

**Oracle® Installed Base**

User's Guide

Release 12.2

**Part No. E49036-15**

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Oracle Installed Base User's Guide, Release 12.2

Part No. E49036-15

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## Oracle Installed Base User's Guide, Release 12.2

### Part No. E49036-15

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document. Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

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- Did you understand the context of the procedures?
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# Preface

## Intended Audience

Welcome to Release 12.2 of the *Oracle Installed Base User's Guide*.

See Related Information Sources on page xvi for more Oracle E-Business Suite product information.

## Documentation Accessibility

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## Structure

- 1 Overview of Oracle Installed Base
- 2 Managing Searches
- 3 Managing Item Instances in Oracle Installed Base
- 4 Working with Systems
- 5 Using the Transactions Tab
- 6 Using the Transaction Interface Search
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- 8 Performing Oracle Installed Base Related Tasks in Other Oracle Applications
- 9 Using the Open Interface Program
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- 13 Managing Counter Instances in Oracle Installed Base**
- 14 Administering Counters**
- A Oracle Transactions Interfacing with Oracle Installed Base**
- B The Open Interface Tables**

## Related Information Sources

*Oracle E-Business Suite User's Guide*

This guide explains how to navigate, enter and query data, and run concurrent requests using the user interface (UI) of Oracle E-Business Suite. It includes information on setting preferences and customizing the UI. In addition, this guide describes accessibility features and keyboard shortcuts for Oracle E-Business Suite.

*Oracle Asset Tracking User's Guide*

*Oracle Enterprise Asset Management User's Guide*

*Oracle Enterprise Asset Management Implementation Guide*

*Oracle Field Service User's Guide*

*Oracle Installed Base Implementation Guide*

*Oracle Inventory User's Guide*

*Oracle Work in Process User's Guide*

## Integration Repository

The Oracle Integration Repository is a compilation of information about the service endpoints exposed by the Oracle E-Business Suite of applications. It provides a complete catalog of Oracle E-Business Suite's business service interfaces. The tool lets users easily discover and deploy the appropriate business service interface for integration with any system, application, or business partner.

The Oracle Integration Repository is shipped as part of the Oracle E-Business Suite. As your instance is patched, the repository is automatically updated with content appropriate for the precise revisions of interfaces in your environment.

## Do Not Use Database Tools to Modify Oracle E-Business Suite Data

Oracle **STRONGLY RECOMMENDS** that you never use SQL\*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle E-Business Suite 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 E-Business Suite data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle E-Business Suite tables are interrelated, any change you make using an

Oracle E-Business Suite form can update many tables at once. But when you modify Oracle E-Business Suite data using anything other than Oracle E-Business Suite, 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 E-Business Suite.

When you use Oracle E-Business Suite to modify your data, Oracle E-Business Suite automatically checks that your changes are valid. Oracle E-Business Suite 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.



# Part 1

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## Oracle Installed Base - General Information



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## Overview of Oracle Installed Base

This chapter covers the following topics:

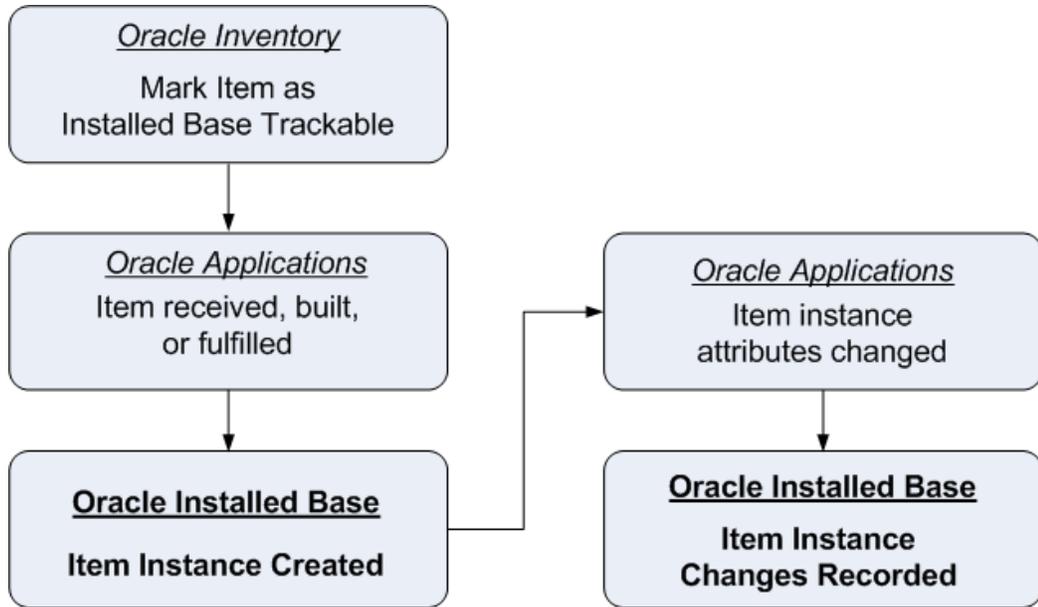
- Definition of Oracle Installed Base
- Oracle Applications That Use Oracle Installed Base
- Examples of Transactions That Use Oracle Installed Base

### Definition of Oracle Installed Base

Oracle Installed Base is an item instance life cycle tracking application that facilitates enterprise-wide (internal) life cycle item management and tracking capability. In addition, you can track customer (external) item instances.

### Basic Tracking

You specify which items you want to track in the Master Item list in Oracle Inventory. Subsequently, when a particular real-world instance of the item is created, an item instance record is created in Oracle Installed Base. Any significant changes to the item instance will also be recorded in Oracle Installed Base.



## Terminology

### Tangible Items

Item instances can be used to track tangible items that can be assembled and shipped, such as computers, engines, machine parts, and so on.

### Intangible Items

Item instances can be used to track intangible items such as software, services, licenses, and agreements. For example, a telephone number can have different services such as call waiting and conference call. These can all be defined and tracked as components of the telephone service.

### Serialized Items

When a trackable item is defined in Oracle Inventory as serialized, each item instance derived from that item requires a unique serial number and individual tracking. The item instance will always have a quantity of 1.

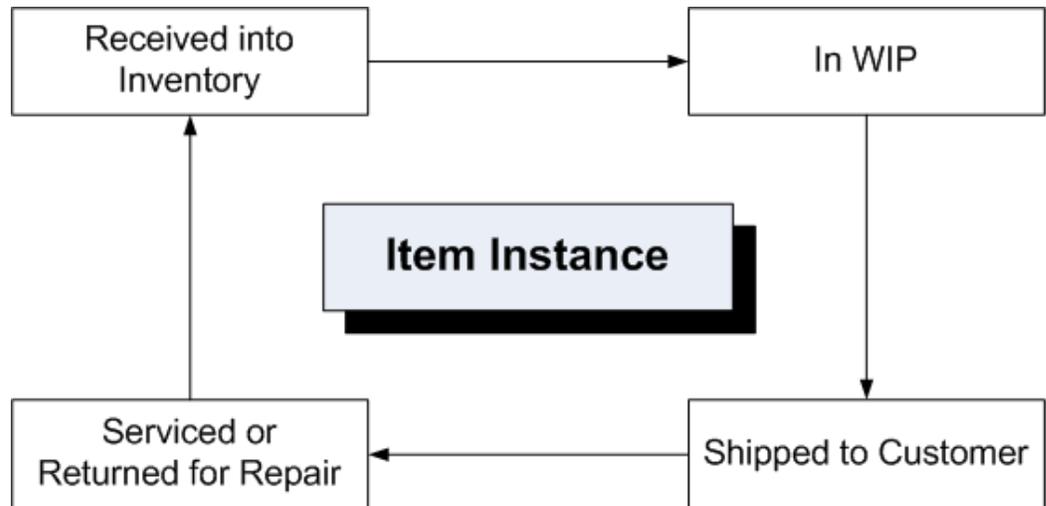
### Non-Serialized Items

When a trackable item is defined in Oracle Inventory as non-serialized, it is typically for smaller objects whose real-world instances do not require individual tracking. For example, a screw could be defined as a non-serialized, trackable item; an order for 100 screws would result, after order shipping, in the creation of one item instance, with a quantity of 100.

See also *Serialization and Levels of Tracking*, page 1-5.

### Item Instance Movement Tracking

Oracle Installed Base can track an item instance from the time that it is received in inventory, in work in process, in projects, at customer sites, and throughout the return and repair process.

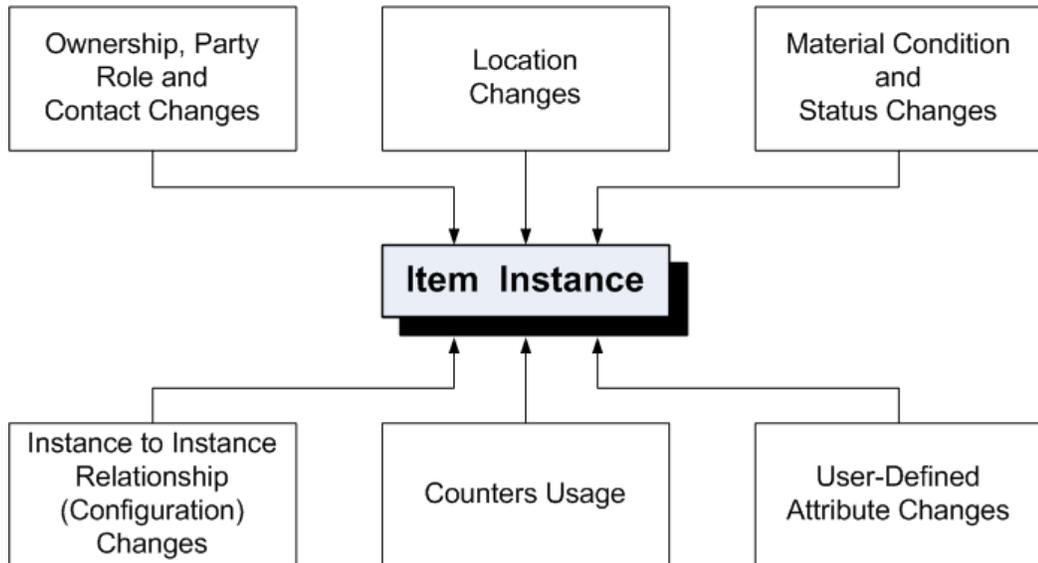


### Item Instance Attribute Change Tracking

Oracle Installed Base is a centralized repository of information for an item instance and its tracking details including location, status, ownership, party role, and contact relationships. It also supports the creation and maintenance of Oracle Installed Base configurations.

Counters can be tied to item instances so that usage can be captured. For example, if an item instance is an electrical meter, then counters can be used to store the meter reading, thus recording the usage that in turn generates revenue.

## Main Item Instance Attribute Changes

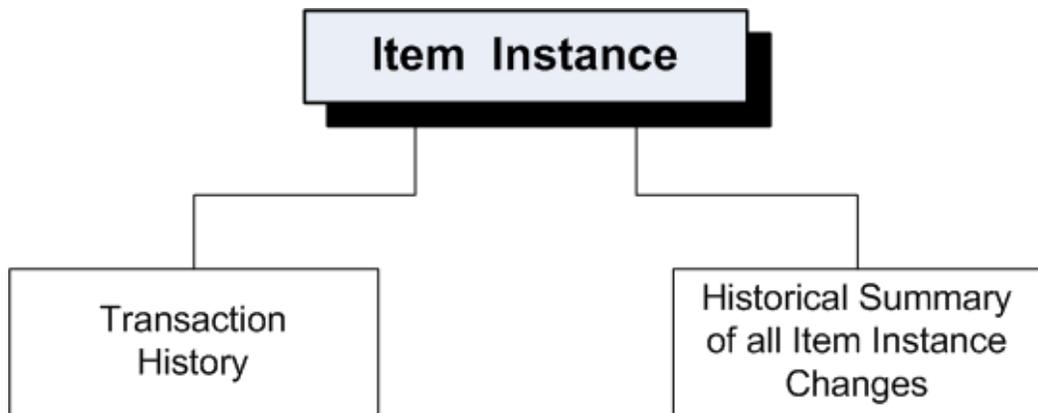


## History of Item Instance Changes

Oracle Installed Base records a history of changes to item instances.

For each item instance in Oracle Installed Base, a history of transactions is tracked and stored. You can view the transactions and the attribute state for a particular time frame.

The transaction history includes a list of inventory, work in process, order management, and other transactions affecting an item's tracking attributes.



## Objects Related to Item Instances

Oracle Installed Base provides links to detailed information on service contracts, customer warranties, service requests, work requests, and service orders associated to

item instances. To provide this information, Oracle Installed Base interfaces with other Oracle applications, which include Oracle TeleService, Oracle Service Contracts, Oracle Enterprise Asset Management, Oracle Order Management, and Oracle Depot Repair.

### **Serialization and Levels of Tracking**

The extent of the tracking that Oracle Installed Base performs for an item depends on its serialization setup. The levels of tracking, with the highest tracking level first, are as follows:

1. Items that are serialized at receipt or have predefined serialization.
2. Items that are serialized at sales order issue.
3. Non-serialized items.

If an item is serialized at receipt, Oracle Installed Base begins tracking all the significant changes that affect an item instance before it is sent out to a customer. For items serialized at sales order issue, tracking starts at the time of sale order issue, and records all transactions that occur at the customer site.

Non-serialized items can be tracked only as a group, where the quantity of items in the group may be 1, but is typically a larger number.

For non-serialized items, there are transactions where only part of the group is processed, such as partial returns on RMA receipts and cancellations. In these transactions, Oracle Installed Base splits the original item instance into two. For example, when a customer returns part of a group of non-serialized items, the original item instance records the quantity that remains with the customer, and the second item instance records the quantity being returned.

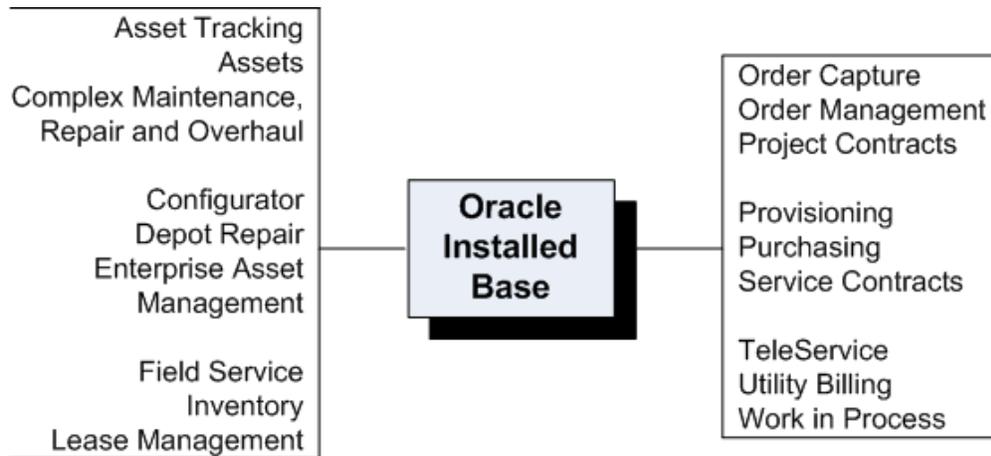
There are also transactions where Oracle Installed Base merges item instances, such as when non-serialized items are returned into inventory.

### **Oracle Applications That Use Oracle Installed Base**

The Oracle applications that use Oracle Installed Base are:

- Asset Tracking
- Assets
- Complex Maintenance Repair and Overhaul
- Configurator
- Depot Repair
- Enterprise Asset Management

- Field Service
- Inventory
- Lease Management
- Order Capture
- Order Management
- Process Manufacturing
- Project Contracts
- Provisioning
- Purchasing
- Quoting
- Service Contracts
- Site Hub
- TeleService
- Utility Billing
- Work in Process



A list of the Oracle transactions that interface with Oracle Installed Base appears in Oracle Transactions Interfacing with Oracle Installed Base, page A-1, together with the Oracle application that triggers each transaction.

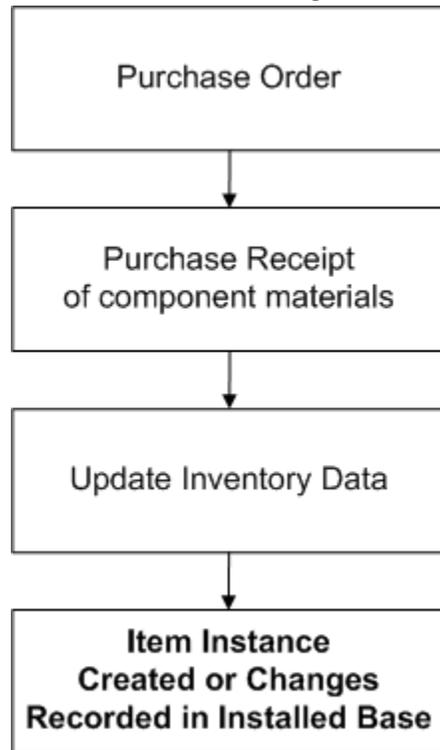
## Examples of Transactions That Use Oracle Installed Base

Several Oracle Order Management transactions interact with Oracle Inventory and Oracle Installed Base.

### Purchase Orders

The following diagram shows the high-level flow for purchase orders.

#### *Purchase Order Processing Flow*

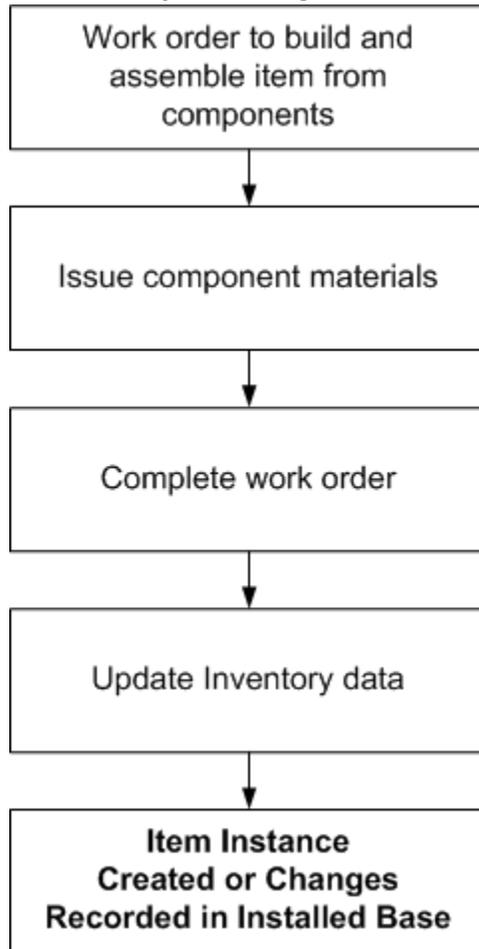


The receipt of the component materials on the purchase order is recorded by Oracle Inventory, and Oracle Installed Base starts to track the item instances.

### Item Assembly

The following diagram shows the high-level flow for item assembly.

*Item Assembly Processing Flow*

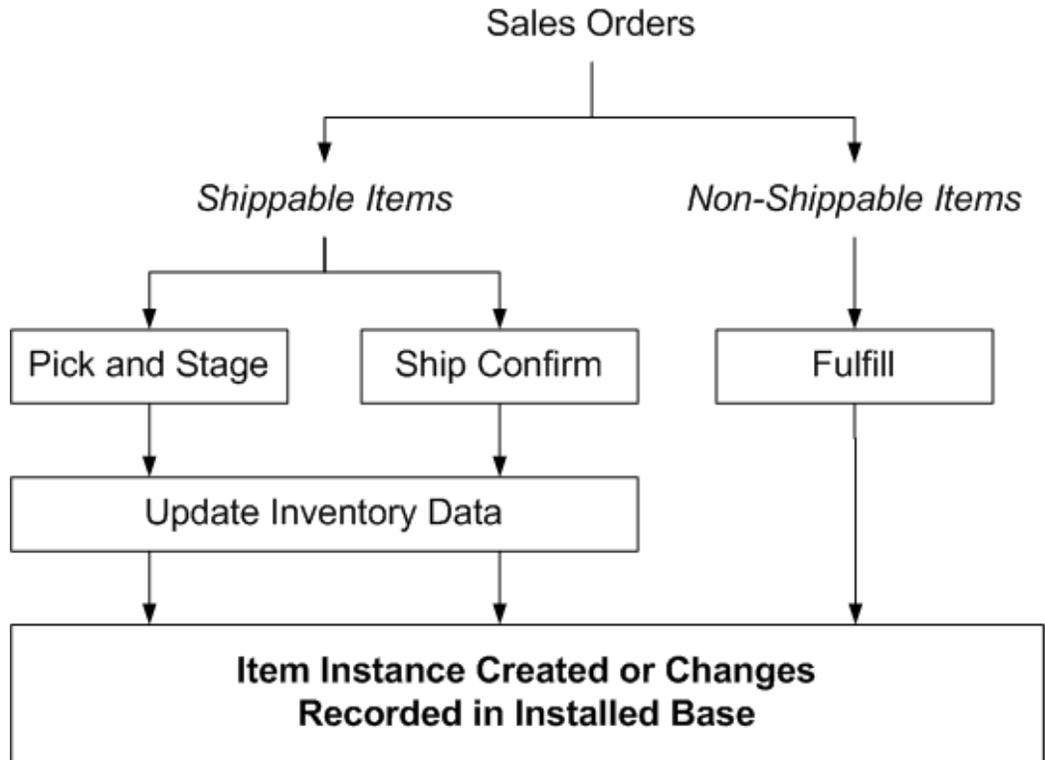


The main processing associated with the building and assembly of items occurs in Oracle Work in Process. When all components have been completed and the item is assembled, this is recorded both in Oracle Inventory and Oracle Installed Base.

**Shipped and Fulfilled Order Lines**

The following diagram shows the high-level flow for shippable and non-shippable items on sales orders.

### Order Processing Flow



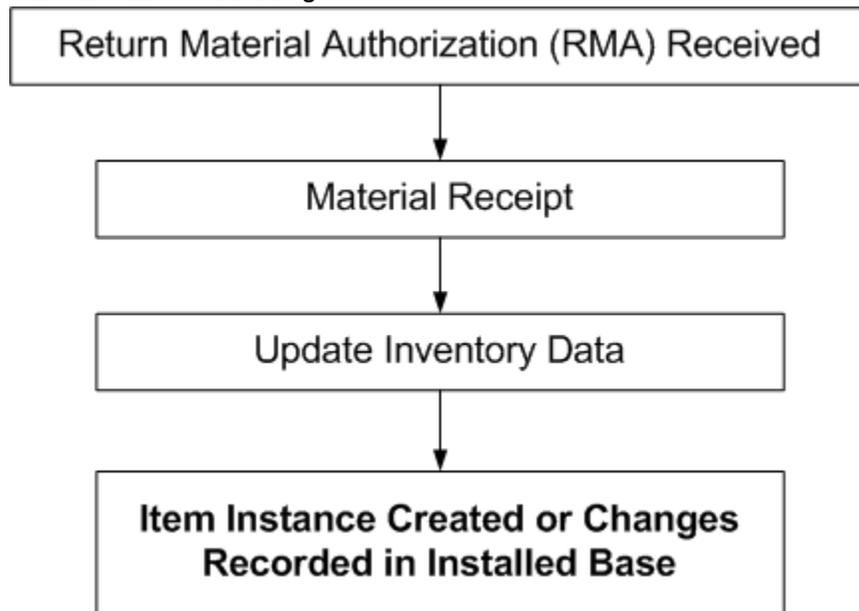
A sales order shipment generates an Inventory Issue material transaction in the Oracle Inventory application. Because Oracle Installed Base also tracks the internal inventory for trackable items, the instance already exists in Oracle Installed Base. A shipment can result in a change in instance location and ownership, status, and so on, based on the associated Oracle Installed Base transaction subtype.

Oracle Installed Base tracking of non-shippable items at fulfillment requires the workflow configuration as defined in the *Oracle Installed Base Implementation Guide*.

### Material Returns

The following diagram shows the high-level flow for material returns.

*Material Return Processing Flow*



A sales order return line provides for an Oracle Inventory receipt material transaction in the Oracle Inventory application. Because the Oracle Installed Base instance already exists for the item being returned, a receipt can trigger an update of the specified instance, depending on the Oracle Installed Base transaction type being used.

Oracle Installed Base also supports the Oracle Order Management RMA fulfillment process for non-shippable items subject to rules and conditions defined in the *Oracle Installed Base Implementation Guide*.

---

## Managing Searches

This chapter covers the following topics:

- Overview
- Item Instance and System Search Overview
- Performing Simple Searches
- Performing Advanced Searches
- Creating and Personalizing Views
- Using Views

### Overview

When searching for item instances or systems, (which are constructs used for grouping item instances) you can perform simple or advanced searches, and then save your searches for reuse.

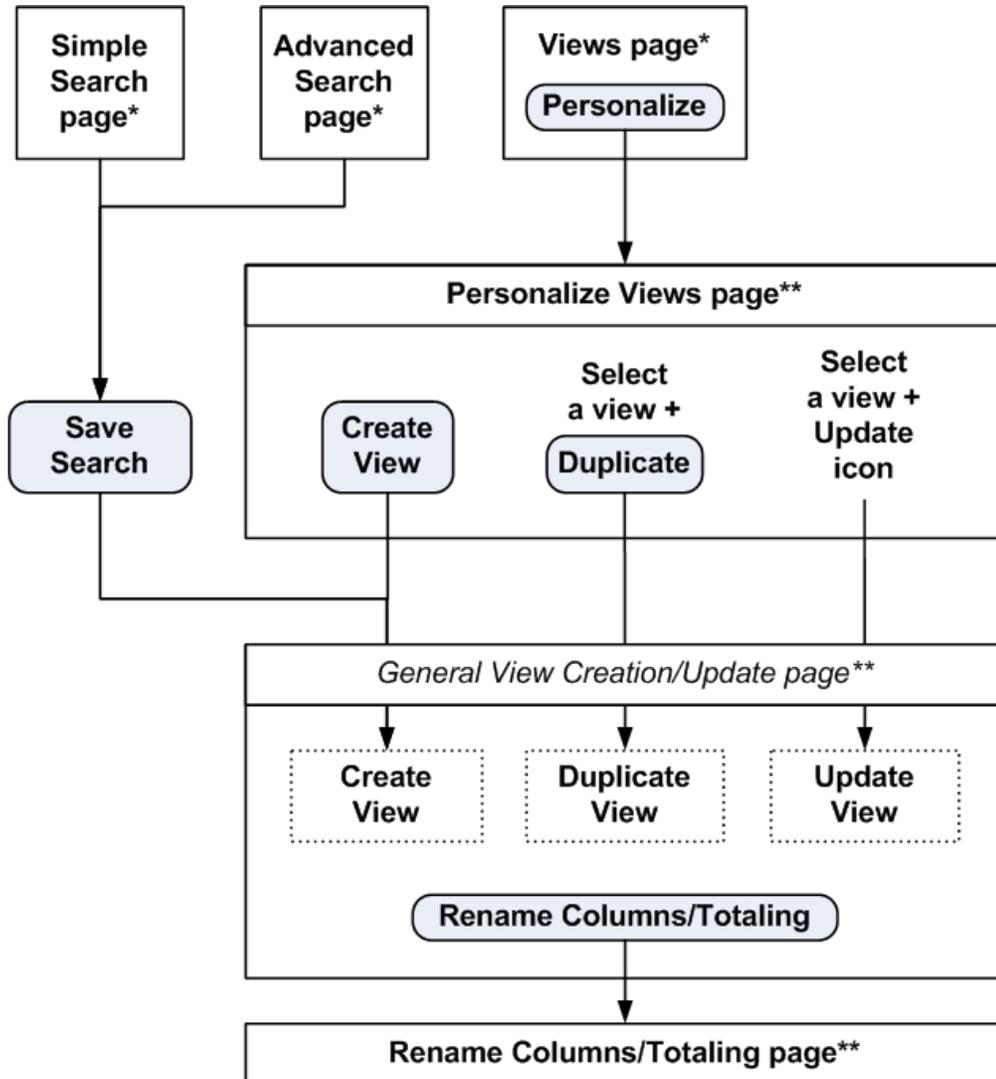
For both item instances and systems, the methods for searching and saving searches are similar. In both cases, the saved searches are known as views.

**Note:** In this chapter, the terms "saved search" and "view" are used interchangeably.

Item instance views can only be used in item instance searches; system views can only be used for system searches.

### Item Instance and System Search Overview

The diagram shows an overview of the features available when you search for item instances or systems.



\* In these pages, click **Go** to perform the search

\*\* These are special versions of general Oracle applications pages for personalizing your views/saved searches

Both the initial Item Instance page and the initial System page appear as a Simple Search page with two regions:

- Search region
- Results region

You can search for item instances or systems using three search pages: Simple Search, Advanced Search, or Views. You can switch between the search pages by clicking Simple Search, Advanced Search, or Views.

A view is a saved search. For simple or advanced searches, save them as views, and reuse them as needed.

The basic search process is as follows:

1. Select the search page that you want to use.
2. Perform the search as follows:
  - For simple searches, enter the search parameters.
  - For advanced searches, optionally add in extra search parameters from an extensive list, then enter your search parameters.
  - To use views, invoke a previously saved search or view.
3. Click Go.
4. The results appear in the results region.

For details regarding the operations that can be performed for the results, see *Managing Item Instances in Oracle Installed Base*, page 3-2 and *Managing Systems*, page 4-2.

**Note:** If Oracle Endeca is installed and licensed in your environment, then refer to the *Oracle E-Business Suite Extensions for Oracle Endeca Integration and System Administration Guide* for detailed information about the Endeca enhancements to your product.

## Related Topics

[Performing Simple Searches](#), page 2-3

[Performing Advanced Searches](#), page 2-5

[Creating and Personalizing Views](#), page 2-7

[Using Views](#), page 2-9

## Performing Simple Searches

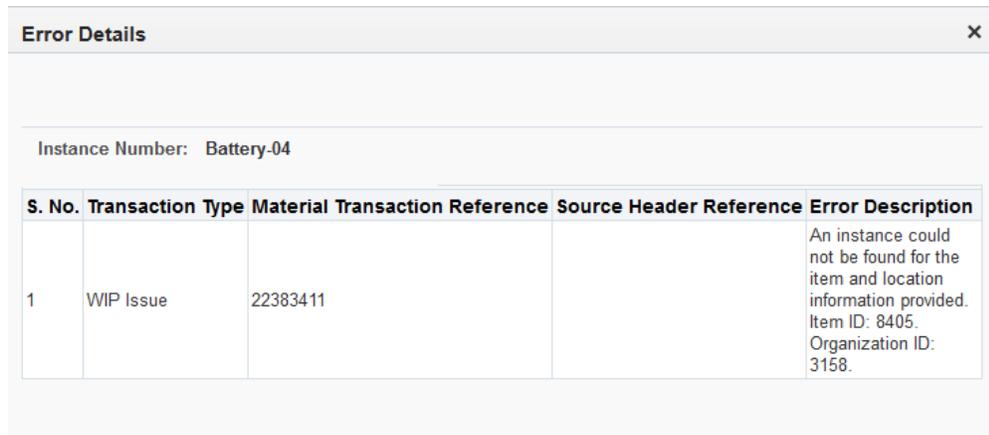
The Simple Search page enables you to use a standard set of the most common search parameters:

**To perform a simple search:**

1. Navigate to the Item Instance page.

The Item Instance Search page appears.

2. Enter a complete or partial value in any of the appropriate fields: Item Instance, Serial Number, Owner Party Name, Owner Account Number, Sales Order Number, Purchase Order Number, Contract Number, Agreement Name, System, and Asset Number.
3. Select the Show Expired Item Instances check box to specify the search include expired and active instances.
4. Select Show Item Instances Only to search for only parent/root item instances based on the search fields provided.
5. Select Show Errored Item Instances Only to search for only those serialized item instances that have existing errors.



S. No.	Transaction Type	Material Transaction Reference	Source Header Reference	Error Description
1	WIP Issue	22383411		An instance could not be found for the item and location information provided. Item ID: 8405. Organization ID: 3158.

6. Hover over the Alert icon for the item instance to view error details for the item instance.

Error Details				
Instance Number: Battery-04				
S. No.	Transaction Type	Material Transaction Reference	Source Header Reference	Error Description
1	WIP Issue	22383411		An instance could not be found for the item and location information provided. Item ID: 8405. Organization ID: 3158.

7. Click Go to perform the search.  
The results appear in the results region of the page.
8. Click Save Search to save your search as a view, so that you can reuse it later. For details, see [Creating and Personalizing Views](#), page 2-7.

## Related Topics

[Performing Advanced Searches](#), page 2-5

## Performing Advanced Searches

The Advanced Search page enables you to use a more extensive set of search parameters.

### Adding Extra Search Parameters

The Advanced Search page contains a set of standard search parameters. You can select additional columns from an extensive list of search parameters.

To add search parameters:

1. Click in the Add Another field, and select a column name from the list.

To perform an advanced search, click Advanced Search. You can select parameters such as:

- Currently in Country
- Installed in Location
- FA Location (available only if Oracle Fixed Assets is installed)

2. Click the Add button.

The page will be filtered with the new search parameters.

## Entering Search Conditions and Performing the Search

1. Select a condition operator.

The condition operators "is" and "is not" are available for all columns. In addition, for some key fields, you can select "contains", "starts with", or "ends with".

2. Select or enter a value to complete the condition.
3. Click Go to perform the search.

The results appear in the results region of the page.

## Viewing and Entering Descriptive Flexfields and Extended Attributes

You have the option to update the descriptive flexfield and extended attributes from Item Instance Search page.

1. For the selected item, choose DFF Update to view or update the descriptive flexfield information.

The DFF Update dialog box appears.

2. You can view the information in the Context Value field and any other custom fields created for this flexfield.

The screenshot shows a dialog box titled "DFF Update" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Context Value:** A dropdown menu currently showing "Electrical Parameters". Below the dropdown is a blue link labeled "Electrical Parameters".
- Testing Shift:** An empty text input field.
- ECC\_CMNT:** An empty text input field.
- Current:** A text input field containing the value "Test DFF Value 1".
- Voltage:** A text input field containing the value "Test DFF Value 2".
- QA Demo Field 3:** An empty text input field.
- QA Demo Field 4:** An empty text input field.

At the bottom right of the dialog, there are two buttons: "Save" and "Cancel".

3. Enter any new values, and save your work to return to the Item Instance Search page.

4. Click Apply to save the changes and add the new DFF values.
5. For the selected item, choose Extended Attribute Update to view or update the attribute information.

The Extended Attribute Update dialog box appears.

6. You can view the information in the Name, Value, and Category fields for this attribute.

Name	Value	Category
PH NO		
ECC_CAP		
AHL_TEMP_SERIAL_NUM	Test 1234	
AHL_MFG_DATE		

7. Select Table Diagnostics to view a set of system table expressions to obtain diagnostic information.
8. Click OK to return to the Extended Attribute Update.
9. Enter any new values, and save your work.
10. Click Apply to commit the changes made to extended attributes.

## Creating and Personalizing Views

Generally, you create a view when you save the search parameters for a simple or advanced search. You can also create a view with no previously entered search parameters.

The general view creation/update page is used to create a new view, duplicate a view, or update a view.

## Prerequisites

When creating a view:

- In the Simple Search or Advanced Search page, click Saved Search, (or in the Views page, Personalize) and then click Create View.

When duplicating a view:

- In the Personalize Views page, select a view, and then click the **Duplicate** button.

When updating a view:

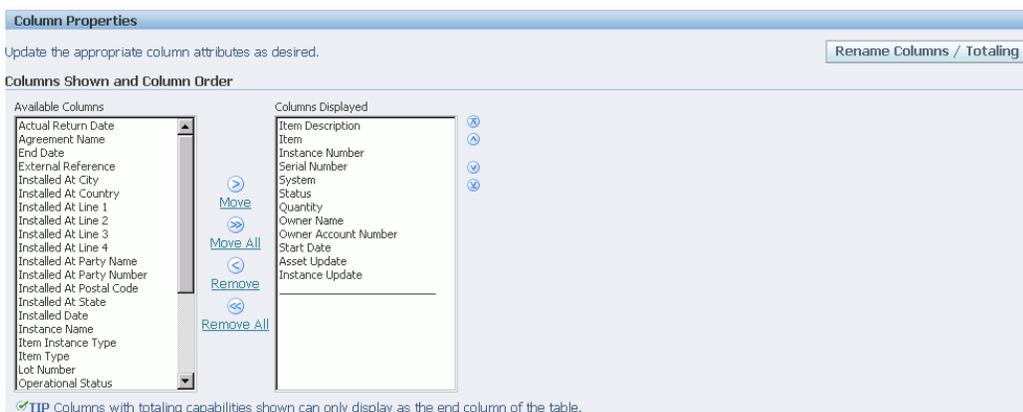
- In the Personalize Views page, select a view, and then click the **Update** button.

## Entering View Information

The general view of the Create View or Update View page is an Oracle Applications Framework page, which enables you to customize your item instance or system searches and the layout of the search results as follows:

- Name the view, if you are creating or duplicating a view.  
If you are updating a view, you can change the View name.
- Optionally change the default value of 10 rows to indicate the number of rows to display in the results region.
- If you want the current view to be used as the default view each time you log on, select the Set as Default option.

The Column Properties page appears.



1. Select the columns which you want to appear in the search results.  
The values in the Columns Displayed list show the default selection of columns.

Use the Move and Remove links and arrows to move selected columns between the Available Columns list and the Columns Displayed list.

Use the Up and Down arrows to arrange the sequence of the columns in the Columns Displayed list. The columns as arranged from top to bottom will be displayed from left to right in your search results.

2. If you want to change the headings for a selected column, or if you want to a total on numeric columns, click Rename Columns/Totaling and perform those changes in the page that appears.

Note that you can only select Totalling for the end columns of the list.

3. You can select whether you want the results sorted or not.

If you have chosen to sort the results, you can choose up to three columns to sort.

### Search Query to Filter Data in your Table

Search Query to Filter Data in your Table

Specify parameters and values to filter the data that is displayed in your table.

Current Location

Item Instance is [ ]

Item is [ ]

Owner Party Name is [ ]

Currently At Party Site Number is [ ]

Add Another Accounting Classification [Add]

Cancel Revert Apply and View Results Apply

1. If you accessed this page from a simple or advanced search page, this region displays the simple or advanced search parameters.

2. You can change the entries here, and add search parameters.

For each additional search parameter, select a column name from the Add Another drop-down list, and click the **Add** button.

3. For item instance views, indicate whether you want the view to show all item instances, expired and active, or only the active item instances .

### Saving the View and Optionally Performing the Search

After entering all the view information, click either Apply or Apply and View Results. The latter option applies the changes, then performs the saved search and displays the results of the search.

### Using Views

Use this procedure to invoke a previously saved search:

1. In the Views page, select a View.

2. Click the Go button.

The results appear in the results region of the page.

---

# Managing Item Instances in Oracle Installed Base

This chapter covers the following topics:

- Overview
- Searching for Item Instances
- Creating Item Instances
- Creating a Service Request from an Item Instance
- Viewing and Updating Item Instance Details
- Viewing Item Instance Details
- Updating Item Instance Details
- Tracking Serial Tagged Items in Oracle Installed Base
- Item Instance Details Processing Overview
- Item Instance Details Header - Processing Options
- Item Instance Tabs - Processing Options
- Shortcuts Panel - Processing Options
- Other Item Instance Details Panel - Processing Options
- Miscellaneous Item Instance Processing Options
- Managing General Attributes
- Managing Location Attributes
- Managing Associations
- Managing Configurations
- Layout and Usage of the Configuration Tab
- Oracle Installed Base Configuration Support

- Understanding Relationship Types
- Adding Child Item Instances
- Creating Child Item Instances
- Managing Counters
- Managing Notes
- Managing Maintenance Attributes
- Viewing Transactional History
- Viewing Item Instance History
- Viewing Item Instance and Asset Network Relationships
- Viewing Error Details for Serialized Item Instances
- Managing Operating Units
- Viewing Contracts
- Managing Orders and Pricing Attributes
- Viewing Service Requests
- Viewing Service Orders
- Managing Work Orders and Work Requests
- Splitting Quantities
- Transferring Ownership
- Viewing Impacted Contracts
- Copying Item Instances
- Generating the Customer Products Summary Report

## Overview

Oracle Installed Base provides lifecycle tracking of item instances. It provides the unique ability to query the inventory of available item instances, services, and assets tracked through Oracle Installed Base. If an item is set up as trackable, then an instance is created when the item is first received into inventory. Its ownership, status, and location are tracked for inventory movements, project issues, WIP issues, sales transaction, and return RMA. In addition, in Oracle Installed Base many properties can be tied to the instance to facilitate its usability in other applications. An example is tracking the party relationships for an item instance. An item instance can be owned by one party but serviced by another. For each party, many accounts and contacts can be defined and stored. In addition, multiple configurations can be set up for an instance to track the relationships that are possible. This is especially useful in the telecommunication environment where, for example, a part can be a component of a switch and connected to a circuit at the same time.

Item instances can be used to track non-tangible items such as telephone service. For example, a telephone number can have different services such as call waiting and conference call. These can all be defined as components of the telephone service. As such, contracts and warranty terms can be applied using CRM contracts, just as they can be applied to tangible items.

Oracle Installed Base supports various types of relationships through configuration constructed across the item instances. In the Graphical View - Instance Relationship page, you can view the graphical representation of item instance relationships, contacts, and accounts. Counters can be tied to item instances so that usage can be captured. For example, if an item instance is an electrical meter, then counters can be used to store the meter reading, thus recording the usage that in turn generates revenue.

Service requests and service orders can be viewed for item instances recorded in Oracle Installed Base, which provides a repository of information of their location, bill-to address, ship-to address, service contacts, and relationship to other items. You can view multiple products on a single Service Request page including the primary product and any newly added products.

## Serial Tagging and Oracle Installed Base Item Instances

Serial tagging is a method of assigning and tracking serial numbers for items which are not usually serial controlled and need serial tracking only for certain transactions. For example many items are not tracked when they are received or transferred within the organization. Such items are tracked only when they are actually put into use, such as being issued to a WIP job. Serial tagging helps in such cases so that users do not have to maintain serials at all times, and serials can only be generated when they are required. Serial tagging is used in the following Oracle Applications:

### 1. Oracle Inventory

- Used for items that have the serial control option of No Serial Control or At Sales Order Issue in the Master Items page.

You can assign serial numbers during pick confirmation for sales orders and internal orders. This expedites the downstream shipment process by reducing the number of tasks for the shipping operator.

- Used during return to vendor (RTV) transactions: Inventory completes the return transaction when the return order is shipped and confirmed.

