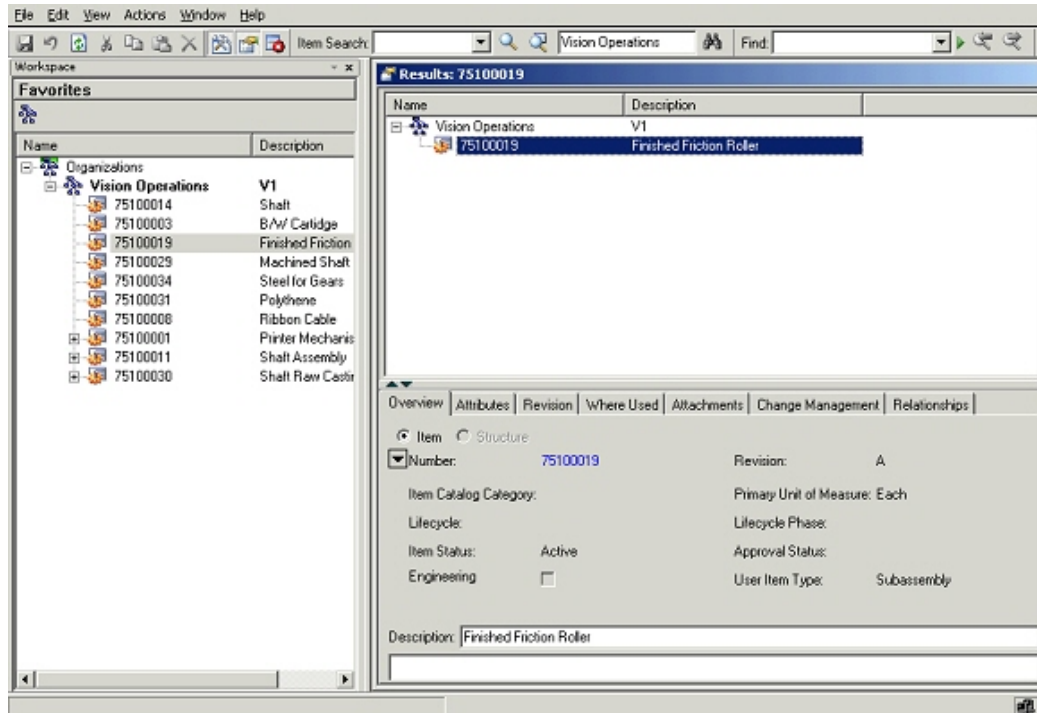
Similarly, users can select an entry from the Favorites list and remove the selected item from the list by another right click menu action.

Users can select an entry from the Favorites list and invoke the details window by a right click action. A new window is opened displaying the item information organized over different TABs. If the user changes the selection in the favorites list, the item information being displayed in the details window also changes appropriately.

Favorites page



Item Details



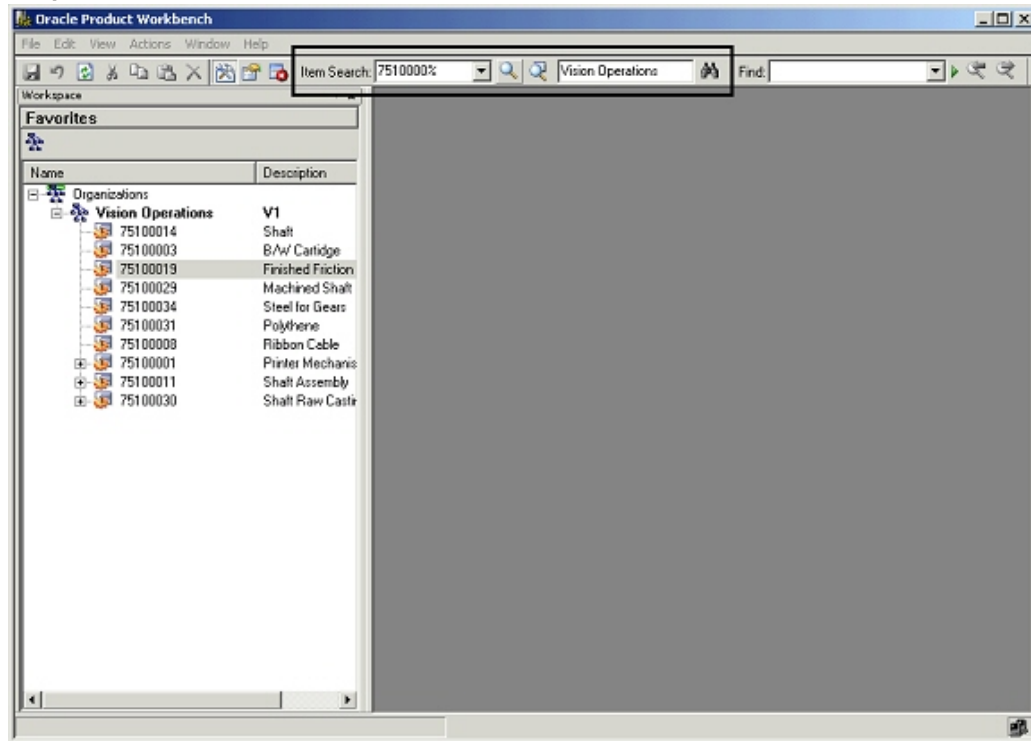
Item Search

Oracle Product Workbench allows user to search for items in different organizations. You can execute both simple and advanced search from Oracle Product Workbench.

To perform Simple Search:

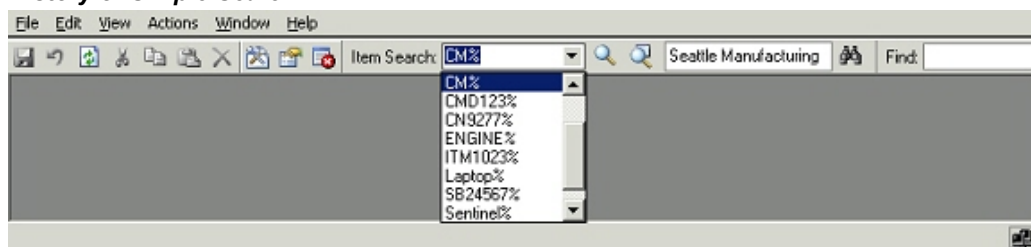
1. Select an organization and then enter a partial or complete item name you want to search for. Use "%" as the wildcard character to enter partial searches as part of the search criteria.
2. Click the simple search toolbar menu. All items matching the specified criterion are listed in the search result window.

Simple search



Important: History of the above searches is maintained for each user and is displayed in the search poplist. To repeat the query, select the previously used string, and click the simple search toolbar button.

History of Simple Search



To perform Advanced Search:

1. Select an organization and then click on the advanced search toolbar menu. This displays the item advanced search page.
2. Specify the search criteria, and choose a display format.
3. Click the Search button. (This page is same as the APC Item advanced search page. Pl refer the APC doc for more information)

Advanced Search

Oracle® Item Catalog
Organization: Vision Operations (V1)

[Search >](#)

Advanced Search
For any duplicated attribute the search will be conducted on both attribute values. [Cancel](#) [Simple Search](#) [Search](#)

Item Catalog Category: [Go](#)
Revision:

Search Criteria
Search Criteria: [Go](#)

Select Criteria: [Clear](#) [Delete](#) [Duplicate](#) | [Add Criteria](#)

[Select All](#) | [Select None](#)

Select	Attribute Group	Attribute	Operator	Value
<input type="checkbox"/>	Primary	^ Item	starts with	PR
<input type="checkbox"/>	Primary	^ Item Status	is	Active
<input type="checkbox"/>	Primary	^ Description	is	
<input type="checkbox"/>	Primary	Primary Unit of Measure	is	Each
<input type="checkbox"/>	Primary	User Item Type	is	

[Criteria List Table](#)

TIP ^ Indicates indexed attribute. You must enter at least one indexed attribute to perform a search.

Display Format
Display Format: [Go](#)

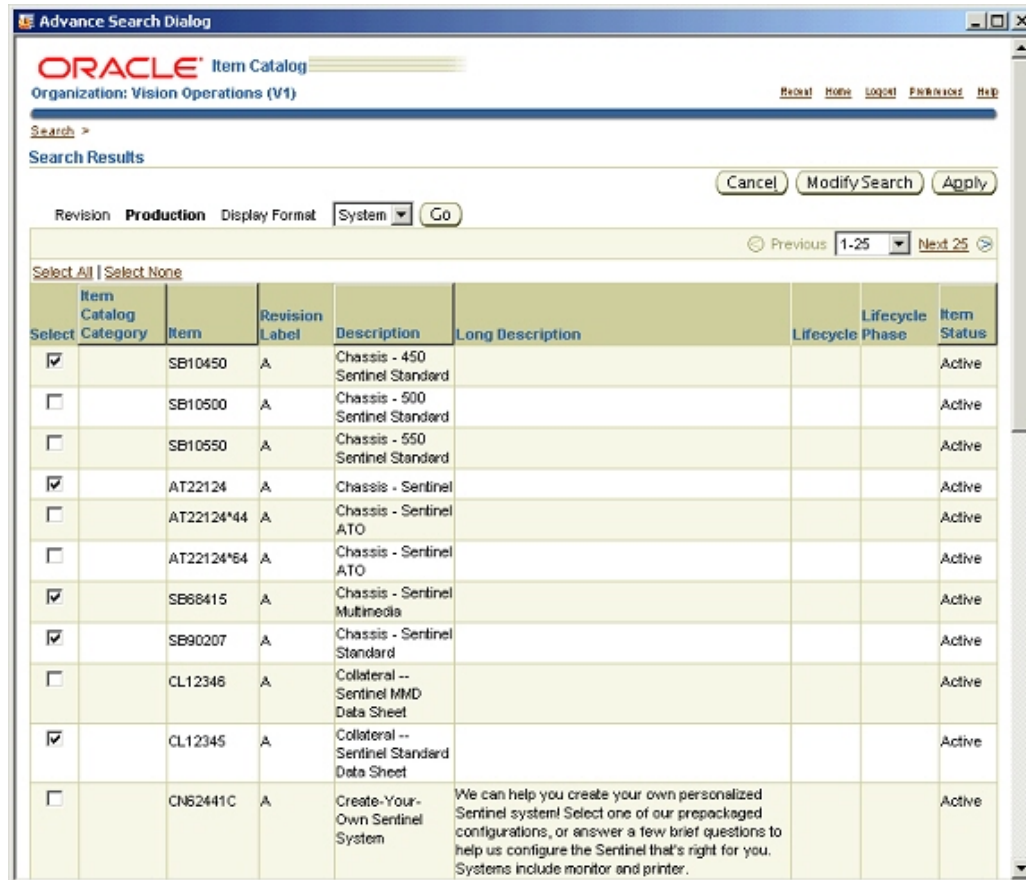
Item Catalog Category	Item	Revision Label	Description	Long Description	Lifecycle	Lifecycle Phase	Item Status

[Cancel](#) [Simple Search](#) [Search](#)

Copyright © 2000-2004 Oracle Corporation. All rights reserved. [Privacy Statement](#)

Note: You can review these results and then select one or more results, and click Apply. The selected items will be displayed in the search results/item details window.

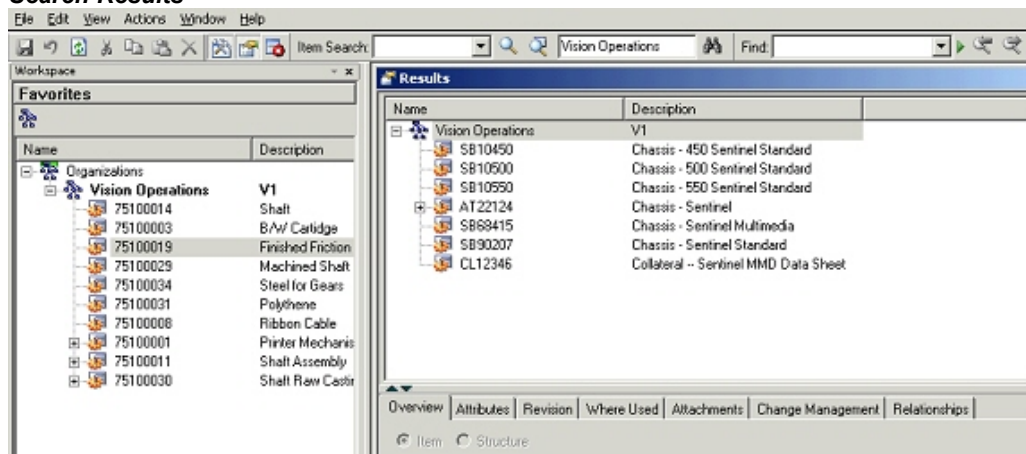
Intermediate UI for Advanced Search Results



Search Results

The search results are displayed as nodes under the organization name in a hierarchical format. These results can be sorted on item number or description. Structures created for an item get listed when the node corresponding to the item is expanded. If the user changes the selection in the search results, the item information being displayed in the details window changes appropriately.

Search Results



Viewing and Editing Item Information

Users can view and modify item information in Oracle Product Workbench based on their privileges on this information. The item information is organized on the following TABs on the 'Details' window:

The Overview tab

Item Number, Current Revision, Description, Long Description, Primary UOM, Item Catalog category, Lifecycle etc for the selected item are displayed.

Users with editing privileges can edit the description and long description of the context item on this TAB. Users can also navigate to html item information pages by clicking the hyperlink against the item number.

Overview tab

The screenshot shows the 'Overview' tab of the Oracle Product Workbench interface. The window title is 'Results: CN92777'. At the top, there is a table with two columns: 'Name' and 'Description'. The table contains two rows: 'Vision Operations' with description 'V1', and 'CN92777' with description 'Sentinel Custom Desktop'. Below the table is a tabbed interface with tabs: 'Overview', 'Attributes', 'Revision', 'Where Used', 'Attachments', 'Change Management', and 'Relationships'. The 'Overview' tab is selected. Under the 'Overview' tab, there are two radio buttons: 'Item' (selected) and 'Structure'. Below these are several fields: 'Number: CN92777', 'Revision: B', 'Item Catalog Category: CTO Sentinel or Laptop', 'Primary Unit of Measure: Each', 'Lifecycle:', 'Lifecycle Phase:', 'Item Status: Active', 'Approval Status:', 'Engineering' (with a checkbox), and 'User Item Type: ATO model'. At the bottom, there is a 'Description:' field with the text 'Sentinel Custom Desktop' and a large text area containing the long description: '900MHz AMD Athlon processor with 3D Now!, 128MB RAM, 100GB hard drive, CD-RW, DVD-ROM, 56Kbps modem, 10/100 Ethernet, Logitech camera, Windows 2000 Standard'.

Item Attributes tab

This TAB shows the item attributes (both seeded and user-defined) in a hierarchical view under the "Item" node. Different Item attributes are grouped under an attribute group, multiple attribute groups are grouped under an item page, and different item pages are listed under the item node. An Item revision context switcher is provided on this TAB to enable users to view the revision level attribute values for the selected revision.

Only those attribute groups are shown on which the user has at-least view privilege. The revision level attribute groups, org-controlled attributes, multi-row attribute groups

and the attribute groups under change control are visually indicated through different icons against the attribute group node.

Item Attributes tab

Name	Description
Vision Operations	V1
SMC1100	Raw Wafer

Name	Current Value	New Value	Unit of Measure
Item			
Revision Level Specification			
Technical Specifications			
Motherboard Specifications			
Operating Conditions			
Optimal Temperature			
Relative Humidity (Obs)			
Humidity			
Maximum Wet Bulb Tem...			
Minimum Dew Point			
Physical Attributes			
Sales and Order Management			
Planning			
Purchasing			
Inventory			
Manufacturing			
Bill of Materials			
Costing			
Costing Enabled	Yes		
Inventory Asset Value	Yes		
Include In Rollup	Yes		
Cost of Goods Sold Acc...	01-510-5110-0000-000		
Standard Lot Size	1		
Work In Progress			
Service			

Editing Item attributes

In-place editing of attributes is supported in product workbench. Double click on an attribute value to modify the same. Based on the valueset attached to the attribute, the values that the user can specify are restricted.

On modification, the values are not directly saved; they are retained in the markup mode (as per the color scheme configured on per user basis) and the user can save these changes directly or through a change order based on the change policies.

Editing attribute values

Name	Current Value	New Value	Unit of Measure
Item			
Revision Level Specificati...			
Technical Specifications			
Motherboard Specific...			
Chipset			
CacheMemory		1000	
System Memory			
VGA			
PCIInterface			
ProcessorSocket			
WatchdogTimer			
Operating Conditions			

Item attributes that cannot be edited

Item attributes cannot be edited in any of the following scenarios:

- Master Org controlled attributes in Child organizations
- User does not have edit privileges on the attribute group.
- Attribute changes are not allowed in the current lifecycle state of the item as per the change policy.

These attributes are indicated with a yellow background. Double click on the field will not change the field to the edit mode.

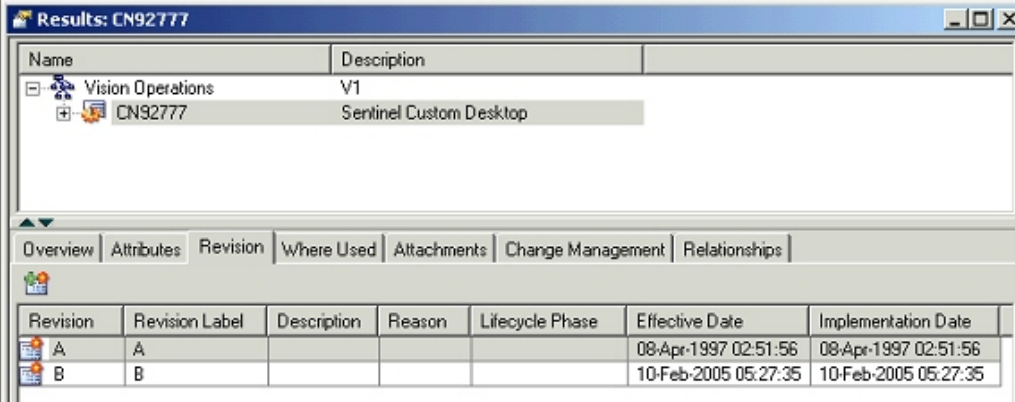
Item attributes that cannot be edited

Name	Current Value	New Value
Item		
Revision Level Specification		
JBMotherboard Specifications		
Chipset		
CacheMemory		
System Memory		
VGA		
PCIInterface		
ProcessorSocket		
WatchdogTimer		
Technical Specifications		
Physical Attributes		

Item Revisions tab

All revisions that have or have not been implemented are listed on this TAB. Users with appropriate privileges can also create new revisions for the selected item.