If the item is tagged for serials at RTV, then Oracle Installed Base will create new serialized instances when serials are created in the Return form.

See *Oracle Inventory User's Guide*.

### 2. Oracle Work in Process: Used during WIP component issues and returns. See *Oracle Work in Process User's Guide*.

When the serial number has been assigned to component, the information is passed

to Oracle Installed Base. If an item instance was created prior to the serial number tagging (assignment), then the item instance is expired, and a new item instance is created. The new item instance will include the appropriate serial number assigned to the component or item.

3. Oracle Field Service: Used during task debriefing.

If serial tagging is used, Oracle Installed Base captures the serial for installed item by creating a new instance (with serial) and updates the configuration to show the installed instance. During item returns (recovery), Oracle Installed Base would expire the serialized instance and update the quantity of an existing instance upon receipt into inventory. If no serialized instance exists, Oracle Installed Base would create a new instance.

See *Oracle Field Service User Guide*.

## Related Topics

See Tracking Serial Tagged Items in Oracle Installed Base, page 3-12

## Searching for Item Instances

You can search for item instances in several ways. For more information on item instance search options and processes, see Item Instance and System Search Overview, page 2-1.

From the Search page, you can create, expire, export item instances, and update extended attributes and associated flexfields, and view errors associated with serialized item instances.

Select: Action   General   Go   Create   Expire   Export   ***													
Item Description	Item	Instance Number	Serial Number	System	Status	Quantity	Owner Name	Owner Account Number	Start Date	Instance Update	DFP Update	Extended Attribute Update	
<input checked="" type="radio"/> Batteries used for electric Fork Lifts	Fork Lift Battery	Battery1000	Battery1000		Latest	1	Vision Corporation		29-Oct-2002 15:05:25				
<input type="radio"/> Batteries used for electric Fork Lifts	Fork Lift Battery	Battery1005	Battery1005		Latest	1	Vision Corporation		29-Oct-2002 15:05:25				

## Processing the Search Results

From the search results, you can perform the following operations:

1. View item instance details by either of the following methods:
  - Select an item instance, select an Action from the list of values, and click Go.
  - Click the Item Description link.
2. You have the option to update item instance details by selecting the following icons:

- To update details for an item instance, click Instance Update.
  - To update descriptive flexfields, click DFF Update.
  - To update extended attributes, click Extended Attribute Update.
3. Save and Apply your work.

**Note:** In the Extended Attribute box, values are not saved and committed unless you click Apply. If you reopen the window without committing the changes, only the old existing values display. The window will not show the previously saved values until the Apply button is clicked.

If the Extended Attribute box is reopened and saved again, any previously saved values are ignored and only the last saved values appear.

## See Also

- Creating Item Instances, page 3-5

## Creating Item Instances

In the Create Item Instance page, you can create an item instance. The page has regions for general item information, instance specific attributes, owner information, current and install locations, item flags, and flexfields. If you are aware of another item instance in Oracle Installed Base that has many of the same values for this information, then use the copy item instance procedure, page 3-50 instead.

## Prerequisites

The item and item number for an item instance must already be defined in the Oracle Inventory Master Item window by selecting the field Track in Installed Base.

## General Information

Red asterisk fields are mandatory. An instance created online can belong to a party (external, such as a customer), an employee, or a vendor.

The Version Label and Status fields, if they are not populated, default to the values of the profile option CSI: Default Version Label and CSI: Default Instance Status respectively. Accounting classification defaults to Customer Product if it is not populated.

**Note:** In Oracle Installed Base, you cannot create a new item instance for network configurable instances.

## Item Region

### Organization Name

The Organization Name field defaults to the Service validation organization profile setup. You can select another organization from the list of values.

The inventory rules of the selected organization will be used to verify the item being created. The BOM from the organization will be used in the case of warranty creation.

### Item

You must select an Item from the list of values, that displays all the items in the current organization.

The Item Description and Item Revision appear after you select the item.

### UOM and Quantity

The options available to you for UOM and Quantity depend on whether the item you selected is serialized or not.

If the item is non-serialized:

- You must select a UOM from the list of values.
- The Quantity defaults to 1; you can change this to any value.

If the item is serialized:

- The value Each appears in the UOM field, which is set to read-only.
- You must enter a Quantity.

If you enter 1, you must create a single serial item instance in the single-record Instance Specific Attributes region; if you enter more than 1, a table appears in the Instance Specific Attributes region, where you must create the multiple serial item instances.

### System

You can optionally associate a system with an item instance.

For more information, see *Working with Systems*, page 3-5.

### Create Contract check box

The Create Contract check box is selected by default. When selected, this triggers the following processing:

- A warranty contract will be created with the current item instance, or with each of

the item instances, where you are creating more than one, if the item bill of material includes an item of contract type Warranty.

## Instance Specific Attributes Region

This region becomes a multi-record region if you select a quantity that is greater than 1 for a serialized item instance in the Item region.

The following considerations refer to each item instance that you are creating:

- **Instance Number**

You can enter the Instance Number, or Oracle Installed Base will create one for you. The Instance Number is a unique value.

- **Instance Description**

You can optionally enter an Instance Description.

- **External Reference** is a free-form field, which you can use to search for item instances.

- **Operational Status**

You can select from one of the seeded values, In Service, Out of Service, Not Used, and Installed.

- **Serial Number**

This field appears if the item is serialized. You can enter a value or select from the list of values.

For serialized items, Oracle Installed Base checks for the uniqueness of the serial number based on the setup of a serial control uniqueness parameter in the inventory organization.

## Owner Region

Each item instance must have an owner. The owner can be a party, an employee, or a vendor.

The amount of information that you must provide depends on the value you select for Party Type, as shown in the following table.

Party Type	Fields	Required?
Party	Party Name	Yes

Party Type	Fields	Required?
	Party Number	Yes
	Account Number	Yes
	Account Name	No
Employee	Employee Name	Yes
	Employee Number	No
Vendor	Vendor Name	Yes
	Vendor Number	No

**Note:** For owner, current location, and install location fields, the Party Number and Party Name lists of values are controlled by the option All Parties in the Oracle Installed Base Parameter setup:

- If All Parties is checked then list of values will show all parties.
- If All Parties is not checked then list of values will show owner party and related parties only.

## Current Location Region

You must specify a current location when you create an item instance. Oracle Installed Base provides separate Current and Install location attributes. These accommodate situations where both are required.

The amount of information that you must provide depends on the value you select for Party Type, as shown in the following table:

Type	Fields	Required?
HZ Location	Address	Yes
Party	Party Name	Yes, if Party Number not specified

Type	Fields	Required?
	Party Number	Yes, if Party Name not specified
	Location Number	Yes, if Address not specified
	Address	Yes, if Location Number not specified
Internal Site	Address	Yes
Vendor Site	Address	Yes

## Install Location Region

For the install location, you can either select the check box Same as Current Location (except if you selected Internal Location for the Current Location Type), or you can select a Type and other fields, similar to the Current Location options.

**Note:** Internal Site is not an option for install locations.

Installation date defaults to the current date, if not populated. This field can be populated with past, current, or future date. This date is tied to the warranty start date in a service contract if a warranty is associated with the item BOM.

## Other Regions

### Item Instance Type

This represents the type of the instance. You can set up your own instance types. The values are populated from the lookup type CSI\_INST\_TYPE\_CODES. For more information, see the *Oracle Installed Base Implementation Guide*.

### Version Label

Version Label is a free-form field, except when you create an item instance and leave the field blank - in this case, the value specified in the profile option CSI: Default Version Label is used.

The main use of a version label is to give a descriptive name for a timestamp. Each time you change a version label, and commit the change, the item instance details are timestamped, and you can query and view the information taken at that point in time.

### Install Date

The Install Date defaults to the current date and time, if not populated. This field can be populated with a past, current, or future date. The install date becomes the warranty start date in a service contract if a warranty is associated with the item BOM.

### **Creation and Expiration Dates**

You can enter any dates in these fields.

## **Flexfields Region**

Descriptive flexfields are used to store extra information. They must first be set up on the DFF setup. You can define up to 15 fields.

## **Maintenance Attributes Region**

This region is shown if the selected item is an Oracle Enterprise Asset Management item type, that is, Asset Group, Rebuildable.

The maintenance attributes you can enter are Department, WIP Account Class, Area, Criticality, Category, Parent Asset Number. These attributes are for use by Oracle Enterprise Asset Management.

For more information about these attributes, see *Managing Maintenance Attributes*, page 3-33

## **Guidelines**

After an instance is created with an item instance number, a *Item Instance Details* page appears for you to enter any additional information such as party and contact. For more information, see *Item Instance Details Processing Overview*, page 3-16

## **Creating a Service Request from an Item Instance**

In the *Create Service Request* page, you can create a service request for the current item instance. The item instance information appears as the page opens. You must enter a Summary of the problem in the *Problem Description* region.

### **To create a service request from an item instance:**

1. Navigate to the **Item Instance Search** page (Oracle Installed Base Agent User, Item Instances).
2. Search for a specific item instance, and click the Instance Update icon.
3. Click **Go**, and the **Update: Item Instance** page appears.
4. Click the Create Service Request link under Shortcuts.

Shortcuts
<a href="#">Create Item Instance</a>
<a href="#">Copy Item Instance</a>
<a href="#">Create Service Request</a>

Other Item Instance Details
<a href="#">Transaction History</a>
<a href="#">Item Instance History</a>
<a href="#">Operating Units</a>
<a href="#">Contracts</a>
<a href="#">Orders</a>
<a href="#">Service Requests</a>
<a href="#">Service Orders</a>
<a href="#">Assets</a>
<a href="#">Work Orders</a>
<a href="#">Work Requests</a>
<a href="#">View Relationship Graphically</a>

The **Create Service Request** page appears.

5. Enter or select information such as:

**Contact Information**

- **Contact Type:** Classifies the customer problem. Selecting a value in the Type list affects the assignment of this service request to other agents for resolution, and determines who can view and update the service request.
- **Status:** Specifies where the service request is in its progress towards resolution. Selecting the correct status is important because some statuses can lock the service request so it cannot be updated, or launch an approval process.
- **Severity:** Indicates the importance of this service request. The Severity of a service request can determine its priority in automatic work assignments.

**Product Information**

- **Category Desc (description):**
- **Item**
- **Item Instance**

**Problem Description**

- **Summary:** Describes that reason for the service request. This is a required field.

6. Click **Apply**. A confirmation message appears

7. You can also update the service request from within the item instance.  
Select the Update Service Request link in the confirmation window. Make any edits as necessary.
8. After updating the details, click one of the following options:
  - **Apply**
  - **Cancel**
  - Navigate back using the breadcrumbs on the page

## Viewing and Updating Item Instance Details

This section consists of the following topics:

- Viewing Item Instance Details, page 3-12
- Updating Item Instance Details, page 3-12

## Viewing Item Instance Details

In the Item Instance details page, you can view, but not update, details of the item instance and related objects. You can view errors associated with serialized items. For more information, see *Item Instance Details Processing Overview.*, page 3-19

## Updating Item Instance Details

In the Item Instance details page, you can update many of the item instance attributes. For more information, see *Item Instance Details Processing Overview*, page 3-16.

**Important:** Standard Oracle functionality does not allow user updates through Installed Base when the item instance resides in Inventory. This prevents data corruption between Inventory and Installed Base. When an item instance resides in Inventory, any change to the record should be done with an Inventory transaction.

## Tracking Serial Tagged Items in Oracle Installed Base

Serial tagged items can be tracked using Oracle Installed Base. Serial tagging occurs at the organization level. You can automatically generate the serial numbers or enter them manually.

Before you can use serial tagging, you must perform some setup tasks.

## Prerequisites

- To ensure that items can be serial tagged:

1. Define the item using the Master Item page in Oracle Inventory.
2. Set the Serial control option to *No Control* or *At Sales Order Issue*.

**Important:** An instance is created at the time of shipping for either option. The *shipment* of the picked item is used as the basis for the IB instance creation.

3. Select the At Sales Order Issue option if you want to assign serial tagging based on material issues and picking.

Navigate to the Transaction Types page to assign serial tagging (Tools > Serial Tagging Enhancements). You can select one or more of the following:

- WIP Issue
- Return to Vendor
- Sales Order Pick
- Internal Order Pick
- Field Service Usage

4. Assign the item to the appropriate organization.

After you have defined and assigned the item, you can perform one of these transactions and tag the item with a specific serial number at the organization level:

- Process the picking process for a sales order or internal sales order. See *Oracle Order Management User's Guide* for more information.
- Process a task debrief in Oracle Field Service. See *Oracle Field Service User Guide*.
- Process a WIP component issue or return. See *Oracle Work in Process User's Guide*.
- Return an item to a vendor.

You can serial tag items which are not serial controlled when owned by the organization, but are serial tagged when they are returned to the vendor.

Oracle Installed Base will perform the following actions:

- **Sales Order Pick**

For items that are serial tagged for the Sales Order Pick transaction, Installed Base will start serial instantiation for the corresponding item instances only at the time of Sales Order Issue transactions. The reason for this approach is as follows:

The serial number is entered while performing the pick transaction in Inventory to eliminate an additional data entry step during the picking process. When the Pick Release process is run for such items, the allocation would occur only at the **quantity** level and users will be asked to indicate the serial numbers during the picking process. This action enables you to enter a new serial number or select a serial number from the previously generated set of serial numbers.

The serial tagged items are also available for the Sales Order Issue transaction. Serial numbers are available for update, can be corrected or disassociated because some serial numbers may not be required for shipment. In these cases, the serials in the Sales Order Issue transaction are the correct serials to be captured and instantiated in Installed Base.

- **Return Material Authorization (RMA)**

Items that are serial tagged at Sales Order Pick should be returned with the serial number references during the RMA process. When these serials are honored in RMA, the corresponding customer owned serial instance should be considered for further impacts. The impacted serial instances will be marked as RETURNED, and the quantity is incremented on the Inventory instance in Installed Base.

- **ISO Pick**

For items that are serial-tagged for the Internal Order Pick transaction, Installed Base will start serial instantiation for the corresponding item instances only at the time of Internal Sales Order Issue transactions. The reason for this approach is as follows:

The serial number is entered while performing the pick transaction in Inventory to eliminate an additional data entry step during the picking process. When the Pick Release process is run for such items, the allocation would occur only at the **quantity** level and users will be asked to indicate the serial numbers during the picking process. This action enables you to enter a new serial number or select a serial number from the previously generated set of serial numbers.

- **ISO Receipt**

Items that serial tagged at Internal Sales Order Pick should be received with the serial number references during the ISO Receipt process. When these serials are honored in the ISO Receipt process, the corresponding serialized instance should be considered for further impacts. The impacted serial instances will be marked as RETURNED, and the quantity incremented on the Inventory instance as per the serial control definition in the receiving organization.

- **Task Debriefing in Oracle Field Service**

If the item is serial-tagged and Oracle Field Service is enabled, users will select the item from the list of values or enter a serial number. If you enter a serial number, the debrief posting program updates the Installed Base instance accordingly. You will enter the serial if it is already generated or the enter a value into the serial field which will be accepted, if no serial number exists.

**Item Returns During Task Debriefing**

If the instance was issued during task debrief and has a serial number, Oracle Installed Base would expire the serialized instance and update the quantity of an existing instance upon receipt into inventory. The instance information would be matched based on a combination of organization, owner, subinventory, and so on. If no serialized instance exists, Oracle Installed Base would create a new instance.

See *Oracle Field Service User Guide* for more information regarding task debriefing.

- **WIP Component Issues and Returns:**

If assemblies have been defined for serial tagging, you must enter serial numbers during the following transactions:

- Move and Complete or Complete assembly (backflush for Assembly Pull)
- Move Assembly (backflush for Operation Pull items)
- WIP Component issue (for Push items)
- Assembly Scrap
- Reject
- Component returns

Oracle Installed Base addresses item instances differently based on the component transaction.

- *WIP Component Issues*

Installed Base will build the configuration through both standard and nonstandard WIP jobs (if both the parent and child instances are serialized). Issued components would have accounting classification as Customer Product and an operational status of Not Used.

- *WIP Component Returns*

If the items are serial tagged for WIP Issue, you must enter serial numbers for WIP Component Return transactions. The system verifies that the instances were issued and are being returned, that is, the serials are validated when returned to inventory. If the serial tagged items are the ones which are being

returned, then system will not track the serials after receipt into inventory.

Installed Base will expire such instances and increase the quantity of available instance which has the same combination of organization, subinventory, owner, and so forth.

For example, if there was a component quantity of 1 when it was issued to a job, then Installed Base will expire that instance, create a new instance for serial tagging, and issue it to WIP (accounting classification is WIP and operational status Not Used). If the component is returned with same serial, Installed Base will expire the serialized instance and reuse the expired instance (which is without a serial) and update the quantity.

When the assembly is returned due to Reject Assembly or Scrap Assembly transactions, the issued components (which were tagged during issue) are returned. Installed Base would expire the instances with serials and update the received quantity to the active instances that have the same combination of organization, subinventory, owner, and so forth.

- **Component Returns to Vendor (RTV)**

For the item being returned to a vendor, the quantity of the existing serial would be split, and Installed Base will create new instances for each of the serials generated. Users must enter serial numbers for the items which are serial tagged as RTV. Serials can be auto-generated or entered directly. If the instances are not serial tracked, then the system reduces the quantity of the instance with the return quantity. Users would then be able to use the shipping integration or create a debit memo or open and receive the return quantity later.

If the shipping integration is used, when Oracle Inventory completes the return transaction, Oracle Installed Base will expire the instance. The transactions history would reflect the returned item as Inventory and a Source Transaction Type as Return To Vendor.

## Item Instance Details Processing Overview

The Item Instance details page shows all the details for an item instance, and acts as a general item instance "workbench".

The Item Instance details page has four general areas, each of which has a particular set of processing options:

- Item Instance Details Header, page 3-17
- Item Instance Tabs, page 3-17
- Shortcuts Panel, page 3-18
- Other Item Instance Details Panel, page 3-18

There are also miscellaneous item instance processing options, page 3-19 that apply in certain circumstances only:

## Item Instance Details Header - Processing Options

### System

You can update the system for an item instance. For more information about systems, see the chapter Working with Systems.

### Serial Number

You can change the Serial Number of a serialized item instance if all of the following conditions are true:

- The item instance must not be in inventory, in transit, or in a project.
- There must be no Oracle Installed Base transactions for the current serial number that require processing.
- There must be no Oracle Enterprise Asset Management work orders created for the serialized item instance.
- Serial genealogy must not exist for the serial number.

In addition, the new serial number you select must not yet be transacted, that is, it may be a new serial number, or it may have been defined but not yet used in a transaction.

## Item Instance Tabs - Processing Options

Both when viewing and updating item instance details, the attributes most closely associated with the item instance are available in the tabs spread across the Item Instance details page.

Some tabs only appear if the item instance is of a particular type, such as the Maintenance Attributes tab, which only appears for asset group item instances.

The tabs enable the following item instance related operations:

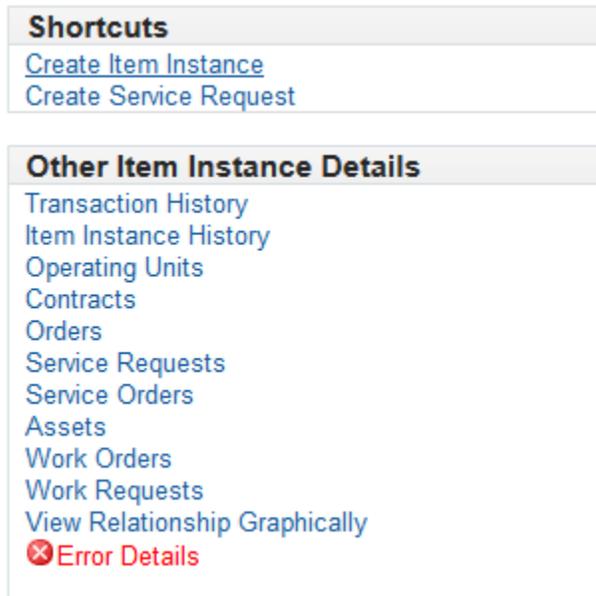
- Managing General Attributes, page 3-19
- Managing Location Attributes, page 3-19
- Managing Associations, page 3-23
- Managing Configurations, page 3-25
- Managing Counters, page 3-19
- Managing Notes, page 3-32

- [Managing Maintenance Attributes](#), page 3-33

## Shortcuts Panel - Processing Options

The Shortcuts panel, available only if you are updating an item instance, contains links that enable the following item instance related operations:

- [Creating an Item Instance](#), page 3-5
- [Creating a Service Request from an Item Instance](#), page 3-10



## Other Item Instance Details Panel - Processing Options

The Other Item Instance Details panel contains options that enable you to view, and in some cases to update, objects related to item instances, such as orders, service contracts, service orders. You can also view historical information about item instances and transactions affecting item instances. In addition, you can view error details for serialized item instances.

The options in the Other Item Instance Details panel enable the following item instance related operations:

- [Viewing Transactional History](#), page 3-35
- [Viewing Item Instance History](#), page 3-37
- [Managing Operating Units](#), page 3-44

- Viewing Contracts, page 3-45
- Managing Orders and Pricing Attributes, page 3-45
- Viewing Service Requests, page 3-46
- Viewing Service Orders, page 3-46
- Managing Work Orders and Work Requests, page 3-46
- Viewing Item Instance and Asset Network Relationships, page 3-39
- Viewing Error Details for Serialized Item Instances, page 3-43

## Miscellaneous Item Instance Processing Options

### Splitting a Quantity, page 3-47

A Split Quantity button is displayed for customer instances with quantity greater than 1, strictly for non-serialized items.

### Transferring Ownership, page 3-48

If the owner of the item instance is a customer, the Change Owner button is available for you to transfer ownership.

### Viewing Impacted Contracts, page 3-49

When you perform certain updates on an item instance, they may have an impact on associated contracts. You can view the impacted contracts to decide whether or not to proceed with the item instance updates.

## Managing General Attributes

In the General tab, you can view and modify general information about an item instance.

## General Information

An instance is available for modification only when it is a customer item instance. An instance in inventory, in WIP, or in a project cannot be updated in Oracle Installed Base. All changes for these instances should originate from associated Oracle application modules.

If the item instance is a network-configurable item instance, you will be able to view and update the network configuration through the Additional Attributes.

## Notes

### External Reference

You can modify this free-form field to any value.

### New Version Label

New Version Label is a free-form field, except when you create an item instance and leave the field blank - in this case, the value specified in the profile option CSI: Default Version Label is used.

The main use of a version label is to give a descriptive name for a timestamp. Each time you change a version label, and commit the change, the item instance details are time-stamped, and you can query and view the information taken at that point in time.

### Instance Name

An instance name is a method for referring to a specific instance or a group of item instances, and applies to the network configuration item instances in Oracle TSO. For example, to refer to the specific instance of a network router located at 100 Main Street, you can give it an instance name such as "Router-100 Main Street, Bos, Ma". Advanced Search functionality allows querying by Instance Name.

### Quantity and UOM

These fields are read-only for serialized items. For non-serialized items, you can change Quantity.

### Item Instance Type

Item Instance Type is a tag attribute for item instances, which you can use in advanced item instance searches.

### **Condition**

The read-only Condition field is populated from the material status code from Oracle Inventory, such as New, Old, and Used. It indicates the condition of an item instance in the Oracle Warehouse Management application.

### **Accounting Classification**

#### **Operational Status**

Select Install, In Service, Out of Service, or Not Used.

#### **Status**

This field is derived from a user-extendible instance statuses list of values table required during the setup of Oracle Installed Base. It indicates the current status of the instance, for example, Created, Repaired, and Returned for Repair. The instance Status field is automatically updated for Oracle Order Management shipment transactions or RMAs. For these transactions, the Status field is derived from the corresponding Oracle Installed Base transaction subtypes selected in the Installation Details window for Oracle Order Management transactions.

This field is also updated when the asset is deployed, retired or installed. For more information on asset deployment, see *Oracle Asset Tracking User's Guide*.

### **Item Instance Date Fields**

Often, the Install Date for an item instance is not known when the item is being shipped. It may be updated later.

For item instances related to service contracts, Oracle Installed Base coordinates a change of Install Date with Oracle Service Contracts to affect the warranty start date based on the specific setup in Oracle Service Contracts. Please refer to the Oracle Service Contracts documentation for further details.

To expire an instance, enter the Expiration Date. If you do not enter a status, then the default termination status is used.

Shipped On Date and time are populated from shipment transactions.

Return By Date and time are populated from transaction details and subsequently removed upon RMA receipt.

Actual Return Date and time are defaulted from Oracle Inventory receiving transactions and subsequently removed upon shipment.

## **Instance Flexfields**

You must click the Show Instance Flexfields link to view these fields.

Descriptive flexfields are available on this page. However, they must be set up as Item Instance Flexfields before they can be used for update on this page.

## Additional Attributes

You must click the Show Additional Attributes link to view these fields.

Additional attributes are user-definable attributes, which can be set up for an item, an item category, an instance, or for a global install base. Refer to the *Oracle Installed Base Implementation Guide* for the setup of additional attributes.

In the General tab, click the Show Additional Attributes link to view and modify the additional attributes. If you are in update mode, you can change the values of the additional attributes.

If the item instance is a network-configurable item instance, you can click the **Update in Configurator** button to update the network configuration.

## Managing Location Attributes

In the Location tab, you can view and modify location information about an item instance.

If the item instance is a network-configurable item instance you will be able to view and update the network configuration through the Additional Attributes.

For details of the Current Location and Install Location fields and what values you can select for these fields, see the sections Current Location Region , page 3-8 and Install Location Region , page 3-9 of the topic Creating Item Instances.

## Bill To and Ship To Location Regions

If the item instance is sold or leased, the Bill To and Ship To locations appear in their respective page regions. The data is derived from the Owner and the Account Number field values.

Item	A592689	System	<input type="text"/>
Item Description	Envoy Standard Laptop	Owner	Total Internet
Serial Number	ENV5335	Account Number	1008

<b>General</b>	<b>Location</b>	<b>Associations</b>	<b>Configuration</b>	<b>Counters</b>	<b>Notes</b>
----------------	-----------------	---------------------	----------------------	-----------------	--------------

<b>Current Location</b>		<b>Install Location</b>	
Type	HZ Location	<input type="checkbox"/> Same as Current Location	
* Address	123 Rock Harbor Lane	Type	HZ Location
	US	* Address	MIG
			US

<b>Bill To Location</b>		<b>Ship To Location</b>	
Party Name	Total Internet	Party Name	Total Internet
Party Number	1008	Party Number	1008
Site Number	1225	Site Number	1225
Address	123 Rock Harbor Lane	Address	123 Rock Harbor Lane
	Foster City, CA, US, 94404		Foster City, CA, US, 94404

## Managing Associations

The Associations tab shows the current associations for an item instance, and for each association, the contacts and accounts. Each item instance must have an owner - the Associations tab shows this as an Owner association.

You can add more associations, and add contacts and accounts to the owner and other associations. In order to do so, the party types, accounts types, contacts types, and relationship types to be used must have been defined as part of the Oracle Installed Base setup. Refer to the *Oracle Installed Base Implementation Guide* for setup details.

In the Associations tab, you can also update and remove associations, contacts, and accounts.

## Notes

1. As an example, you can define relationship types such as Distributor, Meter Reader, and End User for party, account, and contact relationship types. For each party defined in the party relationship, multiple accounts/account types and contact/contact types can be defined.
2. A party can be of type Party, Employee, Vendor, Group, or Team. Team and Group party types can be marked as Primary or Preferred.
3. Contacts can be from the party contact list or from employees. Each contact can be

set up as Preferred or Primary. Preferred contacts are used when you select service personnel for task assignment.

Item AS92689 System

Item Description Envoy Standard Laptop Owner Total Internet

Serial Number ENV5335 Account Number 1008

**General** Location Associations Configuration Counters Notes

**Add Association**

Select	Association Name	Association Source	Association Number	Active From	Active To	Classification	Update	Remove
<input checked="" type="radio"/>	Owner	Total Internet	Party	1008	16-Nov-1998 12:33:06			

**Total Internet**

**Contacts**

**Add Contact**

Details	Association Name	Contact Name	Contact Type	Classification	Telecommunication	Active From	Active To	Update	Remove
<a href="#">+ Show</a>	Bill To	Bill Bush	Party			04-Jul-2008 03:40:20			

**Accounts**

**Add Account**

Association	Account Number	Account Name	Active From	Active To	Update	Remove
Owner	1008	Total Internet	16-Nov-1998 12:33:06			

### Steps (to add an Association):

1. In the Associations tab, click Add Association.
2. In the Add Association page, select the Party Type, Party Name, and Party Number.
3. Select the Relationship Type.
4. Optionally enter Start and End dates.  
Start Date defaults to the current date. Specify End Date - current or future date - if you want the association to end on that date.
5. Click Apply.

### Steps (to add a Contact):

You can define multiple contacts for a single party.

1. In the Associations tab, select an Association, and click Add Contact.
2. In the Add Contact page, select the Contact Type, Party Name, and Party Number.
3. Select the Relationship Type.

4. Select a Classification.
5. Optionally enter Start and End dates.  
Start Date defaults to the current date. Specify End Date - current or future date - if you want the contact relationship to end on that date.
6. Click Apply.

#### **Steps (to add an Account):**

You can define multiple accounts for a single party.

1. In the Associations tab, select an Association, and click Add Account.
2. In the Add Account page, select the Account Name, and Account Number.
3. Select the Relationship Type.
4. Optionally enter Start and End dates.  
Start Date defaults to the current date. Specify End Date - current or future date - if you want the account relationship to end on that date.
5. Click Apply.

## **Managing Configurations**

In the Configuration tab, you can view item instance configurations by relationship type and version, expire relationships, and add and create child items.

In addition, if the item instance is a network-configurable item instance, you can click the **Update in Configurator** button to update the network configuration.

The ability to track item instances down to the component level is especially important in field service environments, where components are often exchanged or repaired as part of maintenance agreements. As-built and as-shipped item instance configurations can also be tracked.

Online configuration support is restricted to Component-Of and Connected-To instance-to-instance relationships.

The topics in this section are as follows:

- Layout and Usage of the Configuration Tab, page 3-26
- Oracle Installed Base Configuration Support, page 3-27
- Understanding Relationship Types, page 3-30

- Adding Child Item Instances, page 3-31
- Creating Child Item Instance, page 3-32

## Layout and Usage of the Configuration Tab

The screenshot shows the Oracle Configuration Tab interface. At the top, there are tabs for 'Item Instances', 'Systems', and 'Transactions'. Below this, the current instance is identified as 'Item Instance: Item Instances >' with an 'Update : Item Instance : 10000' button. A note indicates that an asterisk (\*) denotes a required field. Action buttons include 'Cancel', 'Change Owner', 'View Impacted Contracts', 'Save', and 'Apply'.

Item details include: Item AS92689, System (empty), Item Description Envoy Standard Laptop, Owner Total Internet, and Serial Number ENV5335. Account Number is 1008. Navigation tabs include 'General', 'Location', 'Associations', 'Configuration', 'Counters', and 'Notes'.

The 'Configuration' tab is active, showing 'Relation Type' as 'Component Of' and 'Version' as 'CURRENT'. A 'Select Object' dropdown is set to 'Expire Relationship'. Below this are links for 'Select All', 'Select None', 'Expand All', and 'Collapse All'.

Select Focus	Item Instance	Item Description	Item	Serial Number	Quantity	Status	Add Child	Create Child
<input type="checkbox"/>	10000	Envoy Standard Laptop	AS92689	ENV5335	1	Latest	+	
<input type="checkbox"/>	100000	Sentinel Standard Desktop	AS54888		1	CREATED	+	
<input type="checkbox"/>	100004	Sentinel Standard Desktop	AS54888		1	CREATED	+	

Additional panels on the right include 'Shortcuts' (Create Item Instance, Copy Item Instance, Create Service Request) and 'Other Item Instance Details' (Transaction History, Item Instance History, Operating Units, Contracts, Orders, Service Requests, Repair Orders, Assets, Work Orders, Work Requests, View Relationship Graphically). Action buttons at the bottom include 'Cancel', 'Change Owner', 'View Impacted Contracts', 'Save', and 'Apply'.

The Configuration tab displays the item instances in a configuration for a relationship type and a version. For details of relationship types, see Understanding Relationship Types, page 3-30.

You can also view configurations based on version label.

**Note:** The Update in Configurator button appears only if the main item instance is a network configurable instance.

In this section, the following terminology applies:

- *Parent* denotes an item instance in a configuration level above the currently-described item instance.
- *Child* denotes an item instance in a configuration level below the currently-described item instance.

### How the Configuration Hierarchy Appears in the Configuration tab

The function of the tabular grid in the main part of the page is to display the current item instance and its child instances. Initially, only the child instances that are one level below the current instance are shown.

You can expand or collapse parts or all of the configuration hierarchy in the grid.

Above the grid is an untitled parent line that displays all the parent item instances, if

any, above the current item instance in the configuration. The parent instances appear as a sequence of links.

For example, if the configuration consists of a 5-level hierarchy of item instances A>B>C>D>E, and the current item instance is C, the Configuration tab initially displays the following:

- The "parent line" displays the instance links A>B.
- The grid displays C and D, with an Expand icon (+) beside D to enable you to view its lower level instances.

Item instances in the grid that have children appear with either an Expand (+) or a Collapse (-) icon to enable you to view or hide the children.

The entries for item instances in the grid, other than the top entry, that have child instances, appear with a Focus icon.

### **Expanding and Collapsing the Hierarchy**

Within the grid, you can click the Expand (+) or Collapse (-) icon on an item instance to enable you to view or hide the children.

Click Expand All to show all the instances from the current top entry downwards.

Click Collapse All to reduce the grid to the current top entry only.

### **Focusing**

The object of focusing is to rearrange the hierarchy by moving an item instance to the top of the grid.

You can focus on any item instance of the configuration hierarchy:

- For an instance in the grid, click the Focus icon for that instance.
- For an instance in the parent line, click the link of the item instance that you want to focus on.

The "parent line" automatically adjusts to display the instances above the new top entry.

### **Expiring Relationships**

You can expire relationships for one or more item instances, as follows:

1. Select each of the individual instances, or click Select All.
2. Click Expire Relationship.

## **Oracle Installed Base Configuration Support**

Oracle Installed Base provides the ability to create and manage configurations based on relationships between item instances. When an item is a component of an assembly, two instances are related in a Component-Of relationship. The resulting configuration can

be viewed, changed, and terminated using Oracle Installed Base.

Abbreviations used in this section are as follows:

- Bill of materials (BOM)
- Assemble to order (ASO)
- Pick to order (PTO)
- Work in process (WIP)

Oracle Installed Base creates and supports Component-Of configurations in several ways:

- BOM-based configuration at sales order shipment
- ATO configuration at sales order shipment
- PTO and kit configurations at sales order shipment
- WIP assembly completion (including post-completion transactions)
- Oracle Installed Base Open Interface transactions

You can also add child instances, page 3-31 and create child item instances to add to a configuration, page 3-32.

## Restrictions

### **BOM-Based Configuration at Sales Order Shipment**

Configurations are created based on the profile option CSI: Explode BOM = Yes.

BOM explosion creates a multi-level configuration, or indented BOM, based on the profile option CSI: BOM Explosion Level. For example, if this profile value equals 5, then BOM is exploded up to five levels during the configuration build. The components must be marked Oracle Installed Base trackable.

#### **Rules and notes:**

- BOM explosion is only created for Item instance Qty = 1.
- In the case of serialized components, item instances are created without serial numbers.

The serial number field is available to a user for update. In this case, for future transactions such as RMA of item instances, the user must provide the serial number.

### **ATO Configuration at Sales Order Shipment**

A configuration is created for an ATO model, configured item, ATO option class, and

components.

**Rules and notes:**

- An ATO model, configured item, ATO options, and components must be marked Oracle Installed Base trackable.
- Non-shippable items, such as model and option classes, must be fulfilled in order to be represented in a configuration.

**PTO Configuration at Sales Order Shipment**

A configuration is created for a PTO model, included items, PTO option class, and components.

**Rules and notes:**

- A PTO model, included items, PTO option class, and components must be marked Oracle Installed Base trackable.
- Non-shippable items, such as model and option classes, must be fulfilled in order to be represented in a configuration.

**Kit Configuration at Sales Order Shipment**

A configuration is created for a kit and components items.

**Rules and notes:**

A kit and component items must be marked as Oracle Installed Base trackable.

**Configuration at WIP Assembly Completion and Allocation**

For discrete jobs, configurations are created at WIP assembly completion based on two key parameters, Auto Allocate = Y and Genealogy enabled.

Configurations are created at assembly completion using work order-less WIP completions transactions.

**Rules and notes:**

- Configurations are only built for assemblies serialized at receipt.  
There is one exception to this rule: In a repair/upgrade scenario, if serial number A is issued to a job that upgrades the same item or serial number to a new serial number B, then the original serial number, A, is not created as a component of itself, the new serial number B.
- For Auto Allocate = Y and Genealogy not enabled, configurations are built based on job requirements.
- If Genealogy is enabled, configurations are built based on parent-child genealogy.
- Configuration support includes post-completion transactions.  
Components are added or removed from existing configurations following post-

completion transactions. An example is WIP component issue or return and WIP negative component issue or return.

#### **Oracle Installed Base Open Interface Transactions**

Oracle Installed Base supports the creation and maintenance of Component-Of item instance relationships using Open Interface.

#### **Integration with Oracle Order Management**

Oracle Installed Base is integrated with Oracle Order Management and facilitates replacement of item instances using Replaced-By and Replacement-For relationship types in the Installation Details page available in Sales Order pages. These relationship types are view-only.

## **Understanding Relationship Types**

With Oracle Installed Base, you have a flexible way of maintaining six different types of instance-to-instance relationships. These relationship types are seeded in the relationship type table, which you cannot extend.

Oracle Installed Base support the following relationship types:

- Component-Of
- Connected-To
- Upgraded-From
- Member-Of
- Installed-On
- Provided-By
- Replacement-For
- Replaced-By

## **Restrictions**

#### **Component-Of**

This relationship type is used to maintain the configuration or structure of an item instance. You will use this for most of your needs in the management of item configuration. This is the only configuration type that can be created from Oracle applications from the bill of materials (BOM), assemble-to-order (ATO) model, pick-to-order (PTO) model, Kit model, and work-in-process (WIP) integration.

The Component-Of relationship type is the only one that flows down the current location and install location from parent to child. From Oracle applications, only the creation of serialized top-assembly is supported, with the exception of ATO and PTO

models. Online creation of Component-Of relationships is supported for non-serialized top assembly as well. All configuration creation is allowed for customer item instances only. Another constraint is that the type does not support many-to-many and cyclic relationships.

For example, the following items are parts of a personal computer:

- Motherboard
- CPU
- I-O Boards
- RAM
- Monitor
- Keyboard
- Mouse

#### **Connected-To**

This relationship type can be used to maintain the connection scheme of a group of item instances. In other words, it can be used to represent a network of connected items. No rule controls this relationship type, unlike the case of the Component-Of relationship type.

An example of this type of relationship is the representation of a computer network in which different computers and network equipment are connected to each other through Connected-To relationships, as in the following:

- The john-pc-01 computer has Connected-To relationships with vivek-sun and jenny-pc.
- The jenny-pc computer has Connected-To relationships with print-server-05.2 and ST-Tool-Server network equipment.

Currently this relationship type is utilized in the Oracle TSO solution for the telecommunications industry. The type is used to support network service configuration and reconfiguration and is integrated with Oracle Configurator in the context of the Oracle TSO solution. This is the only situation in which Oracle Installed Base supports cyclical relationships.

## **Adding Child Item Instances**

Use this procedure to add one or more child item instances to an item instance in a configuration.

In the Add Child page, search for the item instances that you want to add, select them, and click Apply to add them to the selected item instance in the Configuration tab grid

row.

## Creating Child Item Instances

Creating a child item instance involves both creating an item instance and defining it as a child in a relationship. In the Create Item Instance page, you can create an instance as a child to the one selected from the configuration page. This page is the same as the Create Item Instance page. The page has regions for general item information, owner information, current location, item flags, and item views.

### Prerequisites

The item and item number for an item instance must already be defined in the Oracle Inventory Item Master with Track in Installed Base selected.

#### Steps:

1. In the Item Instance Configuration page, click the Create Child icon for the item instance to which you want to create a child item instance.
2. Enter the fields for the child item instance.  
For more information, see *Creating an Item Instance.*, page 3-5
3. After you have entered the fields and clicked Apply, the child item instance is added to your configuration.

## Managing Counters

The Counters tab shows the existing counter instances for the item instance.

You can enter a counter reading directly in each counter row, or click Show to view and update extra information about the counter reading.

You can also add one or more counter instances to the current item instance.

For more information, see the following topics:

- *Managing Counter Instances*, page 13-2
- *Capturing Counter Readings in Oracle Installed Base*, page 13-6

## Managing Notes

In the Notes tab, you can view and update notes.

When you add a note, you must select a Note Type, and the note Visibility (Public, Private, or Publish). Enter free-form text in the Note field.

## Managing Maintenance Attributes

In the Maintenance tab, you can view and update the maintenance attributes of trackable item instances that are set up in inventory as asset groups, and as Capital Assets or Rebuildable Inventory in *Oracle Enterprise Asset Management User's Guide*.

For more information, see the topics *Defining Asset Numbers*, *Defining Asset Groups*, *Defining Rebuildable Serial Numbers*, and *Defining Rebuildable Items* in *Oracle Enterprise Asset Management User's Guide*.

The screenshot shows the 'Update : Item Instance : FL1010' form in Oracle Enterprise Asset Management. The 'Maintenance' tab is active, displaying various fields for maintenance attributes. The 'Maintenance Organization' is set to 'Seattle Maintenance', and the 'Department' is 'W-Maint'. The 'WIP Account Class' is 'MaintWAC' and the 'Area' is 'Warehouse'. The 'Criticality' is set to 'Normal' and the 'Category' is 'ForkLift.Electric'. The 'Parent Asset Number' is 'All Lifts', the 'Parent Asset Group' is 'Fork Lifts', and the 'Asset Route' is 'No'. The form also includes a 'Shortcuts' panel with links like 'Create Item Instance', 'Copy Item Instance', and 'Create Service Request', and an 'Other Item Instance Details' panel with links like 'Transaction History', 'Item Instance History', 'Operating Units', 'Contracts', 'Orders', 'Service Requests', 'Repair Orders', 'Assets', 'Work Orders', 'Work Requests', and 'View Relationship Graphically'.

### Maintenance Organization

This is the maintenance organization - the Enterprise Asset Management enabled organization.

For more information, see *Organization Setup* in the *Oracle Enterprise Asset Management User's Guide*.

### Department

A department represents a crew within your organization. A crew may include people, machines, or suppliers. Departments are also used to collect costs, apply overhead, and compare load to capacity. Assign a department to each operation of a routing and assign resources that are available for that department. The department assigned to each operation of a routing also becomes the assigned department of the corresponding operation within the Work Order, assuming the Work Order is using the routing.

For more information, see the topic *Defining Departments and Resources*, in the *Oracle Enterprise Asset Management User's Guide*.

### WIP Account Class

The WIP Accounting Class ensures that Work Orders generated within Oracle Enterprise Asset Management have an established account code structure assigned, to accept charges incurred by that Work Order. The WIP accounting class codes available are of type, Maintenance. If a Maintenance type WIP accounting class does not exist,

you can define a new one.

For more information, see the topics *Defining WIP Accounting Classes*, *Oracle Work in Process User's Guide*.

### **Area**

Areas are used to logically sort assets by the zones in which they reside. Areas divide the maintenance plant or facility into zones, which help to track and account for assets. Areas are associated with assets.

For more information, see the topic *Setting Up Areas in the Oracle Enterprise Asset Management User's Guide*.

### **Parent Asset Group**

This is the parent Capital Asset Group or parent Rebuildable Item; it is established asset hierarchy information. Work Order costs roll up through the Parent/Child hierarchies defined, and can roll up to any level within an asset hierarchy. This enables you to review all cost associated with an asset or asset hierarchal view.

### **Supply Warranty Expiry Date**

This specifies the expiry date of the warranty, if it exists, provided by the supplier of the item. There is no processing associated with this field; it is for information only.

### **Maintainable** check box

Indicates whether this asset is maintainable. If the Maintainable check box is selected, you can create Work Requests and Work Orders for this asset. For example, you can create an asset for cost-tracking purposes. We may want to see the cost for all top level assets in an asset hierarchy, but we do not want to maintain those assets. In this situation, do not select this check box.

For more information, see the topic *Defining Asset Numbers in the Oracle Enterprise Asset Management User's Guide*.

**Note:** After Work Orders are created for this asset, you cannot clear this check box unless those Work Orders are at Complete, Canceled, or Closed statuses.

### **Category**

The Category indicates the Cost Category that is used as the default for departments that do not have a cost category defined. Department costs are then posted to the appropriate cost elements. Valid values are Maintenance, Operations, Contract, and any other values that you might have added within the extensible lookup table.

For more information, see *Overview of eAM Cost Management in the Oracle Enterprise Asset Management User's Guide*.

### **Criticality**

Criticality Codes suggest the importance of an asset to an organization. For example,

High and Low. An asset that has a direct impact on production or that is difficult to replace may be considered a critical asset. Asset criticality helps you to determine the urgency of requested work. Asset Criticality Codes are referenced when defining an asset.

For more information, see the topics *Defining Asset Numbers*, *Defining Lookups*, and *Criticality Codes* in the *Oracle Enterprise Asset Management User's Guide*.

### Parent Asset Number

Optionally select a parent Asset Number to establish asset hierarchy information. Work Order costs roll up through the Parent/Child hierarchies defined, and can roll up to any level within an asset hierarchy. This enables you to review all cost associated with an asset or asset hierarchal view.

### Asset Route check box

If this check box is selected, the current asset (item instance) has an associated asset route. You might need to perform an Activity on multiple Asset Numbers. To eliminate the possibility of creating multiple Work Orders for the same Activity, you can define Asset Routes. You can define a Preventive Maintenance schedule for your Asset Route to specify when an Activity should be scheduled for the Asset Route.

For more information, see: the topics *Defining Asset Routes* in the *Oracle Enterprise Asset Management User's Guide*.

## Viewing Transactional History

In the Transactional History page, you can see recent transactions for the current item instance.

Transaction History: Item Instance : FL1010

Instance Number FL1010  
Owner Name Vision Corporation

Item Fork Lifts  
Item Description Fork Lift Asset Group

Transaction ID	Transaction Date	Application	Source Transaction Type	Transaction Subtype	Source Group Reference Number	Source Group Reference ID	Source Header Reference Number	Source Header Reference ID	Source Line Ref	Source Line Ref ID	Source Transaction Date	Transaction User Name	Inventory Material Transaction Id
1869556	04-Oct-2006 12:32:47	Enterprise Asset Management	Maintenance Asset Creation								04-Oct-2006 12:32:47	MNT	
1778947	21-Aug-2006 10:03:31	Enterprise Asset Management	Maintenance Asset Creation								21-Aug-2006 10:03:30	MNT	
1771099	11-Aug-2006 20:49:51	Install Base	Installed Base Data Migrated								11-Aug-2006 20:49:51	ANONYMOUS	

Technical Note: Each time a change is made to the instance, it is stored in history by Transaction ID. The number of transactions made available for immediate view is determined by the dump frequency parameter in the Install parameter.

Definitions of selected columns on this page are listed in the following table.

### ***Selected Columns in the Transactional History Page***

---

<b>Column</b>	<b>Definition</b>
Application	The source application of the transaction.
Source Group Ref	A grouping of source headers such as a purchase order group.
Source Header Ref	The document number of the source such as a sales order number or purchase order number.
Source Line Ref	The line number of the source document such as a sales order line number for a sales order.
Source Distribution Ref	A free-form source reference for the source application.

---

### **Prerequisites**

You must have selected an item instance and navigated to an Item Instance Details page.

### **Notes**

1. The Transactional History page shows a summary list of the transactions for the current item instance.
2. Click the Transaction ID link to see detailed information about the transaction, such as item instance attribute changes and associations.

**View Details : Transaction : 1771099**

Item Instance **FL1010**  
 Item **Fork Lifts**  
 Item Description **Fork Lift Asset Group**

**Item Instance**

Action	Attribute	Old Value	New Value
Added	Maintainable		Yes
Added	Asset Category Name		ForkLift.Electric
Added	Asset Criticality		Normal
Added	Merchant Flag		N
Added	Usage		In Service
Added	Customer View Flag		N
Added	Current Postal Code		98101
Added	Current Country		US
Added	Current State		WA
Added	Current City		Seattle
Added	Current Address Line 1		3455 108th Ave
Added	Status		Latest
Added	UOM		Each
Added	Instance Start Date		2002-09-26 09:01:10.0
Added	Quantity		1
Added	Serial Number		FL1010
Added	Instance Number		FL1010

**Associations**

Action	Old Type	New Type	Old Name	New Name	Old Number	New Number	Old Relationship Type	New Relationship Type	Old Primary Flag	New Primary Flag	Old Preferred Flag	New Preferred Flag	Old Start Date	New Start Date	Old End Date	New End Date
Added								OWNER		N		N		2002-09-26 09:01:10.0		

## Viewing Item Instance History

In the Item Instance History page, you can view the state of the attributes of an instance by specifying a date/time stamp or a version label. Whenever a new version label is entered and saved, the application takes a snapshot of the existing instance and make it available for viewing on this page. This page is different from the Transactions page, which shows the changes made to an instance transaction by transaction.

**History : Item Instance : FL1010**

Instance Number **FL1010**      Item **Fork Lifts**  
 Owner Name **Vision Corporation**      Item Description **Fork Lift Asset Group**

View By  Version Label     Date    Version Date

(example: 22-Jun-2008 19:45:00)   

---

**History**

**General**

External Reference	Organization <b>Seattle Maintenance</b>	New Version Label	Last Version Label
Revision	Instance Name	Creation Date <b>26-Sep-2002 09:01:10</b>	Status <b>Latest</b>
Quantity <b>1</b>	UOM <b>Ea</b>	Install Date	Expiration Date
Item Instance Type	Item Condition	Shipped On Date	Return By Date
Accounting Classification	Operational Status Code	Actual Return Date	

---

**Instance Flexfield**

**Owner**

Party Name <b>Vision Corporation</b>	Party Number <b>1860</b>
Account Name	Account Number

---

**Maintenance Attributes**

Maintenance Organization <b>EM1</b>	Criticality <b>Normal</b>
Maintainable <b>Yes</b>	Category <b>ForkLift.Electric</b>
Department <b>W-Maint</b>	Parent Asset Number <b>All Lifts</b>
WIP Account Class <b>MaintWAC</b>	Parent Asset Group <b>Fork Lifts</b>
Area <b>Warehouse</b>	Asset Route <b>No</b>
Supply Warranty Expiry Date	

---

**Additional Attributes**

Name	Value	Category
SH_PHONE		
PH_NO		
AHL_TEMP_SERIAL_NUM		
AHL_MFG_DATE		

---

**Contacts**      **Accounts**

Select Association	Association Name	Source	Association Number	Active From	Active To	Classification
<input checked="" type="radio"/> Owner	Vision Corporation		1860	26-Sep-2002 09:01:10		

---

**Pricing Attributes**

There are no pricing attributes defined for this instance

---

**Operating Units**

Operating Unit	Type	Start Date	End Date
No results found.			

## Prerequisites

You must have selected an item instance and navigated to an Item Instance Details page.

## Notes

1. To start the process, select one of the radio buttons, Label or Date.
2. Either select a Label Version or enter a Date as appropriate, and click Go.  
 Selection of an entry from the Version list also provides the entry's associated date

and time.

The available history entries appear with the times of changes.

## Viewing Item Instance and Asset Network Relationships

In the Graphical View - Instance Relationship page, you can view the graphical representation of item instance relationships, contacts, and accounts. Oracle Installed Base supports various types of relationships through configuration constructed across the item instances. These configurations are displayed in a table, which is filtered based on relationship types. Use the Graphical View - Instance Relationship page to:

- View asset network relationship for all type of configurations.
- Graphically add existing child instances to the configuration.
- Create new child instance and add to the configuration graphically.
- Graphically expire selected item instance relationship in existing configuration.
- Graphically set focus on any selected item instances to view its relationships in the configuration.
- Graphically view parent instances of any selected item instances and view its relationships in the configuration.
- Provide multiple options to view item instance configurations.

You can navigate to Graphical View - Instance Relationship page from the following pages:

- Item Instance Search page
- Item Instance Details page

### Prerequisites

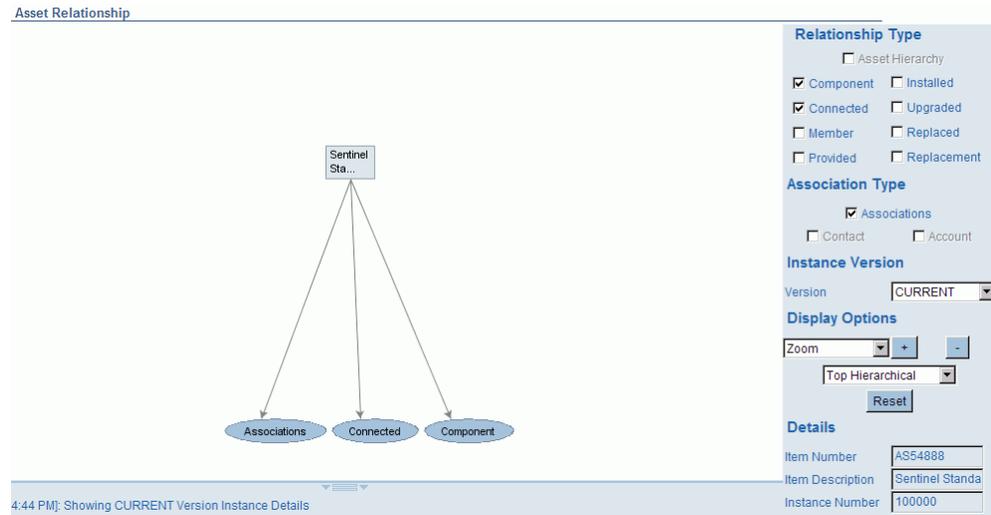
- Create or add child items to an item instance with a relationship type.
- Select an item instance and navigate to an Item Instance Details page.
- Operating unit relationship types are user-definable and must have been set up in Oracle Installed Base administration.

### Viewing item instance configurations and asset network relationships:

1. From Oracle Installed Base Agent User responsibility, navigate to Item Instance

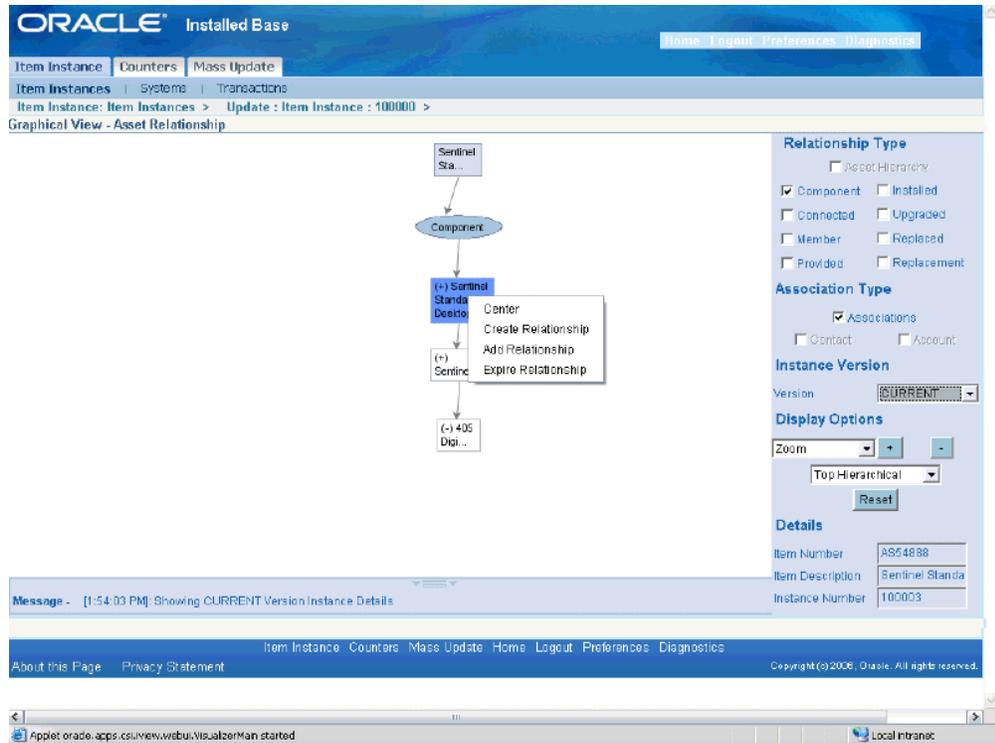
page and query for an item instance.

2. Click the link for the item. The View: Item Instance - General page appears.
3. Select the View Relationship Graphically link. The Graphical View - Instance Relationship page appears.



4. In the Relationship Type region, you can select the Relationship Type options that you want to include in the graphics pane. The default is all relationships selected and visible. The following Relationship Type options are available:
  - Component Of
  - Connected To
  - Member Of
  - Provided By
  - Installed On
  - Upgraded From
  - Replaced By
  - Replacement For
5. In the Association Type region, you can select the Association Type options that you want to include in the graphics pane. The default is all relationships selected and visible. The following Association Type options are available:

- Associations
  - Contact
  - Account
6. In the Instance Version region, you can select the version of the Item Instance Relationship.
  7. In the Display Options region:
    - From the Display list, select the display options such as Zoom, Draw Rings, Node Truncate, and Text Size to change the graphics view as selected.
    - Click the + (plus) or – (minus) sign to increase or decrease the size of the graphics.
    - Select the topologies such as Radial, Hierarchical and Flow. The Hierarchical layouts are displayed as a top-down, bottom-up, left-right, or right-left tree.
  8. In the Details region, you can view the following information:
    - Item Number is the item number of the selected item.
    - Item Description is the description of the item entered at the time of creation.
    - Instance Number is the number of the item instance.
  9. Expand the Relationship Type node. Select and right click an Item Instance node in the graphics pane.



**Note:** The right-click menu displays menu options that are available based on the Relationship Type.

- Create Center on the selected node.
 

**Note:** When you create center, the relationships associated with the node are automatically refreshed.
- Show Parent to view the parent nodes of the selected node.
 

**Note:** When you show parent, the relationships associated with the node are automatically refreshed.
- Create Child to navigate to the Create Child page to create a child instance and add to the existing instance in the current configuration.
- Add Child to navigate to the Add Child page to selectively add to the existing Instances to the current configuration.
- Instance Details to navigate to the Item Instance Details page.

10. Right-click the Item Instance Relationship arrow and select Expire Relationship to delete the relationship between the selected item instances from the current configuration.

## Viewing Error Details for Serialized Item Instances

You can view errors relating to the serialized item instance by clicking the Error Details link on the Update Item Instance page.

1. Navigate to Installed Base Agent User, Item Instance, and the **Item Instance Search** page appears.
2. Select the item instance, item, or other field on the page.
3. Select the **Show Errored Item Instances Only** check box.
4. Click Go.
5. Click the Instance Update icon or select the link for the item instance.
6. Click **Error Details** in the Other Item Instance Details panel on the page.

### Shortcuts

[Create Item Instance](#)  
[Create Service Request](#)

### Other Item Instance Details

[Transaction History](#)  
[Item Instance History](#)  
[Operating Units](#)  
[Contracts](#)  
[Orders](#)  
[Service Requests](#)  
[Service Orders](#)  
[Assets](#)  
[Work Orders](#)  
[Work Requests](#)  
[View Relationship Graphically](#)  
**[Error Details](#)**

7. View the associated details for the errors.

Error Details				
Instance Number: Battery-04				
S. No.	Transaction Type	Material Transaction Reference	Source Header Reference	Error Description
1	WIP Issue	22383411		An instance could not be found for the item and location information provided. Item ID: 8405. Organization ID: 3158.

## Managing Operating Units

An operating unit is an organization with which the instance can be associated. When an instance is sold from one organization, a unit is assigned to the Sold From relationship for the instance. Service can be provided by yet another organization unit such as one in Field Service. The Service Bill From unit is an organization that collects the receivable and can be used by Service Request. The Instance-Operating Unit association is for information only.

The Operating Units page displays any operating units currently associated with the selected instance. In the Operating Units page, you can view, add, and remove the association of operating units with a particular item instance.

## Prerequisites

You must have selected an item instance and navigated to an Item Instance Details page. Operating Unit relationship types are user-definable and must have been set up in Oracle Installed Base administration.

## Notes

- You can modify the type and end date of an association.
- To remove the association with an operating unit, select the operating unit and click Remove.  
To remove all associations, first click Select All, and then click Remove.  
The removal of associations takes effect after you click Update.
- To associate operating units to the current item instance, click Add.

**Add Operating Unit : Item Instance : FL1010**

Instance Number	FL1010	Item	Fork Lifts	Cancel	Apply
Owner Name	Vision Corporation	Item Description	Fork Lift Asset Group		

\* Indicates required field

\* Name

\* Type

Start Date

End Date

Cancel Apply

In the Add Operating Unit page, you must select the Name and Type of an operating unit.

You can optionally select the start and end dates for the association.

## Viewing Contracts

In the Contracts page, you can view service contracts and warranties associated with an item instance.

## Prerequisites

You must have selected an item instance and navigated to an Item Instance Details page. Service contracts must have been created for the instance.

## Notes

For more detailed contract information, drill down on the Contract Number, Line, and Service Name links.

## Managing Orders and Pricing Attributes

In the Orders page, you can view orders associated with an item instance. You can update the Agreement Name of an order.

If the item has pricing attributes associated with it, you can view and edit the pricing attributes from this page.

## Prerequisites

You must have selected an item instance and navigated to the Item Instance Details page. To view or edit pricing attributes, they must have been populated from the sales order from which this item instance was sold.

## Steps (to view and edit pricing attributes)

1. In the Orders page, click Pricing Attributes.  
The Pricing Attributes page appears.  
The contexts are part of the setup for extended pricing attributes in Oracle Order Management and Oracle Advanced Pricing.
2. Use the context filter to select a particular set of pricing attributes.
3. Click Go. A list of pricing attributes and associated values appears.
4. Edit the values as necessary.
5. Click Restore to return values to those saved last, and re-enter values or click Update to save changed values.

## Viewing Service Requests

In the Service Requests page, you can view the service requests that have been logged for the instance. You can click the Service Request Number link to get more details about a particular service request.

You can view multiple products on a single Service Request page including the primary product and any newly added products entered on the Item Instances Service Request page.

### Prerequisites

You must have selected an item instance and navigated to an Item Instance Details page.

## Viewing Service Orders

Using the Service Orders page, you can view Open, Closed, and On Hold Depot Repair orders associated with an item instance.

### Prerequisites

You must have selected an item instance and navigated to an Item Instance Details page.

## Managing Work Orders and Work Requests

These pages enable you to view and export work orders and work requests.

## Prerequisites

You must have selected an item instance and navigated to an Item Instance Details page.

## Splitting Quantities

Split Quantity : Item Instance : 18818

\* Indicates required field

Instance Number 18818 Item AS54888

Owner Name Imaging Innovations, Inc. Item Description Sentinel Standard Desktop TPD

Quantity 300

Split Reason Partial Cancel

Move split quantity to new instance

Move each item to a new instance

Partial Cancel  
Partial Return  
Partial Shipment  
Unspecified

Cancel View Impacted Contracts Apply

In the Split Quantity page you can subdivide an item instance with quantity greater than one into parts whose total quantities equal the original quantity. You can split the original quantity into two or n parts. Oracle Installed Base automatically creates serviceable items under serial control with a quantity of one. Only nonserialized items are created with a quantity greater than one. When an instance is split, Oracle Installed Base retrieves from Oracle Contracts the appropriate coverage for the newly created instances.

Some reasons for splitting quantities are as follows:

- Isolate a quantity for transfer to an end customer
- Set apart a quantity to be terminated
- Set aside a quantity for installation elsewhere
- Set apart a quantity to apply or order a new service program
- Set apart a quantity for upgrade or repair

## Prerequisites

You must have selected an item instance with a quantity greater than 1, navigated to an Item Instance Details page, then clicked Split Quantity.

## Notes

1. You can select a Split Reason.
2. You can select the following types of split:

- Split the quantity into two parts; in this case, you must also select the quantity for the new instance.
  - Move each item to a new instance.
3. After you click Apply, the application displays information for the newly created instances.

## Transferring Ownership

In the Change Owner page, you can transfer ownership of an item instance from one active party to another.

The account field is mandatory only if the party is external. Other owner types can be Employee and Vendor. Ship-to and Bill-to location can be modified on this page.

The ownership transfer date can be set as a past or current date. If ownership transfer is backdated, then the application verifies that no Oracle Installed Base transactions exist between past and current dates. If transactions exist, then the application raises an error, otherwise the transaction is saved and the transfer date is passed to Oracle Service Contracts for further processing.

If Install Parameter: Override Ownership is turned on, Oracle Installed Base supports RMA receipt, shipment, and miscellaneous receipt transactions of Oracle Installed Base instances regardless of ownership.

Oracle Installed Base processes the RMA and transfers ownership if the RMA customer is different from existing instance ownership. Similarly, Oracle Installed Base allows shipment of an instance to any party from inventory regardless of current external ownership of the item instance, that is, the party or owner responsible for returning the item. The application changes ownership to Internal for Miscellaneous receipt of a customer-owned item. This is applicable to serialized-at-receipt or predefined serialized items.

## Prerequisites

- You must have selected an item instance and navigated to an Item Instance Details page, and clicked Change Owner.
- A transfer must have two valid parties to occur.
- The two valid parties must have been set up in the Oracle Accounts Receivable as related customers if All Party Locations is not selected.

If this parameter is selected, then all parties are available for selection.

- Valid parties must have been set up.

The LOV for the transferred-to party is controlled by the All Party parameter setup in the Oracle Installed Base Parameters setup. If All Parties is selected, then the LOV displays all available parties to be selected. If this parameter is not selected, then only parties set up as related in Accounts Receivable will be displayed.

- Locations must have been set up.

For the ship-to and bill-to locations LOV, only locations set up as ship-to and bill-to for the selected party and its related parties will be displayed.

- The transfer date defaults to sysdate.

However an earlier transfer date is also accepted.

## Notes

1. In the top part of the page, select the new party type, account number, and either party name or party number.
2. You can optionally change Current, Install, Bill To, and Ship To location information.

After an instance is transferred, Oracle Installed Base supplies Oracle Contracts with information about the change of ownership and the transfer date.

## Viewing Impacted Contracts

Many item instances are associated with contracts. When you update item instances, some types of update may have potential contractual impacts. You may want to see which contracts are impacted before you decide to finalize your changes.

## Prerequisites

You must have selected an item instance, and clicked Update.

## Conditions for Automatic Display of Impacted Contracts Page

When you are updating an item instance, the Impacted Contracts page is displayed automatically, as a warning page, if all of the following conditions are true:

- The profile option CSI: Display Impacted Contracts has been set to Yes.
- You have made one or more of the following types of item instance update:
  - Change Owner
  - Split Quantity

- Quantity Increase
  - Expire
  - Re-install (remove Expiration Date)
  - Change Installation Date
- 
- You have clicked Apply or Save.
  - Contracts exist that are impacted by your updates.

## Notes

1. For manual generation of the Impacted Contracts report, click View Impacted Contracts.
2. In the Impacted Contracts page, you can get further details of each affected contract, by selecting the radio button for the contract; this shows the contact details at the foot of the page.
3. You can then decide whether or not to finalize your item instance changes or to discard them.

If you proceed to finalize the item instance changes, they are cascaded to all of the contracts that appeared on the Impacted Contracts page.

## Copying Item Instances

The Copy Item Instance page is essentially the same page as the Create Item Instance page, with the option to copy various types of attributes and associations from the original item instance. In the Copy Item Instance page you can create an item instance by copying another and making changes to it.

## Prerequisites

You have performed an item instance search, selected an item instance for update, and clicked Copy Item Instance.

## Notes

Copy functions are available only for instances that are customer item instances.

For details of the main fields that you can enter, see *Creating Item Instances*, page 3-5.

## Also Copy Region

When you copy an item instance, you have the option to copy one or more of the following attributes and elements from the original item instance:

- Child Item Instances
- Parties, Contacts, and Accounts
- Assets
- Additional Attributes
- Pricing Attributes
- Operating Units

## Generating the Customer Products Summary Report

Use the Customer Products Summary Report to view a summary of customer products.

### To generate the Customer Products Summary Report:

1. Navigate to the Installed Base Reports page (Install Base Administrator > Others > Reports > Submit a New Request).
2. Select CSI: Customer Products Summary Report in the **Names** field.
3. Enter values in the following fields:
  - **From Customer Number** and **To Customer Number**
  - **From Item** and **To Item**
  - **Installed At**
  - **Status**
4. Click the **OK** button.
5. Click the **Submit** button.



---

## Working with Systems

This chapter covers the following topics:

- Overview
- Managing Systems
- Searching for Systems
- Creating Systems
- Viewing and Updating Systems
- Viewing System Details
- Updating System Details
- Working with System Configurations
- Viewing All or Active Item Instances in a System

### Overview

A system is a construct in Oracle Installed Base that customers can use to group their items. A customer is considered to be an owner party with an account.

- For example, a headquarters can have many buildings, and each building can have many floors. Headquarters can be a system, each building can be a system, and each floor can be a system.

There can be a hierarchy in system structure.

- For example, headquarters can be parent of all the buildings, and each building can be a parent of all the floors in the building.

Item instances can be grouped under systems. Each item instance can belong to one system only.

- For example, headquarters can own a number of networks, each building can own

many servers, and each floor can own many PCs and printers.

## Creating Parent-Child Relationships Between Systems

Both when you create and update a system, you can set up a parent-child relationship, by entering a parent name for the current system. Each relationship becomes part of configuration hierarchy for the system. The parent system must be a system with the same or related party and account.

You can subsequently view the system configuration hierarchy by clicking the View Configuration icon from a systems search page.

## Adding Item Instances to a System

You add item instances to a system when you edit item instance details, by specifying a system for the item instance. An item instance can belong to only one system.

## Cascading System Changes to Item Instances

When you update a system, you have the option to cascade some of the system changes to the item instances that belong to the system.

## See Also

- [Managing Systems](#), page 4-2

## Managing Systems

This section consists of the following topics:

- [Searching for Systems](#), page 4-3
- [Creating Systems](#), page 4-3
- [Viewing and Updating Systems](#), page 4-4
- [Working with System Configurations](#), page 4-5
- [Viewing All or Active Item Instances in a System](#), page 4-7

## See Also

- [Overview](#), page 4-1

## Searching for Systems

You can search for systems in several ways.

For system search options and processes, see [Item Instance and System Search Overview](#), page 2-1.

Systems Save Search

---

**Simple Search** Advanced Search

Note that the search is case insensitive

System  Description

System Number  Party Name

Account Number   Show Expired Systems

---

Select System	System Number	System Description	Type	Party Name	Account Number	View Configuration	View Active Item Instances	View All Item Instances	End Date	Update
<input type="checkbox"/> <a href="#">Small Workstation1</a>		Small Workstations		World of Business	1000		∞∞	∞∞		
<input type="checkbox"/> <a href="#">Small Workstation3</a>	1002	Small Workstations		World of Business	1000		∞∞	∞∞		
<input type="checkbox"/> <a href="#">Small Workstation2</a>	1001	Small Workstations		World of Business	1000		∞∞	∞∞		

## Processing the Search Results

From the search results, you can perform the following operations:

- [Viewing and Updating Systems](#), page 4-4
- [Working with System Configurations](#), page 4-5
- [Viewing All or Active Item Instances in a System](#), page 4-7

## See Also

- [Managing Systems](#), page 4-2

## Creating Systems

You can create a system only for an external party (customer) with an account number. System type is mandatory. You can assign a parent system only with the same owner and account.

Installation, billing, shipping, and contact details appear after you select the owner and account.

**Create System**  
 \* Indicates required field  
 Installation Details, Billing Details and Shipping Details are dependent on Primary Party.

\* Operating Unit    
 \* System   
  
 System Description   
 System Number   
 \* System Type

\* Party Name    
 \* Account Number    
 Parent Name    
 Start Date    
(example: 24-Jun-2008 13:45:00)  
 End Date    
(example: 19-Feb)  
 Co-Terminate Date    
(example: 19-Feb)

---

**Installation Details**

Installed At    
 Site Number    
 Party Name **Business World**  
 Party Number **2813**  
 Address **Graankade 4**  
**Amsterdam, 1001 CV NL**

**Billing Details**

Bill To    
 Site Number    
 Party Name **Business World**  
 Party Number **2813**  
 Address **Graankade 4**  
**Amsterdam, 1001 CV NL**  
 Contact Name    
 Contact Number

---

**Shipping Details**

Ship To    
 Site Number    
 Party Name **Business World**  
 Party Number **2813**  
 Address **Graankade 4**  
**Amsterdam, 1001 CV NL**  
 Contact Name    
 Contact Number

**Contact Details**

Technical    
 Contact Number    
 Administration    
 Contact Number

---

**Flexfield**

Context Value

## Creating Parent-Child Relationships Between Systems

In the Create System page, you can set up a parent-child relationship between systems, by entering a parent name for the current system. Each relationship becomes part of configuration hierarchy for the system.

The list of values available for parent system is restricted to systems with the same or related party and party accounts.

## See Also

- Managing Systems, page 4-2

## Viewing and Updating Systems

This section consists of the following topics:

- Viewing System Details, page 4-5

- [Updating System Details](#), page 4-5

## Viewing System Details

For each system in the search results area, you can view its details, by clicking the System name link.

The System details page appears. From this page, you can view details of the system. Most of the fields are associated with the owner and the account.

### See Also

- [Managing Systems](#), page 4-2

## Updating System Details

To start the process of updating the system from the results area, click its Update icon. The System details page appears, and you can update many of the system attributes.

In the Systems Details page you can view and edit system details such as installation location, shipping and billing location, and contacts. You can optionally cascade these changes to the item instances that belong to the system.

You can also create or change a parent system for the current system.

### Creating Parent-Child Relationships Between Systems

In the Systems Details page, you can set up a parent-child relationship between systems, by entering a parent name for the current system. Each relationship becomes part of the configuration hierarchy for the system.

The list of values available for parent system is restricted to systems with the same or related party and party accounts.

### Changing Party and Account Details

To transfer a system, you can change the party name and associated account number. Click the check box Cascade Ownership if you want to cascade the party and account changes to all child systems of the current system.

### See Also

- [Managing Systems](#), page 4-2

## Working with System Configurations

In the Systems Configurations page you can see a graphical representation of a system,

and all the parent-child relationships associated with the system.

## Layout and Usage of the System Configuration Page

The System Configuration page displays the systems in a configuration hierarchy.

In this section, the following terminology applies:

- Parent - denotes a system in a configuration level above the currently- described system.
- Child - denotes a system in a configuration level below the currently- described system.

### How the Hierarchy Appears in the System Configuration page

The function of the tabular grid in the main part of the page is to display the current system and its child systems. Initially, only the child systems that are one level below the current system are shown.

You can expand or collapse parts or all of the configuration hierarchy in the grid.

Above the grid is an untitled parent line that displays all the parent systems, if any, above the current system in the configuration. The parent systems appear as a sequence of links.

For example, if the configuration consists of a 5-level hierarchy of systems A>B>C>D>E, and the current system is C, the System Configuration page initially displays the following:

- The parent line displays the system links A>B.
- The grid displays C and D, with an Expand arrowhead icon (+) beside D to enable you to view its lower level systems.

Systems in the grid that have children appear with either an Expand (+) or a Collapse (-) arrowhead icon to enable you to view or hide the children.

The entries for systems in the grid, other than the top entry, that have child systems, appear with a Focus icon.

### Expanding and Collapsing the Hierarchy

Within the grid, you can click the Expand (+) or Collapse (-) arrowhead icon on a system to enable you to view or hide the children.

Click Expand All to show all the systems from the current top entry downwards.

Click Collapse All to reduce the grid to the current top entry only.

### Focusing

The object of focusing is to rearrange the hierarchy by moving a system to the top of the grid.

You can focus on any system of the configuration hierarchy:

- For a system in the grid, click the Focus icon for that system.
- For a system in the parent line, click the link of the system that you want to focus on.

The parent line automatically adjusts to display the systems above the new top entry.

## See Also

- Managing Systems, page 4-2

## Viewing All or Active Item Instances in a System

Depending on which icon you clicked in the System search results, you can see either all, or just the active item instances in a system.

System All Item Instances : System : Small Workstation1

Select	Item Description	Item	Instance Number	Serial Number	System	Status	Quantity	Owner Name	Owner Account Number	Start Date	Instance Update	DFP Update	Extended Attribute Update
<input type="radio"/>	<a href="#">Sentinel Deluxe Desktop</a>	AS18947	1035	SM100004	Small Workstation1	Latest	1	World of Business	1000	17-Jul-1997 09:29:31			
<input type="radio"/>	<a href="#">Sentinel Deluxe Desktop</a>	AS18947	1044	SM100002	Small Workstation1	Replaced	1	World of Business	1000	17-Jul-1997 09:29:36			
<input type="radio"/>	<a href="#">Sentinel Deluxe Desktop</a>	AS18947	1045	SM100003	Small Workstation1	Latest	1	World of Business	1000	17-Jul-1997 09:29:36			
<input type="radio"/>	<a href="#">Sentinel Deluxe Desktop</a>	AS18947	1048	SM100007	Small Workstation1	Latest	1	World of Business	1000	17-Jul-1997 09:29:36			
<input type="radio"/>	<a href="#">Sentinel Deluxe Desktop</a>	AS18947	1053	SM100009	Small Workstation1	Latest	1	World of Business	1000	17-Jul-1997 09:29:36			

From the list, you can update, expire, and export existing item instances, or create new ones.

## See Also

- Managing Systems, page 4-2



---

## Using the Transactions Tab

This chapter covers the following topics:

- Overview
- Searching Transactions

### Overview

You can use the Transactions tab to search for transactions that are associated with item instances, and view what happened to the item instances during the transactions.

Available search criteria include transaction type, transaction subtype, specific value in a transaction, date of transaction, and transaction status.

### Overview of Transaction Types and Subtypes

Transaction types are specified for any transaction source that has defined interfaces with Oracle Installed Base. For example, transaction types from Oracle Applications include Order Management - Fulfillment, Order Management - Shipment, and RMA Receipt. Oracle Asset Tracking contributes types such as PO Receipt into Project, and Asset Retirement. Many more types are available. Refer to the Transaction Type setup in the *Oracle Installed Base Implementation Guide*.

For each transaction type, transaction subtypes can be defined to further specify the actions on one or more Oracle Installed Base records if the subtypes are selected for the interface transaction. These subtypes can be selected from a list of values in the transaction detail window from the Oracle calling application, such as Order Management sales order line. Such transaction types, subtypes, and actions can be defined in the Transaction Subtype setup window. Refer to the Transaction Subtype setup in the *Oracle Installed Base Implementation Guide*.

For example, when an Order Management - Shipment transaction updates Oracle Installed Base, a transaction bearing the transaction type, subtype (Ship), order number (Source Header Reference), order line number (Source Line Reference), and transaction date update Oracle Installed Base, and a history transaction record is created. Each of

these transactions bears a status such as Complete or Pending.

Based on the properties of the transaction, a search can be specified, for example, for display of the activities for Order Management - Shipment, with a transaction date of 07-Aug-2005.

## Searching Transactions

In the Transactions Search page, you can define search criteria for transactions and then view the transactions that meet these criteria. You can drill down one level to view the item instances for a transaction, and further to see the changes made to item instances during the transaction, that is, old and new values for item instance attributes and associations.

## Selected Page Definitions

The following table lists the descriptions of selected fields in the Transactions Search page.

Field	Description
Source Group Ref	Such as a PO group number
Source Header Ref	Such as a sales order number
Source Line Reference	Such as a sales order line number
Source Transaction Date	Date of the source transaction
Transaction Date	Actual date the transaction occurred
Inventory Material Transaction ID	ID found in an Inventory material transaction

## Prerequisites

Oracle Installed Base Agent User > Item Instance > Transactions

### Steps:

#### Enter Search Parameters

1. Select a Source Transaction Type.
2. Enter values in other fields to further qualify your search criteria as needed.

3. Click Go to perform the search.

In the results area, the transactions appear with each transaction bearing a transaction ID.

**View Item Instances for a Transaction**

4. To see the a list of the item instances in a transaction, click the Transaction ID link.

A page appears with a list of the item instances associated with the transaction.

**View Item Instance Changes for a Transaction**

5. To see the transaction details for a particular item instance, click the View Transaction Details icon for the item instance.

A page appears with the old and new values for the attributes and associations of the item instances associated with the transaction.



---

## Using the Transaction Interface Search

This chapter covers the following topics:

- Searching and Viewing Transactions
- Viewing Errored Transactions from Installed Base Agent User Responsibility

### Searching and Viewing Transactions

You can view the inventory material and fulfillment transactions for all organizations or a specific organization that are picked up by the Interface Install Base Lines concurrent program. These transactions are based on the Validation Organization value selected in the concurrent program request parameters.

Access the Interface Install Base Lines concurrent program through the Installed Base Administrator responsibility.

**Note:** If the Install Base Lines concurrent program is run manually, the User ID will represent the resource who created or modified the transaction. If the concurrent program is run automatically, then the User ID represents the resource who generated the process.

For more information, see Schedule the Interface Install Base Lines Concurrent Program in the *Oracle Installed Base Implementation Guide*.

**To view inventory material and fulfillment transactions picked up by the Interface Install Base Lines concurrent program:**

1. Navigate to the Transaction Interface Search page (Installed Base Administrator > Transaction Interface).
2. Enter values in any of the following fields to narrow your search:
  - Interface ID
  - Order Number

- Item Name
  - Transaction Type
  - Material Transaction ID
  - Request ID
3. Click the Advanced Search button to add the following search parameters:
    - Lot Controlled
    - Serialized
  4. You can also select one of the following four seeded values in the Saved Searches field:
    - Errored-Serial Items
    - Errored-Nonserial Items
    - Errored-Lot Serial Item
    - Errored-Lot Nonserial Item
  5. Click Go.
  6. View the list of transactions.

Transaction Interface >

### Transaction Interface Search

Specify parameters and values to filter the data that is displayed in your results set.

Match  All  Any

Interface Id is

Processing Status is  Errored

Request Id is

Material Transaction Id is

Serialized is

Lot Controlled is

Go Clear Add Another Lot Controlled  Add

Rows 1 to 30

Interface Id	Processing Status	Error Message	Request Id	Item Name	Item Type	Material Transaction Id	Transaction Type	Order Number	Transaction Quantity	View Output
41	Errored		47357499	03 Consign Item 1		40209311	SALES ORDER ISSUE	8	1000	
42	Errored		47357499	03 Consign Item 1		40209318	SALES ORDER ISSUE	9	1000	
43	Errored		47357499	03 Consign Item 1		40209325	SALES ORDER ISSUE	10	100	
47	Errored		47357499	03 Consign Item 1		40209373	SALES ORDER ISSUE	11	200	
48	Errored		47357499	03 Consign Item 1		40209380	SALES ORDER ISSUE	12	200	

- Click the icon in the View Output column to view transaction interface details in a text file.

## Viewing Errored Transactions from Installed Base Agent User Responsibility

You can view transaction errors through the Installed Base Agent User responsibility:

- Navigate to Installed Base Agent User > Item Instance.
- Click Item Instance > Transaction Interface, and the Transaction Interface Search page appears.
- Click the Table Diagnostics button to enable the List Search view.

The Table Diagnostics page appears.

- Click the Enable List Search button.

When the FND\_ENABLE\_LIST\_SEARCH profile option is enabled at the page level, the Filters region appears on the page.

See Oracle Installed Base System Profile Options, *Oracle Installed Base Implementation Guide*

- Select values in the fields, and click Go.
- Select one of the four seeded values to further narrow the results.
  - Errored-Serial Items: Number of errored transactions for serialized items.

- Errored-Nonserial Items: Number of errored transactions for non-serialized items.
- Errored-Lot Serial Item: Number of errored transactions for lot and serialized items.
- Errored-Lot Nonserial Item: Number of count of errored transactions for lot nonserial controlled items.

The screenshot shows the 'Transaction Interface Search' page. At the top, there are navigation tabs: 'Item Instance', 'Counters', and 'Mass Update'. Below these are sub-tabs: 'Overview', 'Item Instances', 'Systems', 'Transactions', and 'Transaction Interface'. The main heading is 'Transaction Interface Search'. Below this are four summary cards: 'Errored-Lot Nonserial Items' (0), 'Errored-Lot Serial Item' (0), 'Errored-Nonserial Items' (35), and 'Errored-Serial Items' (4). Below the cards are filters for 'Errored-Serial Items', 'Hide Filters', and 'Table Diagnostics'. A 'Filters' section on the left includes dropdowns for 'Processing Status' (is Errored), 'Serialized' (is Yes), and 'Lot Controlled' (is No). At the bottom left are 'Go', 'Save', 'Reset', and 'Add' buttons. The main table displays transaction errors with columns: Interface Id, Processing Status, Error Message, Request Id, Item Name, Item Type, Material Transaction Id, Transaction Type, Order Number, Transaction Quantity, and View Output. The table contains four rows of error data.