Item Revisions tab



Revision	Revision Label	Description	Reason	Lifecycle Phase	Effective Date	Implementation Date
A	A				08-Apr-1997 02:51:56	08-Apr-1997 02:51:56
B	B				10-Feb-2005 05:27:35	10-Feb-2005 05:27:35

Item Where Used tab

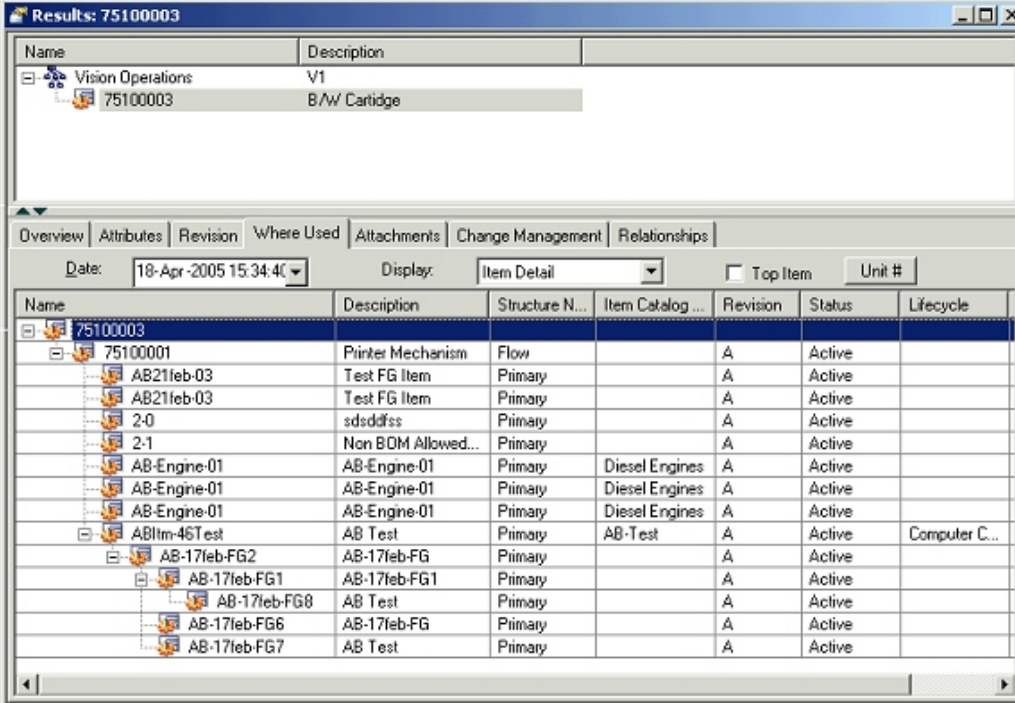
An imploded list of all the assemblies using the selected item as a component is shown on this TAB. Users can view the where-used report for a an implosion date/unit number different from the defaulted ones by selecting the values appropriately.

Display format has been seeded to restrict the attributes shown in the report.

Top item check box is provided to show only the end assemblies (without the hierarchy) in this report.

To open the structure in a new window, select an assembly in the where-used report and right click on the "open" / "open with" menu option.

Item Where Used tab



Name	Description	Structure N...	Item Catalog ...	Revision	Status	Lifecycle
75100003						
75100001	Printer Mechanism	Flow		A	Active	
AB21feb-03	Test FG Item	Primary		A	Active	
AB21feb-03	Test FG Item	Primary		A	Active	
2-0	sdsddfs	Primary		A	Active	
2-1	Non BDM Allowed...	Primary		A	Active	
AB-Engine-01	AB-Engine-01	Primary	Diesel Engines	A	Active	
AB-Engine-01	AB-Engine-01	Primary	Diesel Engines	A	Active	
AB-Engine-01	AB-Engine-01	Primary	Diesel Engines	A	Active	
AB11m-46Test	AB Test	Primary	AB-Test	A	Active	Computer C...
AB-17feb-FG2	AB-17feb-FG	Primary		A	Active	
AB-17feb-FG1	AB-17feb-FG1	Primary		A	Active	
AB-17feb-FG8	AB Test	Primary		A	Active	
AB-17feb-FG6	AB-17feb-FG	Primary		A	Active	
AB-17feb-FG7	AB Test	Primary		A	Active	

Item Attachments tab

An attachment is unstructured information related to an item. For example, unstructured information attached to an item could be a marked up CAD drawing, test results document, specification sheet, or URL.

In the current release of Product workbench only the EBS repository is supported. Product Workbench supports viewing, adding and detaching these attachments.

All the item attachments are listed on this TAB. User can filter these attachments on the basis of item revision by selecting appropriate value from the item revision context switcher.

Adding Attachments

User clicks the appropriate icon to attach a desktop file, text or URL document to the selected item. When a document is being attached, the user can specify an Attachment Category to classify the document.

Viewing Attachments

User can select an attachment from the list and click the View Attachment icon to view the attachment in a new window.

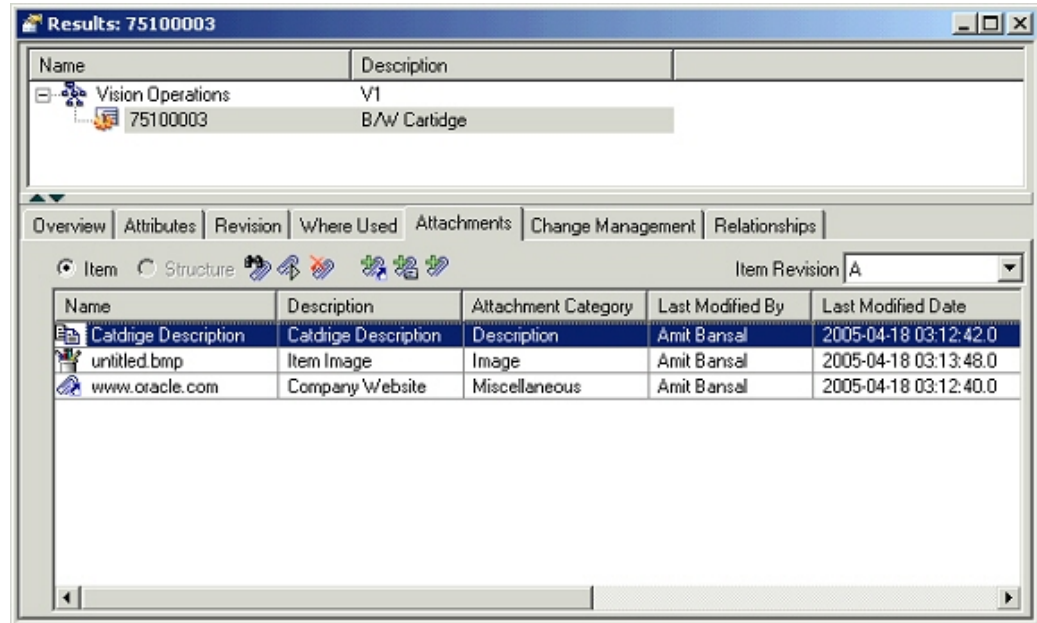
Detaching attachments

User can select an attachment from the list and click the Detach icon for the document that needs to be detached.

Viewing the attachment list in HTML

User can click on the View attachment list icon to launch the list in html workbench. This workbench also lists the OF as well as the EBS attachments.

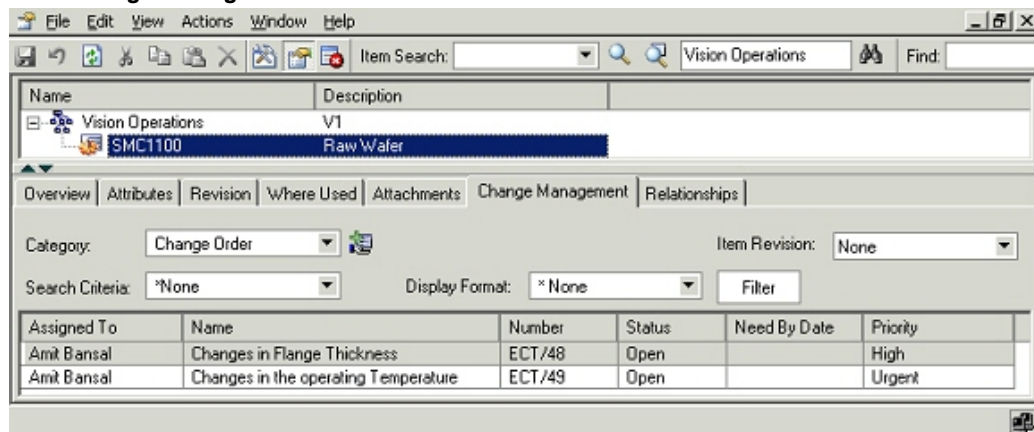
Item Attachments tab



Item Changes

This TAB lists the pending change objects for the selected item. The user can view only those change objects on which at-least view privilege has been granted to the user.

Item Change Management tab



- User can create new changes for change order and issue based categories from this TAB.
- User can change the selection in “Change Category” poplist to view the changes created for the selected item for the selected category.
- User can choose a display format to restrict the columns being displayed in the list.
- User can sort the list on any one of the displayed columns.
- User can choose to hide one or more of the available columns on display. User can also unhide a hidden column.
- Different resize actions are possible on the columns.
- User can filter the list of issues by selecting a value in the search criteria poplist.
- User can filter the filtered results by selecting a value displayed in a column and doing a right click action “Filter”. E.g. If “Assigned To” field is being displayed in the issues list and user selects a value say “Sachin Patel” and does a filter, only those issues are listed that are assigned to Sachin Patel. Filters get progressively applied using this functionality.
- User can apply additional filters against one or more of the following three change attributes irrespective of whether these attributes are displayed or not:
 - Status
 - Assigned to
 - Priority
- User can view changes created for a specific item revision by selecting appropriate value in the revision poplist. Besides specific revisions created for the item, values “None” and “All” are also available in this poplist.
- User can double click on an entry in the list of change to launch the change details in html UI.

Creating Items


You can invoke the create Item dialog from the main menu or from the favorites window as a right click action. The favorites item window is a non-modal one, which means that you can create multiple items one after the other, without having to wait for the completion of creation of previous or perform other actions in Product workbench without having to close this window. The status of each of the item being created is displayed in the create item dialog.


Note: Items can be created in the item master organizations only. User needs to navigate to the html pages to assign the item to different children organizations. Product workbench doesn't support item assignment to different children organizations.

Create Item

*Indicates a required field

Create Item From

☒ Item Catalog Category: Motherboards 

☐ Existing Item: 


Functional Classification

☒ Engineering Item


*Item Number: Motherboard ATX 4975


*Description: Motherboard ATX 4975

Long Description: Motherboard ATX 4975 for high end laptop computers

Template: Purchased Item 

Primary Attributes

Lifecycle: Computer Component *Primary Unit of Measure: Each 

Lifecycle Phase: Concept *Item Status: Active 

List of Items to Create

Item Catalog Cate...	Item	Create Status
Motherboards	Motherboard ATX 4975	Pending
Motherboards	Motherboard ATX 4952	Succeed
Motherboards	Motherboard ATX 4954	Succeed

☒ Add successfully created items to favorite window.

Create Close

To create items:

1. You can provide either an item catalog category (only those item catalog categories that have an item catalog category user role can be selected), or an existing item to create a new item from. If you select an item catalog category, different fields are defaulted as setup for the selection. Examples include Item Number/Description (in case they are sequence generated), item template etc
2. You can choose whether the newly created item is engineering or a manufacturing item by appropriately selecting or clearing the Engineering Item check box.

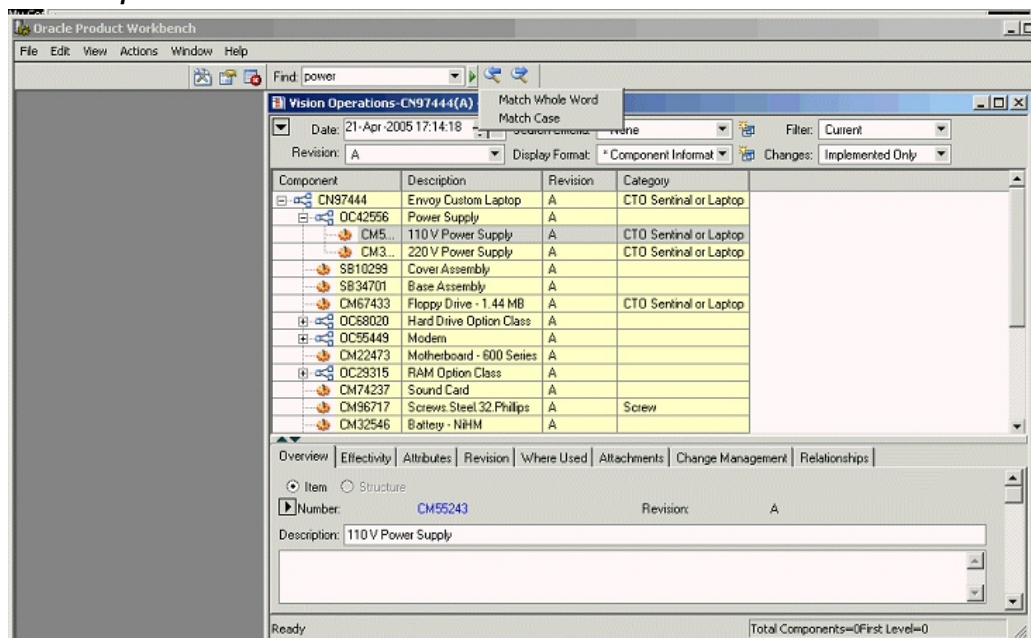
3. You can then provide the item number, description and long description for the item being created.
4. You can optionally choose an item template to be applied while creating the item
5. You can specify a lifecycle or lifecycle phase that the item being created, needs to follow. This is allowed only if the item is being created in a catalog category is associated with valid lifecycles..
6. The Primary UOM and the Item status attribute values are defaulted. You can review these defaults and change them, if required.
7. You can add the newly created items to the favorite list by checking the “Add successfully created items to favorite list”. The items get added to the favorite list as soon as they are created.

Overview of Product Structure and Bills of Material Management

Find Components in Structure

The Product Workbench enables you to quickly Find Components in a Structure. It is text search within the structure window, wherever the text appears, the corresponding item row is highlighted.

Find Components

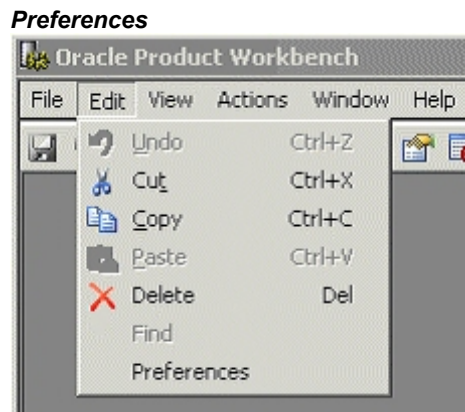


- For example if you provide the text “power” in the text field to search, all the components containing the word “power” will be highlighted one by one.
- The navigation to search result is provided by **Previous** and **Next** arrow button next to the Find text field. Using this button you view the search results one by one.
- It also remembers the all the searches that has been done in the past and shows a drop-down menu to select any of those searches.

- It allows you to perform both case-sensitive and non-case-sensitive searches.
- It also allows you to match the whole word or partial words from the text.
- The text is searched within the columns available in the current display formats and search criteria.
- If there are no components containing the text provided by the user, it shows a dialog indicating no such text has been found in the current structure.

Setting Preferences

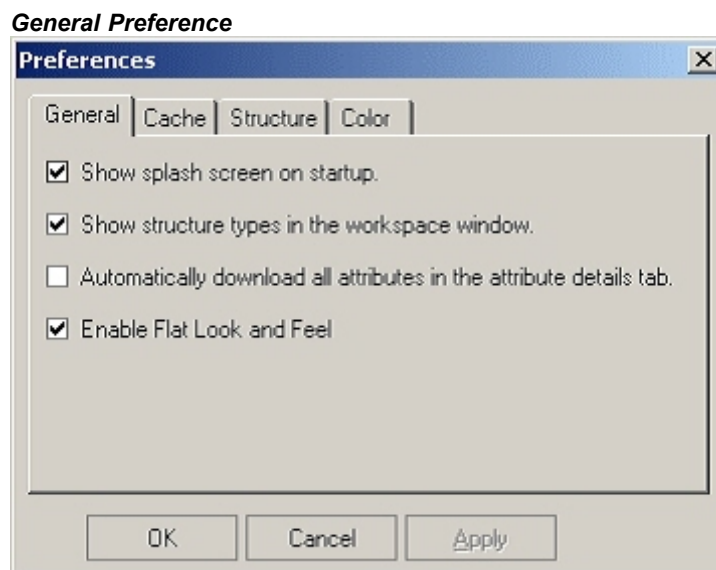
The Product Workbench enables you to set preference for various actions. You invoke the preference menu from the Edit top menu.



There are four section/tabs for the preference dialog.

General Preference

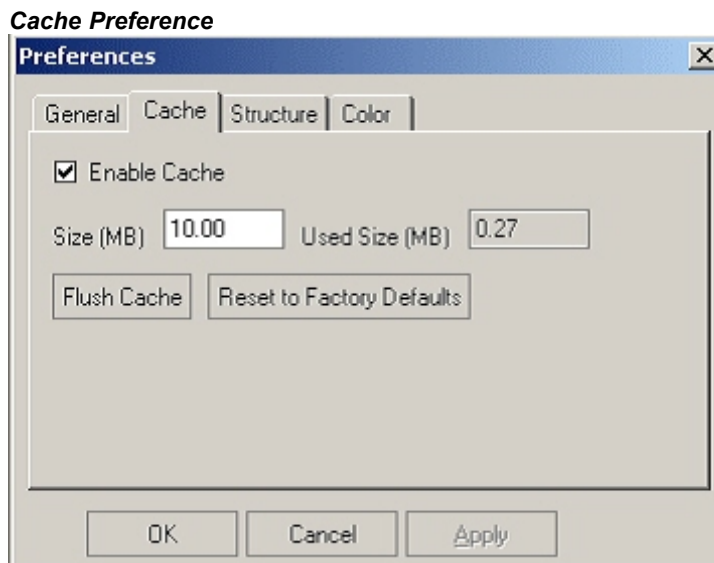
General Preference enables you to set the general behavior of the Product Workbench Windows client.