Interface Id	Processing Status	Error Message	Request Id	Item Name	Item Type	Material Transaction Id	Transaction Type	Order Number	Transaction Quantity	View Output
581	Errored		48882691	Fork Lift Battery		41368545	MISC RECEIPT		4	
1868	Errored		50109383	M1_COMP3		41933817	MISC RECEIPT		2	
1872	Errored		50109464	M1_COMP3		41933846	WIP COMPONENT ISSUE		1	
2163	Errored		50181054	CSD002		41941246	SALES ORDER ISSUE	66614	1	

5. Optionally click the Hide Filters link.
6. View the transaction errors.
7. Click the Output icon for the transaction error to view details on the Transaction Interface Output Page.

Item Instance Counters Mass Update

Overview | Item Instances | Systems | Transactions | Transaction Interface

Item Instance: Transaction Interface >

### Transaction Interface Output Page

Item Information		Source Transaction Information	
Item Number	Fork Lift Battery	Transaction Id	41368545
Inventory Item Id	8319	Transaction Qty	4
Inventory Org	3159	Sub Inventory	FkffStore
		Transaction Type	Miscellaneous receipt

Transaction Error Information		Serial/Lot and Instance Information	
Error Id	405497	***	
Error Date	2019-01-08 22:50:12.0		
Error Message	You have Material Transaction_id (22383310) errored Prior to the Current Transaction. You need to process that first.		

Serial Number	LotNumber	Instance Number
Battery1000		Battery1000
Battery1002		Battery1002
Battery1005		Battery1005
Battery1008		Battery1008

[Return to Transaction Interface Search](#)

8. Review the error message information in the Transaction Error Information region to determine the appropriate action to correct the error.
9. Click the Return to Transaction Interface Search link.
10. Optionally create a new search by selecting New Search Criteria.

**Note:** The existing searches can also be managed by selecting Manage Saved Searches. Existing searches can be set to default or configured to be displayed as a tile at header.

1. Enter the required fields.
2. Click the Save button.

## Manage Saved Searches

▶ **LS\_All\_Search**  | 

▶ **Serial-Error-MISC RECEIPT**  | 

▲ **Errored-Serial Items** | 

\* **Name**

**Description**

**Row Count**

**Default**    **Display**    **Tile**

▶ **Errored-Lot Nonserial Items** | 

▶ **Errored-Lot Serial Item** | 

▶ **Errored-Nonserial Items** | 

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## Using the Mass Update Facility

This chapter covers the following topics:

- Introduction
- About Mass Update Batch Types
- Overview of the Mass Update Batch Creation Process
- Overview of Mass Update Stage Operations
- Managing Mass Update Batches
- Searching for Existing Mass Update Batches
- Creating Mass Update Batches
- Selecting Item Instances
- Creating a New Batch
- Adding Item Instances to a Batch
- Entering New Values for Transfer Owner Batches
- Entering New Value Fields
- Entering New Values for Move Batches
- Entering New Values for General Batches
- Entering New Values for Terminate Batches
- Updating Associations
- Entering and Viewing Contract Options
- Scheduling Mass Update Batches
- Viewing Mass Update Batch Details
- Updating Mass Update Batches
- Removing Item Instances from Mass Update Batches
- Viewing Output of a Failed Mass Update Batch

- Deleting Mass Update Batches
- Creating and Managing Mass Update Batches Using Web ADI

## Introduction

You can perform mass updates on sets of item instances, by changing different attributes, including party associations.

The main topics in this chapter are as follows:

- About Mass Update Batch Types, page 7-2
- Overview of the Mass Update Batch Creation Process, page 7-3
- Managing Mass Update Batches, page 7-7

## About Mass Update Batch Types

Oracle Installed Base mass updates are grouped to cater to specific business objects and transactions. The five types of mass update and the main operations allowed for each update type, are as follows:

- Transfer Owner, page 7-2
- Terminate, page 7-2
- Move, page 7-3
- Web ADI, page 7-3
- General, page 7-3

### Transfer Owner

- Transfer item instances from one owner to another one
- Update the current, install, bill-to and ship-to locations, associations, and other instance attributes
- Specify the contract options for transferring service contracts associated with the instances

### Terminate

- Terminate a set of item instances in a batch.

## Move

- Move item instances from one location to another

The location that is being changed can be the current or install location or both.

You may be required to modify the bill-to and ship-to location and some other instance attributes.

## Web ADI

Download a Microsoft Excel template with selected item instances. Create or update the item instances, and then upload the revised spreadsheet. After the upload is complete, the modified data is uploaded to interface tables and is automatically processed by the asynchronous Initiate Mass Edit concurrent program.

## General

This mass update type is for sets of item instances that do not fall into any of the other mass update categories.

- Change installation date, additional attributes, associations, contacts and some other instance attributes.

## Overview of the Mass Update Batch Creation Process

You can create one or more mass update batches. Each batch contains the parameters required to perform the mass update of a set of item instances.

You must run the Initiate Mass Edit concurrent program to perform the mass updates. The program can be scheduled to run at regular intervals or can be run as a single execution after you have created a mass update batch.

**Important:** You do not have to run or schedule the Initiate Mass Edit concurrent program if you are using the Web ADI option. See *Creating and Managing Mass Update Batches Using Web ADI*, page 7-28.

For more information regarding running the Initiate Mass Edit concurrent program, see *Run the Initiate Mass Edit Program, Oracle Installed Base Implementation Guide*.

The creation of a batch is a process with several stages:

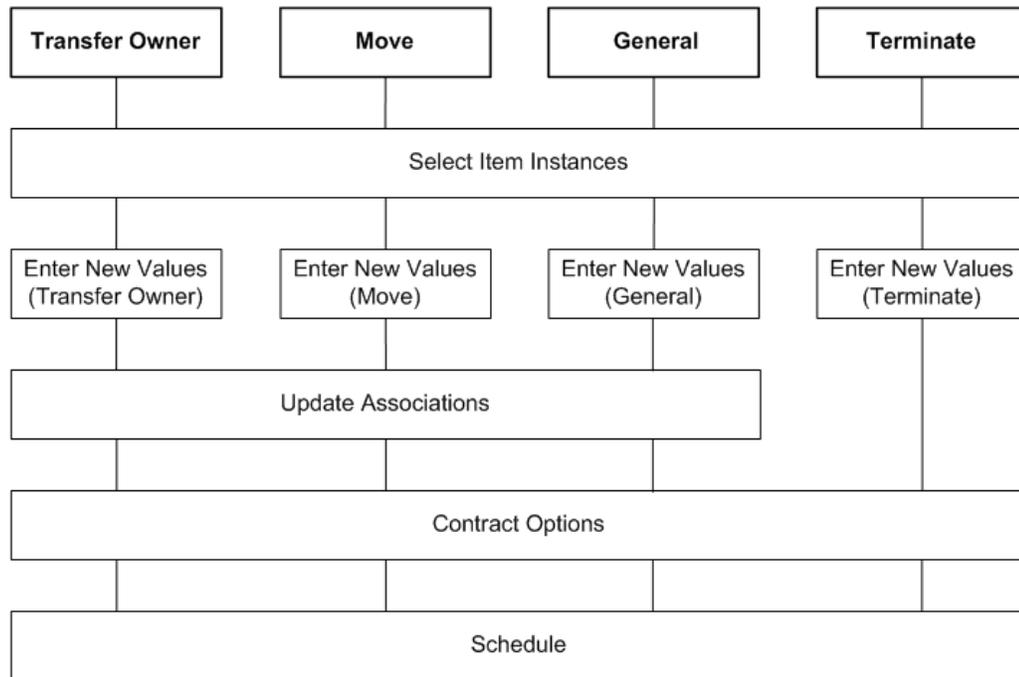
1. Using the Mass Update page, select the update batch type.  
Options are Transfer Owner, Terminate, Move, Web ADI, and General.
2. Then for each mass update type, you follow a series of stages:

The main stages required for the creation of a mass update batch depend on, and vary

with, the batch type. Only the relevant pages for that batch type are presented to the user. The diagram that follows shows these stages for each of the mass update batch types:

**Note:** This diagram does not include the creating mass update batches using the Web ADI feature.

See *Creating and Managing Mass Update Batches Using Web ADI*, page 7-28.



For more information about the mass update stages, see *Overview of Mass Update Stage Operations*, page 7-4.

## Related Topics

About Mass Update Batch Types, page 7-2

## Overview of Mass Update Stage Operations

The main stages of the mass update process are as follows:

- Select Item Instances, page 7-5
- Enter New Values, page 7-5

- Update Associations, page 7-5
- Contract Options, page 7-6
- Schedule, page 7-6

When you create or update a mass update batch, the stages are represented by a left-to-right "train" of steps, which appears at the top of each page.

When you create a batch, you may perform each of the steps in sequence, or you may break out of the sequence, and complete the steps by updating the batch later. When you update a batch, you can select any step that appears as a clickable link in the train of steps.

For all batch types, you must go through the first two stages, Select Item Instances and Enter New Values. The Update Associations and the Contract Options stages are both optional.

To submit a batch for execution, you must perform the Schedule stage. After you have scheduled the batch for execution, you must run the Initiate Mass Edit concurrent program to execute the batch changes.

### **1. Select Item Instances**

This stage is required for all batch types.

This stage is required for all batch update types. At the Select Item Instances stage, you create a new batch and then add item instances to the batch, either during the batch creation process or later when you update the batch.

For details, see *Selecting Item Instances.*, page 7-9

### **2. Enter New Values**

This stage is required for all batch types.

You enter new values for your selected item instances. The fields for which you can enter new values differ for each batch type.

For details, select the appropriate topic from the following:

- Entering New Values (Transfer Owner), page 7-12
- Entering New Values (Move), page 7-15
- Entering New Values (General), page 7-16
- Entering New Values (Terminate), page 7-17

### **3. Update Associations**

The Update Associations stage is not available for Terminate batches.

This stage is optional. For the selected item instances, you can expire existing associations and add new associations. For the new associations, you can also add contacts and accounts.

For details, see [Updating Associations](#), .

#### 4. Contract Options

This stage is optional. For Transfer Owner and Terminate batches, you can enter contract options for the selected item instances; for the other batch types, you can only view the existing contract options associated with item instances.

For details, see [Entering and Viewing Contract Options](#), page 7-20.

#### 5. Schedule

After you have specified all the new values for your selected item instances, you can schedule the Initiate Mass Edit concurrent program to perform the updates.

You can schedule the request to run as soon as possible or you can provide a specific date and time for run execution.

**Note:** If the mass update run fails to successfully update all the selected item instances, you can view details of the failed item instances.

For details, see [Scheduling Mass Update Batches](#), page 7-25.

### Mass Update Batch Statuses

One of the attributes of a mass update batch is its status. The valid statuses of a mass update batch are as follows

- Created  
This applies to batches that have not yet been submitted, or have been updated after batch submission but not resubmitted.
- Scheduled  
This applies to batches that have been submitted, but not yet executed. You can unschedule a batch execution by updating or deleting the batch.
- In Progress  
You cannot update a batch that is currently being executed.
- Successful  
All item instances in the batch were successfully updated.  
You cannot update a batch that completed successfully

- Failed

One or more item instances in the batch were not successfully updated. You can see the error details in the output of the run where the batch was processed.

You cannot update a failed batch.

## Managing Mass Update Batches

Mass Update Batches

Search

Batch Name: %

Batch Number:

Type:

Go Clear

Status:

Created By: OPERATIONS

Item Instance:

Key

- Created
- Scheduled
- In Progress
- Successful
- Failed

Select Object: Delete | Create Batch: General  Go

Select All | Select None

Select	Name	Number	Type	Status	Creation Date	Schedule Date	Update	View Output
<input type="checkbox"/>	<a href="#">VP_TRO_3</a>	10122	Transfer Owner	✓	08-Jul-2008 17:15:32	08-Jul-2008 17:15:56		
<input type="checkbox"/>	<a href="#">VP_TRO_2</a>	10121	Transfer Owner	✓	08-Jul-2008 16:39:22	08-Jul-2008 16:39:46		
<input type="checkbox"/>	<a href="#">VP_TRO_1</a>	10120	Transfer Owner	✓	08-Jul-2008 15:13:27	08-Jul-2008 16:37:13		
<input type="checkbox"/>	<a href="#">BN-8Jul-01</a>	10105	Transfer Owner	✗	07-Jul-2008 23:12:43	07-Jul-2008 23:16:21		
<input type="checkbox"/>	<a href="#">Test</a>	10102	General	⚙	07-Jul-2008 15:46:48			
<input type="checkbox"/>	<a href="#">Test-General</a>	10081	General	✓	04-Jul-2008 03:13:23	04-Jul-2008 03:14:56		
<input type="checkbox"/>	<a href="#">VP_TR_1</a>	10060	Transfer Owner	⚙	01-Jul-2008 11:59:57			
<input type="checkbox"/>	<a href="#">ter3</a>	10041	Terminate	✓	29-Jan-2008 03:14:39	29-Jan-2008 03:17:56		
<input type="checkbox"/>	<a href="#">ter2</a>	10040	Terminate	✓	29-Jan-2008 02:45:24	29-Jan-2008 02:52:19		

You can perform the following batch management functions from the Mass Update Batches page:

- Searching for Existing Batches, page 7-8
- Creating Mass Update Batches, page 7-9
- Adding Item Instances to a Batch, page 7-11
- Viewing Batch Details, page 7-26
- Updating Mass Update Batches, page 7-27
- Removing Item Instances from a Batch, page 7-27
- Viewing Output of a Failed Mass Update Run, page 7-27
- Deleting a Batch, page 7-28

### See Also

- Overview of Mass Update Stage Operations, page 7-4

- About Mass Update Batch Types, page 7-2

## Automatic Validation

Throughout the process of creating or updating a batch, Oracle Installed Base performs automatic validation of the data, particularly when you explicitly save the data or submit the batch. Validation detects situations such as when you initially select item instances to be updated by the batch, but by the time that you submit the batch, those item instances have been expired.

When it detects an error, Oracle Installed Base displays a summary error message on the page, with a link that enables you to see more error details.

## Searching for Existing Mass Update Batches

You can search for existing Mass Update batches using the following search parameters:

- Batch Number
- Batch Name
- Type  
Either All Types or one of the existing mass update batch types
- Status  
Either Any Status or one of the values Created, Scheduled, In Progress, Successful, Failed
- Created By
- Item Instance

## Steps

1. Click the Mass Update tab.
2. In the Search area of the Mass Update Batches page, enter one or more search parameters, and click Go.

The batches that satisfy the search criteria appear in the lower part of the page.

## Comments

From the Mass Update Batches page, you can perform the following operations:

## See Also

- [Managing Mass Update Batches, page 7-7](#)
- [Overview of Mass Update Stage Operations, page 7-4](#)
- [About Mass Update Batch Types, page 7-2](#)

## Creating Mass Update Batches

When you create a mass update batch, you go through a series of steps to enter the information required to perform the mass update.

For an overview of the complete process, see [Overview of Mass Update Stage Operations, page 7-4](#)

If you are familiar with the stages of the mass update process, select the appropriate stage. If you are creating a completely new batch, start at the first stage.

## Related Topics

[Selecting Item Instances, page 7-9](#)

[Entering New Values for Transfer Owner Batches, page 7-12](#)

[Entering New Values for Move Batches, page 7-15](#)

[Entering New Values for General Batches, page 7-16](#)

[Entering New Values for Terminate Batches, page 7-17](#)

[Updating Associations,](#)

[Entering and Viewing Contract Options, page 7-20](#)

[Scheduling Mass Update Batches, page 7-25](#)

[Overview of Mass Update Stage Operations, page 7-4](#)

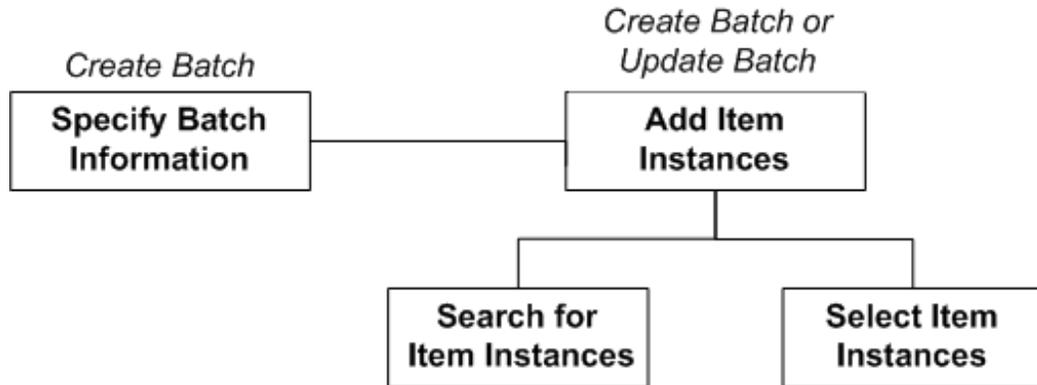
[Managing Mass Update Batches, page 7-7](#)

## Selecting Item Instances

This is the first stage in the batch creation process, and is also available when you update a batch.

What you can do at this stage depends on whether you are creating a new batch, or updating an existing one.

When creating a new batch, you specify general batch information, such as a batch name. Then, both during batch creation or subsequent updates to the batch, you can add item instances to the batch, before you submit the batch.



This section includes the following topics:

- Creating a New Batch, page 7-10
- Adding Item Instances to a Batch, page 7-11

#### See Also

- Overview of Mass Update Stage Operations, page 7-4
- Creating Mass Update Batches, page 7-9

## Creating a New Batch

When you create a new mass update batch, you must first choose the batch type and give the batch a name.

If the batch type is Transfer Owner, you must also select the owner name and owner account.

You can also enter a Note for the batch. This note will be automatically added to all the item instances of the batch if the batch mass update completes successfully.

#### Steps

1. Click the Mass Update tab.
2. In the Create Batch field, select the batch type from the list of values, and click Go.  
The Create Batch page for your selected batch type appears.

3. Enter a Batch Name for your batch.
4. For Transfer Owner batches only, select a Current Owner Name and an Owner Account Number.
5. Optionally, enter Note information.  
The Note information is added to each item instance of the batch if the batch executes successfully.
6. You may proceed in either of the following ways:
  - Add item instances to the batch, page 7-11
  - Save the batch details you have entered so far, and add more details later.

## Adding Item Instances to a Batch

To add item instances to a mass update batch, you must be in the process of either creating or updating the batch, and in the Select Item Instances stage.

You search for item instances, then you select the item instances to add to the batch.

**Note:** The Mass Update process automatically includes the parent instance if a child component-of instance is selected.

Use the Show Root Item Instances Only check box on the Item Instance Search page to search only the parent/root item instances based on the search fields. For given search criteria, child item instances will not appear in the search result.

## Steps

### To add an item instance to a batch:

1. In the Select Item Instances page, click Add.  
The Add Item Instances page appears.
2. Perform either a simple or an advanced search for item instances in the top part of the page.

The results of the search appear in the lower part of the page.

**Note:** For Transfer Owner batches, the current owner party number and owner account number are automatically added to the search criteria. You cannot select different values for these fields using the advanced search options.

3. In the results area, you can perform the following actions:
  - Click an item instance hyperlink to see the item instance details.
  - Select the item instances to be added to the mass update batch, then click Apply.
  - Click Cancel - to add no item instances to the batch.

## Related Topics

[Creating Mass Update Batches, page 7-9](#)

[Entering New Values for Transfer Batches, page 7-12](#)

[Entering New Values for Move Batches, page 7-15](#)

[Entering New Values for General Batches, page 7-16](#)

[Entering New Values for Terminate Batches, page 7-17](#)

## Entering New Values for Transfer Owner Batches

In this page, you enter new attribute values for mass update batches of type Transfer Owner. The page identifies the batch name, the current owner, and the current owner account number selected for transfer.

## Steps

1. You must select values for the following attributes of the new owner:

- Owner Party Name or Owner Party Number (selecting one of the values causes the other to be automatically filled in)
  - Owner Account Number.
2. You may also specify a new Transfer Date, which must be before the batch scheduled date.
  3. In addition, you can enter new values for the following fields:
    - General Fields, page 7-13
    - New Current and Install Location Fields, page 7-14
    - New Bill To and Ship To Location Fields, page 7-15
    - Additional Attributes, page 7-15
  4. Save your changes.

#### See Also

- Creating Mass Update Batches, page 7-9
- Selecting Item Instances, page 7-9
- Updating Associations,

## Entering New Value Fields

Depending on the mass update batch, there are different groups of new value fields that you can enter.

This section consists of the following topics:

- Entering New General Fields, page 7-13
- Entering New Current and Install Location Fields, page 7-14
- Entering New Bill To and Ship To Location Fields, page 7-15
- Entering New Additional Attribute Fields, page 7-15

## Entering New General Fields

For all mass update batch types, you can enter new values for the following fields:

- Status

For Terminate mass update batches, you can enter only a terminable status; for the other batch types, you can enter only a non-terminable status.

- Version Label

In addition, for all mass update batch types except Terminate, you can enter new values for the following fields:

- External Reference
- Version Label
- System

You can only change the System Name to a system that belongs to the owner with the current owner account number.

## Entering New Current and Install Location Fields

### New Current Location Fields

These fields specify a new current location for all item instances being transferred or moved.

For Transfer Owner batches, you can enter values for the current location fields; for Move batches, you *must* enter new values for either these fields or the new install location fields.

### New Install Location Fields

These fields specify a new install location for all item instances being transferred or moved.

For Transfer Owner batches, you can enter values for the install location fields; for Move batches, you *must* enter new values for either these fields or the new current location fields.

You can select the check box "Same as current" to select the install location to be the same as the current location; if you select this check box, the other fields in this page area are hidden.

### Steps (for both Current and Install Location Fields)

1. Select a Type.
2. If, for the Type, you selected HZ Location, Vendor Site, or Internal, you must select a value for the Address 1 field - the list of values shows all the Address1 fields in the HZ locations table.

3. If, for the Type, you selected Party Site, you can select values for the following fields:

- Party Name and Party Number

If the Install parameter "Show all parties" is set to No, you can only select related parties from the active parties in the HZ Parties table. Selecting a value for one of the fields Party Name or Party Number causes the other field to be automatically filled in.

- Party Site Number

Select from all the valid location numbers for the selected party.

- Address 1

Select from all the valid Address1 values for the selected party.

## Entering New Bill To and Ship To Location Fields

These fields specify new Bill To locations and new Ship To locations for all item instances being transferred or moved.

For both Bill To and Ship To locations, you can select values for the following fields:

- Party Name and Party Number

If the Install parameter "Show all parties" is set to No, you can only select related parties from the active parties in the HZ Parties table. Selecting a value for one of the fields Party Name or Party Number causes the other field to be automatically filled in.

- Party Site Number

Select from all the valid location numbers for the selected party.

- Address 1

Select from all the valid Address1 values for the selected party.

## Entering New Additional Attribute Fields

The user-defined additional attributes appear that are common to the item instances selected. You can enter new values for the additional attributes that you want to apply to all the item instances in the batch.

## Entering New Values for Move Batches

In this page, you enter new attribute values for mass update batches of type Move.

## Steps

1. You must select at least one new value in either the New Current Location or the New Install To Location Fields, page 7-14.
2. In addition, you can enter new values for the following fields:
  - General Fields, page 7-13
  - New Bill To and Ship To Location Fields, page 7-15
3. Save your changes.

## See Also

- Creating Mass Update Batches, page 7-9
- Selecting Item Instances, page 7-9
- Updating Associations,

## Entering New Values for General Batches

In this page, you enter new attribute values for mass update batches of type General.

## Steps

1. You can enter new values for the following fields:
  - General Fields, page 7-13
  - Additional Attributes, page 7-15

**Note:** You must enter at least one value for update.

2. Save your changes.

## See Also

- Creating Mass Update Batches, page 7-9
- Selecting Item Instances, page 7-9
- Updating Associations,

## Entering New Values for Terminate Batches

In this page, you enter new attribute values for mass update batches of type Terminate.

### Steps

1. You must enter an end date to expire all the item instances in the batch.
2. You can optionally enter a new terminable status for the item instances in the batch.
3. In addition, you can enter new values for the following fields:
  - General Fields, page 7-13
  - Additional Attributes, page 7-15
4. Save your changes.

### See Also

- Creating Mass Update Batches, page 7-9
- Selecting Item Instances, page 7-9
- Updating Associations,

## Updating Associations

In the Update Associations page, you can expire existing associations and add associations. For the new associations, you can also add contact and account information.

The page contains the following screen areas:

- Current Associations
- New Associations

### Current Associations

The Current Associations area shows a list of all the distinct associations - apart from Owner - that belong to the item instances in the batch. For each distinct association, the list also displays, as a link, the number of affected item instances that have that association.

In the Current Associations area, the main operation to perform is to select item instances whose associations you want to expire.

You can also update contacts for a current association. For more information, see [Updating Contacts for Current Associations](#), page 7-17.

## Updating Contacts for Current Associations

Use the Update Contacts page to change the contacts for a current association. You can access this page through one of the following navigations:

- View Batch page (Install Base Agent User > Mass Update > Search for a batch > Click the Batch number link > Click the Update Contacts button).
- Update Batch page (Install Base Agent User > Mass Update > Search for a batch > Click the Update icon in the Update column).

### Create Batch (General): Update Associations

Item Instance Counters Mass Update

Select Item Instances: Previously visited step Enter New Values: Previously visited step Update Associations: Active step Contracts: Next step Schedule: Next step

Create Batch (General) : Update Associations Cancel Save For Later Back Step 2 of 5 Next

Current Associations Batch Name Documentation

ⓘ TIP This table excludes the owner association

Select Object: Expire Restore | Expire All Restore All | +++

Relationship	Name	Number	Source	Expire	Affected Item Instances	Update Contacts
<input type="checkbox"/> Bill To	American Telephone & Telegraph	1001	Party		1	

### To update contacts for a current association:

1. Navigate to the Update Contacts page.
2. Click the **Add Contact** button.
3. Select the contacts to add.
4. Click Save.

Update Contacts

Click 'Save' to save the changes.

Save

Current Contacts

Select Object: **Expire** Restore

<input type="checkbox"/>	Source	Name	Relationship	Classification	Business Or Personal	Email	Phone Num
<input type="checkbox"/>	Party	Chris Lapastora	BILL_TO	Primary	Personal	nobody@localhost	

New Contacts

Add Contact

Source	Name	Number	Relationship	Classification	Active From	Active To
Party	Vision Corporation	1860			(17-Jul-2023)	

5. Note the updated list of contacts on the page.

Relationship	Name	Number	Type	Classification	Telecommunication	Active From	Active To	Remove
Bill To	Chris Lapastora	1589	Party		Bill To Party/Account/Contact			
Ship To	Vision Corporation	1860	Party		Ship To Party/Account/Contact			

6. Click **Next**.

7. Click **Next**.

8. Select a Schedule option:

- As soon as possible
- Start at a specific date and time: Select a date.

9. Click **Submit**.

## Steps to Expire Current Associations

Use the Update Associations page to expire item instances.

1. To expire all associations of all item instances in the batch, click **Expire All**.
2. To expire the associations of all item instances with a particular association, select the association and click **Expire**.
3. To expire individual item instances of a particular association:
  1. Click the **Affected Item Instances** link for the association.

The page that appears displays details of all the item instances with that association. For a particular item instance, you can also view the contacts and accounts for the association.

2. Select one or more individual item instances to expire their associations as part of the mass update batch.
4. You can undo your selections for expiration as follows:
  1. Click Restore All to deselect all selected item instances for all associations.
  2. Select an association, and click Restore.
5. Save your changes.

### **New Associations Area**

In the New Associations area, you can add new associations to all the item instances in the batch. After the association is added, the user can add contacts and accounts for the new association.

### **Steps to Add New Associations**

1. To add a new association, click Add Association, and enter values for the new association.
2. If you want to add a contact for the new association, select the association, click Add Contact, and enter values for the contact.
3. If you want to add an account for the new association, select the association, click Add Account, and enter values for the account.
4. You can undo your additions, by clicking the Remove icon of each association, contact, or account that you do not want to be included in the mass update batch.
5. Save your changes.

### **See Also**

- Creating Mass Update Batches, page 7-9
- Entering and Viewing Contract Options, page 7-20

## **Entering and Viewing Contract Options**

The Contracts Options page shows contracts impacted by the selected item instances,

and provides you with a number of options for indicating how the instance transfer should affect associated services.

**Note:** If the item instances selected in a Transfer Owner batch result in contracts from multiple operating units being selected for transfer, a warning appears on the Contracts Options page, and advises that Bill To and Ship To addresses for the new service contracts will be defaulted from customer setup.

For Transfer Owner batches, and, to a lesser extent, for Terminate batches, you must specify one or more contract rules.

### Contract Rules

For Terminate and Transfer Owner batches, you must provide some contract transfer rule information.

For Terminate batches, you must provide a termination reason; you can also select a credit option.

For Transfer Owner batches, you must first choose a Transfer Option from the following:

- Transfer and Terminate
- Terminate
- Use Coverage Terms
- No Updates to Contracts

### Contract Rule Fields

<b>Update Batch (Transfer Owner) : Contract Options</b>			
Batch Name	<b>sm-batch</b>	New Owner Type	<b>Party</b>
Current Owner Type	<b>Party</b>	Owner	<b>AT&amp;T Universal Card</b>
Owner	<b>Computer Service and Rentals</b>	Owner Account Number	<b>1005</b>
Owner Account Number	<b>1006</b>	Transfer Date	

The amount of information available for viewing and updating depends on your choice of Transfer Option.

If Transfer Option=Transfer and Terminate or Use Coverage Terms, all the fields described subsequently in this section apply and are available.

For Transfer Option=Terminate, the only fields available are Termination Reason and Credit Option.

For Transfer Option=No Updates to Contracts, no fields are available.

**Note:** Unless stated otherwise, all fields are optional.

### **Termination Reason**

Mandatory field when Transfer Option=Terminate, otherwise optional.

### **Credit Option**

Mandatory field when Transfer Option=Terminate, otherwise optional.

There are three options for issuing a credit on the original service contract:

- Calculated - Issue a calculated credit for the prorated value of services transferred.
- Full - Issue a full credit for the services transferred.
- None - Issue no credit for services transferred.

### **Billing Profile**

The list of values contains all billing profiles created for the new owner as well as generic billing profiles. Selecting the billing profile sets the billing schedule, invoicing rule and accounting rule for the transferred lines. Leaving the billing profile blank results in a billing schedule with one-time billing, an invoicing rule of Advanced and an accounting rule of Immediate.

### **Keep Existing Contract Number**

Selecting this check box results in new contracts retaining the same contract number as the source contracts for the transferred services.

### **Modifier**

You can enter a modifier that will apply to all contracts created for transferred services. If no value is entered, the modifier will be the value for the profile option OKS: Transferred Contract Identifier concatenated with a datestamp.

### **Contract Status**

Mandatory field, default value is Entered. The list of values contains all statuses that map to status types Entered and Active.

### **Bill Transferred Services**

There are three possible values: Yes, No, and At Renewal.

If you select At Renewal, billing behavior of transferred services will be as follows:

- Service transferred from Active or Signed contracts

The Bill Services flag on the new contract is set to At Renewal. The contract will not bill unless you manually override the flag in the service contracts authoring form.

- Service transferred from Entered contracts  
The Bill Services flag on the new contract is set to Yes.

### **Transfer Notes**

Select the check box to transfer header notes; line coverage notes always transfer.

### **Transfer Attachments**

Select the check box to transfer attachments. When selected, all attachments on the original contract are transferred to the new contract.

### **Bill To Customer**

Defaults from the new Bill To customer entered for the item instances, provided the Bill To customer is related to the new owner account. If not related, the Bill To customer field has no default value and you can enter a customer.

You can optionally override the defaulted value with a different Bill To customer for transferred services.

If the Bill To customer is different from the new owner, the contract Bill To customer will also be added to the contract as a third party.

If no contract Bill To customer is specified in the batch, the contract Bill To customer will be derived from the new owner entered for the Transfer Owner batch.

The Bill To customer entered is used for all contracts created for the Transfer Owner batch.

### **Bill To Account**

Follows same rules as Bill To Customer.

### **Bill To Address**

You can only select a contract Bill To address if all of the impacted contracts map to the same operating unit. The list of values only contains addresses that are associated with that operating unit. If no value is entered, the Bill To address will be defaulted from TCA - the primary Bill To address for the Bill To account specified for the new contract.

If the impacted contracts are from multiple operating units, you will not be able to enter an address for the new Bill To customer. In such cases, the Bill To address will be derived from the primary Bill To address defined for the Bill To account for each operating unit.

### **Bill To Contact**

Follows the same rules as Bill To Customer.

### **Ship To Customer**

Follows the same rules as Bill To Customer.

### **Ship To Account**

Follows the same rules as Bill To Customer.

## Ship To Address

Follows the same rules as Bill To Address.

## Impacted Contracts

For all batch types, you can view the contracts to be impacted by the batch updates. You can select the type of display for the contracts:

- Contract

Contract-level information appears in a "master" table. Service line details of the contract selected in the master table appear in the "details" table underneath.

Impacted Contracts									
Display <input type="text" value="Contract"/> <input type="button" value="Go"/>									
Select Contract	Status	Start Date	End Date	Amount	Billed Amount	Transfer Amount	Credit Amount	Currency	
<input checked="" type="radio"/> 21995	Active	15-Jul-2007	14-Jul-2008	407,40	407,40	5,57	5,57	USD	
Contract 21995: Lines									
Line	Service Type	Service Name	Status	Start Date	End Date	Amount	Billed Amount	Transfer Amount	Credit Amount
1	Extended Warranty	WR23763	Active	15-Jul-2007	14-Jul-2008	0,00	407,40	5,57	5,57

- Service Line

Contract and service line information appears in a "master" table. Subline details of the service line selected in the master table appear in the "details" table underneath.

Impacted Contracts											
Display <input type="text" value="Service Lines"/> <input type="button" value="Go"/>											
Select Contract	Line	Service Type	Service Name	Status	Start Date	End Date	Amount	Billed Amount	Transfer Amount	Credit Amount	Currency
<input checked="" type="radio"/> 21995	1	Extended Warranty	WR23763	Active	15-Jul-2007	14-Jul-2008	407,40	0,00	0,00	5,57	USD
Contract 21995, Line 1: Covered Levels											
Line	Name	Item Instance	Status	Start Date	End Date	Amount	Billed Amount	Transfer Amount	Credit Amount	Serial Number	
L.1	ASS4888	41361	Active	15-Jul-2007	14-Jul-2008	407,40	407,40	5,57	5,57		

- Covered Levels

Contract, subline, and covered level information appears in a table. You can optionally view item instance details for the covered products.

Impacted Contracts										
Display <input type="text" value="Covered Levels"/> <input type="button" value="Go"/>										
Details	Contract	Line	Covered Level Name	Service Name	Status	Start Date	End Date	Amount	Currency	
<input checked="" type="checkbox"/> Hide	21995	1.1	ASS4888	WR23763	Active	15-Jul-2007	14-Jul-2008	407,40	USD	
						Item Instance	<b>41361</b>		Billed Amount	<b>407,40</b>
						Serial Number			Transfer Amount	<b>5,57</b>
						External Reference			Credit Amount	<b>5,57</b>
						System				

Key fields in the contract, service line and subline tables are Transfer Amount and Credit Amount. The latter is the amount that results from a termination.

### Steps (for Transfer and Terminate batches)

1. Select and enter the contract transfer rule values that you require for the current batch.
2. Save your changes.

### Comments

1. If you save a batch with Bill To and Ship To details, then later try to change the New Owner for the batch, you will receive an error message indicating that dependent data (Bill To and Ship To details) have been entered for the existing customer in the Contract Options page. You must remove the Bill To and Ship To details in the Contracts Options page before you can change the new owner.
2. If you save a batch, and subsequently the results set of the Impacted Contracts has changed to include contracts from multiple operating units, the Contract Options page will display a warning message and the Bill To and Ship To addresses and contacts will be greyed out.
3. The consequences of executing the mass update batch are as follows:
  - If the services in the impacted contracts are to be terminated, then the values entered in the Contract Options page for Termination Reason and Credit Option are applied to the terminated services.
  - If the services in the impacted contracts are to be transferred, then all the contract transfer rules entered in the Contract Options page are applied to the new contracts created for the transferred services.

### See Also

- [Creating Mass Update Batches, page 7-9](#)
- [Updating Associations,](#)
- [Scheduling Mass Update Batches, page 7-25](#)

## Scheduling Mass Update Batches

After entering all the details for the mass update batch, you can submit the batch for execution. You must run the Initiate Mass Edit concurrent program to perform the mass updates. The Initiate Mass Edit concurrent request executes all the mass update batches that are available for processing at the time, and generates a single output file.

For more information regarding this concurrent program, see [Run the Initiate Mass Edit](#)

Program, *Oracle Installed Base Implementation Guide*.

## Steps

1. Select your Submit option, either to submit as soon as possible, or to submit at a specified date and time.

**Note:** For Transfer Owner batches, if you specified the transfer date, the batch submission date must be after the transfer date.

2. Click Submit.

The status of the batch changes to Scheduled. For more information on batch statuses, and the operations that you can perform on a batch after scheduling, see *Mass Update Batch Statuses*, page 7-6 and *Viewing Output of a Failed Mass Update Batch*, page 7-27.

## See Also

- *Creating Mass Update Batches*, page 7-9
- *Managing Mass Update Batches*, page 7-7

## Viewing Mass Update Batch Details

The View Batch page displays all the following batch details:

- General batch information, including the ability to:
  - View the existing associations to the party and their corresponding contacts.
  - Delete or update the contact information of the existing association.
  - Add new contacts to the existing association or to the new associations.
- Selected item instances
- New values, with location and association details
- Contract information, showing contract transfer rules, and impacted contracts

## See Also

- *Overview of Mass Update Stage Operations*, page 7-4
- *Managing Mass Update Batches*, page 7-7

## Updating Mass Update Batches

You can update a mass update batch any time before you submit the batch. Typically, after you have created the batch, you complete the information required for the mass update in one or more "update" sessions, before you submit the batch for execution.

### Steps

1. Search for an existing mass update batch, page 7-8.
2. Click the Update icon for the batch that you want to update.
3. You can change batch details in any of the stages allowed for your mass update batch type.

### See Also

- Overview of Mass Update Stage Operations, page 7-4
- Creating Mass Update Batches, page 7-9
- Managing Mass Update Batches, page 7-7

## Removing Item Instances from Mass Update Batches

You can remove selected item instances from a mass update batch before you submit the batch.

### Steps

1. Search for an existing mass update batch, page 7-8.
2. In the Item Instances area, either click Remove All or select the item instances individually and click Remove.

### See Also

- Overview of Mass Update Stage Operations, page 7-4
- Managing Mass Update Batches, page 7-7

## Viewing Output of a Failed Mass Update Batch

When a mass update run finishes, it produces an output file of the results of the

processing for each of the batches executed during that run.

If a batch that was executed as part of the run had any errors, the batch status is set to Failed. You can view the output of the run that included the batch execution, to see details of the item instance update failures.

## Steps

1. Search for an existing mass update batch, page 7-8.
2. Click the View Output icon of a batch to see if the batch was included.
3. For the error records, make corrections to the associated item instances, and resubmit the batch.

## See Also

- Overview of Mass Update Stage Operations, page 7-4
- Managing Mass Update Batches, page 7-7

## Deleting Mass Update Batches

You can delete any batch that is not in progress. When you delete a batch that has not yet been executed, any contract options that you selected for the batch are backed out, that is, not implemented.

## Steps

1. Search for an existing mass update batch, page 7-8.
2. In the Item Instances area, select one or more batches, and click Delete.

## See Also

- Overview of Mass Update Stage Operations, page 7-4
- Managing Mass Update Batches, page 7-7

## Creating and Managing Mass Update Batches Using Web ADI

You can use the Oracle Web Applications Desktop Integrator (Web ADI) to create and manage mass item instances. Web ADI integrates with Microsoft Excel and enables you to bring mass update batch data to a spreadsheet where familiar data entry and modeling techniques can be used to complete mass updates.

See *Oracle Web Applications Desktop Integrator Implementation and Administration Guide*.

## Steps

1. Click the Mass Update tab.
2. In the Create Batch field, select the Web ADI type, and click the Go button.
3. Enter Batch Name and Batch Description.
4. Select one of these values from the Action drop-down list:
  - *Manage Extended Attributes*: Select this option to download the template that contain attributes at the item instance level to an Excel spreadsheet.  
View and modify the attribute values, and then upload them back to Installed Base. Attributes downloaded against the item instance can be from different access levels such as Global, Item, Category, and Instance.  
See *Managing Extended Attributes*, page 7-36.
  - *Manage Item Instances*: Select this option to create new instances or update existing instances by copying data from a different version of Excel.  
You can then copy the row into the empty template and upload to make changes.
  - *Search and Manage Instances*: Select this option to search for and manage existing item instances.
5. Click the *Manage Item Instances*: option, and then click the **Go** button.  
The Create Document page appears.

Item Instance Counters **Mass Update**

---

**Create Document** **Create**

---

**Primary Parameters**

Integrator CSI Instances Mass Update WebADI Integrator

\* Viewer Excel 2007

Reporting Flag

Layout CSI Instances Mass Update Default Update Layout

\* Content CSI Instances Mass Update WebADI Content

Mapping CSI Instances Mass Update Mapping for Update Layout

---

**Content Parameters**

Instance Number

Instance Number

Serial Number

Serial Number

Owner Party Id

Owner Party Id

Inventory Item Id

Inventory Item Id

Batch Id

Batch Id

Action Code

Action Code

Show Entire Config

CSI Root Instance

6. Select the Viewer that you want to use (required).
  7. Enter values in other fields on the page such as:
    - Instance Number - you can enter multiple instance numbers separated by commas
    - Serial Number - you can enter multiple serial numbers separated by commas
    - Owner Party ID
    - Inventory Item ID
    - Batch ID
  8. The default value for the Action Code appears.
  9. The Show Entire Configuration and CSI Root Instance fields work in conjunction with the value in the Instance Number field.
  10. Click the **Create** button.
- The following Information message appears:



11. Click Open or Save to download the file.  
The system creates the template (Excel spreadsheet).
12. Open the file.  
Click the Enable Macros button.
13. Update the spreadsheet and save your changes.
14. Select Oracle, Upload from the Microsoft Excel toolbar to upload the new instance.
15. This process synchronizes the data in the Excel spreadsheet with the live data in Web ADI. See *Oracle Web Applications Desktop Integrator Implementation and Administration Guide*.

The Initiate Mass Edit asynchronous concurrent program is automatically triggered when the Upload option is selected. The program processes the records interface table to create or update the item instances. You can check the status of the process, and view a log that provides all information related to created instances and updated instances. It also gives error details if something cannot be created or updated.

### Searching for and Managing Item Instances Using Web ADI

1. Click the Mass Update Batches tab, the Mass Batch Updates page appears.
2. In the Create Batch field, select the Web ADI type.
3. Click Go, and the Create Batch (WebADI). The Choose Action page appears.
4. Click Simple Search to perform a simple search.

## Item Instances: Web ADI - Simple Search

Item Instance Counters **Mass Update**

Mass Update > Create Batch (Web ADI) Choose Action >

### Item Instances: Web ADI

**Simple Search** Advanced Search

Note that the search is case insensitive

Instance Number  Comma separated parameters supported

Serial Number  Comma separated parameters supported

Show Entire Configuration

Show Root Instance

Applicable only for Item Instance and Serial Number Field

Owner Name

Sales Order Number

System

Show Root Item Instances Only

...

Item	Instance Number	Access Level	Category	Attribute Name	Attribute Activation Date	Attribute Value
No search conducted.						

5. Enter values in any of the fields on the page including Instance Number, Serial Number, Item, Contract Number, Owner Account Number, Owner Name, Asset Number, Sales Order Number, and System.
6. You have the option to select the Show Entire Configuration and Show Root Instance check boxes. These fields work in conjunction with the Instance Number field for item instance number searches only.
7. Use the Show Root Item Instances Only check box to specify to search only the parent/root item instances based on the search fields. For given search criteria, child item instances will not appear in the search result.
8. To perform an advanced search, click Advanced Search.  
You can select parameters such as Asset Number, Contract Number, Installed Date, Item, Item Instance, Item Instance Type, Item Type, Operating Unit, Owner Account Number, Owner Party Name, Party Account Number, Purchase Order Number, Return By Date, Sales Order Number, Serial Number, Shipped On Date, Status, and System. You can search or update the item instances, download them to an Microsoft Excel sheet and upload it after modification using WebADI.
9. View the search results on the page.
10. Optionally click Export External Attributes to export item instances based upon the search criteria. See Managing Extended Attributes, page 7-36.
11. Select the Viewer that you want to use.
12. Select or enter values in other fields on the page.
13. Click the Create button.  
The file is downloaded to your desktop.
14. Click Open or Save to download the file.

15. Open the file, and click the Enable Macros button.
16. Update the file, and save your work.
17. Select Oracle, Upload from the Microsoft Excel toolbar to upload the updated instance.

An asynchronous concurrent program is triggered when the Upload option is selected. The program processes the records interface table to create or update the item instances.

### Columns in the Web ADI Template

Column	List of Values (LOV)?	Client Validation	Comments
ITEM_INSTANCE_ID	-	None	READ_ONLY column. Would be present for only queried instances. Column will be empty in new instances.
CONTRACT_NUMBER	Yes	-	Value can be chosen from LOV
INSTANCE_NUMBER	-	-	-
ITEM_ORGANIZATION	-	-	-
ITEM_NAME	Yes	Check that the valid item is chosen from LOV	-
ITEM_DESCRIPTION	Yes	-	Default value will appear
ITEM_REVISION	Yes	Check if revision is valid for item ID	-
UNIT_OF_MEASURE	Yes	-	Default value appears and is read-only

Column	List of Values (LOV)?	Client Validation	Comments
QUANTITY	-	-	-
SERIAL_NUMBER	Yes	-	Free Text and can be chosen from LOV
LOT_NUMBER	-	Yes	Can be chosen from LOV
INSTANCE_STATUS	Yes	Check that valid status code is entered	Default value appears
INSTANCE_DESCRIPTION	-	-	-
EXTERNAL_REFERENCE	-	-	-
OPERATIONAL_STATUS	Yes	Check that valid operational status is entered	Default value appears as 'NOT USED'
INTERNALLY_OWNED	-	-	Y/N (default N)
OWNER_PARTY_TYPE	Yes	-	-
OWNER_PARTY_NUMBER	Yes	-	-
OWNER_ACCOUNT_NUMBER	Yes	-	-
CURRENT_LOCATION_TYPE	Yes	-	-
CURRENT_LOCATION	Yes	-	-
CURRENT_LOCATION_PARTY	Yes	-	-

Column	List of Values (LOV)?	Client Validation	Comments
INSTALL_LOCATION_TYPE	Yes	-	-
INSTALL_LOCATION	Yes	-	-
INSTALL_LOCATION_PARTY	Yes	-	-
BILLTO_PARTY_TYPE	-	-	-
BILLTO_PARTY_NUMBER	-	-	-
BILLTO_ACCOUNT_NUMBER	-	-	-
SHIPTO_PARTY_TYPE	-	-	-
SHIPTO_PARTY_NUMBER	Yes	-	-
SHIPTO_ACCOUNT_NUMBER	Yes	-	-
INSTANCE_TYPE	Yes	-	-
VERSION_LABEL	-	-	-
INSTALL_DATE	Yes	Date Picker	-
CREATION_DATE	Yes	Date Picker	-
EXPIRATION_DATE	Yes	Date Picker	-
CREATE_DEFAULT_CONTRACT	-	-	Y/N (Default is N)

Column	List of Values (LOV)?	Client Validation	Comments
PARENT_INSTANCE	Yes	Valid item instance number	Enter the parent instance for the child instance.
SPLIT_QUANTITY	-	-	Only applicable when update and non-serialized item instance. Enter this value to split and create a new instance of the entered quantity.
MERGE_INSTANCE	Yes	Valid item instance number	Only applicable when update and non-serialized item instance. Choose the item instance with which this instance needs to be merged.
FLEX_FIELDS	-	-	-

## Managing Extended Attributes

Use the Manage Extended Attributes action to update multiple extended attribute values for multiple item instances. You can view the extended attributes before exporting them in the Web ADI template. You can download the template that contains the extended attributes, modify the values, and then upload them back into the system.

The fields for extended attributes in the template are:

- Item
- Instance Number
- Access Level
- Category
- Attribute Name
- Attribute Activation Date

- Attribute Value

**To download extended attributes:**

1. Navigate to the Mass Update Batches page (Installed Base User > Mass Update > Mass Update).
2. In the Create Batch field, select the Web ADI type, and click the Go button.  
The Create Batch (Web ADI): Choose Action page appears.
3. Enter values for the Batch Name (required).
4. Select the Manage Extended Attributes value in the Action field.
5. Click Go, and the Item Instances: Web ADI page appears.
6. Enter selection criteria using the Simple Search or Advanced Search.
7. View the search results on the page.

The screenshot shows the 'Item Instances: Web ADI' page. At the top, there are navigation tabs for 'Item Instance', 'Counters', and 'Mass Update'. Below this is a breadcrumb trail: 'Mass Update > Create Batch (Web ADI): Choose Action > Item Instances: Web ADI'. There are two search options: 'Simple Search' and 'Advanced Search'. A note states 'Note that the search is case insensitive'. The search filters include: Instance Number (10000), Serial Number, Owner Name, Sales Order Number, System, Item, Contract Number, Owner Account Number, and Asset Number. There are checkboxes for 'Show Entire Configuration', 'Show Root Instance', and 'Show Root Item Instances Only'. Below the filters are 'Go' and 'Clear' buttons. At the bottom, there is an 'Export Extended Attributes' button and a table of extended attributes.

Item	Instance Number	Access Level	Category	Attribute Name	Attribute Activation Date	Attribute Value
AS92689	10000	GLOBAL		AHL_TEMP_SERIAL_NUM	2002-02-22 00:00:00.0	
AS92689	10000	GLOBAL		AHL_MFG_DATE	2002-02-22 00:00:00.0	
AS92689	10000	GLOBAL		PH NO	2008-02-04 00:00:00.0	

8. Click the Export Extended Attributes button to download the attribute template.  
View the extended attribute values that will be included in the Web ADI template.
9. Click Create.  
The file is downloaded to your desktop.
10. Click Open or Save to download the file.
11. Open the file, and click the Enable Macros button.

12. Update the file, and save your work.
13. Select Oracle, Upload from the Microsoft Excel toolbar to upload the updated attributes.

---

# Performing Oracle Installed Base Related Tasks in Other Oracle Applications

This chapter covers the following topics:

- Overview
- Using the Order Management Transaction Details Window
- Using the WIP Component Install Window
- Using the Order Management Item Instance Query Window
- Tracking Customer-Owned Item Instances Using Oracle Installed Base

## Overview

Oracle Installed Base is integrated with many Oracle applications. This chapter describes the following operations performed in Oracle applications related to Oracle Installed Base:

- Using the Order Management Transaction Details Window, page 8-1
- Using the WIP Component Install Window, page 8-9
- Using the Order Management Item Instance Query Window, page 8-11

## Using the Order Management Transaction Details Window

In the Transaction Details window you can update Oracle Depot Repair with attributes provided for an item that is being sold or returned. In addition, you can update a referenced item instance.

This topic group covers the following topics:

- Accessing the Transaction Details Window, page 8-2

- The Transaction Details Window, page 8-2
- Replacing a Component, page 8-5
- Accessing the Installation Details HTML Page, page 8-7

## Accessing the Transaction Details Window

Unlike the main interfaces for end users in Oracle Depot Repair, the Transaction Details window is based on forms, not HTML. Therefore the window requires a different access procedure than does the main part of the application.

Access the Transaction Details window through the Sales Orders window as follows:

1. Use the URL, user name, and password provided by your local system administrator to log in to the Oracle Forms mode of Oracle Applications.
2. From the Responsibilities menu, select the Order Management Super User responsibility, and click OK.
3. From the Navigator, choose Orders, Returns > Sales Orders.  
The Sales Orders window appears.
4. Enter an appropriate sales order number in the Order Number field to populate the window.
5. In the Line Items tab, select a line.
6. Click Actions.  
The Actions window appears.
7. Select Installation Details and click OK.  
The Transactions Details window appears.

## The Transaction Details Window

The Transaction Details window is used to specify the transaction type used to update a source instance and non-source instance and to define multiple parties, contacts, accounts, organization assignments, configuration, and extended attributes for the source instance. In addition, a new system can be created for the instance from this window.

### Source Information Region

In this region you can define the updates to be made for the item being sold or returned on the sales order line.

### System Region

#### Auto Create Button

Use the Auto Create button to define a new system for the source instance. This process is similar to setting up a system and related information in the system setup in the HTML page. After setup here, you can use the system name to associate it with the source instance.

### Transaction Line Details Region

#### Source Transaction Details Tab

Use this tab to specify the attributes and transaction type for the item displayed in the Source Information region. This tab provides for specifying the Oracle Depot Repair transaction subtype, which is defined in the subtype name of the transaction type and subtype setup window. In that setup, the kind of actions that can happen to a source instance and its related non-source instance has already been defined. An LOV displays

only the subtypes defined for this source application.

This window can also be used to specify system, item, revision, instance type, item status, location type, installation location, installation date, serial/lot number being processed, instance number being referenced, in service date, external reference, version label, start date, and end date. For the instance, the following can be defined: party, configuration, organization assignment, extended attributes, accounts, and contacts. At the right-hand side of the window is a check box named Cascade Ownership, whose value defaults from an Oracle Installed Base Install Parameter. If this is selected, then whenever ownership of an item instance changes for a parent instance, the application cascades the party ownership of the parent to *all* its children for outbound transactions such as Shipment.

### **Parties Tab**

For a sales shipment line, the owner party is displayed and cannot be changed. In addition, other parties with different relationship types can be specified here for the source instance. Fields include party source, name, relationship, start date, and end date. For each of these parties, the Accounts tab and the Contacts tab can be used to define multiple accounts and contacts for the source item. The Accounts tab includes the following fields within the Accounts region: number, name, relationship, start date, and end date.

### **Replace/Upgrade Tab**

The Replace/Upgrade tab is used to specify the Replaced-by and Upgraded-from relationships between the instance in the source region and the one defined in the non-source region. If this page is used, then the non-source region must be populated.

### **Org Assignments Tab**

Here the various organization assignment such as Service Billed From can be specified for the source instance.

### **Extended Attributes Tab**

If any extended attribute has been defined for this item, instance, or category, then the values for these attributes can be entered here.

### **Accounts Tab**

This tab is used to define accounts for a party. For a shipped item on a sales order line, the owner account default is displayed. In addition, more accounts can be specified for the party of the source instance.

### **Contacts Tab**

This tab is used to define contacts for a party. Multiple contacts can be specified for the same party of the source instance.

### Non Source Transaction Details Tab

This tab is used to specify the attributes for the instance that is related to the one displayed in the Source Information region. An example of a non-source instance is an instance being replaced by the one being shipped in the source transaction. You can specify a parent instance and instance number when doing a replacement.

**Note:** The Transaction Subtype is entered only on source lines in the Source Transaction Details tab. This determines the mandatory attribute values in the non-source lines entered.

The LOV for Parent Instance lists all instances that are parents of the item that you entered in the Non Source Transaction Details tab and are customer items (not internally owned).

If you are replacing the highest node (top-level parent, assembly item) in a hierarchy, then directly enter an instance number without entering a value for Parent instance. This is existing functionality where you can only replace a top-level parent or stand-alone items.

The component replacement functionality includes the Return for Repair scenario where a subassembly has been returned for repair and is either repaired and shipped or a replacement is shipped. You can reference components that are to be replaced whether they are at a customer site or in inventory.

## Replacing a Component

The component replacement feature provides functionality to replace components in a hierarchical component-of configuration using Sales Order Installation and Transaction Details windows. Here are some characteristics of the feature:

- This enhancement addresses the business need of performing actual detachment of old components and attachment of new components in a configuration using a one-step process during sales order entry.
- New components are automatically covered under parent assembly service warranty contracts.
- The capability applies to tangible as well as intangible items such as Service or Software License.

The component replacement functionality has the following limitations:

- Component replacement does not support the addition of new items in a configuration.
- Component replacement is valid for a one-to-one item replacement or upgrade. No more than one item instance can be replaced or upgraded with a new instance.

- The item being replaced or upgraded must be in a component-of relationship in a configuration.
- Component replacement functionality is focused on external customer items and configurations

### **Business Process for Entering Transactions for Component Replacement**

Here is the business process for entering transactions for component replacement:

1. Cause: A need exists to ship an item replacement.
2. Enter a sales order.
3. Create order lines.
4. Enter transaction details (using Oracle Depot Repair windows).  
This is where you enter further details of the new item being shipped (optional) and the details of the item being replaced (mandatory).
5. Confirm and book the order.
6. Result: The item is replaced, and the instance information is updated.

### **Using the Feature: Details For Step 4 in the Business Process**

Use the following procedure as an example of entering transaction details for step 4 in the business process. You can use the seeded Replace value for Txn Subtype (transaction subtype) after making modifications as needed.

#### **Prerequisites**

Component replacement requires setting up Oracle Depot Repair transaction subtypes in the Transaction Subtypes window:

1. In the Transaction Subtypes region, the Name field must be set to the Replace subtype.
2. In the Source Info region, the value of Status must be Replacement.
3. In the Non Source Info region, the value of Status must be Replaced.

Refer to the *Oracle Depot Repair Implementation Guide* for details on using the window.

#### **Steps**

1. Select Installation Details from the Action button for a sales order line.  
This displays the Installed Base Transaction Details window.

2. Enter a value of Replace in the Transaction Subtype field in the Source Transaction Details tab.  

This tab is used to specify the transaction type to be used for the item being shipped.
3. Click the Parties and Accounts tabs to show the owner and the account respectively.  

These values default from the Order Management sales order setup.
4. Click the Non-Source Transaction Details tab.
5. Enter the item number, instance number, and serial number if the item is serialized. If you are replacing a component in a hierarchy, then enter the parent instance first and then select the appropriate component instance. If you are replacing the highest node (top level parent, assembly item) in a hierarchy, then you can directly enter an instance number without entering the parent instance.
6. Click the Replace/Upgrade tab.
7. Select the relationship type Replaced By.  

This value is derived from seeded Oracle Depot Repair Relationship Type setup codes. Enter the to-be-shipped item number in the inventory item field.

**Note:** If you were in the Source Transaction Details tab when you clicked the Replace/Upgrade subtab, then the relationship type shows as "Replacement for."
8. Select the Txfr Components check box if you want the components under the old item instance to be transferred under the new item instance. This feature works only if the new item is a standalone item with no components attached. If the new item has components attached, then the box is ignored and components from the old instance are not transferred.
9. Save your entries.  

Following shipment, Oracle Depot Repair creates a replaced-by relationship from the to-be-replaced instance to the to-be-shipped item.

## Accessing the Installation Details HTML Page

Users can create, update, delete, and query source and non-source transaction line details, party details, and account details in the Installation Details HTML page.

Access the Installation Details HTML page through the Order Management HTML user interface as follows:

1. Select the Order Management, HTML User Interface.
2. The Orders page appears with a list of orders.
3. Select an order and click the Order Lines tab.
4. In the Order Lines tab, select a line.
5. Click the Actions list to view the actions you can perform for a line, for example, Installation Details.

Orders

Order Lines

Saved Searches Simple Search

Select Order Line(s)  Go

Order Number	Customer Number	Date Ordered	Line Type	Status	On Hold	Ordered Item	Item Description	Qty	UCM	List Price	Selling Price	Extended Price
1004		25.06.2015 09:15:33	Standard (Line Invoicing)	Entered	No	SDOM Item 1	CM Item 1 with Data Buyer & Planner names	1	Ea			
1002		25.06.2015 09:59:41	Bill Only Line	Entered	No	GM 100	Plate Item	1	Ea			
1003		25.06.2015 09:57:54	Standard (Line Invoicing)	Entered	No	QP A354808	QP A354808	1	Ea			
1002		25.06.2015 09:56:43	Standard (Line Invoicing)	Entered	Yes	A354808	A354808	1	Ea			
1005		25.06.2015 05:22:56	Standard (Line Invoicing)	Entered	Yes	A354808	A354808	1	Ea			
1005		25.06.2015 05:22:56	Standard (Line Invoicing)	Entered	Yes	A354808	A354808	10	Ea			
1001		25.06.2015 04:57:22	Standard (Line Invoicing)	Invoice In Progress	No	CM11002	Mouse Pad	55	Ea	5.00	5.00	275.00
1001		25.06.2015 04:47:03	Standard (Line Invoicing)	Entered	Yes	A354808	A354808	3	Ea	1,700.00	1,700.00	5,100.00
1001		25.06.2015 04:47:03	Standard (Line Invoicing)	Entered	No	CM11002	Mouse Pad	1	Ea	5.00	5.00	5.00
2222		25.06.2015 04:36:11	Standard (Line Invoicing)	Booked	Yes	A354808	A354808	1	Ea	1,700.00	1,700.00	1,700.00

Rows 1 to 30

6. Select Installation Details and click Go.  
The Installation Details page appears.
7. Click the Non Source Transaction Details tab to view the non source installation details for serviceable items.

## Non Source Transaction Details page

Installation Details for Sales Order 66070, Line 1, Item PS\_Non\_Source

Source Transaction Type: Order Management - Ship/Fulfill  
Group Header Ref: 66070  
Source Header Ref: 66070  
Source Transaction ID: 706820  
Source Line Ref: 1

Item: PS\_Non\_Source  
Quantity: 1  
UOM: Ea  
Qty Entered: 1  
Revision: 1

Transaction Line Details

Instance #/Type	System	Instance Type	Item Condition	Location Type	Installation Location	Install Date	Quantity	Serial Num
#	Chattanooga LAN Handy	Base Station	Active	HZ Location	33 MAIN ST	01-Jan-2022	1	PS01012022A

## Using the WIP Component Install Window

Oracle Installed Base configurations are generally created using job requirement quantities. When the issued quantity does not match the job requirement quantity, excess components are left free standing and are not attached as part of an Installed Base top assembly configuration. You can use the Installed Base component install (WIP) windows to allocate these freestanding or non-allocated components to specific assembly configurations following WIP assembly completion.

**Note:** With reference to WIP and Installed Base integration:

- Configurations are built only for serialized top assemblies.
- The functionality is relevant to multi quantity WIP jobs.

## Attaching Non-Allocated Components

Use this procedure to allocate freestanding or non-allocated components to specific assembly configurations following WIP assembly completion.

### Prerequisites

You must have completed a job and created at least one serialized assembly.

### Steps

1. Using the Oracle Install Base Administrator responsibility, navigate to IB Component Install (WIP).

The WIP Component Install window appears.

Job Details							
Job Name	47421						
Assembly	AS66629		Quantity	100		UOM	
Status	Closed		Completed Quantity	100			

Assembly Details							
Assembly	Serial No	Item Instance	Qty	UOM	Lot No	Status	Location Type
AS66629	7500	52878	1	Ea		SUBMIT	INVENTOR
AS66629	7501	52880	1	Ea		SUBMIT	INVENTOR
AS66629	7502	52882	1	Ea		SUBMIT	INVENTOR
AS66629	7503	52884	1	Ea		SUBMIT	INVENTOR
AS66629	7504	52886	1	Ea		SUBMIT	INVENTOR
AS66629	7505	52888	1	Ea		SUBMIT	INVENTOR
AS66629	7506	52890	1	Ea		SUBMIT	INVENTOR
AS66629	7507	52892	1	Ea		SUBMIT	INVENTOR

2. Enter a WIP job name.

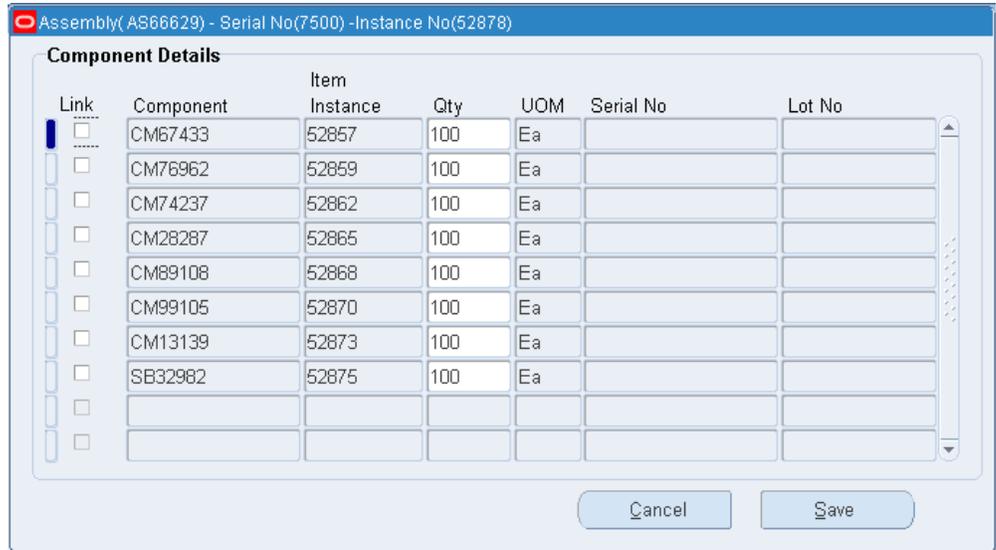
3. Tab to the next region.

The window displays assemblies created by your job.

4. Click in a row to select a specific assembly to which you want to attach unattached components.

5. Click Component Details.

The Component Details region of the Assembly window displays unattached components for the job.



6. Select the Link check box for any component that you want to attach to the serial assembly.
7. Click Save to save your changes.  
The WIP Component Install window reappears.
8. Click WIP Process to submit a concurrent job to attach components to desired assemblies.
9. Optionally, query the job until it displays an assembly status of Processed, which denotes successful processing.

## Using the Order Management Item Instance Query Window

The Item Instance Query window displays existing configured item instances, including attributes and components, primarily to support the Oracle Order Management Telecommunications Service Ordering (TSO) functionality using Sales Orders or Quick Sales Orders windows. The Item Instance Query window provides integration and flexibility in entering TSO changes from multiple sources.

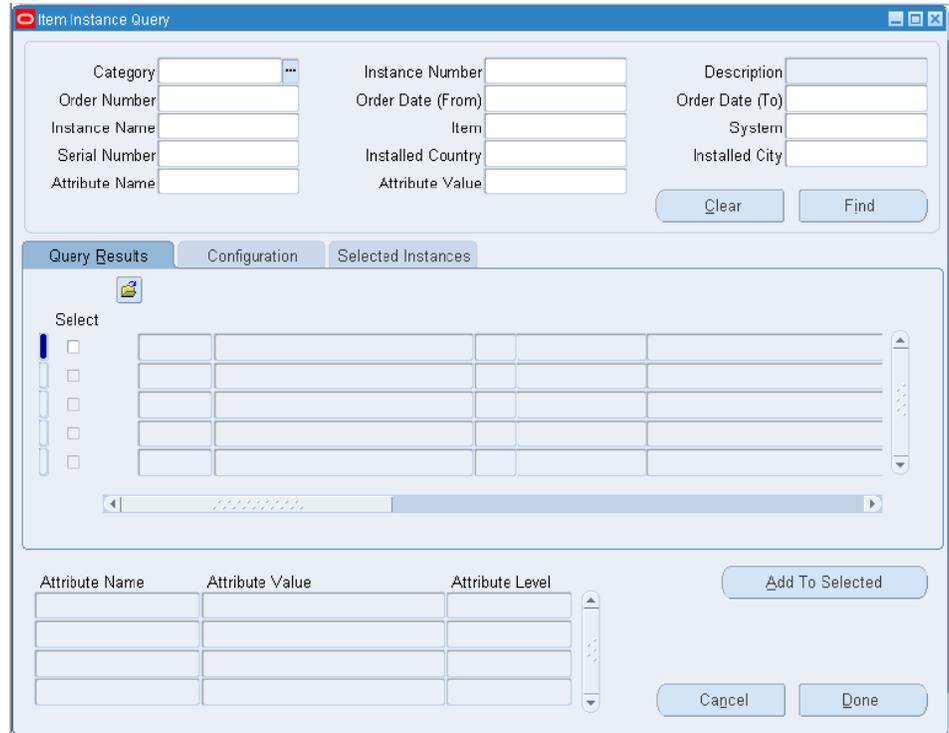
Here are key features of the window:

- Ability to query instances based on a wide range of query parameters including extended attributes.
- Ability to view configurations, in a tree structure, from the Sales Order window and select those instances where you want the configuration to change.
- When called from the Sales Orders window, the ability to return a PL/SQL table of

records for processing by Oracle Order Management.

## Steps

1. To make a query through Oracle Order Management so that you can return values to that application, perform the steps below:
  1. Using the Order Management Super User responsibility, select Orders, Returns > Sales Orders.  
The Sales Orders window appears.
  2. Create or query an order.
  3. Click the Line Items tab.
  4. Enter an order line.
  5. Click Actions.  
The Actions window appears.
  6. Select Item Instance Query, and click OK.  
The Item Instance Query window appears.



2. In the top region, specify the criteria for your instances, and click Find.  
The results of the search appear in the Query Results tab. Extended-attribute information for a selected instance appears in the bottom region of the Item Instance Query window.
3. To add an instance from the Query Results tab to the list on the Selected Instances tab, either select its Select box or select the instance and click Add to Selected.
4. In the Query Results tab, select an instance and then click the Configuration tab to see any configuration for that instance.
5. Select any node, either parent or child, and click Add to Selected to add the node to the list in the Selected Instances tab.
6. To remove an instance from Selected Instances, select an instance there and click Remove from Selected.
7. Click Done to close the window, pass a PL/SQL table of selected instances to the calling window if there is one, and clear the PL/SQL table.

The selected instances are not stored in any database table. After you close the window, you cannot go back and add more instances to those that you selected.

## Tracking Customer-Owned Item Instances Using Oracle Installed Base

Your business may find it sufficient to track only customer owned item instances. You can use the Only Customer Owned Instances option to restrict tracking to customer owned instances only, while performing after sale transactions such as RMAs and Field Service Returns on the Installed Base instances. Tracking these types of customer-owned instances provides the ability to address after sales needs.

**Important:** This feature is not available for Oracle Asset Tracking or Oracle Enterprise Asset Management customers.

See Setting Up Installation Parameters, page 8-14 for more information.

By enabling this option, the Installed Base tracking process restricts itself from creating any internal instances and the lifecycle of the Installed Base tracked item starts only on the order fulfillment to external customers.

You can use Oracle Installed Base to perform the following customer-owned item instance transactions:

- Update and create customer-owned item instance configurations through Sales Order Fulfillment.
- Update customer-owned item instances or configurations through RMA fulfillment.
- Create and update customer-owned item instances or configurations through Field Service requests.

**Note:** The item instance is expired if the ownership is changed back to the enterprise such as in the case of an RMA.

### Prerequisites

- You must perform the following steps before you can create or update customer-owned (fulfillment) Installed Base item instances:
  1. Run the Set IB Tracking Level to Only Customer Owned Instances concurrent program to set the IB Tracking field on the Install Parameters page (Installed Base Administrator > Setups > Install Parameters).
  1. Navigate to the Installed Base Requests page (Oracle Installed Base Administrator > Others > Requests).
  2. Select the Set IB Tracking Level to Only Customer Owned Instances value in the Name field.

3. Click Submit.
2. Run the Interface OM Fulfilled Lines concurrent program.
  1. Navigate to the Installed Base Requests page (Install Base Administrator > Others > Requests > Submit a New Request > Single Request)

2. Select the Interface OM Fulfilled Lines value in the Name field.
3. Select other criteria such as Operating Unit and Parameters.
4. Click the Schedule button to schedule this process to poll the interface table and process the order fulfillment transactions on a specific basis.
5. Click Submit.

## Related Topics

Order Capture, *Oracle Order Management User's Guide*

Overview of Returns, Order Capture, *Oracle Order Management User's Guide*

Creating Service Requests and Field Service Tasks, *Oracle Field Service User Guide*



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# Using the Open Interface Program

This chapter covers the following topics:

- Overview of the Open Interface Program
- Running the Open Interface Program
- Guidelines for Loading Open Interface Tables
- Considerations for Populating Open Interface Tables
- Example of Creating Instances in Oracle Installed Base Using the Open Interface Tables

## Overview of the Open Interface Program

### Features

Oracle Installed Base provides the following Open Interface features:

- Initial mass load  

This imports significant volumes of data into Oracle Installed Base application tables. The data may be from multiple sources including external legacy systems.

Key integration with Oracle E-Business Suite applications includes optional calls to Oracle Service Contracts for warranty creation and creation of counters during item instantiation using Open Interface functionality.
- Incremental load  

This synchronizes Oracle Installed Base with subsystems by importing item instances from different feeder systems on a frequent, on-going basis. This application ensures accuracy, consistency, and up-to-date information between multiple systems.
- Change functionality

This provides a mechanism to automate the process of adding as well as updating changes to item instance attributes including:

- Add new party relationships to existing item instances
  - Add new physical attributes to the item instances
  - Add new contact information
  - Add new configuration elements
  - Change the party relationships of existing instances
  - Change contact information
  - Change configuration (relationships between item instances)
  - Remove and expire item instances
  - Remove and expire configuration, cascading
  - Remove and expire party relationships
  - Remove and expire contact information
- Data validation

Imported data is validated to ensure data integrity with Oracle applications. You can set up and define rules to be applied for validation and manipulation of item instance data during the Open Interface Mass Load process.

Open Interface includes user interfaces to:

- Submit the Open Interface Import process
- View and update error transactions

**Note:** Oracle Installed Base Open Interface provides a user interface to view, update, and correct *error* transactions in the open interface tables. Using this user interface, you cannot view other transactions, such as initial load transactions and transactions without errors.

Oracle Installed Base Open Interface functionality is restricted to customer items. It does not support internal items and instance assets.

## Process

The process overview for a user of the Oracle Installed Base Open Interface application is as follows:

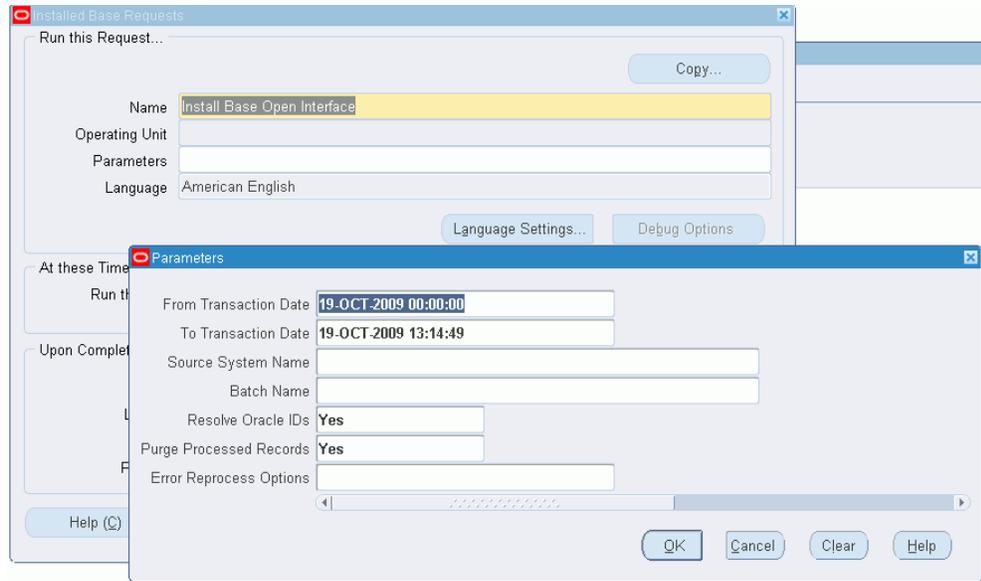
1. Load data into a set of interface tables provided by Oracle Installed Base.
2. Run a mass load concurrent program that reads, validates, and posts the data into Oracle Installed Base tables. The program posts records that fail validation to Open Interface error tables.
3. Review and edit failed transactions.
4. Resubmit edited transactions for processing and loading into Oracle Installed Base.

## Running the Open Interface Program

Use this procedure to run the Open Interface programs:

### Steps

1. Load the Open Interface tables, using SQL Loader or a custom program.
2. Using the Forms mode and the Oracle Installed Base Administrator responsibility, navigate to Others > Requests.  
The Installed Base Requests window appears.
3. If you need general information about submitting requests, then click Help.
4. From the Name LOV, select either Installed Base Open Interface or Installed Base Open Interface-Parallel Concurrent Workers.



Oracle Installed Base has two programs available to process open interface records, Installed Base Open Interface and Installed Base Open Interface-Parallel Concurrent Workers.

Installed Base Open Interface submits the process to post records from the interface tables to the core Oracle Installed Base tables.

Installed Base Open Interface-Parallel Concurrent Workers submits the interface program with the Parallel Workers option, which indicates the number of parallel processes to be run. Interface transactions are evenly divided by this number, and the original concurrent request is submitted the number of times indicated by the parameter. The process enhances speed and performance of the mass load process and is used for high volume loads. The parallel workers feature is used only for creating Oracle Installed Base item instance, party, and account records. When loading the Open Interface tables, the Parallel Worker ID column must be populated with a value of -1. The transaction identifier column in table CSI\_INSTANCE\_INTERFACE must be null.

5. Click in the Parameters field.

The Parameters window appears.

6. Enter the required parameters.

Available Parameters:

Source System Name: (Required). Selects from names loaded to Interface tables.

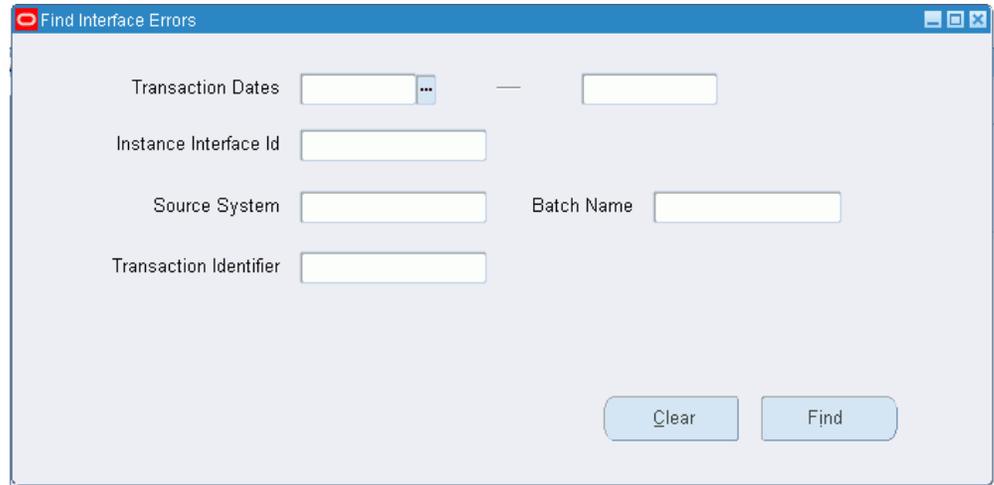
Batch Name: (Optional). Provides ability to choose specific or all batches loaded to Open Interface tables.

Resolve Oracle IDs: Yes = Derive IDs by matching item descriptions in interface

transactions with Oracle Inventory tables.

Purge Processed Records: Purges processed records. Status = P (Processed).

7. Click OK to return to the Installed Base Requests window.
8. Complete the information, and click Submit.
9. After the program has run, navigate to Open Interface Error Details.  
The Find Interface Errors window appears.



The screenshot shows a window titled "Find Interface Errors". It contains the following fields and controls:

- Transaction Dates: A date range selector with two input boxes and a dropdown arrow.
- Instance Interface Id: A single-line text input field.
- Source System: A single-line text input field.
- Batch Name: A single-line text input field.
- Transaction Identifier: A single-line text input field.
- Clear: A button with a circular arrow icon.
- Find: A button with a magnifying glass icon.

10. Complete the desired entries, and click Find.  
The Open Interface Error Details window appears.
11. Review and edit error transaction details. Select the Process check box for transactions that you want to reprocess.
12. Save your changes.
13. Go to step 2 to resubmit the Installed Base Open Interface program to load the records into Oracle Installed Base tables.

## Guidelines for Loading Open Interface Tables

The following are general guidelines to load Open Interface tables:

1. Set up the source system details before using the Open Interface functionality.
2. Use the appropriate value for Transaction\_Identifier. The value must be unique for the same source\_system\_name.

3. Set `replace_flag` to Y only if the complete structure or image of the item instance is being processed.
4. Any type of transaction requires at least one row in the `CSI_INSTANCE_INTERFACE` table.
5. Child entity updates, such as `instance_party` update and `ip_account_update`, must have a corresponding row with the same `inst_interface_id` in the `csi_instance_interface` table.
6. Get NEXTVAL from the respective instances for populating primary keys of the interface tables, as in the following examples:
  - `INST_INTERFACE_ID` from `csi_instance_interface_s.nextval`
  - `IP_INTERFACE_ID` from `csi_i_party_interface_s.nextval`
  - `IEAV_INTERFACE_ID` from `csi_iea_value_interface_s.nextval`
  - `REL_INTERFACE_ID` from `csi_ii_relation_interface_s.nextval`
  - `IA_INTERFACE_ID` from `csi_asset_interface_s.nextval`
7. Make sure that all the referenced entities are populated with their respective IDs before running the Open Interface program. For example, `inventory_item` exists in `mtl_system_items`, `party` exists in the respective party tables, and order line exists in the order entry tables.
8. When including pricing attributes on an instance, make sure that the Pricing Context Flexfield (`QP_ATTR_DEFNS_PRICING`) has the Context Field Code Value defined and the related segments specified.
9. The Open Interface program resolves the IDs from different tables from the descriptive values provided in the interface tables and also validates the existence of all the referenced IDs.
10. Transaction Identifier along with `Source_System_Name` is used to identify the set of instances and instance relationships. This set is committed as a single database transaction.

The following table shows the column names and table views used for validations.

**Table Columns and Views Used for Validations**

Reference Number	Column Name	Table and View Used for Validation
-	CSI_INSTANCE_INTERFAC E	-
1	Inventory_item_id	Mtl_system_items_kfv
2	Inv_vld_organization_id	Hr_all_organization_units
3	Unit_of_measure_code	Mtl_all_primary_uoms_vv
4	Serial_number	Mtl_serial_numbers
5	Lot_number	Mtl_lot_numbers
6	Project_id	Pa_projects_all
7	Task_id	Pa_tasks
8	Inv_organization_id	Mtl_organizations
9	Wip_job_id	Wip_entities
10	Po_order_line_id	Po_headers_all, po_lines_all
11	Oe_order_line_id	Oe_order_headers_all, oe_order_lines_all
12	Intransit_order_line_id	Oe_order_headers_all, oe_order_lines_all
13	Oe_rma_line_id	Oe_order_headers_all, oe_order_lines_all
14	Operating_unit	Hr_operating_units
15	Instance_condition_id	Mtl_material_statuses
16	Instance_status_id	Csi_instance_statuses

Reference Number	Column Name	Table and View Used for Validation
-	CSI_I_PARTY_INTERFACE	-
17	Party_id	Based on the party_source_table: <ul style="list-style-type: none"> <li>'HZ_PARTIES' - hz_parties</li> <li>'VENDORS' - po_vendors</li> <li>'EMPLOYEE' - per_all_people_f</li> <li>'TEAM' - jtf_rs_teams_vl</li> <li>'GROUP' - jtf_rs_groups_vl</li> </ul>
18	Party_account1_id	Hz_cust_accounts
19	Party_account2_id	Hz_cust_accounts
20	Party_account3_id	Hz_cust_accounts

The following table provides information about the setup of the source system.

**Setup of the Source System**

Reference Number	Parameter	Description
1	Source System ID	You can get the next value from the sequence CSI_INSTANCE_SOURCES_S .
2	Source System Name	Unique name of the source system from which the item instances are interfaced.

Reference Number	Parameter	Description
3	Source_lang	Source language of the descriptive data such as party name to be used to get IDs.

The following table describes the table columns that are specific to Open Interface.

**Table Columns Specific to Open Interface**

Reference Number	Column Name	Description
1	INST_INTERFACE_ID	This is the Primary key for the table. Interfaced rows are processed in the order of this key. You can get the next value from the sequence CSI_INSTANCE_INTERFAC E_S.
2	IP_INTERFACE_ID	You can get the next value from the sequence CSI_I_PARTY_INTERFACE_ S.
3	IEAV_INTERFACE_ID	You can get the next value from the sequence CSI IEA_VALUE_INTERFAC E_S.
4	REL_INTERFACE_ID	You can get the next value from the sequence CSI_INST_REL_INTERFACE _S.
5	IA_INTERFACE_ID	You can get the next value from the sequence CSI_ASSET_INTERFACE_S.