- You may or may not choose to view the splash screen on start up of the client.
- You may or may not choose to view the structure types for each favorite item in the workspace window. If you choose not to view the structure type, the items are shown as a flat list and not a tree node.
- You may or may not choose to download all the attribute values in the Attribute tab in the Details section for a structure/search results window. This impacts the first time performance however subsequent view of the attribute details for the item is faster.
- You can enable or disable the flat "look and feel." This is the default.

Cache Preference

Cache Preference enables you to set the Caching of the data for the performance reason. The data may not be real-time uptime up-to-date, but access to all item/component/structure/change information will be faster.

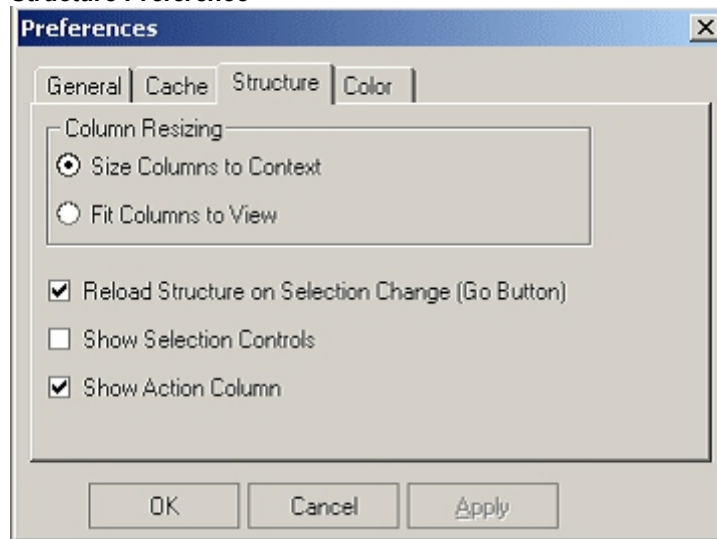


- You can set the Cache size limit. Cached data are stored in XML files in the user desktop. You can also view the current size of the cached data.
- You can periodically flush the cached data to download up-to-date information.

Structure Preference

Structure preference enables you to perform column re-sizing in the structure window and control the structure window behavior.

Structure Preference

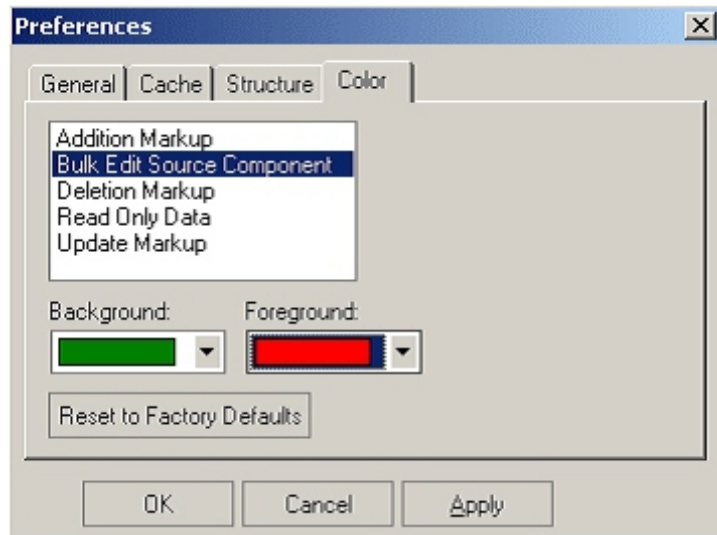


- You can set preference to size the columns according to its content value size Or Fit the all the columns in the display format to become visible within the window of current size.
- You can set to reload the structure on the event of changing the drop-downs of any field in the Structure header section like Display format/Selection Criteria/Filter/Changes/Revision/Effectivity etc. Or you can choose to change and explicitly reload the structure by pressing the **Go** button next the fields.
- You may choose to hide the Structure header section by default, in the structure window, to have more real-estate in the structure window.
- You may choose to hide the **Action** column (which explicitly shows whether the component is *Added/Updated/Deleted*)

Color Preference

Color preference enables you set different colors for different actions and behaviors. You can set both the background and foreground color for each action and behavior.

Color Preference



The actions are:

- Component addition markups could be shown in the color of your choice.
- Update of Components as markups could be shown in the color of your choice.
- Deletion of Components as markups could be shown in the color of your choice.
- Read-Only data, which you do not have access to modify, could be shown in the color of your choice.
- If you perform **Bulk Edit** and update the components with the same values, all of them could be shown in the color of your choice.

Managing Bills of Material Product Structures

The Product Workbench enables you to work with and manage Bills of Material product structures. With the Product Workbench, you can:

- Perform multilevel structure copy and compare
- Manage structures using effectivity control
- Exclude structures
- Create structures
- Edit structures
- Classify structures

Using Multilevel Structures

Performing a structure copy is a productive way for reusing existing structures to define new structures for an item. You can copy a multilevel structure to create a new structure or to copy specific subassemblies to any level of a multilevel structure within the same organization.

To copy from one to another structure, Either click the **Copy Structure** menu from the top menu called **Action**, or select a structure and click the right button of the mouse to Copy structure as a context action.

Select Structure to be Copied

To use multilevel structure copy:

1. Enter the Source Structure information from which the target structure will be copied in the left pane and enter the target structure information in the right pane, in which the components/structure will be copied.

Structure information includes:

- Organization
- Item Number
- Item Revision
- Structure Type
- Structure Name
- Whether it's an engineering structure or not
- Effectivity (based on the type of effectivity control whether Date or Serial number Or Model/Unit number, this field is appropriately rendered).

Important: You cannot copy structure across organizations. In future release this will be supported.

2. The target structure type and name is a filtered list for only the empty/new structure of the target Item.
3. In the target structure you can optionally provide structure description.
4. Select the check box in the bottom of the dialog if you want to view the resultant structure, after the copy.
5. Click on the Copy button to copy the structure. The structure will be copied and the new structure window will be opened based on the checkbox value.

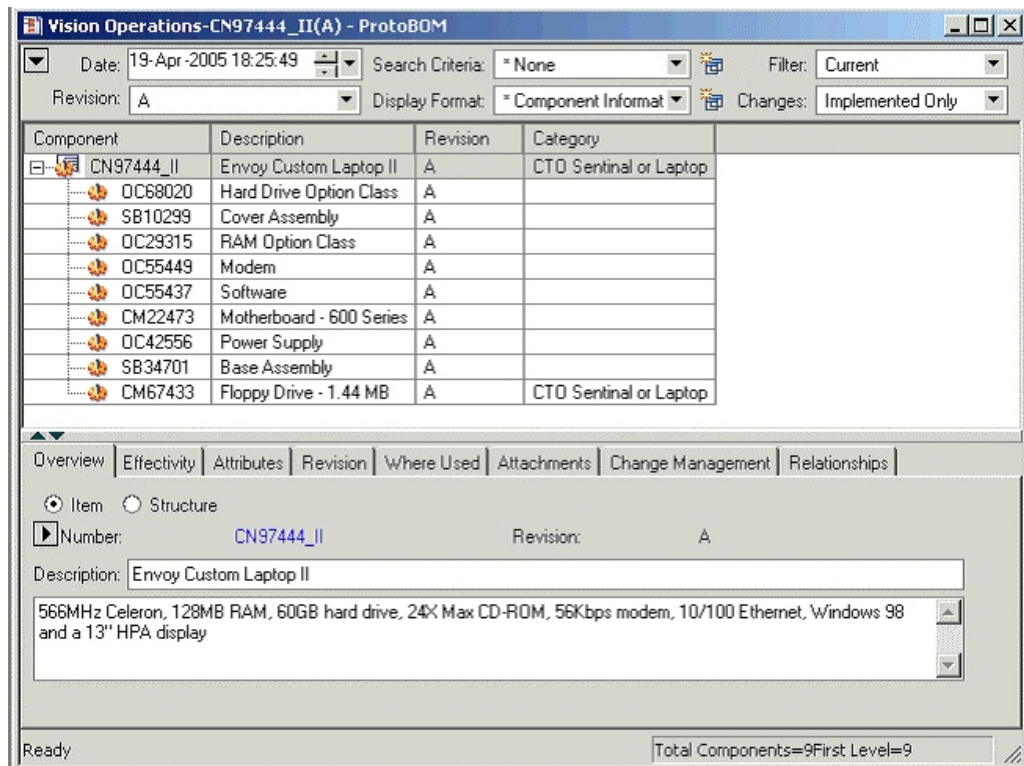
Note: Structure is copied immediately and it does not create a redlined BOM.

The structure is also copied in place and cannot be added to a Change Order. In future release this will be supported.

When the source structure is copied into the target structure, the source component revision must be valid for the target parent item revision.

If the target structure name is available in the sub-assemblies, all the sub-assemblies, their hierarchies and components will be available in the target structure as well.

The effectivity of the components are created according to the value as given by the user in the copy dialog.



To use multilevel structure compare:

Product Workbench's feature-rich graphical user interface allows you to perform a side-by-side comparison of structures. You can compare two structures of the same item, two structures of different revisions of the same item, or compare structures of two different items. source and target structures you have selected for comparison in the same interface.

To compare two structures, either click the **Compare Structure** menu from the top menu called **Action**, or select a structure and click the right button of the mouse to **Compare structure** as a context action.

Select Structures to be Compared

The dialog box 'Select structures to be compared' contains the following fields and options:

- First Structure:**
 - Organization: Vision Operations
 - Item: AS54888
 - Item Revision: A
 - Structure: Primary
 - Filter: Current
 - Effectivity Date: 19-Apr-2005 15:18:3
- Second Structure:**
 - Organization: Vision Operations
 - Item: CN97444
 - Item Revision: A
 - Structure: Primary
 - Filter: Current
 - Effectivity Date: 19-Apr-2005 15:18:4
- Compare Options:**
 - Search Criteria: * None
 - Display Format: * Component Informatio

Buttons: Compare, Cancel

To compare multilevel structures:

1. Enter the Source Structure information for which comparison needs to be done in the left pane and the target structure information with which the comparison will be done. Structure information includes:
 - Organization
 - Item Number
 - Item Revision
 - Structure Name
 - Filter (Current, Current and Future or All)
 - Effectivity (based on the type of effectivity control whether Date or Serial number Or Model/Unit number, this field is appropriately rendered)
2. Specify the display format (all the columns you want to see in the comparison results window) and search criteria (BOM filter) for both the structure.
3. Click Compare button in the dialog to view the results. Depending on the size of both structures, this may take some to time to display the results.

Component	Description	Revision	Category
V1: A554888	Envoy Custom Laptop	A	CTO Sentinel or La...
SB32982	Manual Set	A	
CM15138	Monitor - 17"	A	Monitor
CM18759	Keyboard - 101 Key	A	
CM28287	Optiball Wireless M...	A	
CM42047	Power Cord	A	
CM86324	Packing Material	A	
SB55105	SW - Standard Set	A	
SB90207	Chassis - Sentinel S...	A	
WR1115...	Desktop PC Warranty	A	

Component	Description	Revision	Category
V1: CN97444	Envoy Custom Laptop	A	CTO Sentinel or La...
SB32982	Manual Set	A	
CM28287	Optiball Wireless M...	A	
CM86324	Packing Material	A	
DC42556	Power Supply	A	
SB10299	Cover Assembly	A	
SB34701	Base Assembly	A	
CM67433	Floppy Drive - 1.44 ...	A	CTO Sentinel or La...
DC88020	Hard Drive Option C...	A	
DC55449	Modem	A	
CM22473	Motherboard - 600 ...	A	
DC29315	RAM Option Class	A	
CM74237	Sound Card	A	
CM96717	Screws Steel 32.Phi...	A	Screw
CM32546	Battery - NiHM	A	
CM76362	Video Card	A	
CM68377	10" Plasma Monitor	A	Monitor
CM69930	Keyboard - Internal	A	
CM89108	Power / Rechargin...	A	
DC55437	Software	A	

Added = 39, Deleted = 6, Changed = 0

The overall difference summary is shown in the status line indicating how many components have been added/deleted/changed between the two structures.

The differences between the two structures are visually indicated according to the difference For Example, components that exist in one structure only are indicated in blue.

- When comparing structures you can easily browse through the next and previous differences between the two structures using the Previous and Next icon/button on the top of the window.

Expanding a node in the source structure will automatically expand the corresponding node in the target structure to maintain a one to one correspondence between the levels of the two structures being compared.

- You can also change the comparison criteria for the source and target structures you have selected earlier in the results window as well using the collapsible hide/show section in the top part of the results window.

Managing Structures Using Effectivity Control

You can manage product structures using the following effectivities

Date Effectivity allows you to create structures in which components are effective based on dates. You can create and view date effective structures in Oracle Product Workbench.

Revision Effectivity allows you to create structure in which components are effective based on revisions of the parent item. During the concept & design/development phases of a product, revision effectivity is generally used for configuration management of engineering product structures and manufacturing BOM's. Revision effectivity, controls the effectivity of the components relative to its parent item's revision. You can create and view revision effective structure in Oracle Product Workbench.

Unit Effectivity allows you to create structures in which components are effective based on Model/Unit Numbers. You can only view unit effective structures in Oracle Product Workbench.

Serial Effectivity allow you to create structures in which components are effective based on serial numbers. You can only view serial effective structures in Oracle Product Workbench.

Excluding Structures

To exclude structures:

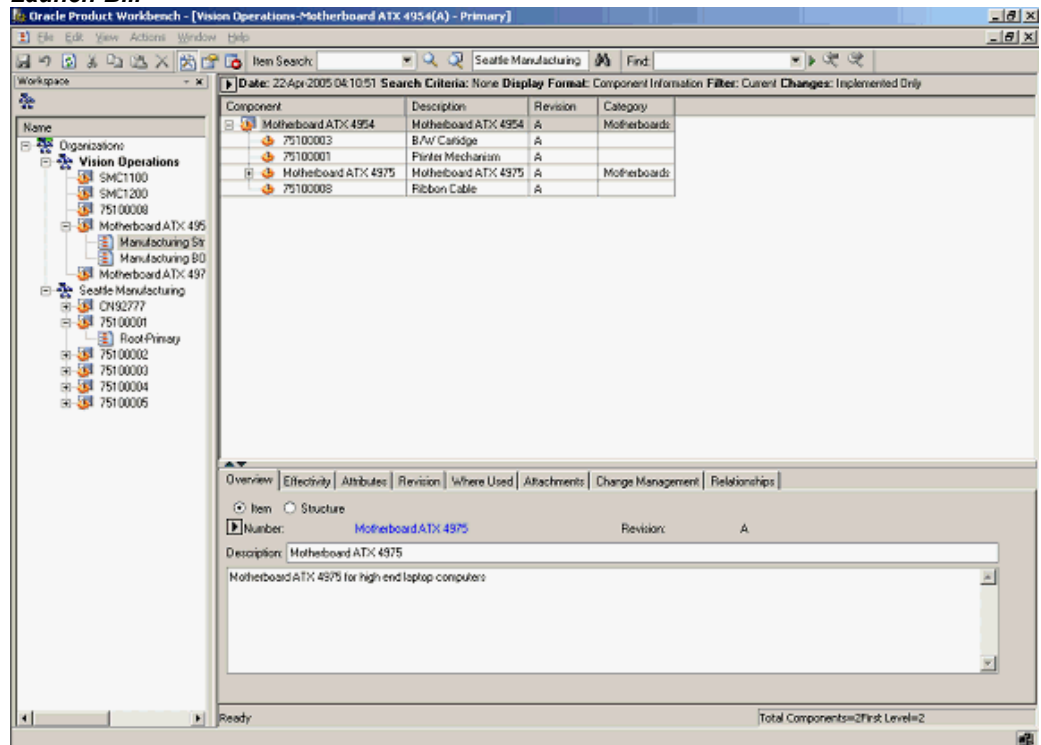
A structure contains information on the parent item, components, and optionally, attachments and descriptive elements. You can create an engineering or manufacturing structure by manually defining all of the components for the structure, or copying from an existing structure, or referencing another structure.

Sometimes minor changes need to be made to existing structures to meet business needs. In Product workbench, you can use an existing bill and define minor variations in the bill through the exclusion feature.

To exclude a component from a bill:

1. Select an item from the Favorites list, and launch its bill.

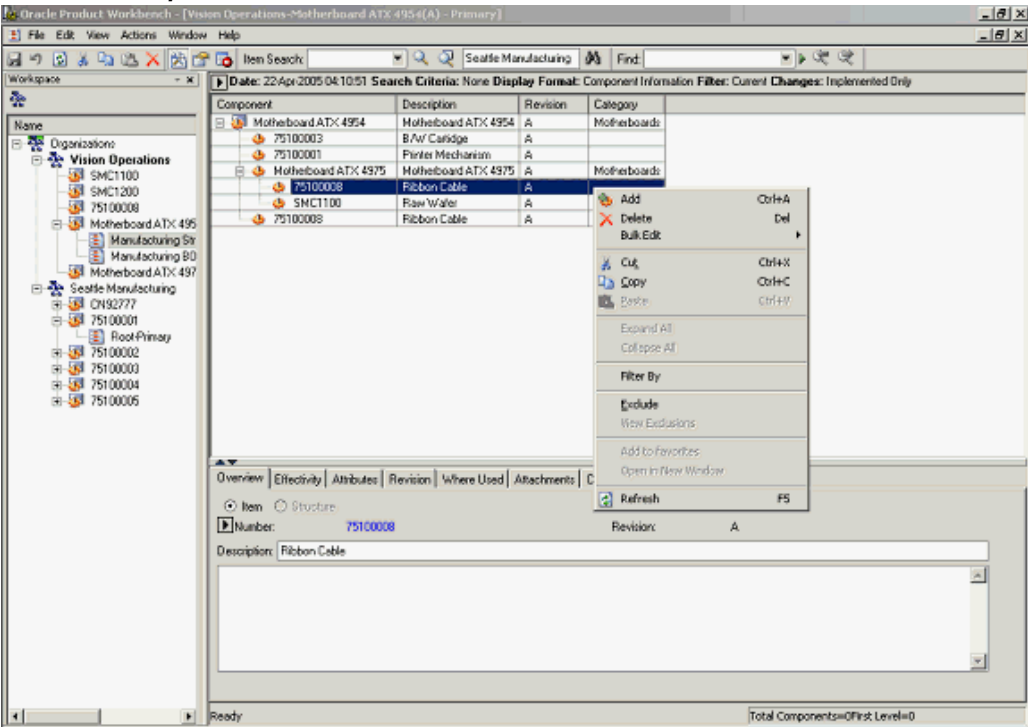
Launch Bill



2. Highlight the component to be excluded from the bill, and launch the Exclude action from the right click menu.

The structure is displayed in markup mode, with the excluded component highlighted.

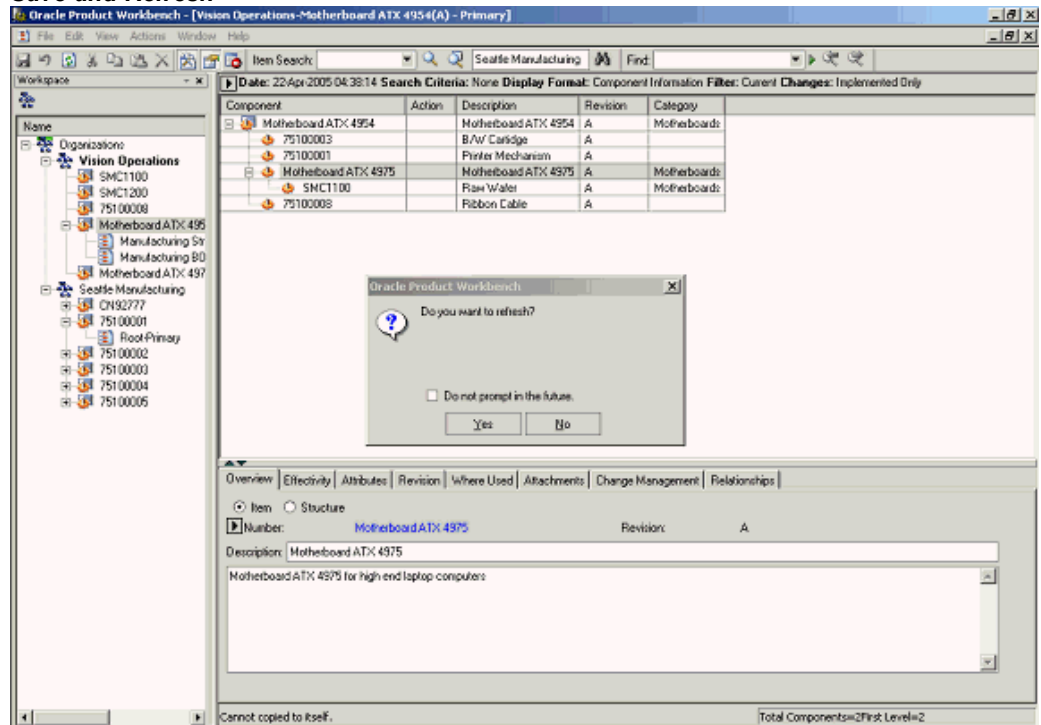
Excluded Components



Note: You cannot exclude components in a bill that is common to another (source) bill.

- 3. Save your work.
You will be prompted to refresh in order to re-explode the bill to reflect all the changes to the bill. Click Yes

Save and Refresh



The Bill is displayed without the excluded component.

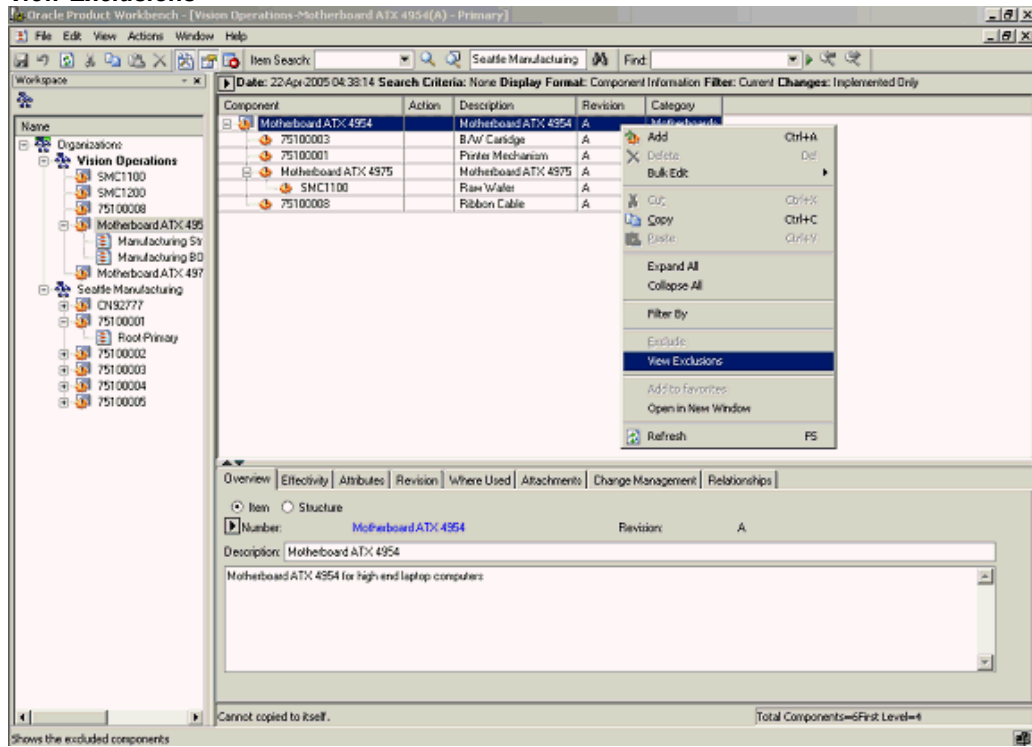
Note: The scope of the exclusion is restricted to the structure of the top item in the structure window.

Thus in the above example, item#75100008 is excluded from the primary structure of the top item in the window (item#Motherboard ATX 4954). But, if you separately launch the structure for item(sub-assembly)#Motherboard ATX 4975, item#75100008 would continue to be shown in the structure of the sub-assembly. In other words, the scope of the exclusion is restricted to the primary structure of the top item in the structure window and is not applicable to intermediate sub-assemblies.

To view, hide, or remove structure exclusions:

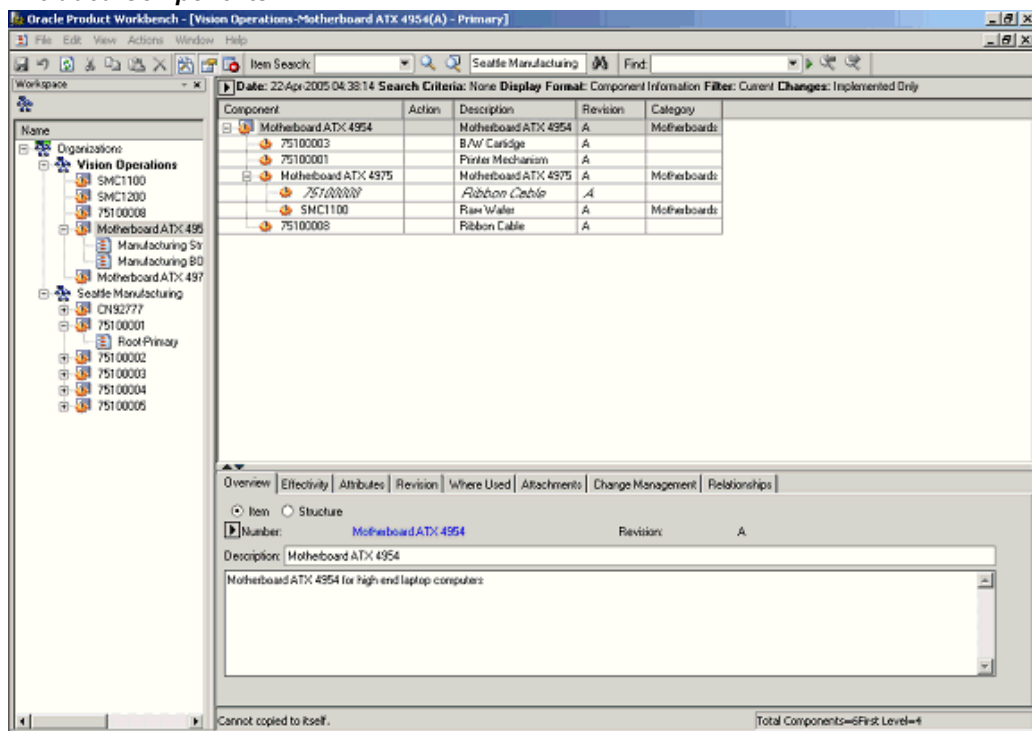
1. Launch the structure of the item whose exclusions you want to view.
2. Select the top item in the structure and launch the View Exclusions action from the right click menu.

View Exclusions



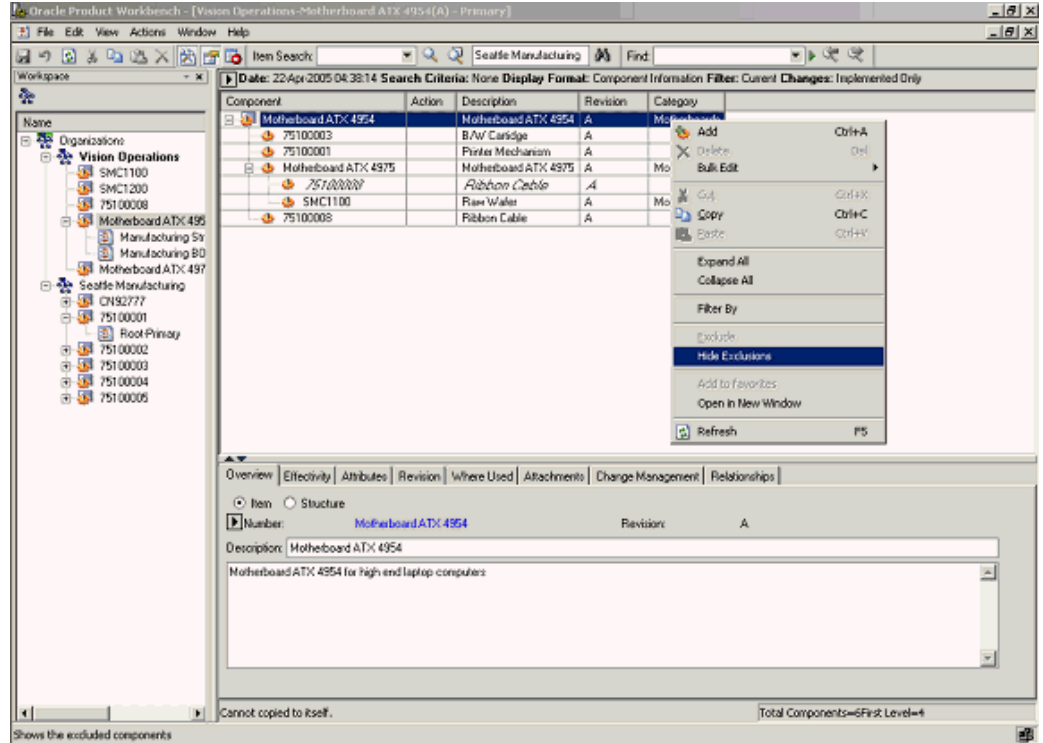
- The structure is displayed with all the excluded components suitably highlighted.

Excluded Components

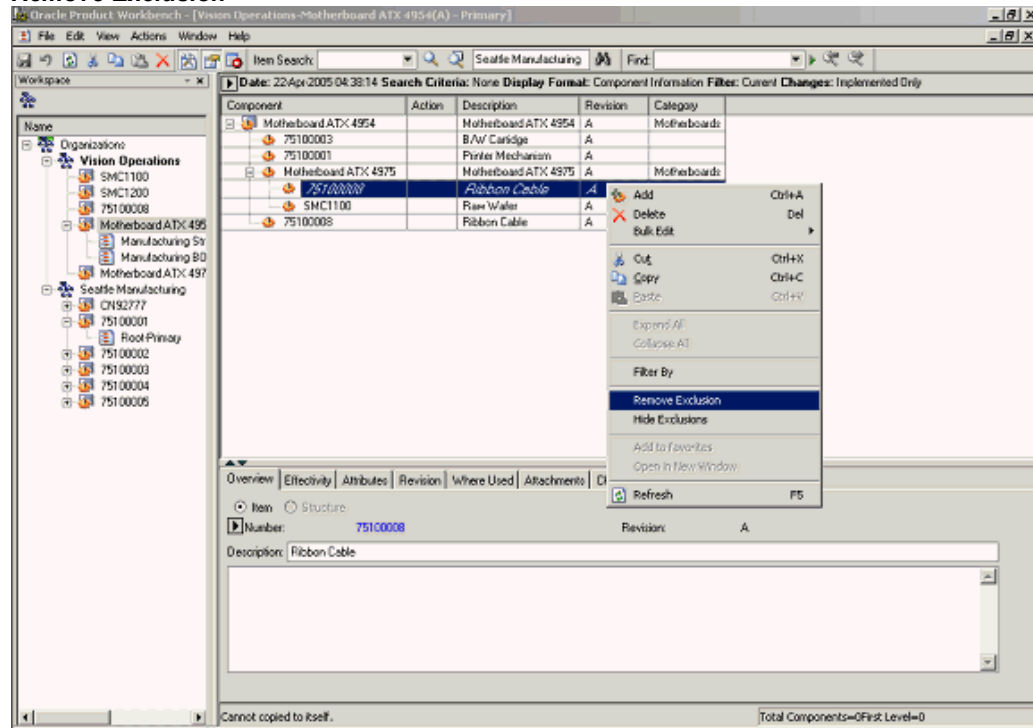


4. You can hide the exclusions by highlighting the top item, and then launching the Hide Exclusions action from the right click menu.
5. You can remove exclusions that have been previously defined for a structure. Highlight the top item and view exclusions defined for the structure of the item (as described previously). Select any exclusion and launch the Remove Exclusion action from the right click menu.

Hide Exclusions



Remove Exclusion



- The structure of the top item is displayed in mark up mode with the previously excluded component appearing again in the structure of the top item. Save your work. You will be prompted to refresh the window. Click Yes.

The component which was excluded from the structure of the top item previously is now included in the structure.

What's Next

Exclusion Rules for Components

Using exclusion rules components can be excluded/included at any level in the product structure with effectivity relative to an end item. This allows you to define different configurations for the same end item using different components rather than defining/maintaining multiple product structure definitions for variants of the end item. You can choose to hide or view excluded components when viewing a product structure. You can remove the exclusion rule on a previously excluded component. Exclusion rules are specific to an end item, which allows you to reuse the same subassemblies with different configurations in different products.

Creating Structures

A structure contains information on the parent item, components, attachments, and descriptive elements. Each standard component on a structure can have multiple reference designators and substitute components.

User can create either an engineering or manufacturing structure, copy an existing structure, or reference a common structure. When a user creates a structure, it exists only in the current organization. To use a structure in another organization, user must either

copy it or reference it as a common. User can create structures for only those items on which the user has edit privileges.

All types of bills (standard, model, option class and planning) except the product family bills can be created in product Workbench. Both revision and date effective structures can be created. Creation of unit effective and serial effective structures is not supported in the current release of Product Workbench.




To create a structure:

1. Select an item from favorite items list or from item search results and invoke the create structure dialog through the right click 'create structure' action.

Create Structure

Item
Name: Motherboard ATX 4954
Description: Motherboard ATX 4954

Structure
☒ Engineering
Type: Design Structure
Name: eng
Effectivity: Date
Description: As designed structure for Motherboard 4954

Common Structure
Scope
☒ None ☐ Single Organization ☐ Hierarchy ☐ All Organizations
Organization:  Item: 
Hierarchy: 

☐ Preferred Structure
☒ Open Structure After Creation

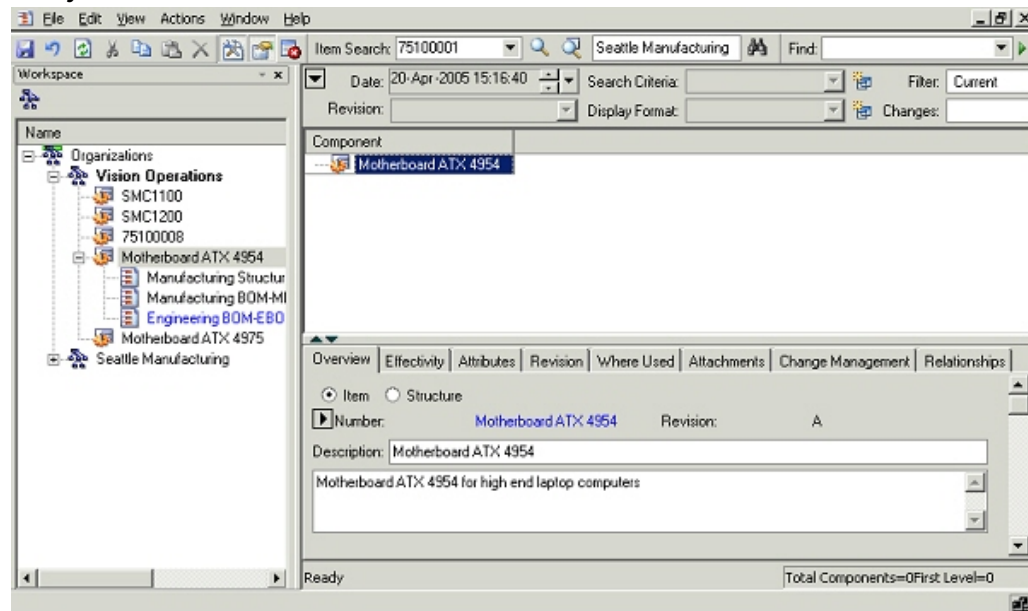
OK Cancel

2. If the selected item is an engineering item, the Engineering check box will be selected and cannot be edited. In case of a manufacturing item, user can choose to create a manufacturing or engineering structure.
3. Select a structure type and a structure name. Only those combinations are available for which a structure doesn't already exist for the selected item.
4. Specify the effectivity control for the structure being created. Choose from date or revision effectivity.