Reference Number	Column Name	Description
5	TRANSACTION_IDENTIFI R	There is a composite uniqueness on transaction_identifier and source_system_name. All the records corresponding to the same transaction_identifier are processed as a single database transaction. If you are creating a top assembly, then you must stamp all the corresponding records in all the Oracle Installed Base Open Interface tables with the same transaction_identifier.
6	PROCESS_STATUS	You must populate this column with 'R', used for READY. The processor picks only those records with 'R' value. The processor sets this value to 'P' if processed OK or 'E' if there is an ERROR while processing.
7	PARALLEL_WORKER_ID	For internal use only. When the parallel processing feature is used, this column gets populated by an internal program. When using the parallel worker feature, set this to (-1) for those records in the interface table that will use parallel workers.

## Considerations for Populating Open Interface Tables

You must have a unique transaction identifier for every source system.

You must have a record in the CSI\_INSTANCE\_INTERFACE table for every instance that you process. You must reference the same inst\_interface\_id in the corresponding rows in the other child or relationship interface tables such as CSI\_I\_PARTY\_INTERFACE, CSI\_IEA\_VALUE\_INTERFACE, or CSI\_II\_RELATION\_INTERFACE.

If you want to update a specific item instance, then you must provide the instance

number in the interface table CSI\_INSTANCE\_INTERFACE.

When you want to create an instance-instance relationship for new instances, you must populate the CSI\_INSTANCE\_INTERFACE table with the instance details and reference the INST\_INTERFACE\_ID as SUBJECT\_INTERFACE\_ID or OBJECT\_INTERFACE\_ID in the CSI\_II\_RELATION\_INTERFACE table.

When you want to create an instance-instance relationship for existing instances, you must populate corresponding rows in the CSI\_INSTANCE\_INTERFACE table with the instance number and then reference those INST\_INTERFACE\_IDs as SUBJECT\_INTERFACE\_ID or OBJECT\_INTERFACE\_ID in the CSI\_II\_RELATION\_INTERFACE table appropriately.

Refer to the following table for descriptions of how to populate the interface tables under various scenarios.

#### ***Scenarios for Populating Interface Tables***

<b>Reference Number</b>	<b>Scenario</b>	<b>How to Populate</b>
1	Create an item instance with one party	A row in the table CSI_INSTANCE_INTERFACE and a row in the table CSI_I_PARTY_INTERFACE referencing the INST_INTERFACE_ID of the parent table
2	Create an item instance with one party and an party account	A row in the table CSI_INSTANCE_INTERFACE and a row in the table CSI_I_PARTY_INTERFACE with Party details and Party Account details. Reference the INST_INTERFACE_ID of the parent table in the child table.

Reference Number	Scenario	How to Populate
3	Create an item instance with one party and an extended attribute value	The extended attribute has to be set up prior to the interface process. You need to create a row in CSI_INSTANCE_INTERFAC E. A row in the table CSI_I_PARTY_INTERFACE and a row in CS_IEA_VALUE_INTERFAC E. All the child table rows to have referenced INST_INTERFACE_ID.
4	Change the owner	One row in CSI_INSTANCE_INTERFAC E table with instance_number, new party details and INST_INTERFACE_ID in the table CSI_I_PARTY_INTERFACE.
5	Add Party Account	One row in CSI_INSTANCE_INTERFAC E table with instance_number, details of to which party the account is added, new party account details in the table CSI_I_PARTY_INTERFACE.
6	Update party account details	One row in CSI_INSTANCE_INTERFAC E table with instance_number, details of updated party account in the table CSI_I_PARTY_INTERFACE.
7	Remove a party account	One row in CSI_INSTANCE_INTERFAC E table with instance_number, details of updated party account with an end date in the table CSI_I_PARTY_INTERFACE.

Reference Number	Scenario	How to Populate
8	Add a pricing attribute	One row in the CSI_INSTANCE_INTERFACE with instance number and pricing attribute details in the same record.
9	Add an org assignment	One row in the CSI_INSTANCE_INTERFACE with instance number and organization assignment details in the same record.
10	Remove a pricing attribute	One row in the CSI_INSTANCE_INTERFACE with instance number and pricing attribute context and pricing attribute end date in the same record.
11	Update a pricing attribute	One row in the CSI_INSTANCE_INTERFACE with instance number and changed pricing attribute details in the same record.
12	Remove an organization assignment	One row in the CSI_INSTANCE_INTERFACE with instance number and organization assignment identifiers and org_assignment end date in the same record.
13	Add an extended attribute value	One row in the CSI_INSTANCE_INTERFACE with instance number and one row in CSI_IEA_VALUE_INTERFACE with details of new extended attribute value.

Reference Number	Scenario	How to Populate
14	Remove an extended attribute value	One row in the CSI_INSTANCE_INTERFACE with instance number and one row in CSI_IEA_VALUE_INTERFACE identifier with an end date.
15	Create a UNIT consisting of two related instances with one instance party each.	Two rows in CSI_INSTANCE_INTERFACE. Two corresponding rows in CSI_I_PARTY_INTERFACE. One row in CSI_II_RELATION_INTERFACE, giving the corresponding INST_INTERFACE_IDs as SUBJECT_INTERFACE_ID and OBJECT_INTERFACE_ID.

## Example of Creating Instances in Oracle Installed Base Using the Open Interface Tables

The following is an example of creating two instances in Oracle Installed Base using the Open Interface tables.

Each Customer Product instance will have its own owner party and owner account.

The steps also include the creation of an instance-to-instance relationship/configuration between the newly created Customer Products.

The topics in this section are as follows:

- Initial Setup, page 9-14
- Load the Interface Tables, page 9-15
- Run the Installed Base Open Interface Program, page 9-23
- Confirm Records Created Successfully, page 9-23

### Initial Setup

Before using the open interface functionality, you must complete the mandatory source system details setup. This can be achieved by populating at least one record into the

CSI\_INTERFACE\_SOURCES table.

The following is a sample script that can be used to populate a record into the CSI\_INTERFACE\_SOURCES table.

```
Declare
Begin
Insert into CSI_INTERFACE_SOURCES
(SOURCE_SYSTEM_ID
, SOURCE_SYSTEM_NAME
, SOURCE_DESCRIPTION
, SOURCE_LANG
, CREATED_BY, CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATE_DATE,
LAST_UPDATE_LOGIN)
Values
(CSI_INTERFACE_SOURCES_S.nextval
, 'ENTERPRISE MANAGER'
, 'Enterprise Manager'
, 'US'
, FND_GLOBAL.USER_ID, Sysdate, FND_GLOBAL.USER_ID, Sysdate, FND_GLOBAL.
USER_ID);
Commit;
Exception
When others then
Null;
End;
/
```

Note: Open interface functionality allows populating multiple records into CSI\_INTERFACE\_SOURCES table. However, each record must have a unique source system name.

-----

## Load the Interface Tables

The following is a sample script that can be used to populate the interface tables.

```

SET SERVEROUTPUT ON SIZE 1000000
DECLARE
Begin
Insert into CSI_INSTANCE_INTERFACE
(INST_INTERFACE_ID
,SOURCE_SYSTEM_NAME
,PARALLEL_WORKER_ID
,REPLACE_FLAG
,TRANSACTION_IDENTIFIER
,SOURCE_TRANSACTION_DATE
,SOURCE_TRANSACTION_TYPE
,INSTANCE_ID
,INSTANCE_NUMBER
,INSTANCE_DESCRIPTION
,EXTERNAL_REFERENCE
,PROCESS_STATUS
,BATCH_NAME
,ERROR_TEXT
,INVENTORY_ITEM_ID
,INV_CONCATENATED_SEGMENTS
,INVENTORY_REVISION
,INV_VLD_ORGANIZATION_ID
,INV_VLD_ORGANIZATION_NAME
,SERIAL_NUMBER
,MFG_SERIAL_NUMBER_FLAG
,LOT_NUMBER
,QUANTITY
,UNIT_OF_MEASURE_CODE
,UNIT_OF_MEASURE
,ACCOUNTING_CLASS_CODE
,INSTANCE_CONDITION_ID
,INSTANCE_CONDITION
,INSTANCE_STATUS_ID
,INSTANCE_STATUS
,CUSTOMER_VIEW_FLAG
,MERCHANT_VIEW_FLAG
,SELLABLE_FLAG
,SYSTEM_ID
,SYSTEM_NUMBER
,INSTANCE_START_DATE
,INSTANCE_END_DATE
,INSTANCE_TYPE_CODE
,LOCATION_TYPE_CODE
,LOCATION_ID
,INV_ORGANIZATION_ID
,INV_ORGANIZATION_CODE
,INV_ORGANIZATION_NAME
,INV_SUBINVENTORY_NAME
,INV_LOCATOR_NUMBER
,INV_LOCATOR_ID
,PROJECT_ID
,PROJECT_NUMBER
,TASK_ID
,TASK_NUMBER
,IN_TRANSIT_ORDER_LINE_ID
,IN_TRANSIT_ORDER_LINE_NUMBER
,WIP_JOB_ID
,WIP_JOB_NAME
,PO_ORDER_LINE_ID
,PO_ORDER_LINE_NUMBER
,OE_ORDER_LINE_ID
,OE_ORDER_LINE_NUMBER
,OE_RMA_LINE_ID
,OE_RMA_LINE_NUMBER
,PO_PO_LINE_ID
,PO_PO_LINE_NUMBER

```

```

,OE_PO_NUMBER
,OE_AGREEMENT_ID
,INSTALL_LOCATION_TYPE_CODE
,INSTALL_LOCATION_ID
,INSTALL_DATE
,RETURN_BY_DATE
,ACTUAL_RETURN_DATE
,CONFIG_INST_HDR_ID
,CONFIG_INST_REV_NUM
,CONFIG_INST_ITEM_ID
,CONFIG_VALID_STATUS
,INSTANCE_OU_ID
,OPERATING_UNIT_NAME
,OPERATING_UNIT
,OU_RELATION_TYPE
,OU_START_DATE
,OU_END_DATE
,CREATED_BY ,CREATION_DATE ,LAST_UPDATED_BY ,LAST_UPDATE_DATE)
values
(CSI_INSTANCE_INTERFACE_S.NEXTVAL
,'ENTERPRISE MANAGER',null, null
,'100'
,sysdate,null,null,null
,'Instance creation',null
,'R',null,null,null
,'AS72111'
,'A' ,null
,'Vision Operations' ,null
,'N',null
,1 ,null
,'Each',null,null,null,null
,'CREATED'
,'Y'
,'Y'
,'Y' ,null ,null ,null ,null ,null ,null
,'HZ_PARTY_SITES'
,1020 ,null ,null
,null ,null ,null ,null, null ,null ,null ,null ,null ,null ,null ,null ,null
,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,null ,null ,null, null
,FND_GLOBAL.USER_ID ,sysdate ,FND_GLOBAL.USER_ID ,sysdate);

```

```

Insert into CSI_I_PARTY_INTERFACE
(IP_INTERFACE_ID
,INST_INTERFACE_ID
,PARALLEL_WORKER_ID
,ERROR_TEXT
,PARTY_ID
,PARTY_NUMBER
,INSTANCE_PARTY_ID
,PARTY_NAME
,PARTY_SOURCE_TABLE
,PARTY_RELATIONSHIP_TYPE_CODE
,PARTY_START_DATE
,PARTY_END_DATE
,CONTACT_FLAG
,CONTACT_IP_ID
,CONTACT_PARTY_NUMBER
,CONTACT_PARTY_NAME
,CONTACT_PARTY_ID
,CONTACT_PARTY_REL_TYPE
,IP_ACCOUNT1_ID
,PARTY_ACCOUNT1_NUMBER
,PARTY_ACCOUNT1_ID
,ACCT1_RELATIONSHIP_TYPE_CODE
,PARTY_ACCT1_START_DATE
,PARTY_ACCT1_END_DATE
,BILL_TO_ADDRESS1
,SHIP_TO_ADDRESS1
,IP_ACCOUNT2_ID
,PARTY_ACCOUNT2_NUMBER
,PARTY_ACCOUNT2_ID
,ACCT2_RELATIONSHIP_TYPE_CODE
,PARTY_ACCT2_START_DATE
,PARTY_ACCT2_END_DATE
,BILL_TO_ADDRESS2
,SHIP_TO_ADDRESS2
,IP_ACCOUNT3_ID
,PARTY_ACCOUNT3_NUMBER
,PARTY_ACCOUNT3_ID
,ACCT3_RELATIONSHIP_TYPE_CODE
,PARTY_ACCT3_START_DATE
,PARTY_ACCT3_END_DATE
,BILL_TO_ADDRESS3
,SHIP_TO_ADDRESS3
,CREATED_BY ,CREATION_DATE ,LAST_UPDATED_BY ,LAST_UPDATE_DATE)
values
(CSI_I_PARTY_INTERFACE_S.NEXTVAL
,CSI_INSTANCE_INTERFACE_S.currval,null,null,null ,null ,null
,'Imaging Innovations, Inc.'
,'HZ_PARTIES'
,'OWNER',null ,null
,'N' ,null,null ,null ,null ,null ,null
,'1002' ,null
,'OWNER' ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,FND_GLOBAL.USER_ID ,sysdate ,FND_GLOBAL.USER_ID ,sysdate);

```

```

Insert into CSI_INSTANCE_INTERFACE
(INST_INTERFACE_ID
,SOURCE_SYSTEM_NAME
,PARALLEL_WORKER_ID
,REPLACE_FLAG
,TRANSACTION_IDENTIFIER
,SOURCE_TRANSACTION_DATE
,SOURCE_TRANSACTION_TYPE
,INSTANCE_ID
,INSTANCE_NUMBER
,INSTANCE_DESCRIPTION
,EXTERNAL_REFERENCE
,PROCESS_STATUS
,BATCH_NAME
,ERROR_TEXT
,INVENTORY_ITEM_ID
,INV_CONCATENATED_SEGMENTS
,INVENTORY_REVISION
,INV_VLD_ORGANIZATION_ID
,INV_VLD_ORGANIZATION_NAME
,SERIAL_NUMBER
,MFG_SERIAL_NUMBER_FLAG
,LOT_NUMBER
,QUANTITY
,UNIT_OF_MEASURE_CODE
,UNIT_OF_MEASURE
,ACCOUNTING_CLASS_CODE
,INSTANCE_CONDITION_ID
,INSTANCE_CONDITION
,INSTANCE_STATUS_ID
,INSTANCE_STATUS
,CUSTOMER_VIEW_FLAG
,MERCHANT_VIEW_FLAG
,SELLABLE_FLAG
,SYSTEM_ID
,SYSTEM_NUMBER
,INSTANCE_START_DATE
,INSTANCE_END_DATE
,INSTANCE_TYPE_CODE
,LOCATION_TYPE_CODE
,LOCATION_ID
,INV_ORGANIZATION_ID
,INV_ORGANIZATION_CODE
,INV_ORGANIZATION_NAME
,INV_SUBINVENTORY_NAME
,INV_LOCATOR_NUMBER
,INV_LOCATOR_ID
,PROJECT_ID
,PROJECT_NUMBER
,TASK_ID
,TASK_NUMBER
,IN_TRANSIT_ORDER_LINE_ID
,IN_TRANSIT_ORDER_LINE_NUMBER
,WIP_JOB_ID
,WIP_JOB_NAME
,PO_ORDER_LINE_ID
,PO_ORDER_LINE_NUMBER
,OE_ORDER_LINE_ID
,OE_ORDER_LINE_NUMBER
,OE_RMA_LINE_ID
,OE_RMA_LINE_NUMBER
,PO_PO_LINE_ID
,PO_PO_LINE_NUMBER
,OE_PO_NUMBER
,OE_AGREEMENT_ID
,INSTALL_LOCATION_TYPE_CODE

```

```

,INSTALL_LOCATION_ID
,INSTALL_DATE
,RETURN_BY_DATE
,ACTUAL_RETURN_DATE
,CONFIG_INST_HDR_ID
,CONFIG_INST_REV_NUM
,CONFIG_INST_ITEM_ID
,CONFIG_VALID_STATUS
,INSTANCE_OU_ID
,OPERATING_UNIT_NAME
,OPERATING_UNIT
,OU_RELATION_TYPE
,OU_START_DATE
,OU_END_DATE
,CREATED_BY ,CREATION_DATE ,LAST_UPDATED_BY ,LAST_UPDATE_DATE)
values
(CSI_INSTANCE_INTERFACE_S.NEXTVAL
,'ENTERPRISE MANAGER',null,null
,'100'
,sysdate,null,null ,null
,'Instance creation',null
,'R',null,null,null
,'AS72111'
,'A' ,null
,'Vision Operations',null
,'N',null
,1 ,null
,'Each',null,null,null ,null
,'CREATED'
,'Y'
,'Y'
,'Y' ,null ,null ,null ,null ,null
,'HZ_PARTY_SITES'
,1020 ,null ,null
,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,null ,null ,null ,null
,FND_GLOBAL.USER_ID ,sysdate ,FND_GLOBAL.USER_ID ,sysdate);

```

```

Insert into CSI_I_PARTY_INTERFACE
(IP_INTERFACE_ID
,INST_INTERFACE_ID
,PARALLEL_WORKER_ID
,ERROR_TEXT
,PARTY_ID
,PARTY_NUMBER
,INSTANCE_PARTY_ID
,PARTY_NAME
,PARTY_SOURCE_TABLE
,PARTY_RELATIONSHIP_TYPE_CODE
,PARTY_START_DATE
,PARTY_END_DATE
,CONTACT_FLAG
,CONTACT_IP_ID
,CONTACT_PARTY_NUMBER
,CONTACT_PARTY_NAME
,CONTACT_PARTY_ID
,CONTACT_PARTY_REL_TYPE
,IP_ACCOUNT1_ID
,PARTY_ACCOUNT1_NUMBER
,PARTY_ACCOUNT1_ID
,ACCT1_RELATIONSHIP_TYPE_CODE
,PARTY_ACCT1_START_DATE
,PARTY_ACCT1_END_DATE
,BILL_TO_ADDRESS1
,SHIP_TO_ADDRESS1
,IP_ACCOUNT2_ID
,PARTY_ACCOUNT2_NUMBER
,PARTY_ACCOUNT2_ID
,ACCT2_RELATIONSHIP_TYPE_CODE
,PARTY_ACCT2_START_DATE
,PARTY_ACCT2_END_DATE
,BILL_TO_ADDRESS2
,SHIP_TO_ADDRESS2
,IP_ACCOUNT3_ID
,PARTY_ACCOUNT3_NUMBER
,PARTY_ACCOUNT3_ID
,ACCT3_RELATIONSHIP_TYPE_CODE
,PARTY_ACCT3_START_DATE
,PARTY_ACCT3_END_DATE
,BILL_TO_ADDRESS3
,SHIP_TO_ADDRESS3
,CREATED_BY ,CREATION_DATE ,LAST_UPDATED_BY ,LAST_UPDATE_DATE)
values
(CSI_I_PARTY_INTERFACE_S.NEXTVAL
,CSI_INSTANCE_INTERFACE_S.currval,null,null,null ,null ,null
,'Imaging Innovations, Inc.'
,'HZ_PARTIES'
,'OWNER' ,null ,null
,'N' ,null,null ,null ,null ,null ,null
,'1002' ,null
,'OWNER' ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,null ,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,FND_GLOBAL.USER_ID ,sysdate ,FND_GLOBAL.USER_ID ,sysdate
);

```

```

Insert into CSI_II_RELATION_INTERFACE
(rel_interface_id
,parallel_worker_id
,subject_interface_id
,object_interface_id
,relationship_type_code
,relationship_start_date
,relationship_end_date
,position_reference
,display_order
,mandatory_flag
,relationship_direction
,error_text
,context
,attribute1 ,attribute2 ,attribute3 ,attribute4 ,attribute5
,attribute6 ,attribute7 ,attribute8 ,attribute9 ,attribute10
,attribute11 ,attribute12 ,attribute13 ,attribute14 ,attribute15
,created_by, creation_date,last_updated_by,last_update_date,
last_update_login)
values
(CSI_II_RELATION_INTERFACE_S.nextval
,null
,CSI_INSTANCE_INTERFACE_S.currval
,CSI_INSTANCE_INTERFACE_S.currval-1
,'COMPONENT-OF'
,SYSDATE
,null,null,null ,null ,null ,null ,null ,null ,null ,null ,null
,null ,null ,null ,null ,null ,null ,null ,null ,null ,null
,FND_GLOBAL.USER_ID
,sysdate
,FND_GLOBAL.USER_ID
,sysdate ,null);

```

```

Insert into CSI_IEA_VALUE_INTERFACE
(ieav_interface_id
,inst_interface_id
,parallel_worker_id
,error_text
,attribute_id
,inv_concatenated_segments
,inventory_item_id
,master_organization_id
,master_organization_name
,item_category_conc_seg
,item_category_id
,attribute_code
,attribute_name
,attribute_level
,attribute_category
,attribute_value
,attribute_value_id
,ieav_start_date
,ieav_end_date
,created_by ,creation_date,last_updated_by,last_update_date ,
last_update_login)
Values
(CSI_IEA_VALUE_INTERFACE_S.nextval
,CSI_INSTANCE_INTERFACE_S.currval-1,null ,null ,null
,'AS72111',null ,null
,'Vision Operations' ,null ,null
,'ADAPTER_NAME' ,null
,'ITEM' ,null
,'NETWORK_ADAPTER' ,null ,null ,null
,FND_GLOBAL.USER_ID ,sysdate ,FND_GLOBAL.USER_ID ,sysdate ,null);

```

```
commit;  
Exception  
When others  
Then  
Null;  
End;  
/
```

After execution of the script, confirm the appropriate records have been inserted into the CSI\_INSTANCE\_INTERFACE, CSI\_I\_PARTY\_INTERFACE, CSI\_IEA\_VALUE\_INTERFACE and CSI\_II\_RELATION\_INTERFACE tables.

## Run Installed Base Open Interface Program

Run Installed Base Open Interface concurrent program by entering values in the mandatory parameters, Source System Name and Resolve Oracle IDs.

In this case Source System Name is Enterprise Manager and Resolve Oracle IDs should be set to 'Yes'.

Verify the concurrent program completed successfully by clicking on the View Log button from View Request screen. The Customer Product numbers should be listed in this Log file.

## Confirm Records Created Successfully

As a result of the successful completion of the Installed Base Open Interface concurrent program, the Installed Base tables should now be populated. There should be no errors in the Open Interface Error Details form and your new Customer Products should exist in View Customer Products. You can view them by searching on the Customer Product number (Instance number) found in the Installed Base Interface Log file. You can also view the relationship by clicking the Configuration link.



---

## Purging Transaction History

This chapter covers the following topics:

- Overview of Purge Transactions Concurrent Programs
- Running the Installed Base Transactions History Purge Concurrent Program
- Running the Purge IB Transaction Interface Data Concurrent Program

### Overview of Purge Transactions Concurrent Programs

Oracle Installed Base provides the functionality to view the history of changes to an item instance in the Transaction link and the History link. Although this is an extremely useful feature, the storage of this data makes up the bulk of data tied to an instance, especially if the instance has a long transaction history. For instances with frequent changes and a long transaction history, older, historical transactions consume significant storage space. In certain cases, this has an adverse impact on performance.

To address these issues, the application provides a utility to purge history transactions tied to an instance. Given a start date, you can run the utility to purge all the transaction data with dates older than the specified date and store the data in a table.

In addition, you can run the Purge IB Transaction Interface Data concurrent program to purge high volumes of old data in the interface table, `CSI_TRANSACTIONS_INTERFACE`, and to improve the performance of the concurrent program Interface Install Base Lines.

### Running the Installed Base Transactions History Purge Concurrent Program

Use the Installed Base Transactions History Purge concurrent program to purge all transaction data with dates older than a specified date and store the data in a table.

**Warning:** Be extremely careful when using this program. After you

have purged transactions, the application cannot automatically restore them.

1. Using the Oracle Install Base Administrator responsibility, select Others > Requests.
2. Navigate to the Installed Base Requests window.
3. Select Installed Base Transactions History Purge, and the Parameters window appears.
4. Enter the date before which transaction data will be purged in the Purge\_to\_Date field.
5. Click the OK button.
6. Optionally enter additional values in the main window.
7. Click Submit.

## Running the Purge IB Transaction Interface Data Concurrent Program

Use these steps to run the Purge IB Transaction Interface Data concurrent program to purge all transaction old data in the interface table, CSI\_TRANSACTIONS\_INTERFACE, based on a specific range of months.

1. Using the Oracle Install Base Administrator responsibility, select Others > Requests.
2. Navigate to the Installed Base Requests window.
3. Select Installed Base Transactions History Purge, and the Parameters window appears.
4. Enter a value between 12 and 999 in the Number of Months parameter.
5. Click the OK button.
6. Click the Submit button.

# Part 2

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## Counters



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## Overview of Counters

This chapter covers the following topics:

- Introduction
- About Counters
- Use of Counters in Oracle Applications
- Counters Terminology
- Overview of Setting Up and Creating Counters
- Counter Types
- About Source and Target Counters
- About Counter Properties
- Overview of Setup and Usage of Counter Properties
- Example of Setup and Usage of Counter Properties
- About Estimation Methods

### Introduction

This chapter consists of the following topics:

- About Counters, page 11-2
- Use of Counters in Oracle Applications, page 11-3
- Counters Terminology, page 11-4
- Overview of Setting Up and Creating Counters, page 11-5
- Counter Types, page 11-6
- About Source and Target Counters, page 11-7

- About Counter Properties, page 11-8
- About Estimation Methods, page 11-12

## About Counters

In Oracle Installed Base, you can define counters to track the usage of a customer's item or service, and subsequently, in several Oracle applications, execute business processes that are based on the usage information.

Common everyday objects that have counters are automobile odometers, gas and electric meters, and office equipment such as photocopier machines.

Counters provide a mechanism for tracking new item warranties, service contracts, support agreements, and similar business needs. Service providers rely on counters that record or measure usage, time and distance units to closely track the usage of a tangible item or a service. They can use the measurements to:

- Manage item warranties and external warranties
- Manage service, rental, and leasing contracts
- Know when the time has come to reorder or ship parts
- Determine billing cycles and rate change
- Trigger item preventive maintenance or overhauls
- Calculate item reliability
- Perform lifecycle tracking

For example, a company that services photocopiers can use counters:

- To determine how often service must be performed on each piece of equipment.
- To know when consumable items such as toner cartridges and paper must be replenished at the customer's site.

Contract or rental agreements can use counters to trigger the following actions:

- To alert the service provider that an upcoming event such as a preventive maintenance or overhaul is coming due.
- To automatically adjust a price formula or rate table change.
- To signal a contract renewal date or expiration date.

Customer support contracts can use counters:

- To monitor the total number of calls or time spent by the support agent on each call.
- To escalate those calls that have reached a critical status.

### See Also

- Use of Counters in Oracle Applications, page 11-3
- Counters Terminology, page 11-4
- Overview of Setting Up and Creating Counters, page 11-5
- Counter Types, page 11-6
- About Source and Target Counters, page 11-7
- About Counter Properties, page 11-8
- About Estimation Methods, page 11-12

## Use of Counters in Oracle Applications

You can define counters to track the usage of a customer's item or service, and execute business processes that are based on the usage information, using the following Oracle applications:

- Oracle Installed Base
- Oracle TeleService
- Oracle Service Contracts
- Oracle Depot Repair
- Oracle Field Service
- Oracle Mobile Field Service
- Oracle Spares Management
- Oracle Complex Maintenance Repair and Overhaul
- Oracle Enterprise Asset Management
- Oracle Utility Billing

## Counters Terminology

### Contract Item

An item defined in inventory with a Contract Item Type of Service or Warranty.

### Trackable Item

An item defined in inventory with the check box "Track in Installed Base" selected.

### Usage Item

An item defined in inventory with a Contract Item Type of Usage. The main function of usage items is to provide pricing information for billing procedures.

A usage item is required for contract item counters, and optional for trackable item counters.

### Counter Group

A mechanism to combine one or more counter templates.

If you set up counters for contract items, you must use counter groups in your setup; counter groups are optional for trackable item counters.

### Counter Template

The definition of a counter. A counter template may belong to a counter group or it may be a standalone counter template.

### Counter Instance

A counter instance is the database record of a real-life individual counter. Readings and usage measurements belong to a counter instance, not a counter template.

### Associating Objects to Counters

You associate contract items or trackable items either with a counter group or with a counter template. The items associated with a counter group are automatically associated with all counter templates in the counter group.

You associate item instances or service contract lines with counter instances.

### Counter Instantiation

Counter instantiation is the process of creating a counter instance in the database.

## Automatic Instantiation of Counters

A counter instance can only be automatically instantiated during the execution of various Oracle application transactions if a counter template (and, in some cases, a counter group also) has been created in advance.

For example, when a trackable item is received into inventory, Oracle Inventory detects that the item is associated with a counter template or counter group, and automatically creates a counter instance during the receipt of the item into inventory.

## Manual Creation of Counter Instances

Although the most common way that counters are set up and used is where counter instances are created automatically, you can also manually create counter instances. You create counter instances manually when you need to attach a counter to an existing item instance or a service contract line - that is, *after*, and not *during*, the creation of an item instance or service contract.

For the manual creation of a counter instance, you do not define counter groups or counter templates.

## Overview of Setting Up and Creating Counters

There are two ways that counter instances are created in Oracle applications:

- Automatically, page 11-5
- Manually, page 11-6

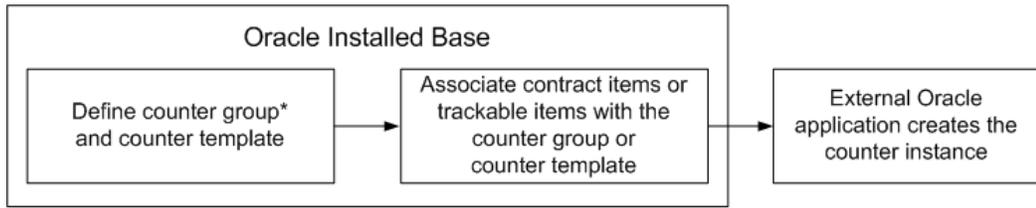
## Automatic Creation of Counter Instances

In Oracle Installed Base, you must first create a counter template, and in some cases, a counter group also. Then you must associate one or more trackable items or contract items to the counter template or counter group.

A counter instance is then created automatically when an item associated with the counter template or counter group is instantiated - that is, a service contract is created or a trackable item is received into inventory - as a result of a transaction in an Oracle application other than Oracle Installed Base.

The diagram following shows an overview of the process where counter instances are automatically created by general Oracle applications, and specifically, how the setups in Oracle Installed Base fit into the whole process.

### Automatic Creation of Counter Instances: Overview



\*Counter group mandatory for contract items; optional for trackable item counters

For details of the counters setup processes in Oracle Installed Base, which are required for the automatic creation of counter instances, see Counters Setup Overview, page 12-11.

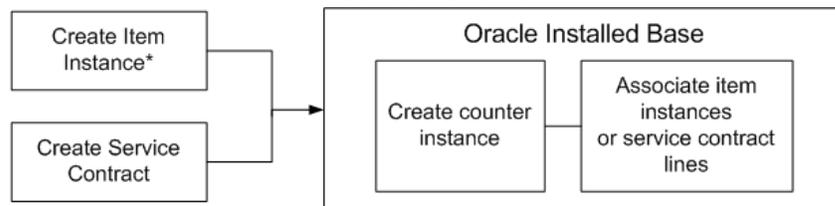
### Manual Creation of Counter Instances

You manually create a counter instance in Oracle Installed Base, and associate it with an existing item instance or an existing service contract line.

The diagram following shows an overview of the process where counter instances are created manually in Oracle Installed Base.

**Note:** Item instances can be created either manually in Oracle Installed Base or automatically as the result of other Oracle application transactions.

### Manual Creation of Counter Instances: Overview



\* Manually in Oracle Installed Base or automatically in other Oracle applications

For details, see Creating Counter Instances., page 12-21

## Counter Types

In Oracle Installed Base, there are several types of counter:

- Standard regular counter

The basic counter, for which you record readings.

**Note:** Standard regular counters are the only types of counter for which you take readings.

- Time-based regular counter

A time-based counter measures time units, which are calculated when you run a concurrent program.

- Formula-based counter, derived from a standard regular counter as follows:

- Sum of the regular counter readings
- Count of the regular counter readings
- Average of the regular counter readings

This can derive either the average of the last N readings, or the average of all enabled readings.

- Formula-based counter, derived from one or more standard regular counters for an associated item by a formula that can use SQL functions

This is often used to add the readings from several standard regular counters for an associated item, but any SQL-compatible expression is acceptable for the formula.

## About Source and Target Counters

You can define source-target relationships between counter instances, where a target counter instance derives its readings from the source counter instance. A real-world example of a target counter is the trip meter associated with an odometer.

You can bill on target counter instances in addition to, or instead of, the source counter instance readings.

In Oracle Installed Base, both source and target counter instances must be standard regular counters, with the same UOM (unit of measure) code.

You create the source-target relationship during the process of creating the target counter instance, by entering source counter details in a special area of the Create Counter page. You must specify a numeric Factor, which is used to multiply the source counter readings to produce the target counter readings.

Subsequently, you can view the target counter instances associated with a source counter instance, and also view the target counter readings derived from the standard counter readings.

## About Counter Properties

In Oracle Installed Base, counter properties are attributes and values that enable you, at counter capture time, to enter additional information about counter readings.

An example of a counter property is the name of the person who captures the counter reading.

You can add as many counter properties as you like to a counter. You may make any or all of the counter properties mandatory for a counter, that is, when a counter reading is entered, you must also enter a value for the mandatory counter property.

**Note:** Counter properties can only be associated with and attached to standard regular counters.

## Terminology

### Counter Property Value Type

Name of a user-defined attribute that you want to associate with a standard regular counter.

### Value Code

Value of a counter property attribute that you want to select for a counter property reading.

## Pre-Defined and Free-Form Counter Properties

You can set up counter properties that have pre-defined counter property values, which can be validated on data entry, or you can have "free-form" counter properties and values, that add extra information to a counter reading, without any validation.

You set up a pre-defined counter property by creating a counter property value type and associating values with that value type.

## Use of Properties in Filters in Count and Sum Counters

Each count or sum counter derives its values from a standard regular counter. If the standard regular counter has properties, you can use these properties in filter conditions when defining the count or sum counter.

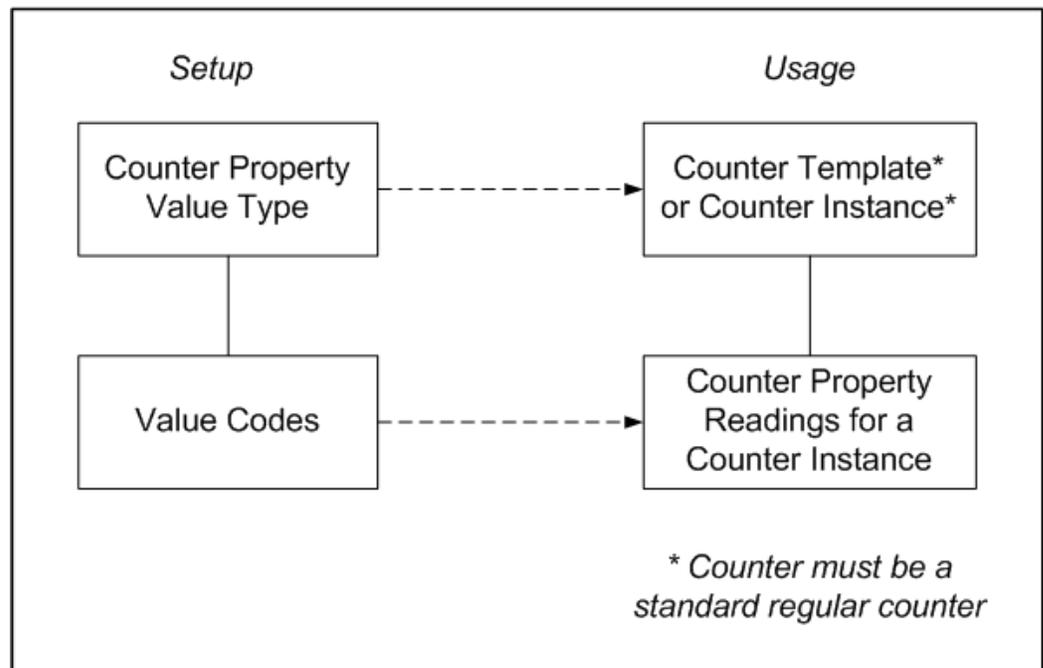
For example, you have defined a Property Name of Reading Method for the standard regular counter. One of the values for that property is EMP\_READ. When you define a count or sum counter derived from the standard regular counter, you can include the filter condition Reading Method = EMP\_READ.

## See Also

- Overview of Setup and Usage of Counter Properties, page 11-9
- Example of Setup and Usage of Counter Properties, page 11-10

## Overview of Setup and Usage of Counter Properties

The following diagram shows an overview of the elements involved in the setup and usage of pre-defined counter properties and their values.



In general:

- You can associate multiple counter property value types (together with their values) to a standard regular counter template or counter instance.
- You can associate the same counter property value type (together with its values) to many standard regular counter templates and counter instances.

## Overview of Setup and Usage Steps

The steps for the complete process of setup and usage of counter properties in counters are as follows:

1. For pre-defined counter properties, set up counter property value types and value codes.

2. Associate one or more counter properties - free-form or pre-defined - with a counter template or counter instance.
3. Select value codes for counter property readings in the appropriate counter instances.

You must enter counter reading values for all column properties that you defined as mandatory in step 2.

### See Also

- Example of Setup and Usage of Counter Properties, page 11-10

## Example of Setup and Usage of Counter Properties

A counter template `Service_Counter` already exists, and provides the definition for all your counter instances.

You want to record the different methods by which meter readings are entered into the system. This data must be recorded for each counter reading. There are three reading methods:

- A service company employee takes a direct reading of the customer's meter.  
This is the default reading method.
- The customer emails the meter reading.
- The customer phones in and provides the meter reading.

In this example, the counter property must be pre-defined with appropriate values, and it must be defined as mandatory, to ensure that a reading method value is recorded with every counter reading.

After defining the counter property and its values, add the counter property to the existing counter template `Service_Counter`.

### Overview

First, set up a counter property value type called `MR_MTHD`, and define the individual meter reading methods as values:

- `EMP_READ`
- `CUST_EMAIL`
- `CUST_PHONE`

In the `Service_Counter` counter template, add a counter property called Reading

Method, with MR\_MTHD as the associated counter property value type, and specify a default reading method.

### Set Up the Counter Property Value Type and Value Codes

1. Access the Oracle Install Base Administrator responsibility, navigate to Counters > Define Property Type.

The Install Base: Counter Properties Value Type Lookups page appears, with CSI\_CTR\_PROPERTY\_LOV\_TYPE as the Type.

2. Create a Code called MR\_MTHD, together with a Meaning and Description.
3. Highlight the MR\_MTHD row and click Define Values.

The Install Base: MR\_MTHD Lookups page appears, with MR\_MTHD as the Type.

**Note:** The Install Base: MR\_MTHD Lookups page is essentially the same as the Install Base: Counter Properties Value Type Lookups page, focusing on MR\_MTHD.

4. For the MR\_MTHD counter property value type, create the following Codes, together with a Meaning and Description for each code:
  - EMP\_READ
  - CUST\_EMAIL
  - CUST\_PHONE

### Associate the Counter Property Value Type with the Counter Template

For the Service\_Counter counter template, in the Counter Properties area of the Counter Template page, set up a column property with the following data:

- Property Name: = Reading Method.

This is a free-form name used for this particular counter template.

- Null Allowed unset.

This ensures that you must record a Reading Method column property value in each counter reading.

- Property Value Type = MR\_MTHD.
- Default Value = EMP\_READ.

## Select a Value for a Counter Property Reading

When capturing a counter reading for a counter instance created from the Service\_Counter counter template, you must record a value for the Reading Method property. For example, you can override the default value EMP\_READ with another value, such as CUST\_PHONE.

## About Estimation Methods

Oracle Installed Base provides estimation methods that enhance flexibility and accuracy in meeting usage billing needs. These methods are specifically designed to work with the usage billing and estimation requirements of Oracle Service Contracts.

Oracle Installed Base uses an API-based usage estimation feature with flexible input and output parameters. The counter estimation API:

- Receives requests for estimation from internal or external sources
- Performs computations
- Returns estimation values as output parameters

Some of the parameters include:

- Period start and end dates (billing periods) for estimation.
- Average calculation start dates to indicate specific points in time used in estimation calculations. For example, a piece of equipment transfers from owner A to owner B on January 1, 2004. For owner B, you would want to disregard any readings taken prior to transfer in estimation calculations. Average calculation start date provides a means to do so.
- Alternatively, an input parameter based on number of readings can be passed to the estimation routine. The routine performs estimation computation using the Number of Readings parameter as the basis of its calculations. For example, if the Number of Readings parameter equals 10, then estimation computation is based on the past 10 counter readings for a given date.

Key steps for setting up estimation functionality in Oracle Installed Base are as follows:

1. Define a counter estimation method.
2. Associate the estimation method with a counter template.
3. Change the estimation method, if required, at the counter instance level.

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## Setting Up Counters

This chapter covers the following topics:

- Introduction
- Setup Checklist
- Defining Counter Property Value Types and Values
- Defining Adjustment Reading Types Lookups
- Managing Estimation Methods
- Searching for Estimation Methods
- Creating and Updating Estimation Methods
- Counters Setup Overview
- Contract Item Counter Setup Overview
- Trackable Item Counter Setup Overview
- Managing Counter Groups
- Searching for Counter Groups
- Creating Counter Groups
- Viewing Counter Groups
- Updating Counter Groups
- Managing Counter Templates
- Searching for Counter Templates
- Creating Counters
- Creating Standard Regular Counters (Templates and Instances)
- Associating Objects to Counters (Templates and Instances)
- Creating Time-Based Regular Counters (Templates and Instances)
- Creating Formula Counters (Templates and Instances)

- Entering Formula Details
- Entering Formula Details Example
- Creating Average Counters (Templates and Instances)
- Creating Count and Sum Counters (Templates and Instances)
- Viewing and Updating Counter Templates

## Introduction

This chapter consists of the following topics:

- Setup Checklist, page 12-2
- Defining Counter Property Value Types and Values, page 12-3
- Defining Adjustment Reading Types Lookups, page 12-6
- Managing Estimation Methods, page 12-8
- Counters Setup Overview, page 12-11
- Managing Counter Groups, page 12-15
- Managing Counter Templates, page 12-19

## Setup Checklist

### Prerequisites

As prerequisites to the setup of counters in Oracle Installed Base, perform the following tasks:

- Confirm the setup of all applications at your site that will use counters.
- Confirm the setup of inventory items. Refer to the *Oracle Inventory User's Guide*.
- Confirm the setup of units of measure. Refer to the *Oracle Inventory User's Guide*.