Note: Revision effective structures are always of type Engineering.

5. Provide a description for the structure.
6. Choose whether the structure being created is a preferred one for the selected structure type.
7. Check the Open structure after creation if you want to continue editing the structure.
8. Click the OK button. This will open up the new window where the user can specify other information related to the structure. The structure is not yet saved.

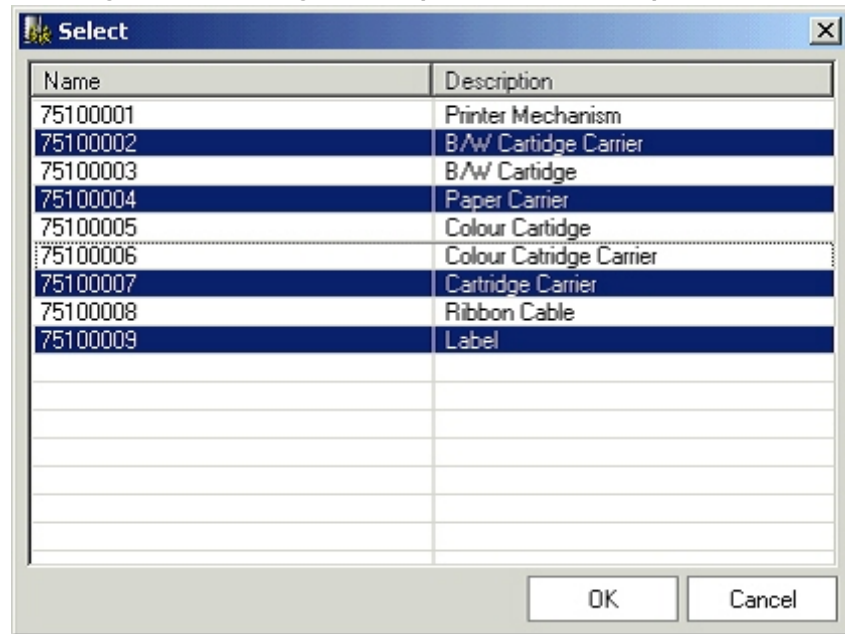
Newly Created Structure



On the add component dialog, add one or more components to the node selected in the structure window through the following actions:

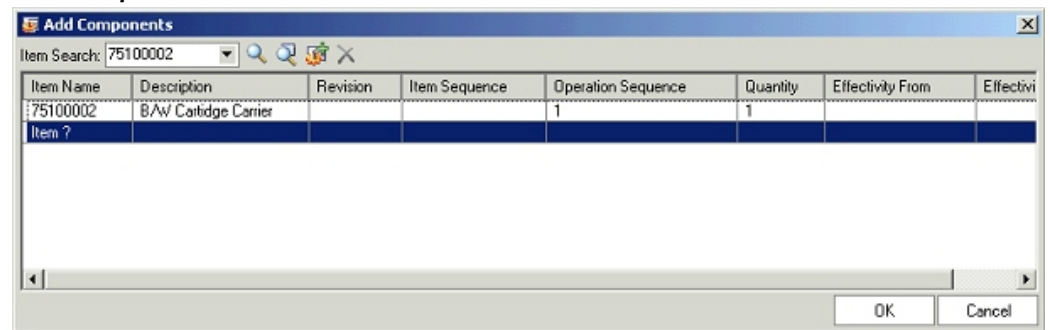
- Perform item simple search by providing the complete or partial item number/description and clicking on the simple search button. In case of a single match, the item gets automatically selected in the add component dialog. In case of multiple matches, a new window showing all the search results is shown and the user can select one or more items from this dialog:
 - To select a set of adjacent rows, select the first row and hold down the shift key and select the last row to be included.
 - To select non-adjacent rows, select a row or a range of rows and then hold down the ctrl key and keep selecting the rows to be included

Selecting Items for adding as a component from the simple search results



9. Select the top node in the structure window and invoke the add component dialog through a right click action. The same dialog can also be invoked by dragging and dropping an item from favorite list, item search results or from another structure window.

Add Component



On the add component dialog, add one or more components to the node selected in the structure window through the following actions:

- Perform item simple search by providing the complete or partial item number/description and clicking on the simple search button. In case of a single match, the item gets automatically selected in the add component dialog. In case of multiple matches, a new window showing all the search results is shown and the user can select one or more items from this dialog:
 1. To select a set of adjacent rows, select the first row and hold down the shift key and select the last row to be included.
 2. To select non-adjacent rows, select a row or a range of rows and then hold down the Ctrl key and keep selecting the rows to be included

- Perform advanced parametric search and add one or more items from the search results.
- Create new items and add them as component.
- Provide the complete or partial item number in a new row in the add component dialog. Behavior is similar to the simple search described above.

Note: Only valid components can be selected in the add component dialog. Refer the bill of Material user guide for these dependencies.

10. Review the components selected in the add component dialog and make necessary changes. The changes that can be done are as follows:
 - Use a fixed component revision instead of floating (default behavior).
 - Specify an item sequence and/or an operation sequence
 - Modify the default quantity of 1
 - Modify the effectivity range i.e. start and end date in case of a date effective structure and a start and end revision of the parent for revision effective structure.
 - Remove one or more items selected in the add component dialog.
11. Click the OK button to add the selected components to the node selected in the structure window.
12. Repeat steps 9-11 for adding components to lower level subassemblies to create a multi-level structure.
13. Optionally specify reference designators, substitute components and optional routing operations for applicable components in the structure.
14. Review and modify the structure information i.e structure/component attributes, attachments, effectivity etc as per requirements and save the structure in place or on a change order.

To create common structures:

If two or more organizations manufacture the same item using the same bill of material, user can define the bill in one organization and reference it from the other organizations. Necessary changes must then be made to the referenced bill. This greatly reduces the effort involved in maintenance of the structure information by centralizing the controls.

The following notes apply while creating common structures:

- User cannot reference another structure as a common if that structure also references a common. In other words, user cannot create a chain of common references.
- User can only reference another structure as a common if it has the same structure name assigned to it.
- If the current structure that a user is creating is a manufacturing bill, the common bill must also be a manufacturing bill.
- User can only reference bills from organizations that have the same item master organization as the current organization.

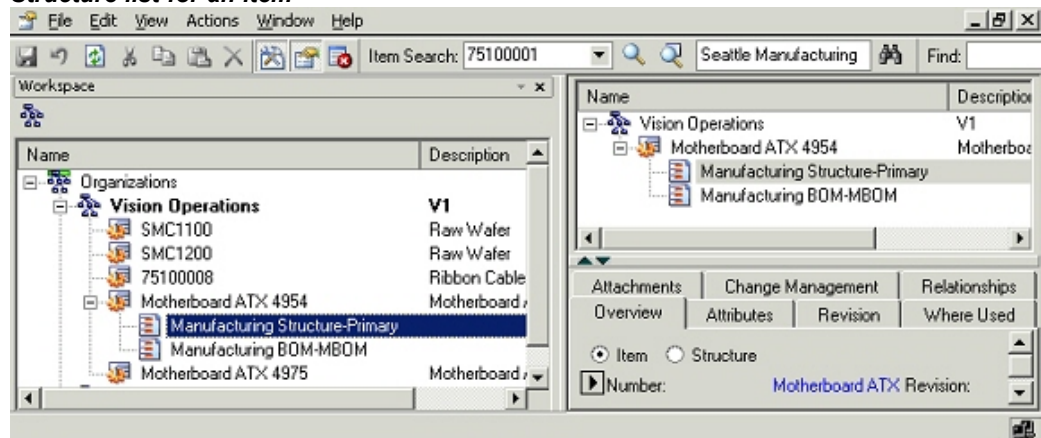
- If components already exist for the new bill, user cannot reference another bill as a common.
 - If the new assembly is in a different organization than the bill you reference, all component items must exist in the new bill's organization. This also applies to substitute components.
1. Open the create structure dialog.
 2. Provide the information related to the structure being created. (Refer previous section for more information)
 3. In the common structure section on the create structure dialog, choose the scope as organization.
 4. Enter the organization for the item to reference as a common bill.
 5. Enter the structure to use as a common.
 6. Choose OK.

Viewing Structure Information

Advanced product workbench allows viewing of both serial effective as well as unit effective structures besides the date and revision effective structure. However, creation and editing of both serial effective as well as unit effective structures is not supported in the current release of Product Workbench.

The structures that exist for an item are listed as children nodes under the item node in the favorites list and/or the item search results windows.

Structure list for an item

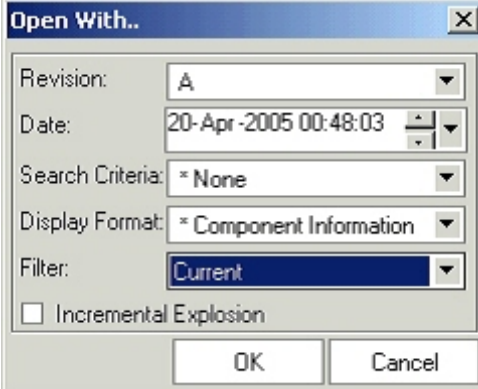


To open structures, you can do one of the following:

- **Double click the structure node:** Default values for explosion criterion are used to explode the structure. For unit and serial effective structures, user is required to provide unit number/serial number during this action.
- **Select structure node and right click Open action.** Default values for explosion criterion are used to explode the structure. For unit and serial effective structures, user is required to provide unit number/serial number during this action.

- **Select structure node and right click Open with action.** A dialog is opened up with default values for the explosion criterion. User can change these values for exploding the structure against a different criterion.

Open With

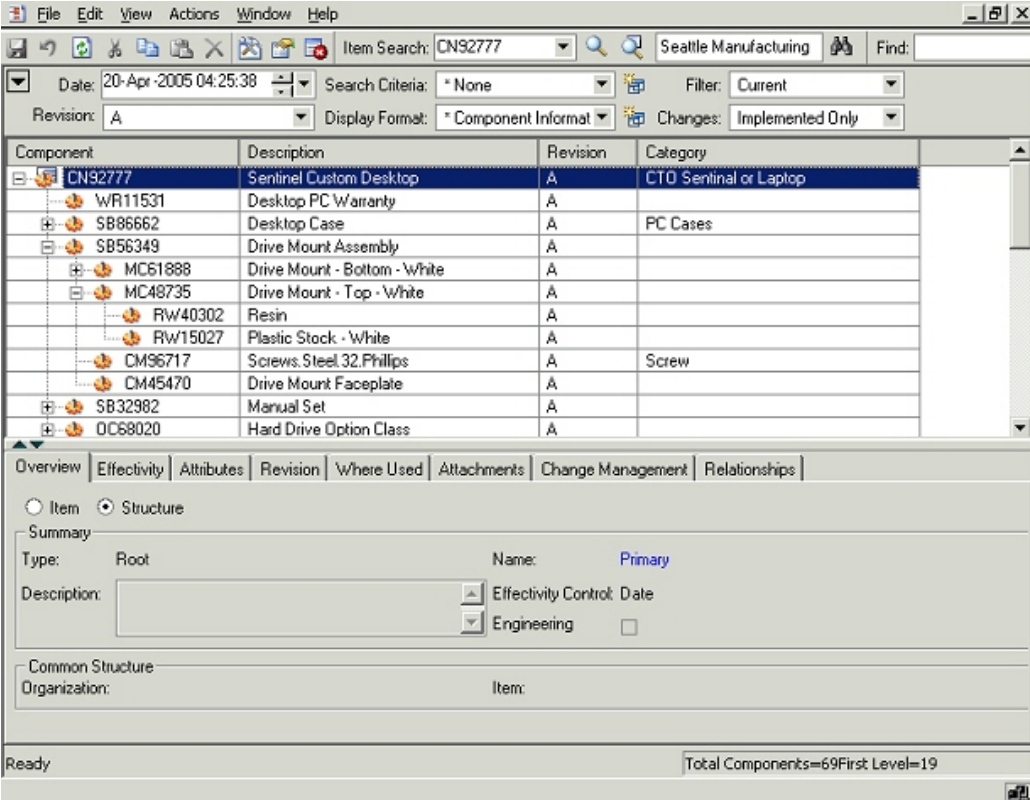


The 'Open With' dialog box contains the following fields and controls:

- Revision:** A dropdown menu with 'A' selected.
- Date:** A date/time field showing '20-Apr-2005 00:48:03'.
- Search Criteria:** A dropdown menu with '* None' selected.
- Display Format:** A dropdown menu with '* Component Information' selected.
- Filter:** A dropdown menu with 'Current' selected.
- Incremental Explosion:** An unchecked checkbox.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

The structure is exploded according to the explosion criteria, and is displayed in a new window. This window provides a multi-level view of the exploded structure

Exploded Structure



The 'Exploded Structure' window displays a hierarchical view of the exploded structure. The main table lists components with their descriptions, revisions, and categories.

Component	Description	Revision	Category
CN92777	Sentinel Custom Desktop	A	CTO Sentinel or Laptop
WR11531	Desktop PC Warranty	A	
SB86662	Desktop Case	A	PC Cases
SB56349	Drive Mount Assembly	A	
MC61888	Drive Mount - Bottom - White	A	
MC48735	Drive Mount - Top - White	A	
RW40302	Resin	A	
RW15027	Plastic Stock - White	A	
CM96717	Screws Steel 32 Phillips	A	Screw
CM45470	Drive Mount Faceplate	A	
SB32982	Manual Set	A	
DC68020	Hard Drive Option Class	A	

Below the table, there are tabs for 'Overview', 'Effectivity', 'Attributes', 'Revision', 'Where Used', 'Attachments', 'Change Management', and 'Relationships'. The 'Overview' tab is selected, showing a 'Summary' section with fields for 'Type' (Root), 'Name' (Primary), 'Description', 'Effectivity Control' (Date), and 'Engineering' (unchecked). There is also a 'Common Structure' section with 'Organization' and 'Item' fields.

The status bar at the bottom indicates 'Ready' and 'Total Components=69 First Level=19'.

Change the selection in any of the following context switchers to change the information seen in the structure window as follows:

- **Date:**

Specify the date on which the structure needs to be exploded. Based on the selected date, the selection in revision poplist also changes to the revision effective on the selected date.

- **Revision:**

This poplist lists all the revisions for the end item that have and have not been implemented. Based on the selection in this poplist, revision specific information changes appropriately. If the selected revision was an unimplemented revision, the value selected in the change order poplist will reflect the change order against the unimplemented item revision.

- **Unit Number From:**

This context switcher appears only in context of a unit effective structure and lists different unit numbers. User can choose a value to show only those components that are effective from the selected unit number.

- **Changes:** This poplist contains the following values:

1. **Current:** This value is selected by default when a structure is exploded. On selecting this value, all the implemented components/information as on the explosion date are shown
2. **Specific change order number:** On selecting a pending change order, the structure is shown in the redline mode. The changes are shown highlighted as per the display scheme. e.g. a newly added component is shown in blue color. Based on the effectivity date of the selected change order, the selection in the item revision poplist changes appropriately.
3. **Current and Pending:** Selecting this value shows all the implemented information as well as pending changes. The pending changes could have been specified through multiple change orders. The pending changes are shown in redline mode.

- **Search Criteria:** This poplist lists the criteria templates created by administrator as well as the user for the structure type. On selecting a criteria template, only those components that satisfy the criteria are listed in the structure. Intermediate nodes are listed even though they do not satisfy the criteria. This functionality is especially useful to filter only relevant components in a bill having a large number of components.

- **Display Formats:** This poplist lists the display formats created by administrator as well as the user for the structure type. On selecting a value, the columns selected in the format are displayed for the structure. This reduces the clutter in the UI by displaying only that information that the user wants to view.

Structure information is organized on different tabs in the 'Details' window:

Overview tab

Users need to select a subassembly node in the structure window to enable the structure radio button and then select the radio button. For the leaf nodes in a structure, the radio option is greyed out since they do not have a structure underneath them.

Basic structure header information like structure type, structure name, effectivity control, description and assembly type (engineering/manufacturing) is displayed. In

case of a structure referencing another one, the organization and item fields in the common structure section are populated.

Users with edit privileges on the selected item can modify the structure description on this TAB. Users can also navigate to html structure details pages by clicking the hyperlink against the structure name.

Overview tab

Component	Description	* Component Information
[-] CN92777	Sentinel Custom Desktop	A CTO Sentinel or Laptop
[-] CM42047	Power Cord	A
[-] CM86324	Packing Material	A
[-] SB56349	Drive Mount Assembly	A
[-] MC48735	Drive Mount - Top - White	A
[-] MC61888	Drive Mount - Bottom - White	A
[-] CM96717	Screws.Steel.32.Phillips	A Screw
[-] CM45470	Drive Mount Faceplate	A

Overview | Effectivity | Attributes | Revision | Where Used | Attachments | Change Management | Relationships

☐ Item ☒ Structure

Summary

Type: Root Name: Primary

Description: [Text Box] Effectivity Control: Date

Engineering ☐

Common Structure

Organization: [Text Box] Item: [Text Box]

Ready Total Components=8First Level=4

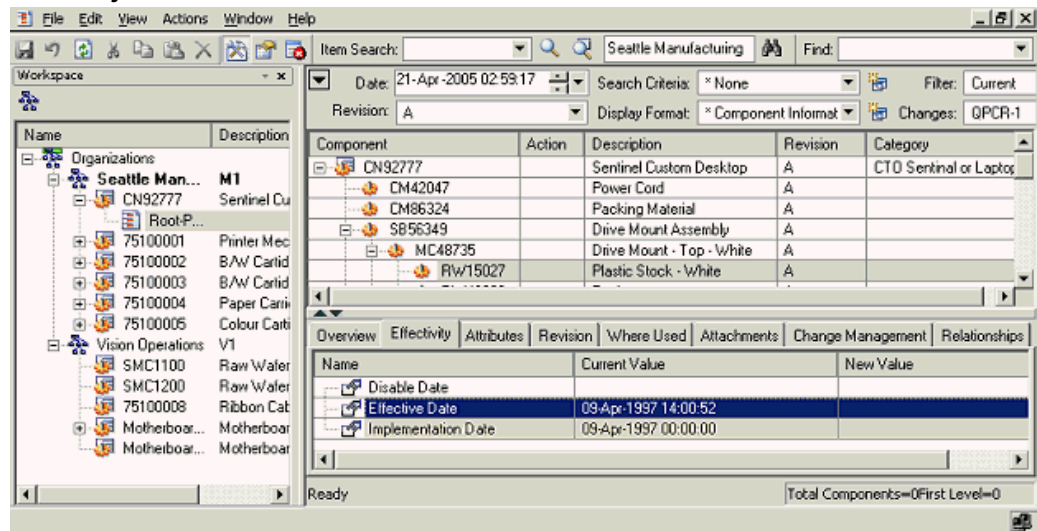
Effectivity tab

Effectivity information represents the rules that govern whether a component is active in the structure hierarchy.

The effectivity from and to information for the component (subassembly as well as leaf nodes) selected in structure window is shown on this TAB. The data type for effectivity information is dependent on the effectivity control for the structure as follows:

- Date Effective Structure - Date.
- Revision Effective Structure - Item revisions of component's immediate parent.
- Serial Effective Structure - Serial numbers of the end item
- Unit Effective Structure - Unit numbers of the end item.

Effectivity tab



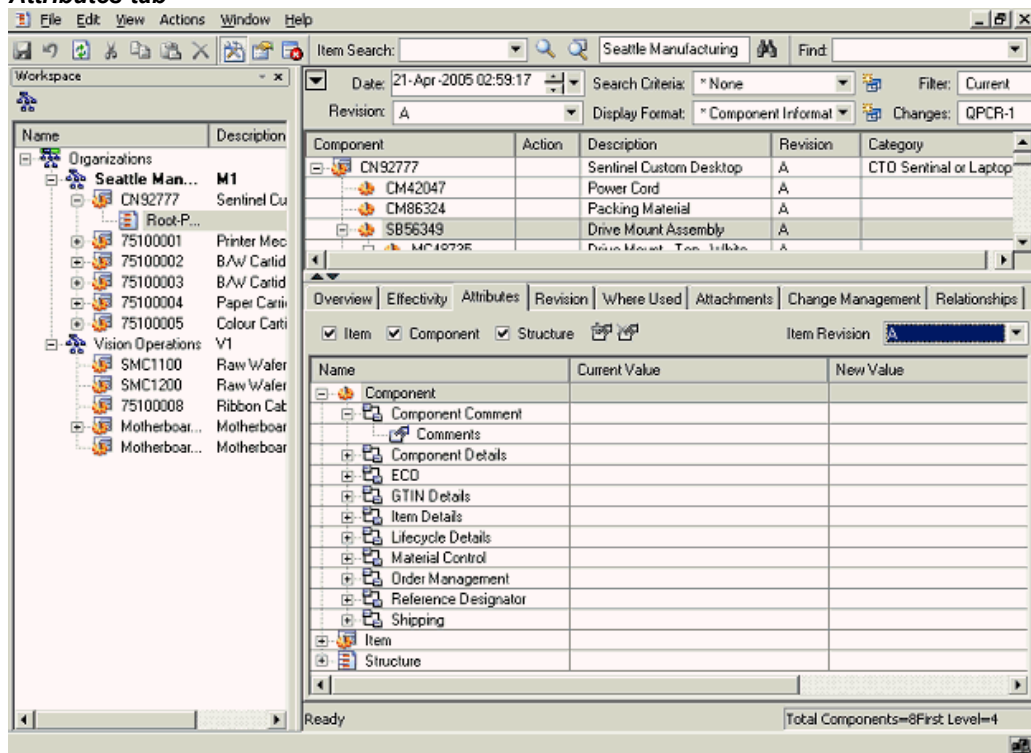
Attributes tab

This TAB shows the structure and component attributes (both seeded and user-defined) in a hierarchical view under the “structure” and “component” nodes respectively.

To view structure attributes, select a subassembly node in the structure and check the structure checkbox on the attribute tab. A new node “structure” will appear on the UI and user can expand the node to view different structure pages/attributes.

To view component attributes, select a component (subassembly or leaf level nodes) in the structure and check the component checkbox on the attribute tab. A new node “component” will appear on the UI and user can expand the node to view different component pages/attributes.

Attributes tab

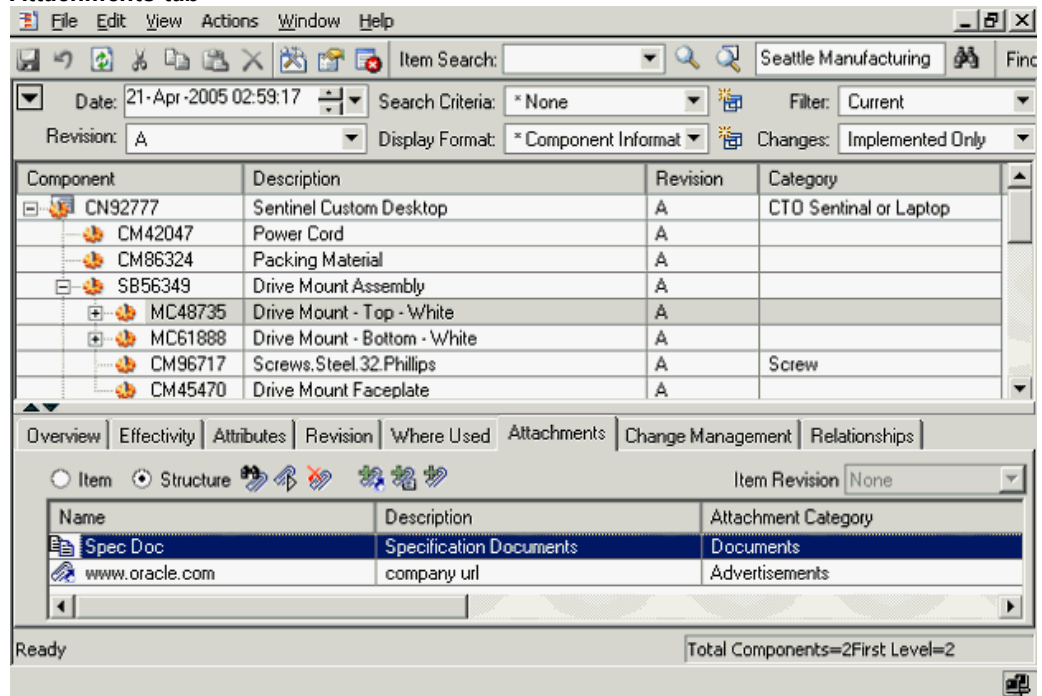


Attachments tab

User can view and edit attachments to structure on this TAB.

Select a subassembly node in the structure window and select the structure radio button to view the structure attachments corresponding to the selected node.

Attachments tab



Editing Structure Information

Bulk Edit

A structure contains information on the parent item, components, attachments, and descriptive elements.

Sometimes, similar changes need to be made to component attributes and item attributes for a large number of components in the structure. In the Product workbench, you can use the bulk edit feature to simultaneously effect similar changes to a large number of components in a structure.

Using Bulk Edit:

1. Select an item from the Favorites list, and launch its bill.

Bulk Edit: Launch Bill

Oracle Product Workbench - [Vision Operations-Motherboard ATX 4954(A) - Primary]

File Edit View Actions Window Help

Item Search: Vision Operations Find: Filter: Current

Date: 22-Apr-2005 05:36:30 Search Criteria: None Display Format: Component Details Changes: Implemented Only

Component	Description	Revision	Item Sequence	Quantity	Operation Sequence	UDM
Motherboard ATX 4954	Motherboard ATX 4954	A	1	1	1	Ea
75100001	Printer Mechanism	A	20	1	1	Ea
75100003	B/W Cartridge	A	10	1	1	Ea
Motherboard ATX 4975	Motherboard ATX 4975	A	40	1	1	Ea
75100008	Ribbon Cable	A	10	1	1	Ea
SMC1100	Raw Water	A	20	1	1	Ea
75100008	Ribbon Cable	A	30	1	1	Ea

Overview Effectivity Attributes Revision Where Used Attachments Change Management Relationships

Items Structure

Number: Motherboard ATX 4954 Revision: A

Description: Motherboard ATX 4954

Motherboard ATX 4954 for high end laptop computers

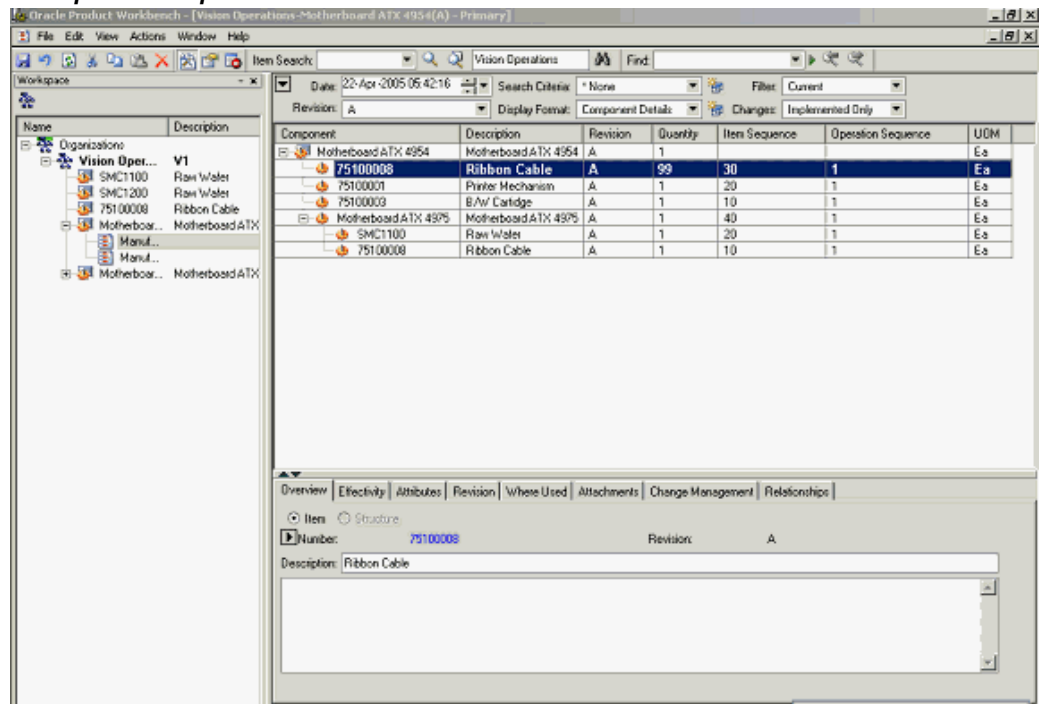
Ready Total Components=2First Level=4

2. Modify any component or item attribute.

The structure is displayed in the mark up mode with the change highlighted.

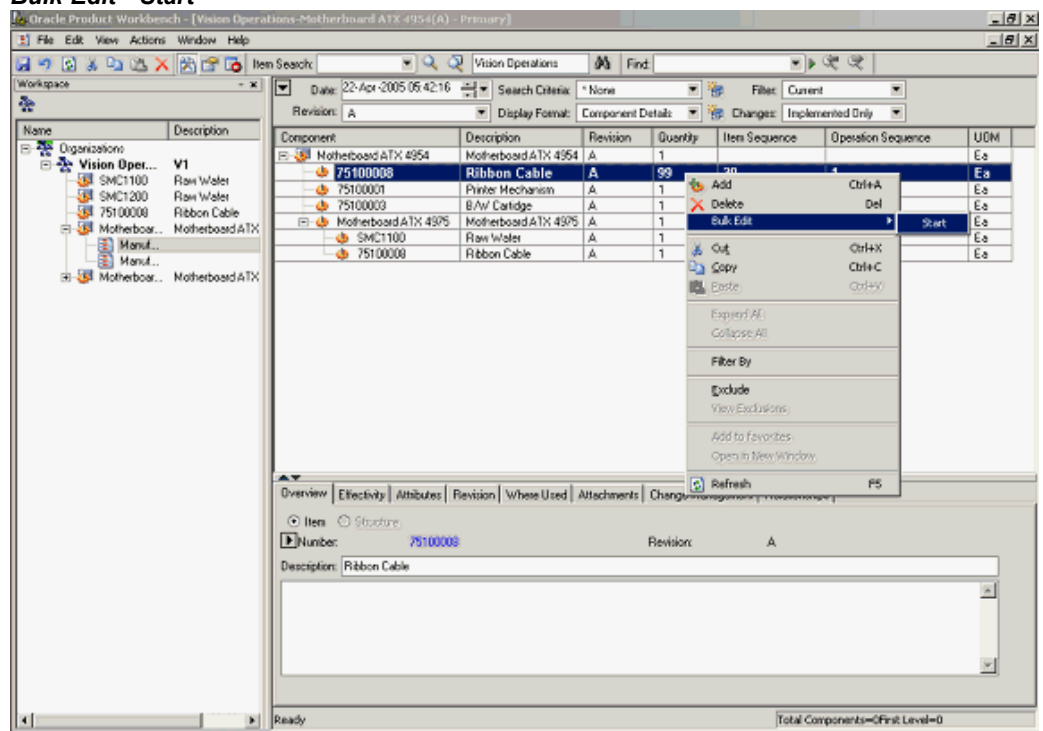
In the example below, the quantity of component#75100008 (at level 1 in the structure) is changed from 1 to 99

Example of Component Modification



3. Select the component whose attribute value you have just changed, and launch the Bulk Edit Start action from the right click menu.

Bulk Edit - Start



- The structure is now displayed in the bulk edit mode.

Structure Display in Bulk Edit Mode

The screenshot displays the Oracle Product Workbench interface in Bulk Edit Mode. The main window shows a table of components with columns: Component, Description, Revision, Quantity, Item Sequence, Operation Sequence, and UOM. The component '75100008' is highlighted in green, and its description 'Ribbon Cable' is also highlighted. The table lists several components, including 'Motherboard ATX 4954', 'Printer Mechanism', 'B/W Cartridge', 'Motherboard ATX 4975', 'Raw Water', and 'Ribbon Cable'.

Component	Description	Revision	Quantity	Item Sequence	Operation Sequence	UOM
Motherboard ATX 4954	Motherboard ATX 4954	A	1			Ea
75100008	Ribbon Cable	A	30	1		Ea
75100001	Printer Mechanism	A	1	20	1	Ea
75100003	B/W Cartridge	A	1	10	1	Ea
Motherboard ATX 4975	Motherboard ATX 4975	A	1	40	1	Ea
SMC1100	Raw Water	A	1	20	1	Ea
75100008	Ribbon Cable	A	1	10	1	Ea

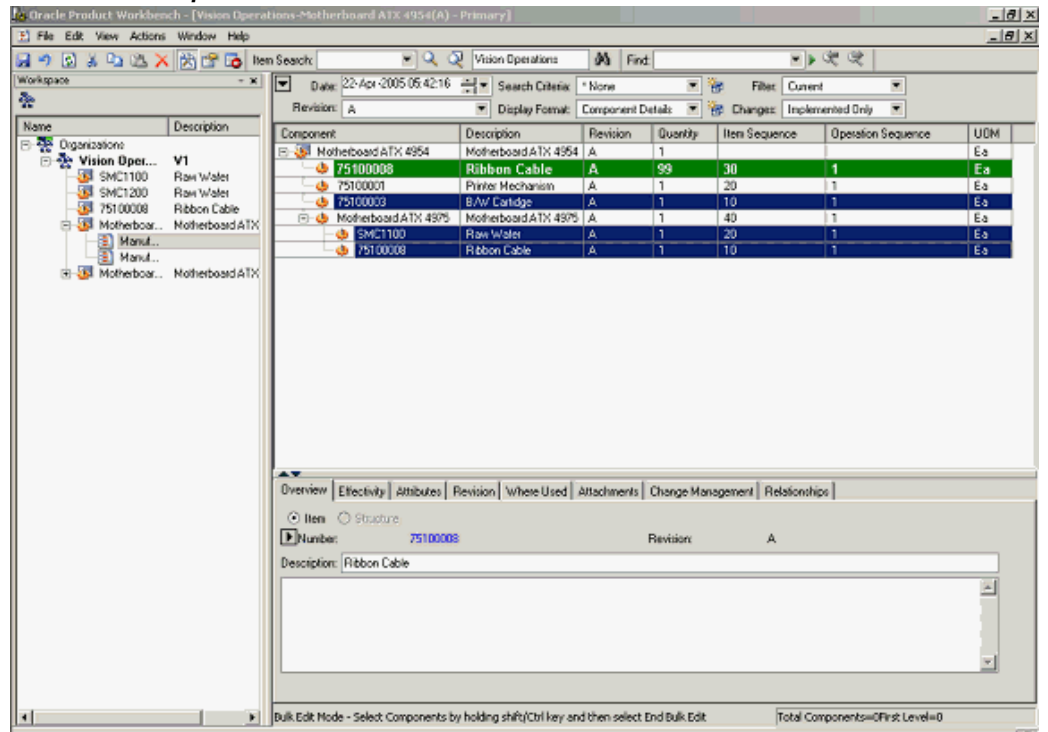
Below the table, there is a section for 'Overview' with tabs for 'Effectivity', 'Attributes', 'Revision', 'Where Used', 'Attachments', 'Change Management', and 'Relationships'. The 'Attributes' tab is selected, showing the 'Item' and 'Structure' views. The 'Item' view is active, displaying the 'Number' as '75100008' and the 'Revision' as 'A'. The 'Description' field is set to 'Ribbon Cable'.

At the bottom of the window, a status bar indicates 'Bulk Edit Mode - Select Components by holding shift/Ctrl key and then select End Bulk Edit' and 'Total Components=0 First Level=0'.

- Select all other components for which this change in attribute value should be implemented.