### Setup Steps in Oracle Installed Base

The following table shows the required and optional Oracle Installed Base setup operations.

Step	Required or Optional	Operation	Comments
1.	Optional	Set up user-definable counter property lookup types and values., page 12-3	Used in the definition of counter templates and counter instances.
2.	Optional	Set up adjustment reading type lookups., page 12-6	Used when adjustments are made in the counter readings for counter instances.
3.	Optional	Define counter estimation methods., page 12-9	Used in the definition of counter templates and counter instances.
4.	Required for automatic instantiation of contract item counters.  Optional for automatic instantiation of trackable item counters.	Define counter groups., page 12-17	Used when counter instances are created automatically as part of an Oracle application transaction.
5.	Required for automatic counter instantiation.	Define counter templates., page 12-21	Used when counter instances are created automatically as part of an Oracle application transaction.

**See Also**

- Counters Setup Overview, page 12-11

## Defining Counter Property Value Types and Values

Counter properties are optional attributes that can be added to counter readings.

For general information about counter properties, their setup and usage, see the

following topics:

- About Counter Properties, page 11-8
- Overview of Setup and Usage of Counter Properties, page 11-9
- Example of Setup and Usage of Counter Properties, page 11-10

This section describes how to set up counter property value types and values, using the following data to illustrate the setup procedure:

- Counter Property Value Type = MR\_MTHD
- Value Codes for the MR\_MTHD counter property value type:
  - EMP\_READ
  - CUST\_EMAIL
  - CUST\_PHONE

## Setup Overview

You define both the counter property value types and their values in the setup page initially headed Install Base: Counter Properties Value Type Lookups.

The general setup overview for a single counter property value type is as follows:

1. Enter the counter property value type name.  
The page redisplay, focusing on the selected counter property value type.
2. Highlight the counter property value type and click Define Values.  
The page redisplay, focusing on the selected counter property value type.
3. Enter the value codes for the selected counter property value type.

## Prerequisites

Oracle Install Base Administrator > Counters > Define Property Type.

### Steps:

#### Define New Property Types

1. The Install Base: Counter Properties Value Type Lookups page appears with seeded header detail.
2. Define a counter property value type by completing the following:
  1. Enter a Code, such as MR\_MTHD.

2. Enter a Meaning, such as MR\_MTHD.
  3. Enter a Description, such as Meter Reading Method.
  4. Leave the Tag field blank.
  5. Select a From date. The application automatically supplies one.
  6. Select a To (end) date. Leave this blank if no expiration occurs.
  7. Confirm that the Enabled check box is selected.
3. Repeat these steps for each new property value type code that you want to add. Choose a different meaning for each code to avoid any duplication errors.

Code	Meaning	Description	Tag	Effective Dates	Enabled	
				From	To	
CS_CTR1	Property1	Property1		17-AUG-2001		<input checked="" type="checkbox"/>
CS_CTR2	CS_CTR2	CS_CTR2		25-APR-2005		<input checked="" type="checkbox"/>
CS_CTR3	CS_CTR3	CS_CTR3		25-APR-2005		<input checked="" type="checkbox"/>
TEMP	temp			18-JAN-2008		<input checked="" type="checkbox"/>
MR_MTHD	MR_MTHD	Meter Reading		11-JUL-2008		<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

4. From the toolbar menu, click the Save icon to update and save the record.
5. Set focus on the code line for which you want to create a values table and proceed to the next step.

### Define Values for Property Types

1. Click Define Values to launch the same page with a modified heading and the header area fields auto-populated with your selected counter property value type.
2. Define a value by completing the following:
  1. Enter a Code, such as EMP\_READ.

2. Enter a Meaning, such as EMP\_READ.
  3. Enter a Description, such as Emp reads customer meter.
  4. Select a From date. The application automatically supplies one .
  5. Select a To (end) date. Leave this blank if no expiration occurs.
  6. Confirm that the Enabled check box is selected.
3. Repeat steps 2a through 2f for each new code value that you want to add to the table. Choose a different meaning for each code to avoid duplication errors.

Code	Meaning	Description	Tag	From	To	Enabled
CUST_EMAIL	CUST_EMAIL	Customer emails reading		11-JUL-2008		<input checked="" type="checkbox"/>
CUST_PHONE	CUST_PHONE	Customer phone reading		11-JUL-2008		<input checked="" type="checkbox"/>
EMP_READING	EMP_READING	Emp reads customer		11-JUL-2008		<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

4. From the toolbar menu, click the Save icon to update and save the record.  
The newly created values are now linked to the previously selected counter property value type.
5. Close the page and return to the property types setup page.

#### Define Additional Value Sets for Property Types

To create another set of values, set focus on the next Code line on the Install Base: Counter Properties Value Type Lookups page and repeat steps 1 through 5 of the preceding section Define Values for Property Types.

## Defining Adjustment Reading Types Lookups

The Adjustment Reading Types Lookups window is used to define a list of values for

adjustment reading types that can be selected from the Counter Capture window. An adjustment reading may be required from time to time to identify a non-standard event or circumstance that occurred or was related to the specific item or service that was performed. For example, an adjustment reading might be used to display a copy usage total that was expended by the service technician during his service visit to a customer site, and used to adjust the customer's monthly bill.

## Business Case

A service technician performs a routine PM service on a customer's photocopier machine.

### Example Task

As part of his service routine, the technician logs the copy count when he arrives then starts his PM. During the testing and calibration of the equipment, the technician expends 25 copies to achieve optimum machine performance. Upon completing the PM, the technician records the new counter readings on his service report as follows:

- Total Copies = 1376
- PM Service Counter = 25

He enters 1176 for the total copies of 1376 on his service debrief, and enters 25 into the Adjustment Amount field with the Adjustment Type called PM Service Counter.

Note that the PM service counter will be adjusted from the total copies by the provider's accounting department, thus only billing the customer for his total usage on his next invoice.

## Prerequisites

Oracle Install Base Administrator > Counters > Define Adjustment Reading Type.

### Steps:

1. The Install Base: Adjustment Reading Type Lookups page appears.

Install Base: Adjustment Reading Type Lookups

Type: CSI\_CTR\_ADJUST\_READING\_TYPE

Meaning: Adjustment Reading Type

Application: Install Base

Description: Adjustment Reading Type

Access Level:  User,  Extensible,  System

Code	Meaning	Description	Tag	From	To	Enabled
TEST	Counter increase due	Counter increased while		05-MAY-2000		<input checked="" type="checkbox"/>
PM	Preventive Maintenanc	Preventive Maintenance		11-JUL-2008		<input checked="" type="checkbox"/>
TEST COPIES	Service Test	Test Copies by Servicem		11-JUL-2008		<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

2. Identify the code, meaning, and description for an adjustment reading type. Establish the effective start and end dates. For example, perform the following:
  1. Enter a Code: Test Copies.
  2. Enter a Meaning: Service Test.
  3. Enter a Description: Test Copies by Serviceman.
  4. Leave the Tag field blank.
  5. Select a From date.
  6. Select a To (end) date. Leave this blank if no expiration occurs.
  7. Confirm that the Enabled check box is selected.
3. Repeat these steps for each adjustment reading type that you wish to add. Choose a different meaning for each code to avoid any duplication errors.
4. From the top toolbar menu, click the Save icon to update and save the record.

## Managing Estimation Methods

This section consists of the following topics:

- Searching for Estimation Methods, page 12-9

- [Creating and Updating Estimation Methods](#), page 12-9

## See Also

- [About Estimation Methods](#), page 11-12
- [Counters Setup Overview](#), page 12-11

## Searching for Estimation Methods

In the Estimation Methods Search page, the main operation you perform is to search for existing estimation methods. You can then view or update the details of existing estimation methods.

In this page, you can also start the process of creating a new estimation method.

## Prerequisites

Oracle Installed Base Agent User > Counters > Estimation Methods

## Steps

1. Enter a search parameter for the Estimation Name.
2. Click Go.

The results area displays a list of the found estimation methods.

## See Also

- [About Estimation Methods](#), page 11-12
- [Managing Estimation Methods](#), page 12-8

## Creating and Updating Estimation Methods

The process of creating and updating estimation methods are similar.

## Prerequisites

Oracle Installed Base Agent User > Counters > Estimation Methods > **Create** or **Update** button

## General Information

Apart from specifying a name for the estimation method, the main choice you have is to select the Estimation Type and fields associated with your choice of Estimation Type.

**Create Estimation Method**  
\* Indicates required field

\* Estimation Name  \* Daily Average Usage   
Description  \* Usage Markup %   
Estimation Type

**Estimation Method Additional Information**  
Context Value

Cancel Apply

### Estimation Type

Select either Usage or Fixed.

### Daily Average Usage and Usage Markup%

These fields appear only if Estimation Type is Usage.

Both of these fields are used in the situation where there has been only one previous reading. In this case, they are used to calculate the estimated reading for a particular date, say, date X, as follows:

1. Multiply the number of days from the previous reading date to date X by Daily Average Usage; increase the result by (Usage Markup%)/100.
2. Add the final result to the previous reading.

For example:

- Single reading only = 150. date of reading = 01-Jan-2005
- Daily Average Usage = 5
- Usage Markup% = 10
- Estimated reading required for 01-Apr-2005 (90 days after date of single reading)

The calculation for the estimated reading is as follows:

- Estimated usage =  $90 * 5 = 450$ .
- Result with 10% markup added = 495.
- Estimated reading for 01-Apr-2005 =  $150 + 495 = 645$ .

Usage Markup% is also used where there are several previous readings, and the date for which you want to calculate an estimated reading, say, date Y, is after the latest reading.

The calculation depends on a number of factors, but the general principle is that the system calculates an average daily usage based on the previous readings. This calculated average daily value is then multiplied by the number of days from the latest reading to date Y. The result is then added to the latest reading to give the estimated reading for date Y.

For example:

- Latest reading = 800, date of reading = 25-Mar-2005
- Daily Average Usage, calculated from previous readings = 7.5
- Usage Markup% = 20
- Estimated reading required for 31-Mar-2005 (6 days after date of last reading)

The calculation for the estimated reading is as follows:

- Estimated usage =  $6 * 7.5 = 45$ .
- Result with 20% markup added = 54.
- Estimated reading for 31-Mar-2005 =  $800 + 54 = 854$ .

#### **Fixed Multiplier Value**

This field is used only if Estimation Type is Fixed, and there has been only one previous reading.

It is used to calculate the estimated reading for a particular date, say, date X, as follows:

1. Multiply the number of days from the previous reading date to date X by Fixed Multiplier Value.
2. Add the result to the previous reading.

### **See Also**

- About Estimation Methods, page 11-12
- Managing Estimation Methods, page 12-8

## **Counters Setup Overview**

In Oracle Installed Base:

- Service programs and warranties are referred to as **contract items**.
- Items marked as being Oracle Installed Base trackable are referred to as **trackable**

items.

There are two main stages in setting up counters to enable the automatic creation of counter instances by Oracle applications:

1. You must set up a counter template, and for contract item counters, a counter group as well.

**Note:** A counter template that does not belong to a counter group is called a *standalone counter template*.

2. You must associate the counter with either a contract item or a trackable item - you do this by associating items either to a counter group or to a counter template. For details, see the sections that follow.

For contract item counters, you must specify a usage item for the counter template.

**Note:** If an item has been associated with a counter group, it cannot be associated with any other counter group nor any standalone counter template.

**Note:** If an item has been associated with a standalone counter template, it can be associated with other standalone counter templates, but cannot be associated with any counter group.

The setup options and procedures are different depending on whether you are setting up contract item counters or trackable item counters.

This section consists of the following topics:

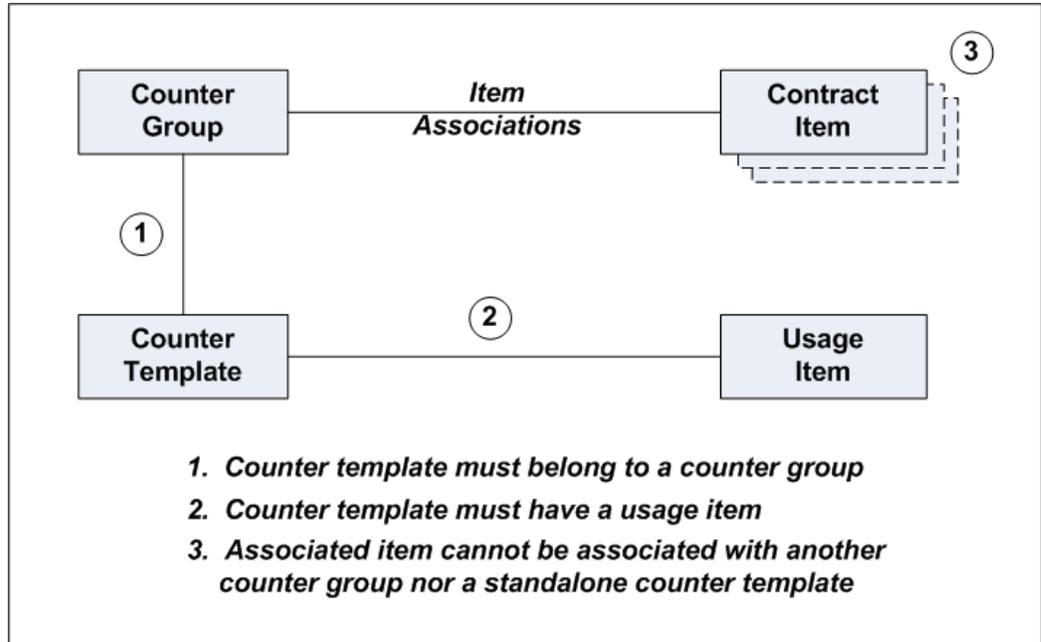
- Contract Item Counter Setup Overview, page 12-12
- Trackable Item Counter Setup Overview, page 12-14

## See Also

- Managing Counter Groups, page 12-15
- Managing Counter Templates, page 12-19

## Contract Item Counter Setup Overview

The diagram following shows an overview of the main elements involved in setting up a counter for contract items.



In general, you can create multiple counter templates in the same counter group. Each counter template requires a usage item.

For contract item counters, item association to the counter template is always via the counter group. All counter templates in a counter group have the same item associations.

When you are setting up counters for contract items, you must first create a counter group with Association Type = Contract Item, and associate contract items to the counter group.

Then for each counter template that you want to add to the counter group, perform the following operations:

- Create a counter template that belongs to the counter group - you can do this either when you create or when you update the counter group.
- Select a usage item for the counter template.

**Note:** After an item has been associated with a counter group, it cannot be associated with any other counter group nor any standalone counter template.

## See Also

- Counters Setup Overview, page 12-11

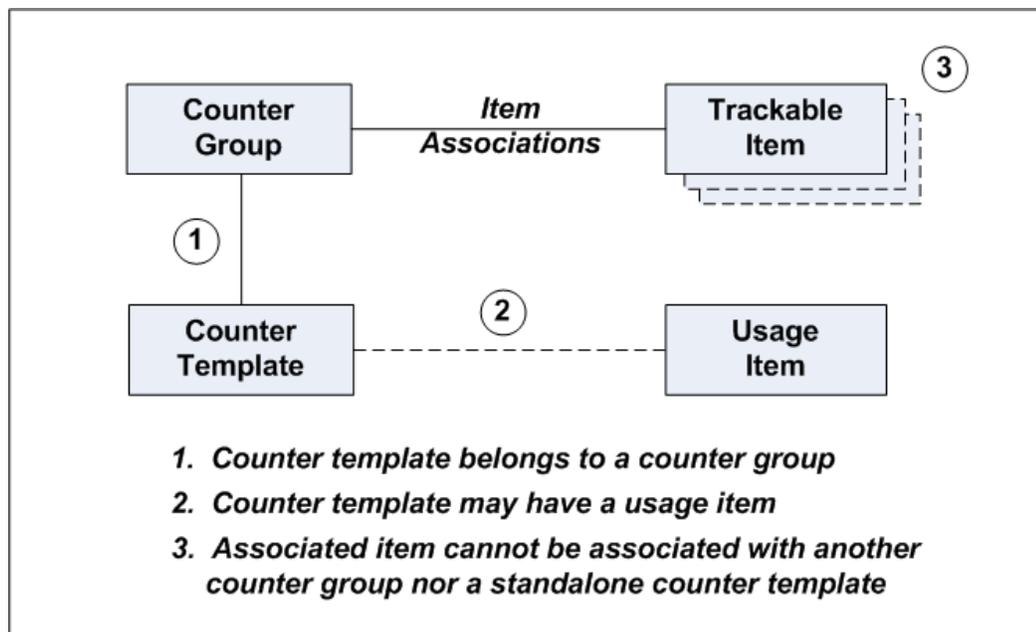
## Trackable Item Counter Setup Overview

There are two ways that you can set up counters for trackable items, depending on whether or not you want the counter template to belong to a counter group.

**Note:** Counter templates that represent meters in Oracle Enterprise Asset Management do not belong to counter groups.

### Setup Using Grouped Counter Templates

The following diagram shows an overview of the main elements involved in setting up a counter for trackable items, where the counter template belongs to a counter group.



In general, you can create multiple counter templates in the same counter group.

When you are setting up counters for trackable items using counter groups, you must first create a counter group with Association Type = Trackable Item, and associate trackable items to the counter group.

Then for each counter template that you want to add to the counter group, perform the following operations:

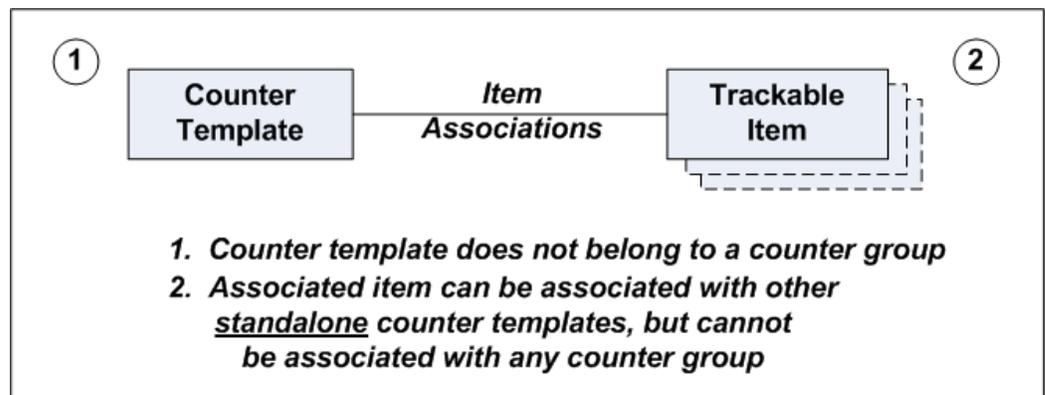
- Create a counter template that belongs to the counter group - you can do this either when you create or when you update the counter group.
- Optionally, select a usage item for the counter template.

Where counter templates belong to a counter group, item association to the counter template is always via the counter group. All counter templates in a counter group have the same item associations.

**Note:** After an item has been associated with a counter group, it cannot be associated with any other counter group nor any standalone counter template.

## Setup Using Standalone Counter Templates

The diagram following shows an overview of the main elements involved in setting up a counter for trackable items, using standalone counter templates.



When you are creating standalone counter templates, by default you can only associate trackable items to the counter template.

**Note:** After an item has been associated with a standalone counter template, it can be associated with other standalone counter templates, but cannot be associated with any counter group.

## See Also

- Counters Setup Overview, page 12-11

## Managing Counter Groups

This section consists of the following topics:

- Searching for Counter Groups, page 12-16
- Creating Counter Groups, page 12-17

- Viewing Counter Groups, page 12-18
- Updating Counter Groups, page 12-19

## See Also

- Counters Setup Overview, page 12-11

## Searching for Counter Groups

In the Search Grouping page, the main operation you perform is to search for existing counter groups. You can then view or update the details of existing counter groups.

In this page, you can also start the process of creating a new counter group.

## Prerequisites

Oracle Installed Base Agent User > Counters > Groupings

## Steps

1. Enter search values as required into one or more of the following fields: Group Name, Group Description, Start Date, and End Date.
2. Click Go.

The results area displays a list of the found counter groups.

Grouping

**Search**

Note that the search is case insensitive

Group Name   %

Start Date

End Date

Group Name ↕	Group Description	Status	Update	Start Date	End Date
Dispot Repair Counter	Counter to update repair count for an item	✔	✎	14-Nov-2002 00:00:00	

## Comments

In the results area, you can perform the following operations:

- Click the Group Name column header to display the search results in ascending Group Name order.
- Click a Group Name to view the details of the counter group.

- Click the Update icon for a counter group to update the counter group.
- Click Create to create a counter group.

## See Also

- Counters Setup Overview, page 12-11
- Managing Counter Groups, page 12-15

## Creating Counter Groups

The Create Grouping page is for creating a counter group, with an Association Type of either Contract Item or Trackable Item.

Either at creation time, or subsequently, you must add item associations of the correct association type to the counter group.

When you are setting up counters for contract items, you must first create a counter group with Association Type = Contract Item, and associate contract items to the counter group. Then you must create a counter template that belongs to the counter group - you can do this either when you create or when you update the counter group.

## Prerequisites

From the Search Groupings page, click Create.

If you want to add item associations, the items must be trackable items or contract items, as set up in the Master Item list in inventory.

## Steps

### General Fields

1. You must enter a Group Name, and you must select a Start Date.
2. Select an Association Type - either Contract Item or Trackable Item.

### Item Associations

The types of fields you associate with the counter group depend on the Association Type.

For each item that you want to associate:

- Select the Item Name and the Start Date.
- Optionally, select an End Date.

- Optionally, enter a Usage Rate and Past Readings.

### Counter Template

1. Click Create to start the process of creating a counter template.

The counter template that you create from this page will belong to the counter group.

In the Counter Template page, enter the counter template details. For more information, see *Creating Counter Templates*, page 12-21

2. When you finish, and click Apply, you return to the Create or Update Grouping page.

**Note:** You can create several counter templates for the counter group. For each counter template, repeat steps 1 to 2.

3. Click Apply to complete the creation process, or Cancel to abandon the process.

### See Also

- *Counters Setup Overview*, page 12-11
- *Managing Counter Groups*, page 12-15

## Viewing Counter Groups

The View Groupings page is a read-only page that allows you to view details of a counter group, such as its association type, item associations, and counter templates.

### Prerequisites

From the Search Groupings page, you must have clicked a Group Name link.

### Comments

To update counter group details, you must first return to the Search Grouping page, then click the Update icon for the counter group.

### See Also

- *Counters Setup Overview*, page 12-11
- *Managing Counter Groups*, page 12-15

## Updating Counter Groups

The process of updating a counter group is similar to the counter group creation process. You cannot change the Group Name nor the Association Type.

From the Update Grouping page, you can perform the following operations:

- Add extra item associations to the counter group.
- View and update existing counter templates that belong to the counter group.
- Create new counter templates for the counter group.

For more details, see *Creating Counter Groups*, page 12-17

Update Grouping

Cancel Apply

Group Name: Depot Repair Counter      Start Date: 14-Nov-2002 00:00:00

Group Description: Counter to update repair count for an item      End Date:

Association Type: Trackable Item

---

**Group Additional Information**

Context Value:

---

**Item Associations**

Item	Item Description	Start Date	End Date	Usage Rate	Past Readings	Remove
AS77111		14-Nov-2002				
AS94888		14-Nov-2002				
ACS0899		14-Nov-2002				
AS77111	Erway Deluxe Laptop	14-Nov-2002				
CSD004	Standard Item with Locator Control	14-Nov-2002				
CSD003	Standard Item with Lot Control	14-Nov-2002				
CSD002	Standard Item with Serial Control	14-Nov-2002				
CSD001	Standard Item with No Control	14-Nov-2002				
AS66629	Erway Ruggedized Laptop	09-Aug-2004				

Add Another Row

---

**Counter Template**

Create

Name	Description	Counter Type	UOM	Reading Type	Active Status	Update
Repair Counter	Counter to keep track of # of times an item has been repaired	Regular	Ea	Absolute		

Cancel Apply

## See Also

- Counters Setup Overview, page 12-11
- Managing Counter Groups, page 12-15

## Managing Counter Templates

This section consists of the following topics:

- Searching for Counter Templates, page 12-20
- Creating Counter Templates, page 12-21
- Viewing and Updating Counter Templates, page 12-41

## See Also

- Counters Setup Overview, page 12-11

## Searching for Counter Templates

In the Counter Template Search page, the main operation you perform is to search for existing counter templates. You can then view or update the details of existing counter templates.

In this page, you can also start the process of creating a new standalone counter template.

## Prerequisites

Oracle Installed Base Agent User > Counters > Templates

## Steps

1. Enter search values as required into one or more of the following fields: Counter Template Name, Property Name, Association Type, and Item Name.

2. Click Go.

The results area displays a list of the found counter templates.

## Comments

In the results area, you can perform the following operations

- Click a Counter Template Name to view the details of the counter template.
- Click the Update icon for a counter template to update the counter template.
- Click Create to create a standalone counter template.

## See Also

- Counters Setup Overview, page 12-11

- Managing Counter Templates, page 12-19

## Creating Counters

In Oracle Installed Base, you can create both counter templates, which enable automatic creation of counter instances by various Oracle application transactions, and counter instances.

The page layouts for creating counter templates and counter instances are similar, and the descriptions of the creation processes for templates and instances are combined in each of the following topics:

- Creating Standard Regular Counters (Templates and Instances), page 12-22
- Creating Time-Based Regular Counters (Templates and Instances), page 12-27
- Creating Formula Counters (Templates and Instances), page 12-30
- Creating Average Group Function Counters (Templates and Instances), page 12-36
- Creating Count and Sum Group Function Counters (Templates and Instances), page 12-38

## Differences Between Counter Template and Create Counter Pages

The differences between the layouts of the Counter Template and the Create Counter pages are as follows:

1. The field Association Type appears on the Counter Template page only.
2. The areas for associations differ as follows:
  - The types of items to associate with counter templates, on the Counter Template page, in the Item Associations area, are contract items and trackable items.
  - The elements to associate with counter instances, on the Create Counter page, in the Associations area, are item instances and service lines.
3. The Create Counter page includes an extra screen area, Source Counter. You can specify a "source-target" relationship between counter instances only, not between counter templates. The Source Counter area enables you to refer to the source counter instance from which the target counter instance derives its values.

## Creating Standard Regular Counters (Templates and Instances)

Use this procedure to define counter types that are described as physical or standard regular counters, which typically are found in tangible objects such as automobiles, gas meters, and photocopier machines.

A standard regular counter can also be classified as a logical counter. For example, a service agent wants to track the number of support calls that he receives each day. The agent can set up a standard regular counter, and manually increment this counter at the completion of every support call.

### Prerequisites

For counter templates: Oracle Installed Base Agent User > Counters > Templates > Create

For counter instances: Oracle Installed Base Agent User > Counters > Counter Instances > Create

### Steps

1. Select Regular for the Counter Type.
2. Select Ea for the UOM (Unit of Measure).
3. Click Go.

The Regular Counter area appears.

The page layouts for counter templates and counter instances are similar. For the differences, see Differences between the Counter Template and Create Counter pages, page 12-21

Counters | Mass Readings | **Template** | Groupings | Estimation Methods

Counters: Template >

### Counter Template Cancel Apply

\* Indicates required field

\* Counter Template Name  \* Unit Of Measure

Description

\* Counter Type

---

#### Time Based Counter

Association Type  Trackable Item  \* Start Date

End Date

Allow Manual Reading Entry

---

#### Counter Template Additional Information

Context Value

---

Item Associations

Item	Item Description	Start Date	End Date	Daily Usage Rate	Past Readings
<input type="text"/>	<input type="text"/>	<input type="text" value="19-Mar-2019 12:36:28"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Cancel Apply

### Regular Counter

4. Enter the Counter Template Name.
5. Optionally enter the Description.
6. Select the Reading Type, either Absolute or Change.
  - Absolute (Meter) - Meter counters allow you to enter meter type of readings such as odometers and electricity meters.
  - Change (Usage) - Usage readings allow you to enter the usage of a counter. An example of change readings is the number of minutes used on a prepaid telephone calling card, such as 12, 10, 6, 15, which represent calling card usage.
7. Select the Usage Item.
 

This is mandatory for contract item counters, optional for trackable item counters.
8. Select the Direction - Ascending, Descending, or Bi-directional.
9. If the Direction is Ascending or Descending, you can optionally check Automatic Rollover; if you do, then you must specify appropriate values for Rollover From and Rollover To.
10. The Association Type appears as a read-only field. For standalone templates, the

value is Trackable Item. For grouped counter templates, the value is derived from the counter group.

**Note:** The Association Type does not appear in the Create Counter page.

11. Optionally, enter the counter Step Value.

For example, if you want the counter to be incremented by 1 for each reading, then enter 1 for the Step Value.

12. Optionally, select an Estimation Method.

You can only associate or map an estimation method for counters whose Direction is Ascending or Descending.

If the counter's Direction is Bi-directional, the Estimation field remains protected and no list of values is available for association.

**Note:** Estimation methods are mapped only to regular counters. When a counter is instantiated, the estimation method defaults from the counter template. You can modify and select a different Estimation Method prior to entering counter readings for this instance.

13. If the counter is service contract related, enter the Tolerance Plus% and Tolerance Minus%.

Tolerance is used by Oracle Service Contracts events to determine the range in which the counter should be updated.

14. Select the Start Date, and optionally the End Date.

15. Optionally, enter the Initial Reading of the counter.

For example, a new automobile may have an initial reading on the odometer of 000022 miles accrued during testing and delivery.

16. Optionally, select the check box Use in Scheduling if the counter is to be used in Oracle Enterprise Asset Management. If you do this, then you must specify the Default Usage Rate and Number of Past Readings.

**Source Counter** (Create Counter page only)

Use this screen area only if you want the counter instance that you are creating to be a target counter instance.

17. Enter the Source Counter Name.

This is the source counter instance from which the target counter instance derives its values.

18. Enter a Factor.

This is the multiplier value to apply to the source counter instance readings.

19. Enter a Start Date, and optionally an End Date.

### Counter Properties

Counter properties are optional attributes whose values you want to attach to counter readings. You can either set up counter properties in advance, or enter them directly in this page without any previous setups. For more details of setting up counter properties, see Overview of Setup and Usage of Counter Properties, page 11-9 and Example of Setup and Usage of Counter Properties, page 11-10.

Perform the steps in this section for each counter property that you want to add to the counter template:

The screenshot shows a table titled "Properties" with the following columns: Property Name, Property Description, Data Type, Null Allowed, UOM, Property Value Type, Default Value, Start Date, and End Date. The "Data Type" column is set to "Character" and the "Null Allowed" checkbox is unchecked. The "Start Date" is set to "11-Jul-2008". There is an "Add Another Row" button at the bottom left of the table.

20. Enter a Property Name.

Property Name is a free-form text field, that you specify for the particular counter.

21. Select a Data Type of Character, Date, or Number.

22. Check the Null Allowed check box if you want the column property to be optional for counter readings; uncheck the field, or leave it blank, to make the column property mandatory for counter readings.

**Note:** The initial setting of Null Allowed is *not* checked.

23. Optionally, select a Unit of Measure.

24. If you want to have a predefined property value type for this counter, select from the list of values in the Property Value Type field, else leave the field blank.

25. Optionally, enter a Default Value, if you want this value to appear initially when you capture counter readings.

The following is an example of the fields to enter for a free-form counter property:

- Property Name = Reader Name
- Data Type = Character

- Default Value = Dan Wong

The following is an example of the fields to enter for a predefined counter property:

- Property Name = Reading Method
- Property Value Type = MR\_MTHD
- Default Value = EMP\_READ

26. Optionally, enter Minimum and Maximum Values for Number counter properties.
27. Enter an effective Start Date on which to enable the property type, and optionally an End Date from which to disable the property type.

#### **Item Associations (Counter Template) or Associations (Counter Instance)**

28. Create the associations for the counter template or counter instance.

For details, see *Associating Objects to Counters (Templates and Instances)*, page 12-26

#### **Completing the Process**

29. Click Apply.

### **See Also**

- *Counters Setup Overview*, page 12-11
- *Managing Counter Templates*, page 12-19

## **Associating Objects to Counters (Templates and Instances)**

For both counter templates and counter instances, you must associate the counter to one or more real-world objects.

#### **Item Associations Area (Counter Templates)**

Grouped counter templates are automatically associated to contract items or trackable items - through the item associations of the counter group. The Item Associations area is read-only in this case.

For standalone counter templates, you must explicitly create the associations between the template and trackable items, in the Item Associations area.

#### **Associations Area (Counter Instances)**

For counter instances, you must create the associations between the counter instance and either service contract lines or item instances, in the Associations area.

## Steps

Perform the steps in this section for each association that you want to add to the standalone counter template or counter instance.

1. For a counter template, select the Item - contract or trackable.

Item Associations						
Item	Item Description	Start Date	End Date	Daily Usage Rate	Past Readings	
		11-Jul-2008 04:22:12				
<input type="button" value="Add Another Row"/>						

Continue at step 3.

**Note:** Only trackable items are available for standalone counter templates.

2. For a counter instance, select the Source Object Code - item instance or service line - and the appropriate Instance Number or Service Item and Contract Line Details.

Associations				
Source Object Code	*Instance Number	Start Date	End Date	
Item Instance		11-Jul-2008 04:31:53		

Associations				
Source Object Code	*Service Item	Contract Line Details	Start Date	End Date
Service Line			11-Jul-2008 04:31:53	

3. Enter the Start Date.
4. Optionally, select an End Date.
5. For counter templates for Oracle Enterprise Asset Management meters, specify the Daily Usage Rate and Past Readings.

## See Also

- Counters Setup Overview, page 12-11
- Managing Counter Templates, page 12-19

## Creating Time-Based Regular Counters (Templates and Instances)

A time-based counter is a regular counter with a time-based unit of measure, such as hours, days, weeks, months, or years, designed to keep track of events that occur in time. Time-based counters can be used to track such events as a contract expiration or

preventive maintenance service that is due on an item instance.

Time-based counters can be updated periodically by running a concurrent program called Time Based Counters Engine to increment each counter and automatically expire a counter that has passed its expiration date.

In addition, you can manually enter readings for time-based regular counters.

For more information, see *Setting Up Visit Work Package* in *Oracle Installed Base Implementation Guide*.

## Prerequisites

For counter templates: Oracle Installed Base Agent User > Counters > Templates > Create

For counter instances: Oracle Installed Base Agent User > Counters > Counter Instances > Create

## Steps

1. Enter the Counter Template Name.
2. Optionally enter the Description.
3. Select Regular for the Counter Type.
4. For the UOM (Unit of Measure), select a unit that has a UOM class of Time.
5. Click Go.

The Time Based Counter area appears.

The page layouts for counter templates and counter instances are similar. See *Differences between the Counter Template and Create Counter pages*, page 12-21.

Item Instance **Counters** Mass Update

Counters Mass Readings Template Groupings Estimation Methods

Counters: Counters >

**Create Counter** Cancel! Apply

\* Indicates required field

\* Counter Name  \* Unit of measure DAY  Go

Description

Counter Type Regular

**Time Based Counter**

Counter Group  \* Start Date 19-Mar-2019 08:23:29

Usage Item  End Date

Allow Manual Reading Entry

**Counters Additional Information**

**Associations**

Source Object Code	* Instance Number	Start Date	End Date
Item Instance <input type="text"/>	<input type="text"/>	19-Mar-2019 08:23:30 <input type="text"/>	<input type="text"/>

TIP Item instance or contract line should be specified for creating a counter

Inspect MDS Contents

Cancel! Apply

- Select the Allow Manual Reading Entry check box if you want to enable users to manually enter time-based readings. The default value is not selected.
- The Association Type appears as a read-only field. For standalone templates, the value is Trackable Item. For grouped counter templates, the value is derived from the counter group.

**Note:** The Association Type does not appear in the Create Counter page.

- Select the Usage Item.  
This is mandatory for contract item counters, optional for trackable item counters.
- Select the Start Date, and optionally the End Date.

**Item Associations (Counter Template) or Associations (Counter Instance)**

- Create the associations for the counter template or counter instance.  
For details, see Associating Objects to Counters (Templates and Instances)., page 12-26

**Completing the Process**

11. Click Apply.

## See Also

- Counters Setup Overview, page 12-11
- Managing Counter Templates, page 12-19

## Creating Formula Counters (Templates and Instances)

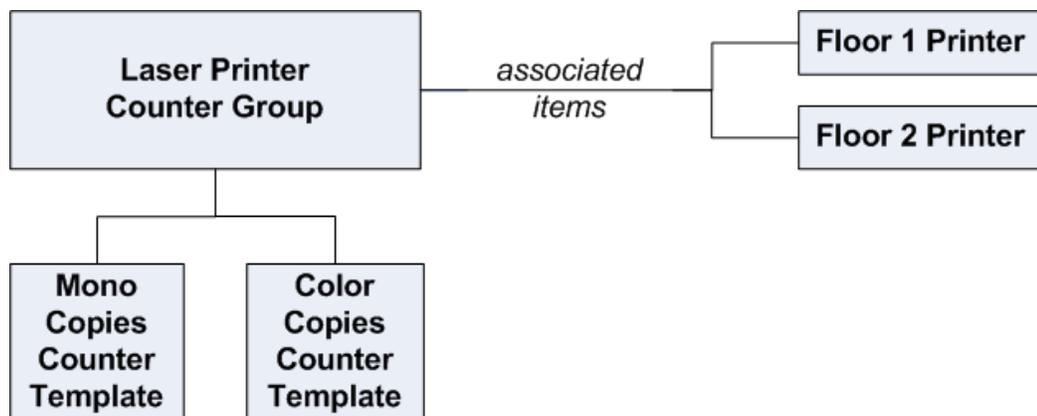
Use this procedure to define a counter of the type Formula, where you explicitly enter a simple or complex mathematical formula to derive a new counter value. This procedure is stated in the context of a specific business case and example steps that include standard regular counters.

The formula text for a formula can only refer to counters that are *standard regular counters*.

## Business Case

A service provider sells and leases laser printers and wants to track the copy usage for each printer residing in Oracle Depot Repair. The service provider creates a counter group with individual counters to track the usage for each item to determine how often to perform his PM service tasks, and also to determine how often to ship out consumables such as toner kits and paper.

The counter group, its associated items, and the counter templates in the counter group are illustrated in the following diagram.



## Example Task

The objective is to define a formula counter template named Total Copies Counter Template, that for each associated item of the counter group, sums the copy counts from

the two standard regular counters.

Assume that the following elements have already been created:

1. The counter group named Laser Printer Counter Group.
2. The standard regular counter template named Mono Copies Counter Template.
3. The standard regular counter template named Color Copies Counter Template.

## Prerequisites

For counter templates: Oracle Installed Base Agent User > Counters > Templates > Create

For counter instances: Oracle Installed Base Agent User > Counters > Counter Instances > Create

## Steps

1. Select Formula for the Counter Type.

**Note:** Do *not* select a Group Function.

2. Click Go.

The Formula Counter area appears.

The page layouts for counter templates and counter instances are similar. See Differences between the Counter Template and Create Counter pages., page 12-21

**Counter Template**  
\* Indicates required field

\* Counter Template Name  \* Unit Of Measure

Description

\* Counter Type  Group Function

---

**Formula Counter**

Estimation Method  \* Start Date

Association Type  End Date

Default Usage Rate

\* Formula Text  Number of Past Readings

TIP Formula text variable should be prefixed with '\*', eg :A + :B

---

**Counter Template Additional Information**

Context Value

---

**Item Associations**

Select Item	Item Description
<input type="text"/>	
<input type="button" value="Add Another Row"/>	

---

**Formula Reference**

Reference Name	Source Counter	Reading Type	Start Date Active	End Date Active
No results found.				

### Formula Counter

3. Enter the Counter Template Name.
4. Optionally enter the Description.
5. Select the Usage Item.  
This is mandatory for contract item counters, optional for trackable item counters.
6. The Association Type appears as a read-only field. For standalone templates, the value is Trackable Item. For grouped counter templates, the value is derived from the counter group.  
  
**Note:** The Association Type does not appear in the Create Counter page.
7. Optionally, select an Estimation Method.
8. Select the Start Date, and optionally the End Date.
9. For Oracle Enterprise Asset Management meters, specify the Default Usage Rate and Number of Past Readings.
10. Enter the Formula Text that you wish to use for the counter, with each formula reference name immediately preceded by the ":" symbol. The syntax is any valid expression in standard SQL.

For example, to create a formula that sums the values of two counters, you can enter the formula :R1+:R2.

An example of a more complex formula is:

decode (sign((:P1+(2\*:P2))-:PTOTAL),-1,0,((:P1+(2\*:P2))-:PTOTAL))

**11. Click Validate Formula Text.**

The system scans the Formula Text and detects each reference name. These reference names appear in the Reference area for each selected item.

The steps that follow describe in general how to complete the definition of the formula-related fields in the Item Associations, Associations, and Reference areas.

For a diagrammatic overview of how to use the Item Associations and Reference areas for a counter template, and how to map counters to reference names, see *Entering Formula Details*, page 12-34.

To view the formula-related fields for the Total Copies Counter Template example, see *Entering Formula Details Example*, page 12-35.

**Item Associations (Counter Template) or Associations (Counter Instance)**

**12. Create the associations for the counter template or counter instance.**

For details, see *Associating Objects to Counters (Templates and Instances)*, page 12-26

To map counters to formula reference names, you must first select an associated object in the Item Associations or Associations area, then move to the Reference area to perform the mapping. Repeat this two-part process for as many objects as you want to associate to the formula counter.

**13. Select the check box for the item, item instance, or service contract line, whose counters you want to map to reference names.**

**Reference Area**

The Reference area shows the references for your current selection in the Item Associations or Associations area. In the Reference area, you must map a source counter name to each reference name entered in the Formula Text.

**14. For each Reference Name:**

- Select a Source Counter to map to the Reference Name.
- Optionally, select values for the fields Reading Type, Start Date Active, and End Date Active.

**15. Repeat the steps for each item, item instance, or service contract line for which you want to create a formula counter.**

16. Click the **Apply** button to complete the process.

## Comments

When an active formula counter template references one or more standard regular counter templates, and one of the associated trackable or contract item instances is created, then all the counters are instantiated for that item instance, that is, the formula counter instance and all the standard regular counter instances.