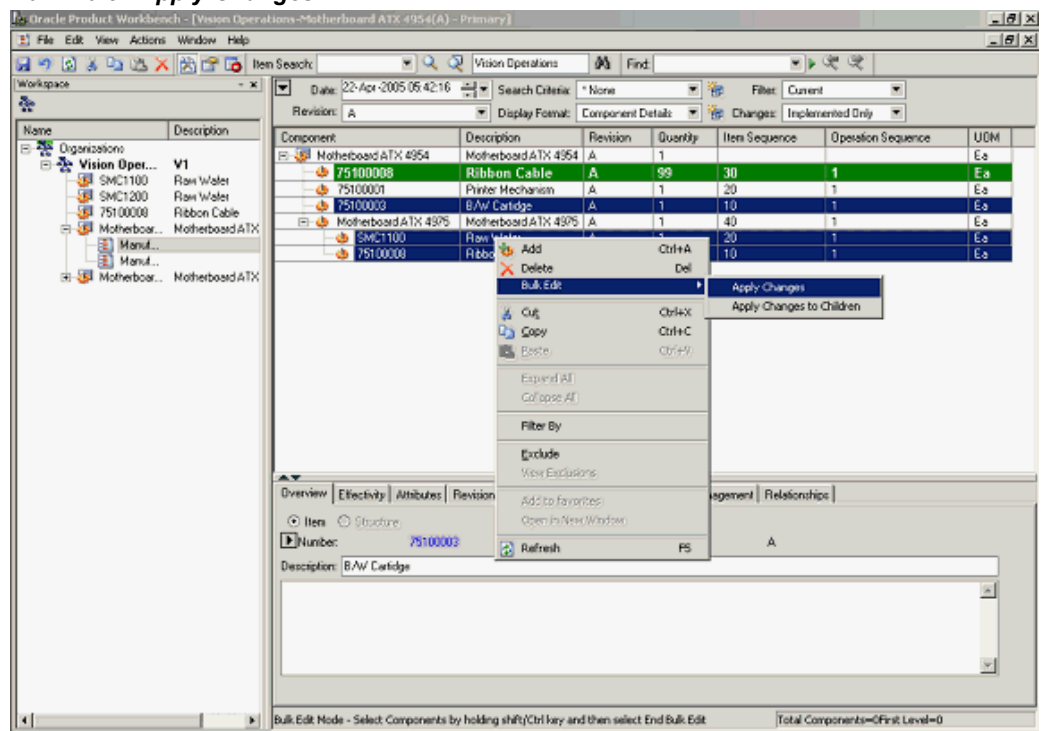
Note: You can use the [SHIFT] and [CTRL] keys to select the components.

Bulk Edit - Component Selection



- Launch Bulk Edit - Apply Changes action from the right click menu.

Bulk Edit - Apply Changes

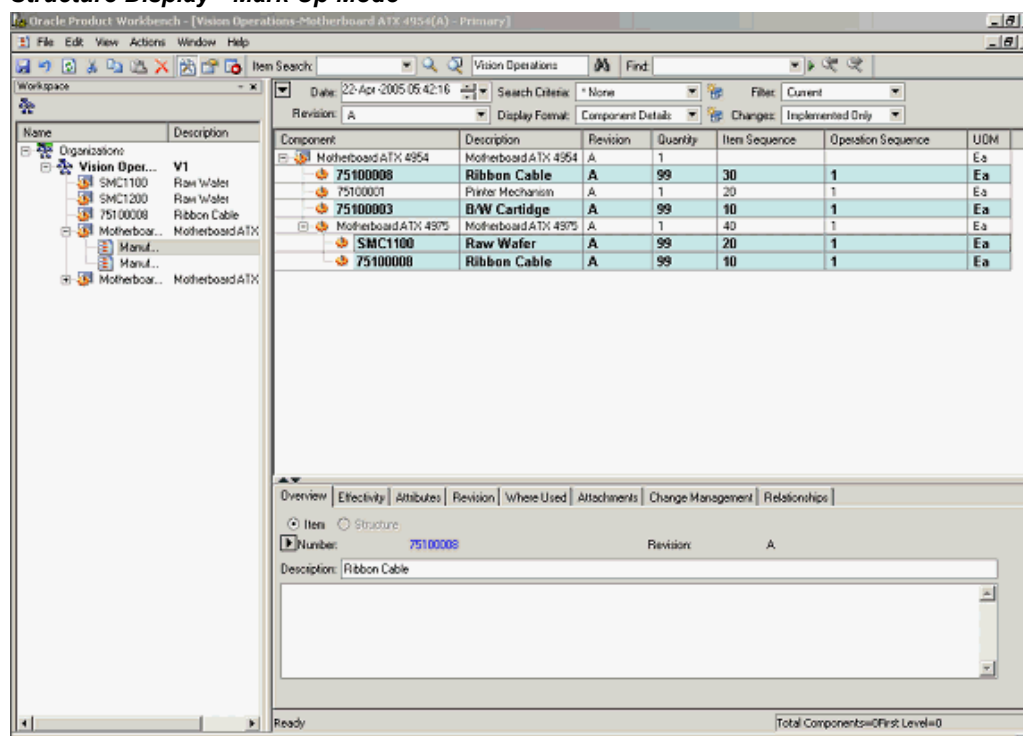


You can also select the **Bulk Edit -- Apply Changes** to Children action from the right click menu to change the attribute value of all children in a sub-assembly.

Thus, instead of independently selecting component 'SMC1100' & '75100008' (which is available in the second level of the structure), you can select just the sub-assembly 'Motherboard ATX 4975' and launch the **Bulk Edit -- Apply Changes** to Children action. This would apply the attribute value changes to the sub-assembly 'Motherboard ATX 4975' as well as its children 'SMC1100' & '75100008'.

7. The structure is displayed in the mark up mode with the attribute values of all the selected components suitable modified.

Structure Display - Mark Up Mode



8. Save your work. The attribute value changes are implemented for all the selected components.

Note: If the structure type is under change control, then you need to create a change order to implement these changes.

Drag and Drop

Drag and drop features in product workbench greatly improve the efficiency during structure editing. User can select an item, then drag and drop it on a node in the structure window. Nodes from favorite items list, item search results and structure window can be dragged and dropped to the target structure. This will add a leaf level node or a subassembly based on the nature of the source item.

The following notes apply while executing drag and drop:

- Drag and drop across organizations is not supported.

- All component validation rules get honored during drag and drop
- Drag and drop between different structure effectivities is not allowed
- A multi-level structure copy gets executed when a user drags and drops a subassembly from one structure to another.

Deleting or Disabling Components

The procedure below describes how to delete/disable a component from a structure.

1. Select a node in the structure window.
2. Choose delete action from the right-click context menu or hit the delete key.
3. The delete node and components under it are all shown in the markup mode as per the configured color scheme.
4. Save the changes directly or on a change order based on the change policy.

Copy-Paste

The procedure below describes how to copy and paste nodes from one structure to another.

1. Select a node in structure window and perform a copy action from the right click menu. This copies the selection to the clipboard.
2. Select a node in the target structure and perform a paste action from the right click menu. This action adds the copied node to the target node in markup mode.
3. Save the changes directly or on a change order based on the change policy.

Note: Components/subassemblies gets added to the second structure without affecting the first structure. System behavior is same as in case of drag and drop.

Cut-Paste

The procedure below describes how to cut and paste nodes from one structure to another.

1. Select a node in structure window and perform a cut action using the right click option. This copies the selection to the clipboard
2. Select a node in the target structure and perform a paste action using the right click option. This action deletes the cut node from the source structure and adds it to the target structure. The changes in both the target as well as source structure are in markup mode.
3. Save the changes directly or on a change order based on the change policy.

In-place Editing or Excel like Editing

In-place editing of attributes is supported in product workbench. Users can double click on an attribute value and modify the same "in place". Based on the valueset attached to the attribute, the values that users can specify are restricted. On modification, the values are not directly saved; they are retained in the markup mode (as per the color scheme configured on per user basis) and users can save these changes directly or through a change order based on the change policies.

The following procedure describes how to perform in-place editing of attributes. The same procedure applies to item, component and structure attributes:

In-place Editing

Component	Action	Description	Revision	Item Seq.	Operation Sequ.	UOM	Quantity	Planning%	Yield
75100001		Printer Mechanism	A			Ea	1		
75100002		B/W Cartridge Carrier	A	10	10	Ea	1	100	1
75100007		Cartridge Carrier	A	10	10	Ea	4	100	1
75100008		Ribbon Cable	A	20	10	Ea	4	100	1
75100009		Label	A	30	10	Ea	2	100	1
75100010		Retaining Spring	A	40	10	Ea	4	100	1
75100014		Shaft	A	50	10	Ea	1	100	1
75100003		B/W Cartridge	A	20	10	Ea	1	100	1
75100004		Paper Carrier	A	30	10	Ea	1	100	1
75100005		Colour Cartridge	A	40	10	Ea	1	100	1
75100006		Colour Cartridge Carrier	A	50	10	Ea	1	100	1

1. Double click on an attribute value displayed in the structure window. The field changes to edit mode based on the display type specified for the attribute. For example, a poplist is available to choose values from in case the display type for the attribute has been set as a poplist.
2. Provide a new value in place. Based on the valueset attached to the attribute, the values that can be specified get restricted.

Note: Certain attributes in the structure window cannot be edited. For e.g. component, description, UOM etc. Double clicking on these values will not open the UI in edit mode.

3. Save the changes directly or on a change order based on the change policy.

Using Defined Structure Names and Types

You can further classify alternate structures within a given structure type using structure names (previously known as “Alternate Designator”). Structure names allow you to create alternate design and manufacturing bills for a given item.

You can classify various structures in your business environments using Structure Types. Additionally Structure Types allow you to: Control effectivity of the components for a specific structure type, like date effectivity or revision effectivity etc,

User defined attribution – different types of structures and its components will have different attribution requirements, For Example, when performing analysis of various scenarios, every structure may need to capture the weight and cost attributes. Similarly components may need to capture attributes like “Mean Time between failure” which are unique to a component usage in a specific structure.

Attachment Categories – The types of documents required would change by the structure type. For eg. a Requirements structure will require a Marketing Analysis whereas Engineering structure may need a Drawing.

Viewing Structures in the Context of a Change Order

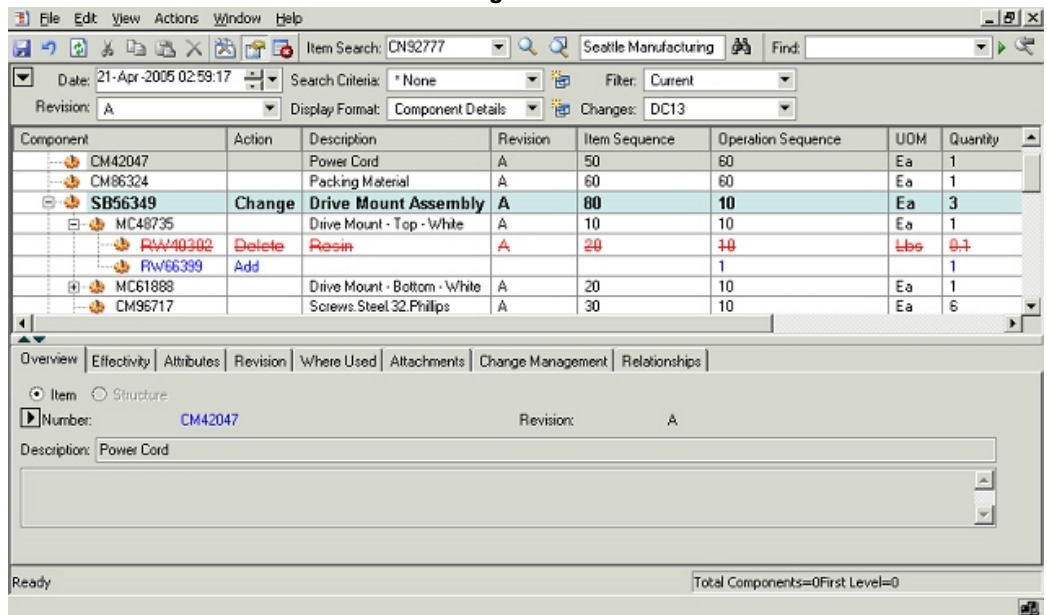
How to view structures in a change order:

You can view a structure in markup mode for changes specified through a change order. You need to select appropriate value in the “changes” context switcher in structure window. In the markup mode, these changes are shown highlighted (For example, the newly added components be shown in blue color, and deleted components be shown struckthrough in red color etc) and are very easy to visualize.

The procedure below describes how to view structure in context of change orders:

1. Open the structure using the procedure described in the view structure section.
2. Select a change order in the changes poplist available in the header section of the structure window to view the structure in markup mode. All the changes specified in the product information through the selected change order are shown highlighted as per the display scheme configured by the user.

Structure information in context of a change order



3. Optionally, specify more changes to the product information and click on save button. These new changes get saved in the change order in whose context the structure was being viewed.

Note: New changes get saved to the change order only if the user has edit privileges on the change order and the change order is in a state where changes are allowed.

How to create a new structure through a change order:

Users with edit privileges on an item can create/edit structure for it. User is enforced to create/edit structure through a change order in case the change policy requires a Change Order for structure changes. User can also create/edit structure through a change order even for those items that do not require change order for structure

changes. However, this step is optional and user is not enforced to create a change order in that scenario.

The procedure below describes how to create a new structure through a change order:

1. Create/edit a structure in markup mode as per the procedure outlined for the create structure flow.
2. Review the structure information and make necessary changes. Pl note that the structure information is available is displayed in the markup mode at this stage and is not yet saved.
3. Choose to create a change order from the menu (Actions->Create Change Order) to open the create change order dialog. Alternately, go to the change management TAB in the details section of the structure window and create new change order by clicking on appropriate icon.

Create Change Order

Create Change Order - Enter Header Information - Seattle Manufacturing

Category:

Change Type:

Change Number:

Change Name:

Description:

Item:

Revision:

Additional Information

Assigned To:

Requestor:

Priority:

Reason:

Source Type:

Source Name:

Organization Hierarchy:

< Back Next > Cancel

4. Choose a change order based category from the category poplist.
5. Choose a change order type from the change type poplist.

6. Specify the change order number, name and description in respective fields. In case of auto generated number, the number field is uneditable and the value is generated based on the auto numbering scheme specified for the selected change order type.
7. The item field gets defaulted to the parent item for which the structure is being created. User can choose a different item also. The revision field is also defaulted to the current item revision. Please note that item and item revision fields are editable based on the subject type specified for the selected change order type.
8. Based on the change order assignment rules specified for the selected change order type, the assigned to field is gets populated. User can change the assignee to a different person or a group.
9. The requestor field is defaulted to the person name from whose login the change order is being created. User can change the requestor to a different person on whose behalf the change order is being requested.
10. Specify a change priority and a reason. The values in the respective poplist are restricted as per the configuration carried out for the change order type.
11. Optionally, specify a source type and a source name.
12. In case of a global change order, specify the organization hierarchy where the change needs to be propagated.

Note: Based on the primary attributes configured for the change order type, certain attributes are shown in uneditable mode on the above dialog

13. Click on the next button to go to the attachment screen in the change order creation flow. User can create image markups and attach them to the change order besides other files. All attachments are stored in EBS repository only. Pl refer the attaching markups to issues/change order section for detailed procedure on creating and attaching markups.

Change Order Attachment List

Create Change Order - Add Attachments - Seattle Manufacturing

Attachment List:

Name	Size in bytes	Category	Repository
Advanced search results	1550474	Datasheet	E-Business Suite
Flowchart Changes	38219	Miscellaneous	E-Business Suite

< Back Next > Cancel

14. Click on the next button to go to the revised item screen in the change order creation flow.

Revised Items List

Where Used

Lines

Item	Description	Current Revision	New Revision	Structure N
CN92777	Sentinel Custom Desktop	A	B	Primary
MC48735	Drive Mount - Top - White	A	C	Primary
MC48735	Drive Mount - Top - White	A		Primary

Changes

Structure Item Attribute Details

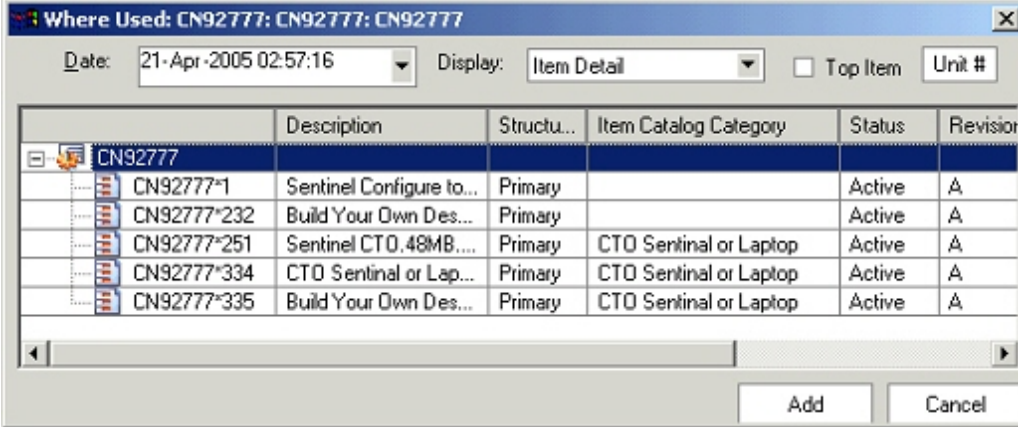
Action	Component	Description	Revision	Effectivity From
Change	S856349	Drive Mount Assembly	A	17-Apr-1997 01:06:38

☒ Launch Workbench ☐ Submit

< Back Finish Cancel

15. Review the changes captured on the change order (component changes as well as item attribute changes can be viewed in this release). All the changes specified in the markups should get captured.
16. Optionally, specify new revisions for the revised items. A user needs to double click on the new revision column to open the field in editable mode and then provide a new revision in-place.
17. Optionally, perform the where used query on the revised item and choose to add higher-level assemblies as revised items. Provide a new revision for these assemblies in the revised items list.

Revised Item Where Used



	Description	Structu...	Item Catalog Category	Status	Revisor
CN92777					
CN92777*1	Sentinel Configure to...	Primary		Active	A
CN92777*232	Build Your Own Des...	Primary		Active	A
CN92777*251	Sentinel CTO.48MB...	Primary	CTO Sentinal or Laptop	Active	A
CN92777*334	CTO Sentinal or Lap...	Primary	CTO Sentinal or Laptop	Active	A
CN92777*335	Build Your Own Des...	Primary	CTO Sentinal or Laptop	Active	A

18. On the revised item list screen, check the submit checkbox to submit change order to workflow upon creation. Unchecking the checkbox will lead to creation of the change order in draft status.
19. Check the launch workbench checkbox to launch the change order details in html workbench upon successful creation.
20. Click on the Finish button to create the change order.

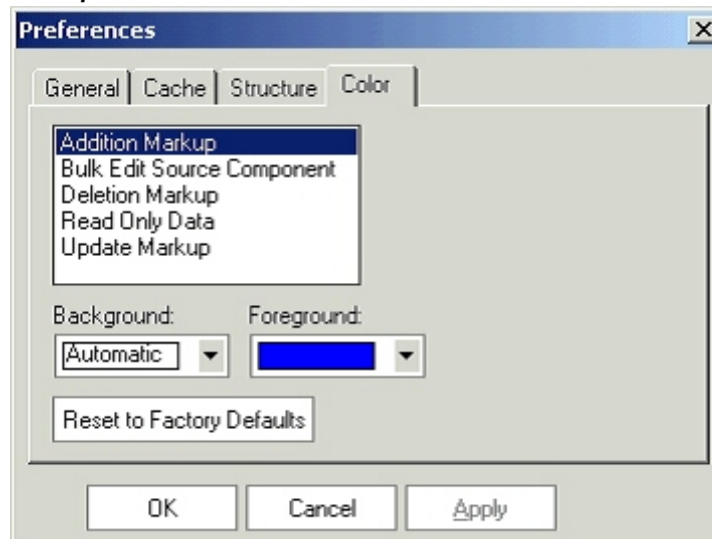
Marking Up Structures

Oracle Product Workbench provides a very intuitive and powerful user interface for authoring structure changes. Changes authored for structures are shown visually using industry standards for redlining and markup. You can author add, disable or modify any component attributes in a single interface. Redline/markup colors can be set based on your own preferences. You can save the changes to a structure inline or choose to process it through a formal change order. You can also review the redlines (changes) for a structures once a change order has been saved in the same interface. Additionally you can make further changes and add them to the same change order or to any existing pending change order.

How to configure markup colors:

Oracle Product workbench enables each user to configure the markup colors as per their preferences. These settings are used to highlight modifications to the product information and help in improving the ease of visualization of changes.

Markup colors



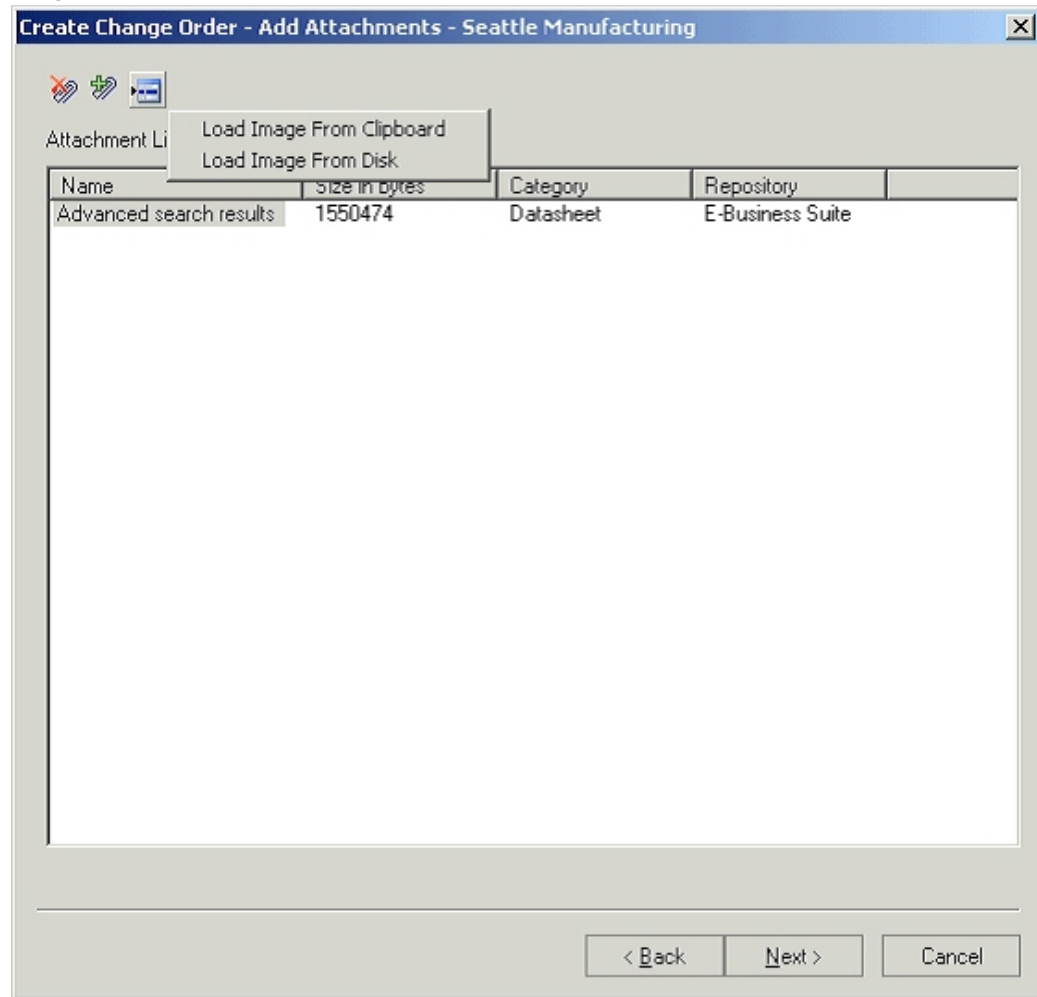
1. In the Product Workbench, invoke the Preferences dialog from the main menu (Edit->Preferences)
2. Navigate to the Color TAB.
3. Select the type of markup and specify a combination of background and foreground colors for the selected markup type. E.g. if the settings for Addition markup is an automatic background and a blue foreground, any new component addition to the structure will be shown in blue font color.
4. Click the Apply button.
5. To clear the user-settings and restore to the seeded color combination, click on the Reset to Factory Defaults button and hit on the apply button.

Attaching markups to changer orders and issues:

The procedure below describes how to create image markups and attach them to issues and change orders in Product Workbench:

1. On the create change order/issue flow, navigate to the attachment list screen.
2. Click on the image attachment icon and choose to load an image from the clipboard or from an existing file from the disk.

Image Attachments



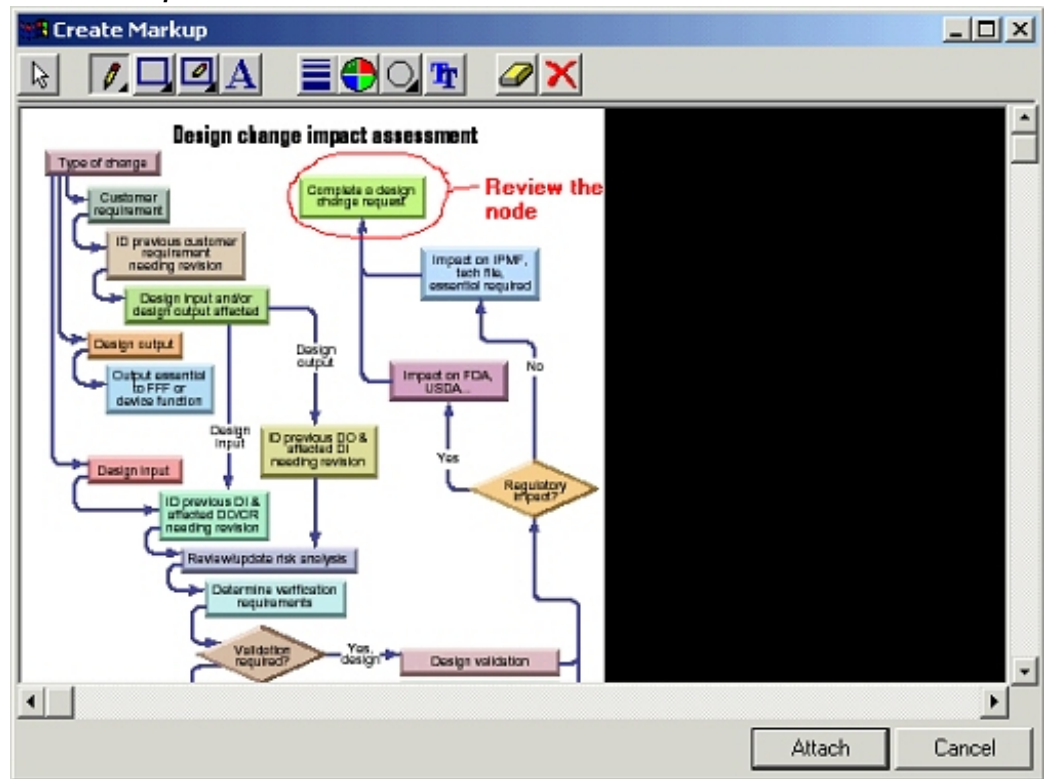
3. On the create markup screen, use the markup tools to draw lines with arrows or outline shapes, for example, to highlight areas in the image.

Markup Toolbar



4. Use the text tool to create text labels to provide a description.
5. You can also pick items, drag them around, and modify line/font colors, font face, line weights, and fill etc.

Create Markup Screen

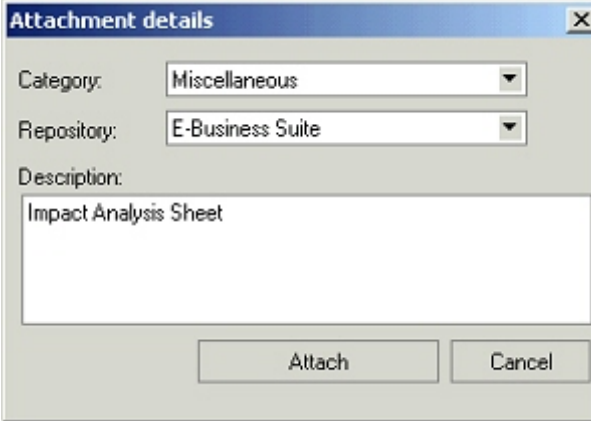


6. After the markup is completed, click on the attach button. Provide a name for the markup in the popup.

Create Markup as

7. Choose the OK button, and provide the attachment category and description on the attachment details dialog. Note that only EBS repository is supported in the current release of Product Workbench.

Attachment details

A screenshot of a software dialog box titled "Attachment details". The dialog has a blue title bar with a close button (X) in the top right corner. Inside, there are two dropdown menus: "Category:" with "Miscellaneous" selected, and "Repository:" with "E-Business Suite" selected. Below these is a text area labeled "Description:" containing the text "Impact Analysis Sheet". At the bottom of the dialog are two buttons: "Attach" and "Cancel".

Attachment details

Category: Miscellaneous

Repository: E-Business Suite

Description: Impact Analysis Sheet

Attach Cancel

8. Choose the Attach button. The markup is listed on change order/issue attachment screen at the end of this step.

Creating New Issues

How to create a new issues in the Product Workbench:

The procedure below describes how to create a new issue in Product Workbench:

1. Choose to create an issue from the menu (Actions->Create Issue) to open the create issue dialog. Alternately, go to the change management TAB in the details section of the structure window and create new issue by clicking on appropriate icon.

Create Issue

Create Issue - Enter Header Information - Seattle Manufacturing

Category: Issue

Issue Type: Safety Iss

Issue Number: QPCR-1

Issue Name: Problem Countermeasure report for Safety Sy

Description: Issues with the safety system of Sentinel Desktop

Item: CN92777

Revision:

Additional Information:

Assigned To: Supplier Core Group

Requestor: Amit Bansal

Source Type: Customer

Source Name: Kim Reynolds

Priority: Urgent

Reason: Function

< Back Next > Cancel

2. Choose an issue based category from the category poplist.
3. Choose an issue type from the change type poplist.
4. Specify the issue number, name and description in respective fields. In case of auto generated number, the number field is uneditable and the value is generated based on the auto numbering scheme specified for the selected issue type.
5. The item field gets defaulted to the selected item. User can choose a different item also. The revision field is also defaulted to the current item revision. Please note that item and item revision fields are editable based on the subject type specified for the selected issue type.
6. Based on the issue assignment rules specified for the selected issue type, the assigned to field is gets populated. User can change the assignee to a different person or a group.
7. The requestor field is defaulted to the person name from whose login the issue is being created. User can change the requestor to a different person on whose behalf the issue is being requested.
8. Specify a change priority and a reason. The values in the respective poplist are restricted as per the configuration carried out for the issue type.
9. Optionally, specify a source type and a source name.

10. Choose the Next button to go to the attachment screen in the issue creation flow. User can create image markups and attach them to the issue besides other files. All attachments are repositied in EBS repository only. Pl refer the attaching markups to issues/change order section for detailed procedure on creating and attaching markups.

Issue Attachment List

Create Issue - Add Attachments - Seattle Manufacturing

Attachment List:

Name	Size in bytes	Category	Repository
Create Item Dialog	958222	Control Plan	E-Business Suite
Item Details	104453	APQPStatus Report	E-Business Suite

☒ Launch HTML Workbench ☒ Submit

< Back Create Cancel

Index

A

- action log
 - managing, 11-16
- AMLs
 - managing, 8-33
- Approved Manufacturer's List (AML)
 - managing, 8-33
- attachments
 - item
 - managing, 8-35
 - managing, 11-18
 - updating, 8-35
- attribute
 - item
 - updating, 8-30
 - multi-row
 - updating in a spreadsheet, 8-29
- attribute group
 - adding actions to, 2-9
 - creating, 7-1
- attribute groups
 - associating with change header types, 4-4
- autonumbering, 2-14

C

- catalog
 - assigning a category to, 3-4
 - assigning people to, 3-6
 - browsing, 10-1
 - creating, 3-2
 - creating categories, 3-1
 - creating category hierarchy within, 3-5
 - deleting a category from, 3-6
 - updating category hierarchy within, 3-5
- category
 - valid
 - assigning people to, 3-7
- category assignments
 - copying items with, 10-2
- change
 - action log
 - managing, 11-16
 - actions, 11-15
 - attachments
 - managing, 11-18

- importing, 11-34
- lines
 - managing, 11-20
- object
 - relationships, 11-25
- revisions
 - creating, 11-17
- change
 - category
 - creating, 4-1
 - priorities
 - creating, 4-10
 - reasons
 - creating, 4-11
- change header types
 - managing, 4-2
- change line types
 - creating, 4-8
- change order
 - creating, 11-12
- change order revised item, 11-20
- change orders
 - searching for, 11-1
- change requests
 - creating, 11-5
 - searching for, 11-1
- change tasks, 11-24
- change type
 - new item request, 2-10
- classifications for change orders
 - creating, 4-12
- codes
 - associating with change header types, 4-5
- companies
 - searching for, 6-5
- creating issues, 11-2

D

- display formats
 - administrator level
 - creating, 1-4
 - updating, 1-5
 - user level
 - creating, 1-6

E

EGO_ITEM_PEOPLE_INTF
 column details, 8-16
 table, 8-15
EGO_ITM_USR_ATTR_INTRFC
 column details, 8-13
EGO_ITM_USR_ATTR_INTRFC , 8-11
ENG_CHANGE_LINES_INTERFACE
 table, 11-43
ENG_CHANGE_LINES_INTERFACE
 column details, 11-44
ENG_CHANGE_PEOPLE_INTF
 column details, 11-41
 table, 11-40
ENG_CHG_USR_ATR_INTERFACE
 column details, 11-37
 table, 11-36

F

functions
 creating parameter mappings for, 7-6
 user-defined
 creating, 7-5

G

groups
 managing, 6-5

I

independent values
 creating, 7-9
issues
 creating, 11-2
 searching for, 11-1
item
 adding people to, 8-37
 advanced search, 8-2
 assigning to a category, 10-1
 attachments
 managing, 8-35
 attribute
 updating, 8-30
 catalog text index
 optimizing, 2-19
 category assignments
 copying, 10-2
 creating, 8-4
 creating multiple, 8-8
 descriptions
 automating, 2-14
 enable in an organization, 8-36
 favorites, 8-3
 import format
 copying, 2-6
 creating, 2-4

 deleting, 2-7
 updating, 2-6
importing, 8-9
Importing Item Organization, 8-24
importing item people assignment, 8-25
importing using spreadsheet, 8-18
locating in a structure, 12-1
numbers
 automating, 2-14
people
 importing, 8-10
phases
 managing, 8-32
request
 associating with item catalog category, 2-12
 creating multiple, 8-8
 creating new, 8-4
revision
 creating, 8-34
 importing using a spreadsheet, 8-20
 promoting to next phase, 8-38
searching for, 8-1
status
 creating, 2-7
 editing, 2-7
structure
 managing, 12-3
 viewing, 12-2
templates
 defining, 2-13
updating using a spreadsheet, 8-27
user attributes
 importing, 8-10
 where used inquiries, 12-4
item
 change policy
 defining and updating, 2-18
item catalog category
 adding attachment categories to, 2-17
 assigning people to, 2-8
 associating attribute groups with, 2-8
 associating lifecycles with, 2-16
 browsing, 2-7
 creating, 2-1
 creating pages for, 2-15
 deleting attachment categories from, 2-18
 searching for, 2-1
 updating, 2-3
item category
 importing using a spreadsheet, 8-23
item number
 automating, 2-14
item request
 associating with item catalog category, 2-12
item request type
 defining, 2-10
item revision
 creating, 8-34

promoting to next phase, 8-38

L

lifecycle
 tracking project
 creating, 8-32
lifecycle
 phases
 editing, 2-16
lines
 managing, 11-20

O

organization assignments
 enabling items, 8-36

P

pages
 associating with change header types, 4-5
parameter mappings
 creating for an action, 2-15
people
 adding to items, 8-37
 searching for, 6-5
people and roles
 managing, 11-19
privileges
 custom
 creating, 7-10
Product Workbench
 overview, 13-1
Product Workbench Overview, 13-1
projects
 managing, 8-39

R

recently visited, 8-4
relationships
 creating, 11-25
reports
 creating, 4-13
 managing, 11-46
revision phases
 managing, 8-38
roles
 creating, 6-2

deleting, 6-4
mapping
 updating, 6-3
organization level
 granting and revoking, 6-4
updating, 6-3
viewing, 6-1

S

search criteria
 user level
 creating, 1-2
search criteria
 user level
 updating, 1-4
search criteria templates
 administrator level
 creating, 1-1
statuses
 creating, 4-10
structure
 item
 viewing, 12-2
 searching for items in, 12-1
structure names
 creating, 5-3
 searching for, 5-2
structure types
 associating structure names with, 5-2
 creating, 5-1
 searching for, 5-1

T

task templates
 creating, 4-7

V

value sets
 creating, 7-7
table
 defining, 7-8

W

workflows
 creating, 4-13
 managing, 11-26