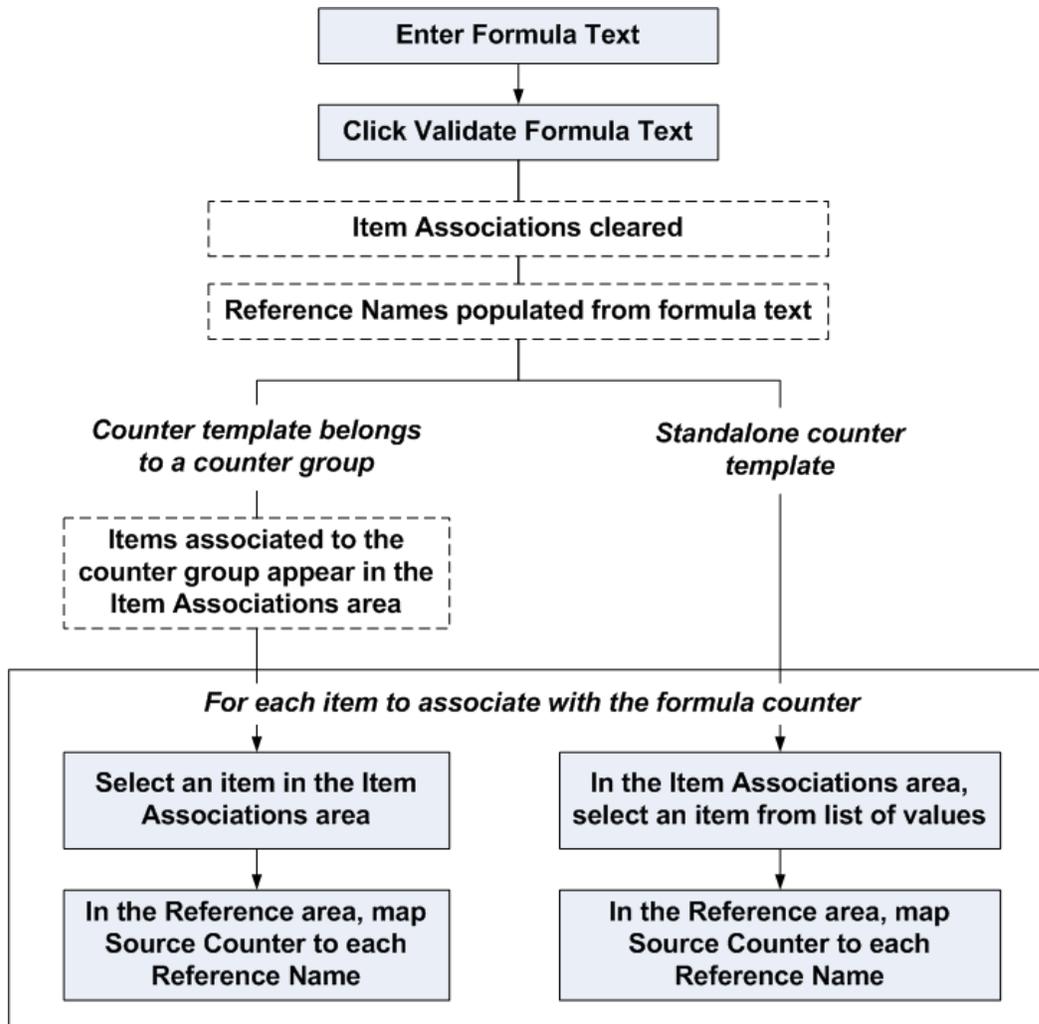
## See Also

- [Counters Setup Overview](#), page 12-11
- [Managing Counter Templates](#), page 12-19

## Entering Formula Details

The following diagram illustrates the process of entering the formula-related fields in the Item Associations and Reference areas, for a counter template, and how they relate to the formula text

To view the formula-related fields for the Total Copies Counter Template example, see [Entering Formula Details Example](#), page 12-35.

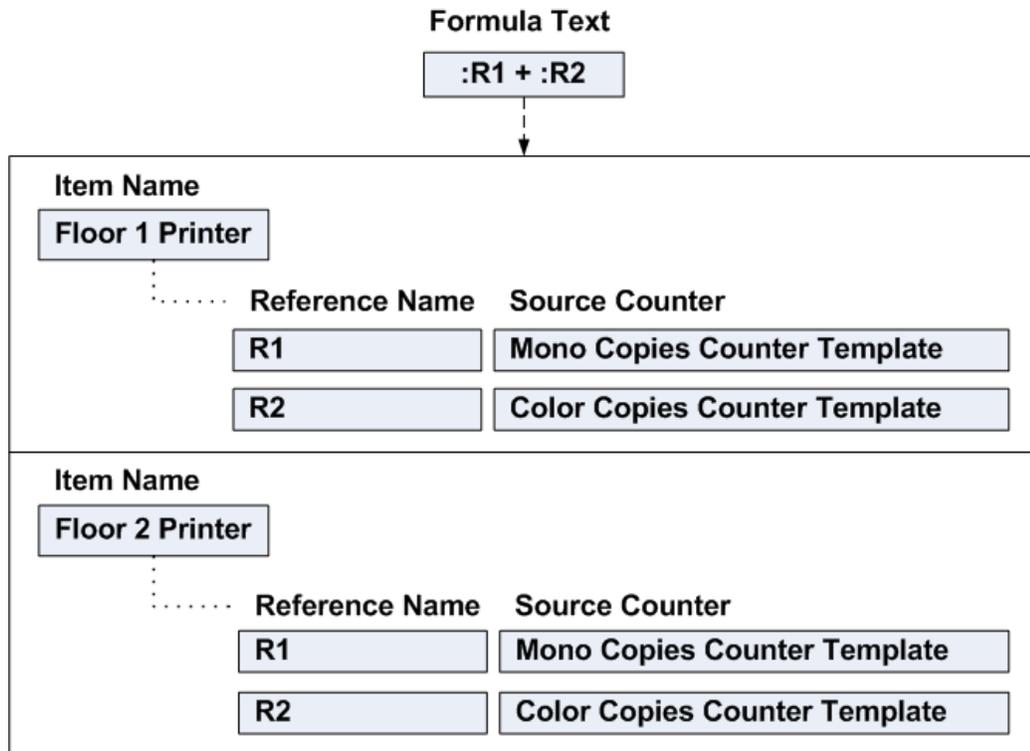


## Entering Formula Details Example

The following diagram illustrates the main elements in the business case example described in the topic Creating Formula Counters.

In this example, both the items, Floor 1 Printer and Floor 2 Printer, that are associated to the Laser Printer Counter Group are shown, together with their source counter mappings to both of the reference names, R1 and R2.

## Main Elements of Total Copies Counter Template



## Creating Average Counters (Templates and Instances)

An average counter calculates daily averages based on the readings of a derived standard regular counter, also referred to in this section as the source counter.

An average counter uses one of the following averaging methods:

- Count-based average  
You define how many previous standard counter readings to look at, and the system calculates the average of those previous readings.
- Time-based average  
This provides an average of usage based on time, for example, the average daily usage of all enabled readings for the source standard regular counter.

## Prerequisites

For counter templates: Oracle Installed Base Agent User > Counters > Templates > Create

For counter instances: Oracle Installed Base Agent User > Counters > Counter Instances > Create

## Steps

1. Select Formula for the Counter Type.
2. Select Average for the Group Function.
3. Click Go.

The Formula Counter area appears, with some fields specific to average counters.

The page layouts for counter templates and counter instances are similar. For the differences, see Differences between the Counter Template and Create Counter pages., page 12-21

The screenshot shows the Oracle Counter Template creation interface. At the top, there's a 'Counter Template' section with fields for 'Counter Template Name', 'Description', 'Counter Type' (set to 'Formula'), 'Unit Of Measure', and 'Group Function' (set to 'Average'). A 'Go' button is present. Below this is the 'Formula Counter' section with fields for 'Average Basis' (set to 'Count'), 'Average Count', 'Association Type' (set to 'Trackable Item'), 'Start Date' (11-Jul-2008 04:41:37), 'End Date', 'Default Usage Rate', and 'Number of Past Readings'. There's also a 'Counter Template Additional Information' section with a 'Context Value' dropdown. At the bottom, there's an 'Item Associations' table with columns for 'Item', 'Item Description', 'Start Date', 'End Date', 'Daily Usage Rate', and 'Past Readings'. The table has one row with the start date '11-Jul-2008 04:41:37'. There are 'Cancel' and 'Apply' buttons at the bottom right.

### Formula Counter (Average)

4. Enter the Counter Template Name.
5. Optionally enter the Description.
6. Select the Source Counter.  
This is the standard regular counter from which the average is calculated.
7. Select the Average Basis, either Count or Time.
8. If you selected Count for Average Basis, enter Average Count. This is the number of previous readings of the source counter to select for average calculation.  
If you selected Time for Average Basis, select the Average UOM. The difference

between the first and last readings is taken, and the average value per day, month, year - whatever you selected for Average UOM - is calculated.

9. Select the Usage Item.

This is mandatory for contract item counters, optional for trackable item counters.

10. The Association Type appears as a read-only field. For standalone templates, the value is Trackable Item. For grouped counter templates, the value is derived from the counter group.

**Note:** The Association Type does not appear in the Create Counter page.

11. Select the Start Date, and optionally the End Date.

12. For Oracle Enterprise Asset Management meters, specify the Default Usage Rate and Number of Past Readings.

#### **Item Associations (Counter Template) or Associations (Counter Instance)**

13. Create the associations for the counter template or counter instance.

For details, see Associating Objects to Counters (Templates and Instances), page 12-26

#### **Completing the Process**

14. Click Apply.

## **See Also**

- Counters Setup Overview, page 12-11
- Managing Counter Templates, page 12-19

## **Creating Count and Sum Counters (Templates and Instances)**

Sum counters provide an accumulated total of the counter readings for a standard regular counter. Count counters provide a count of the total number of readings that have occurred prior to resetting a counter. For example, consider a counter that had three readings and was reset after the last reading. If the three readings are 100, 100, 100, then the sum counters returns 300, and the count counter returns 3.

You can also filter the data for count and sum counters which satisfy counter property conditions. The counter properties and values must have been defined in the standard regular counter from which the count or sum counter is derived.

## Prerequisites

For counter templates: Oracle Installed Base Agent User > Counters > Templates > Create

For counter instances: Oracle Installed Base Agent User > Counters > Counter Instances > Create

## Steps

1. Select Formula for the Counter Type.
2. Select Sum or Count for the Group Function.
3. Click Go.

The Formula Counter area appears, with some fields specific to sum and count counters.

The page layouts for counter templates and counter instances are similar. For the differences, see Differences between the Counter Template and Create Counter pages., page 12-21

The screenshot shows the Oracle Counter Template configuration interface. At the top, there is a 'Counter Template' section with fields for 'Counter Template Name', 'Description', and 'Counter Type' (set to 'Formula'). To the right, there are fields for 'Unit Of Measure' and 'Group Function' (set to 'Sum'), with a 'Go' button below. 'Cancel' and 'Apply' buttons are in the top right corner. Below this is the 'Formula Counter' section, which includes 'Association Type' (set to 'Trackable Item'), 'Default Usage Rate', 'Number of Past Readings', 'Start Date' (set to '11-Jul-2008 04:41:37'), and 'End Date'. At the bottom, there is a 'Counter Template Additional Information' section with a 'Context Value' dropdown menu.

### Formula Counter (Count and Sum)

4. Enter the Counter Template Name.
5. Optionally enter the Description.
6. Select the Source Counter.  
This is the standard regular counter from which the sum or count is calculated.
7. Select the Usage Item.  
This is mandatory for contract item counters, optional for trackable item counters.
8. The Association Type appears as a read-only field. For standalone templates, the

value is Trackable Item. For grouped counter templates, the value is derived from the counter group.

**Note:** The Association Type does not appear in the Create Counter page.

9. Select the Start Date, and optionally the End Date.
10. For Oracle Enterprise Asset Management meters, specify the Default Usage Rate and Number of Past Readings.

### Filters

Filters						
(	Property	Relational Operator	)	Value	)	Logical Operator
▼	<input type="text"/>	▼		<input type="text"/>	▼	▼

Add Another Row

11. Optionally, enter and select information for any filters that you want to add to the count or sum counter template.
  - The properties and values must have been defined as counter properties and values in the source counter.
  - You can add extra rows for multiple conditions. Select AND or OR for the Logical Operator in all rows except the last row. The columns headed "(" and ")" allow you to select different parenthesis options for complex conditions.

**Note:** Multiple conditions are evaluated according to standard SQL rules. For example, if explicit grouping using parentheses is not specified, AND conditions are evaluated first, then OR conditions.

### Item Associations (Counter Template) or Associations (Counter Instance)

12. Create the associations for the counter template or counter instance.

For details, see Associating Objects to Counters (Templates and Instances), page 12-26

### Completing the Process

13. Click Apply.

## See Also

- Counters Setup Overview, page 12-11

- Managing Counter Templates, page 12-19

## Viewing and Updating Counter Templates

The Counter Templates page displays the details of the counter template.

The "view" version of this page does not allow updates.

## Updating Counter Templates

Use the Counter Template page to update any available fields that are not read-only. The process of updating a counter template is similar to the counter template creation process. For more details, see Creating Counter Templates., page 12-21

1. Navigate to the Counter Template page (Oracle Installed Base Agent User > Template < [search for counter template] > Update button).

The Counter Template page appears.

The screenshot shows the Oracle Counter Template page. At the top, there are tabs for 'Item Instance', 'Counters', and 'Mass Update'. Below these are sub-tabs for 'Counters', 'Mass Readings', 'Template', 'Groupings', and 'Estimation Methods'. The main heading is 'Counter Template' with 'Cancel' and 'Apply' buttons. A note indicates that an asterisk (\*) denotes a required field. The form contains the following fields:

- Counter Template Name:** Time Based Counter
- Description:** Time Based Counter
- Counter Type:** Regular
- Reading Type:** Absolute
- Initial Reading:** [Empty text box]
- Direction:** Fluctuating
- Counter Group:** Time Based counters
- Usage Item:** QP-LPTR-U
- Allow Manual Reading Entry
- Unit Of Measure:** Month
- Estimation Method:** [Dropdown menu]
- Step Value:** [Text box]
- Tolerance Plus %:** [Text box]
- Tolerance Minus %:** [Text box]
- \* Start Date:** 06-Oct-2000 14:28:06
- End Date:** [Text box]
- Use In Scheduling
- Association Type:** Contract Item

2. Select the Allow Manual Reading Entry checkbox to enable users to manually enter time-based readings.
3. Revise other available fields as necessary.

## See Also

- Counters Setup Overview, page 12-11
- Managing Counter Templates, page 12-19



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## Managing Counter Instances in Oracle Installed Base

This chapter covers the following topics:

- Introduction
- Overview of Counter Instances
- Managing Counter Instances
- Searching for Counter Instances
- Creating Counter Instances
- Viewing and Updating Counter Instances
- Managing Readings for Counter Instances
- Entering Counter Readings in Oracle Installed Base
- Entering Counter Readings (Detailed Steps)
- Disabling Counter Reset Meter Readings
- Viewing and Entering Additional Counter Reading Data
- Entering Counter Readings from Other Oracle Applications
- Viewing Target Counter Instances
- Viewing Reading History for Counter Instances
- Performing Mass Readings
- Viewing Reading Locks on Counter Instances
- Managing Daily Usage for Counter Instances

### Introduction

This chapter consists of the following topics:

- Overview of Counter Instances, page 13-2
- Searching for Counter Instances, page 13-3
- Creating Counter Instances, page 13-4
- Viewing and Updating Counter Instances, page 13-5
- Viewing Reading Locks on Counter Instances, page 13-17
- Managing Daily Usage for Counter Instances, page 13-17
- Viewing Target Counter Instances, page 13-13
- Viewing Reading History on Counter Instances, page 13-13

## Overview of Counter Instances

The setup of counter groups and counter templates, and their associations with contract or trackable items, is to enable counter instances to be created automatically when instances of the associated items are created. These automatic creations of counter instances are performed during the execution of transactions in various Oracle applications.

You can also create counter instances explicitly in Oracle Installed Base. In doing so, you must associate already created trackable item instances or service contract lines with each counter instance.

You can perform readings for counter instances, and view and update additional counter reading information, such as counter properties, adjustments, and resets.

This section consists of the following main topic groups:

- Managing Counter Instances, page 13-2
- Managing Readings for Counter Instances, page 13-6

## Managing Counter Instances

You can use Oracle Installed Base to manage all counter instances, whether they are created automatically or manually.

This section consists of the following topics:

- Searching for Counter Instances, page 13-3
- Creating Counter Instances, page 13-4

- Viewing and Updating Counter Instances, page 13-5
- Viewing Reading Locks on Counter Instances, page 13-17
- Managing Daily Usage for Counter Instances, page 13-17
- Viewing Target Counter Instances, page 13-13
- Viewing Reading History on Counter Instances, page 13-13

## See Also

- Overview of Counter Instances, page 13-2
- Counters Setup Overview, page 12-11

## Searching for Counter Instances

In the Counter Instances Search page, the main operation you perform is to search for existing counter instances. You can then view or update the details of existing counter instances, as well as any associated target counters, reading history, and reading locks.

In this page, you can also:

- Start the process of entering counter readings and additional counter reading data for a counter instance.
- Start the process of creating a new counter instance.

## Prerequisites

Oracle Installed Base Agent User > Counters > Counter Instances

## Steps (to perform a search)

1. Select the type of search that you want to perform - Item Instance, Counter Name, or Service Line.
2. Click the search icon to search through the list of values that appears. Select the appropriate item or counter instance, or service contract line.
3. Click Go.

The results area displays a list of the found counter instances.



## Comments

In the results area, you can perform the following operations

- Click the counter instance Name to view the details of the counter instance.
- Click the Update icon for a counter instance to update the counter instance.

For each counter instance, you can also click the appropriate enabled icon to view the Reading Locks, page 13-17, Daily Usage, page 13-17, Target Counters, page 13-13, and Reading History, page 13-13. You can also disable counter readings in the reading history page.

## See Also

- Counters Setup Overview, page 12-11
- Managing Counter Instances, page 13-2
- Managing Readings for Counter Instances, page 13-2

## Creating Counter Instances

The process of manually creating counter instances is similar to the process of creating counter templates. The major difference is that for counter instance creation, you must associate either existing item instances, or active service contract lines, to the counter instance.

You can create the same types of counter instance as counter template: Standard Regular, Time-Based Regular, Formula, Average, Count or Sum.

You can create a target counter instance, by specifying its source counter instance.

For details, see Creating Counters, page 12-21.

## See Also

- Managing Counter Instances, page 13-2
- Managing Readings for Counter Instances, page 13-2

## Viewing and Updating Counter Instances

The View Counter page displays the details of a counter instance; you cannot update any of the fields.

For more information about the counter instance fields, see *Creating Counters*, page 12-21.

## Updating Counter Instances

The Update Counter page to update a counter instance.

1. Navigate to the Update Counter page (Oracle Installed Base Agent User > Counters < [search for counter instance] > Update button).

The Update Counter page appears.

Item Instance | **Counters** | Mass Update

Counters | Mass Readings | Template | Groupings | Estimation Methods

Counters: Counters >

### Update Counter

Cancel Apply

\* Indicates required field

Personalize Default Double Column: (RegCounterDefRN)

* Counter Name	Time Based Counter-	Direction	Fluctuating
Description	Time Based Counter	Estimation Method	
Counter Type	Regular	Tolerance Plus %	
Unit of measure	Month	Tolerance Minus %	
Reading Type	Absolute	* Start Date	08-Feb-2001 11:24:08
Counter Group	Time Based counters	End Date	
Usage Item	QP-LPTR-U	<input type="checkbox"/> Used In Scheduling	
Step Value		Initial Reading	
		Default Usage Rate	
		Number of past readings	
		<input checked="" type="checkbox"/> Allow Manual Reading Entry	

#### Counter Additional Information

Personalize "Counter Additional Information"

#### Source Counter

Personalize "Source Counter"

Personalize Default Double Column: (SourceCounterRN)

Source Counter Name		Start Date	(16-Apr-2019 19:45:00)
Factor	1	End Date	

You can change the values in the available fields.

You cannot change the following read-only fields:

- For all counter types: Counter Type and Unit of measure.
- For standard regular counters: Reading Type and Direction.
- For formula counters based on formula text: Formula Text.
- For average, count, and sum counters: Group Function, Derived Counter.

2. Select the Allow Manual Reading Entry checkbox to enable the ability to manually enter time-based counter readings.

## See Also

- Managing Counter Instances, page 13-2
- Managing Readings for Counter Instances, page 13-2

## Managing Readings for Counter Instances

You can capture counter readings for counter instances in Oracle Installed Base. You can also view and update additional data about counter readings, such as counter property readings including the source of the counter reading, adjustments, resets, and target counter readings.

This section consists of the following topic groups:

- Entering Counter Readings in Oracle Installed Base, page 13-6
- Entering Counter Readings from Other Oracle Applications, page 13-12
- Performing Mass Readings on Counter Instances, page 13-14

## See Also

- Managing Counter Instances, page 13-2

## Entering Counter Readings in Oracle Installed Base

You can enter counter readings for counter instances. The default time recorded for the reading is the current date and time, but you can record an earlier date and time for the reading.

In addition, you can view and update additional information about the counter reading, such as counter property values.

## General Counter Reading Process

The standard enter counter reading process is as follows:

1. In the Counter Instances page, search for one or more counter instances.
2. Click Enter Readings.
3. The Capture Counters page appears with all the counter instances from the Counter

Instances results for which you may enter readings.

**Note:** You can only enter readings for standard regular counters, that are not target counters.

History Counter Name	Reading Type	Value	Direction	UOM	Date	Rollover	Source	Source Reference	Last Reading Value	Last Reading Date	Flexfields	History
HP Printer-64323	Absolute		Fluctuating	Each	13-Jun-2022 13:03:41	<input type="checkbox"/>						

4. You can enter reading data for each displayed counter.

You can view or edit information such as:

- Counter Name
- History
- Reading Type
- Direction
- UOM
- Date
- Rollover
- Source: Click the drop-down to select a value for the source of the counter reading. The values come from the CSI\_CTR\_READING\_SOURCE lookup. See Set Up Source Lookup Codes for Counters, *Oracle Installed Base Implementation Guide*.
- Source Reference
- Last Reading information

5. To enter additional counter reading data, click Show for a counter.

New Readings									
Comments <input type="text"/>									
Counter Property Value					Target Counters				
Name	Type	UOM	Null Allowed	Property Value	Name	UOM	Factor	Last Reading	History
No search conducted.					No search conducted.				
Adjustments					Reset				
Adjustment Type <input type="text"/>							<input type="checkbox"/> Include Target Reset		
Adjustment Amount <input type="text"/>					Reset Reading <input type="text"/>		Reset Comment <input type="text"/>		

- The Counter Property Readings area shows all the counter properties associated with the counter. You must enter values for the mandatory counter properties. The Target Counters area is read-only. You may enter Adjustments and Reset data as required.

For more details of the capture reading options, see the following topics:

- Entering Counter Readings (Detailed Steps), page 13-8
- Viewing and Entering Additional Counter Reading Data, page 13-11

## See Also

- Managing Counter Instances, page 13-2
- Entering Counter Readings from Other Oracle Applications, page 13-12

## Entering Counter Readings (Detailed Steps)

### Prerequisites

Oracle Installed Base Agent User > Counters > Counter Instances > Enter Readings button

### Steps

*Perform steps 1 to 8 for each counter reading.*

- Enter the value for the reading.
- By default, the date of the new reading is set to the current date and time
- Optionally, change the date of the reading.  
You can enter a date and time prior to the default date.

4. Select the Rollover check box if you want the reading to rollover.
5. Optionally, enter any Comments about the reading.
6. Optionally, click Flexfields.
7. Optionally, click History.

In the History page, you can disable the reading.

8. Optionally, click Show.

You can view and enter additional counter reading data, page 13-11, such as counter property reading values.

#### **Completing the Process**

9. After you have entered one or more counter readings and additional counter reading data, click Apply to save your changes.

### **See Also**

- Managing Counter Instances, page 13-2
- Entering Counter Readings in Oracle Installed Base, page 13-6
- Viewing and Entering Additional Counter Reading Data, page 13-11

## **Disabling Counter Reset Meter Readings**

You can allow disabling the counter reset meter readings even though there are subsequent meter readings. This action enables the ability to reset prior meter readings.

**Note:** You can use this feature in Oracle Forms or Self-Service (OAF) UIs.

#### **To disable counter reset meter readings:**

1. Navigate to the Counter Instances page (Installed Base Agent User > Counters > Counter Instances).
2. Search for a counter, and click Counter Reading History.
3. Click Disable for the specific row.
4. Click Go.

The system recalculates the meter readings. The subsequent meter readings are not changed.

- The following table contains the conditions under which this disabling can occur:

<b>Meter Type</b>	<b>Value Change</b>	<b>Disable action with Counter Reading after Reset Reading</b>
Absolute	Ascending	Allows disabling of reset meter reading if reading after reset is in ascending order
Absolute	Descending	Allows disabling of reset meter reading if reading after reset is in descending order
Absolute	Fluctuating	Allows in all directions
Change	Ascending	Updates automatically with reference to previous reading
Change	Descending	Updates automatically with reference to previous reading
Change	Fluctuating	Allows in all directions

#### **Messages**

- If there are errors during the disable process, the following message appears:  

```
Cannot disable the Counter reading that was reset. The Next
(Counter or Net) Reading is violating the direction. Retry
after disabling the next reading.
```
- If there are warnings during the disable process, the following message appears:  

```
Disabling the reset reading will not disable the next
reading (if any exists) and counter reading direction will
be validated. Do you want to proceed?
```

## Viewing and Entering Additional Counter Reading Data

When you click Show on a counter reading line, you can view and enter additional counter reading data, such as counter property values.

This section consists of the following topics:

- Entering Counter Property Readings, page 13-11
- Entering Adjustment and Reset Data, page 13-11
- Viewing Target Counter Readings, page 13-12

## Entering Counter Property Readings

All the counter properties associated with the counter appear. You must enter values for the mandatory column properties.

## Entering Adjustments and Reset Amounts

You cannot explicitly update existing counter readings, but you can make adjustments to and reset the current counter reading. All the changes you make are recorded, and are visible in the reading history for the counter instance.

For adjustments, select an Adjustment Type and enter the Adjustment Amount.

The effect of adjustments on the current reading depends on the direction of the counter:

- If the direction is ascending, the adjustment amount is added to the latest reading.
- If the direction is descending, the adjustment amount is subtracted from the latest reading.
- You cannot make adjustments to a bi-directional counter.

For *resetting*, you can enter any value for Reset Current, that will replace the current counter reading. You can, optionally, check Include Target Reset to reset the derived target counter reading.

Both adjustments and resets alter the current reading. In addition, adjustments alter the Net and Life to Date reading values. You can view the values in the counter reading history.

## When Adjustments and Resets are Not Allowed

If a reading lock is defined on the counter reading, you cannot make reading adjustments or resets prior to the reading lock date.

If a source counter is locked, then you cannot make counter reading adjustments or resets prior to the reading lock date on the source counters.

## Viewing Target Counter Readings

If your current counter instance is the source for any target counter instances, you can view the readings for the target counter instances.

## See Also

- Managing Counter Instances, page 13-2
- Entering Counter Readings (Detailed Steps), page 13-8

## Entering Counter Readings from Other Oracle Applications

The Capture Counter Reading window is used to update a new counter reading for an item, service, or contract line that is associated with a counter group or counters. The window is accessible from the toolbar of Depot Repair, Field Service, Customer Care, Customer Support, and Service Contracts.

Counter Name	Group Name	Counter Type	Reading Date	UOM	Reading Type	Reading Current	Step	Up	Down	New	Automatic Rollover
Repair Counter	Depot Repair C	Regular		Each	Absolute			↑	↓		<input type="checkbox"/>
								↑	↓		<input type="checkbox"/>
								↑	↓		<input type="checkbox"/>

Adjustment Type:  Adjustment Reading:

Reset Reading:

Reset Reason:

Last Reading Date:  Initial Reading:

Comments:

Name	UOM	Null Allowed	Data Type	Default Value	Value
		<input checked="" type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			

Description:

View Reading History OK Cancel

## Prerequisites

Counters must be associated with an item, service, or contract line in order to access the Capture Counter Reading window to perform updates.

## Steps

1. From the toolbar of the calling application, choose Tools > Counter Capture or Action > Counter Capture.

The Capture Counter Reading window appears.

2. Enter the new reading for each defined counter into the New field.
3. From the toolbar, click the Save icon to update and save the record.

## Associating a Counter Property Value

1. Select the Name of the property type.
2. Click the Value LOV button to display the list of property types.
3. From the toolbar, click the Save icon to update and save the record.

## See Also

- Managing Counter Instances, page 13-2

## Viewing Target Counter Instances

If the current counter instance is a source counter for one or more target counters, you can view the target counter instances in this page.

## Prerequisites

Click the Target Counters icon for a counter instance in a counter instance search results list.

## See Also

- Managing Counter Instances, page 13-2

## Viewing Reading History for Counter Instances

When you view the reading history for a counter instance, the only special operation you can perform is to disable a counter reading. You can only disable a counter reading if it is not locked. You cannot disable counter readings for target counters.

The Counter Reading History page by default displays all the existing active counter

readings for the current counter instance.

You can explicitly select a counter reading in the counter readings area to show the counter property readings associated with that counter reading.

In this page, you can view different sets of counter reading data as follows:

- You can search for counter readings within particular dates.
- You can view the actual or average counter readings in the date range.
- You can view all counter readings including the disabled readings.

## Prerequisites

Click the History or Reading History icon for a counter instance in either a counter instance search results list, a Capture Counters page, or a Mass Readings page. You can view information such as the comments, source, and source reference.

Select	Date	Value	Net Life to Date	Reading	Entered By	Adjustment	Reset	Comments	Flexfields	Disable
				Comments	Source	Source Reference	Type	Reading		
<input type="radio"/>	29-Mar-2011 12:57:40	0	0 0	Initial Reading		TSMITH				

## See Also

- Managing Counter Instances, page 13-2

## Performing Mass Readings

You can perform mass readings on item instances and counter instances.

For item instance mass reading, you can view and update existing counter instance readings associated with item instances, and you can add counter instances to an item instance.

For counter instance mass reading, you can update the existing counter instance readings.

For both item instance and counter instance mass reading, you can enter data for many counter instances from the search results list.

## Overview

You can perform a mass search for item and counter instances by a various of search criteria. For example, you can search for all the counter instances associated with an item instance, or an owner, or a contract. Most of the search parameters are for item instances searches; Counter Name is used for counter instance searches.

You can select to view the search results either by item instance or by counter instance name.

The following describes the operations you can perform for a single counter instance. After performing the search, you can use the search results list as a base "operations area" for performing the same types of operation for many counter instances.

Select a counter instance, so that you can enter a counter reading for the counter instance. For each counter reading, you can also perform additional operations, such as entering counter property readings, entering adjustments and reset information.

After making all your changes, click Save to commit them to the database.

For details of each of the mass reading operations you can perform, select the appropriate topic:

- Entering Search Parameters, page 13-15
- Searching and Viewing by Item Instance, page 13-16
- Searching and Viewing by Counter, page 13-16

The operations you can perform to enter counter readings and other counter reading data are the same as when you capture individual counter readings. For details, see the following topics:

- Entering Counter Readings (Detailed Steps), page 13-8
- Viewing and Entering Additional Counter Reading Data, page 13-11

## Entering Search Parameters

Enter one or more of the following search parameters:

- Counter Name: name of the counter instance.
- Serial Number, Item Instance Number: these fields search for the item instance directly.
- Owner Party Name, Owner Account Number: these fields search for the item instances of required owner.
- Contract Number: this field searches for all item instances associated with the given

contract.

- Relationship/Association/Contract Type/Source/Name: these fields search for all the item instances with which the specific person is associated.
- Current Location Type, Current Location: these fields search for all the item instances at a given location.
- No Read Duration: this field searches for all the item instances whose counters have not been read for the specified number of days in the immediate past.

## Searching and Viewing by Item Instance

In the search results, select an instance number to display its counters in the Counters area. You can enter a counter reading directly in the counter row, or click Show to view and update extra information about the counter reading.

**Note:** You can also select an item instance and add one or more counter instances to that item instance.

The screenshot shows the 'Readings' application interface. At the top right is a 'Save' button. Below it is a 'Simple Search' section with a note: 'Note that the search is case insensitive'. The search filters are arranged in two columns. The left column includes: Counter Name, Item, Serial Number, Item Instance Number (with value '140613'), Owner Party Name, Owner Account Number, and Contract Number. The right column includes: Relationship Type, Relationship Source (with value 'Employee'), Relationship Name, Current Location Type (with value 'Party Site'), Party Name, and Current Location. Below the search filters are 'Go' and 'Clear' buttons. A 'View By' dropdown is set to 'Item Instance'. Below this is a table with columns: Instance, Item, Description, Serial Number, and Current Location. The table contains one row: Instance '140613', Item 'AS54888 Sentinel Standard Desktop TPD', Serial Number '1', and Current Location 'Imaging Place Oakdale'. Below the table is an 'Add Counters' button. At the bottom is another 'Save' button. Below the 'Add Counters' button is a detailed table for counter instances.

Source									
Details	Counter Name	History	Counter Name	Reading Type	Value	Direction	UOM	Date	Lost Reading
Show	HP Printer-64323		HP Printer-64323	Absolute		Fluctuating	Each	15-Jul-2008 03:21:20	

## Searching and Viewing by Counter

The search results display the counter instances in the Counters area. You can enter a counter reading directly in any counter row, or click Show to view and update extra information about the counter reading.

Counters

		Source											
		New Readings					Last Reading						
Details	Counter Name	History	Counter Name	Reading Type	Value	Direction	UOM	Date	Rollover	Value	Date	Flex Fields	History
	HP Printer-64323		HP Printer-64323	Absolute		Fluctuating	Each	15-Jul-2006 03:29:00		<input type="checkbox"/>			

New Readings

Comments

Counter Property Value					Target Counters				
Name	Type	UOM	Null Allowed	Property Value	Name	UOM	Factor	Last Reading	History
No search conducted.					No search conducted.				

Adjustments

Adjustment Type

Adjustment Amount

Reset

Include Target Reset

Reset Reading

Reset Comment

## See Also

- Managing Counter Instances, page 13-2

## Viewing Reading Locks on Counter Instances

In the Reading Locks page, you can view any reading locks placed on a counter instance by an Oracle application.

These locks are placed on counter readings to protect the reading against update.

## Prerequisites

Click the Reading Locks icon for a counter instance in a counter instance search results list.

## See Also

- Managing Counter Instances, page 13-2

## Managing Daily Usage for Counter Instances

This page is used for informational value only.

## Prerequisites

You must click the Daily Usage icon for a counter instance in a counter instance search results list.

## See Also

- [Managing Counter Instances](#), page 13-2

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# Administering Counters

This chapter covers the following topics:

- Introduction
- Setting the Time Based Counters Engine
- Setting Profile Options
- Using the Counter Readings Open Interface

## Introduction

This chapter consists of the following topics:

- Setting the Time Based Counters Engine, page 14-1
- Setting the Profile Options, page 14-1
- Using the Counter Readings Open Interface, page 14-2

## Setting the Time Based Counters Engine

You must set the Time Based Counters Engine concurrent program to run periodically to advance and update all active time-based counters and to expire those counters that have passed their effective end dates.

## Setting Profile Options

The following are profile options associated with counters:

- CSI: Counter Webview Allowed has a value of Yes or No. Set the option to Yes if you wish to enable counter views from Oracle iSupport.
- CTR: Inactive Item Statuses can be populated with an item status selected from the

profile list of values. Inventory items with this status are excluded from the list of items available for association to a counter group or a counter template.

- CSI: Counters Enabled - If set to "Y", this enables counters to be instantiated after creating the associated item instance.
- CTR: Display reading valid flag in HTML - If set to "Y", the reading valid flag column will be displayed in Oracle Installed Base HTML pages.

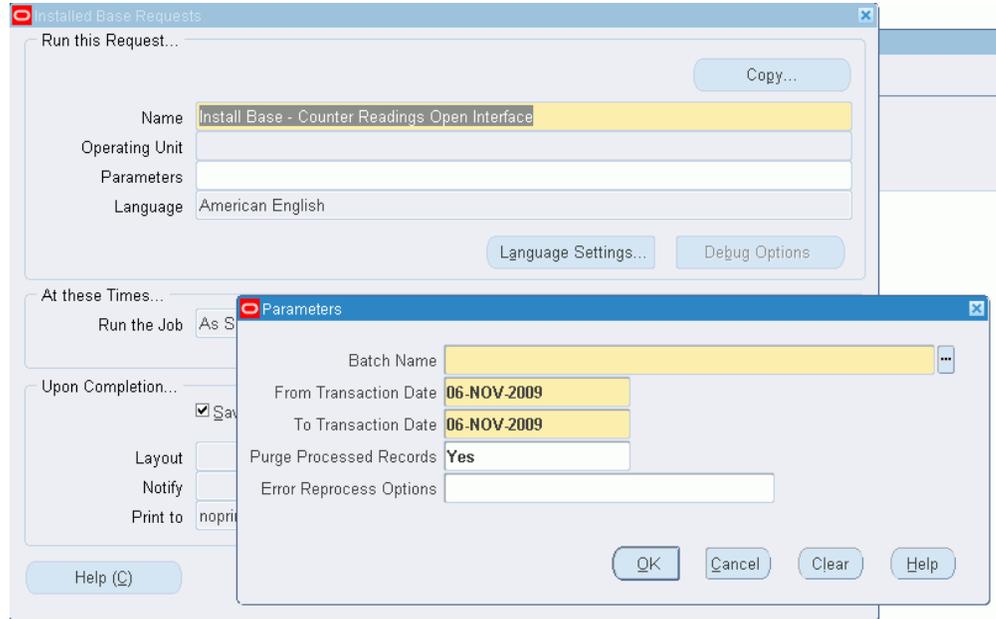
## Using the Counter Readings Open Interface

Through the Counter Readings Open Interface program, you have the ability to import significant volumes of data into counter readings and counter property readings tables. The data may be from multiple source including external legacy systems.

For general information about the Open Interface, see *Using the Open Interface Program*, page 9-1.

The complete process is as follows:

1. Load data into the counter readings and counter property readings interface tables.  
For column details, see *The Open Interface Tables*, page B-1.
2. Run the Installed Base - Counter Readings Open Interface concurrent program that reads, validates, and posts the data from the interface tables into the counter readings and counter property readings tables in Oracle Installed Base.



3. If you want the processed records to be cleared from the interface tables after processing, select Yes for Purge Processed Records.
4. If errors occur during the running of the program, the failed records will be loaded into the Open Interface error table, where you will be able to reprocess them.

The Error Reprocess Options field controls the selection of records to reprocess in the Counter Readings Open Interface Error Details page - a later step in this process.

If you select All, then all the records in the error details page will be reprocessed automatically, without the need to select any.

If you select Selected or leave the field blank, you must select the records to reprocess in the error details page.

5. After you run the program, failed records go to the Open Interface error table.
6. To review and edit failed records, select the Open Interface Error Details from the Oracle Installed Base Administrator menu options.

Find Counter Readings Open Interface Errors

Transaction Date  -

Batch Name

Interface Id

Source Transaction Type

Counter Name  Counter Id

Cancel Clear Find

7. Select values to filter the error rows, and click Find.  
The Counter Readings Open Interface Error Details page displays the error records in the interface tables.
8. Select a row in the Readings area to see associated records in the Property Readings area.
9. In this page, scroll across to see all the fields, and edit the records that you want to change.
10. If the program that produced these errors was run with the Error Reprocess Options *not* set to All, click the Process Flag for all the records that you want to reprocess.
11. Click the Save icon in the Counter Readings Open Interface Error Details page.  
The rows selected, either automatically or explicitly, are reprocessed.

---

# Oracle Transactions Interfacing with Oracle Installed Base

## Transaction List

This following table consists of the source transaction types that interface with Oracle Installed Base, and the Oracle applications that trigger the transactions.

Oracle Application	Source Transaction Type
Asset Tracking	FA Adjustment
Asset Tracking	In Service
Asset Tracking	Instance Asset Tieback
Asset Tracking	Item Move
Asset Tracking	Out of Service
Asset Tracking	PA Adjustment
Asset Tracking	Project Item in Service
Asset Tracking	Project Item Installed
Asset Tracking	Project Item Uninstalled
Assets	Asset Reinstatement

<b>Oracle Application</b>	<b>Source Transaction Type</b>
Assets	Asset Retirement
Complex Maintenance Repair and Overhaul	Complex Maintenance Work Order
Complex Maintenance Repair and Overhaul	Unit Configuration - Complete
Complex Maintenance Repair and Overhaul	Unit Configuration - Create
Complex Maintenance Repair and Overhaul	Unit Configuration - Remove
Complex Maintenance Repair and Overhaul	Unit Configuration - Update
Configurator	Configurator MACD Flow
Depot Repair	Depot Repair
Enterprise Asset Management	Maintenance Asset Check In
Enterprise Asset Management	Maintenance Asset Check Out
Enterprise Asset Management	Maintenance Asset Create/Update
Enterprise Asset Management	Maintenance Rebuildable Return
Enterprise Asset Management	Maintenance Work Order Completion
Field Service	Debrief Counter Capture
Field Service	Field Service
Field Service	Field Service Report
Installed Base	Account Merge Transaction
Installed Base	Data Correction
Installed Base	Expire End-dated Instances Process
Installed Base	IB Component Install (WIP)

<b>Oracle Application</b>	<b>Source Transaction Type</b>
Installed Base	Installed Base Open Interface
Installed Base	Installed Base Data Migrated
Installed Base	Installed Base Mass Edit
Installed Base	Installed Base User Interface
Installed Base	Item Instance Counter Capture
Installed Base	Mass Counter Reading
Installed Base	Party Merge Transaction
Installed Base	RMA Fulfillment
Installed Base	Time Based Counter Capture Reading
Inventory	Account Alias Issue
Inventory	Account Issue
Inventory	Backflush Transfer
Inventory	Cycle Count
Inventory	Cycle Count Transfer
Inventory	Inter Org Transfer
Inventory	Internal Order Direct Ship
Inventory	Internal Order Issue
Inventory	Internal Order Pick
Inventory	Internal Order Receipt
Inventory	Internal Order Shipment

<b>Oracle Application</b>	<b>Source Transaction Type</b>
Inventory	Internal Order Transfer
Inventory	Internal Req Adjustment
Inventory	Inter-Org Direct Transfer
Inventory	Inter-Org In-Transit Receipt
Inventory	Inter-Org In-Transit Shipment
Inventory	Issue to an HZ Location
Inventory	Miscellaneous Issue
Inventory	Miscellaneous Issue to a HZ Location
Inventory	Miscellaneous Issue To Project
Inventory	Miscellaneous Receipt
Inventory	Miscellaneous Receipt from a HZ Location
Inventory	Miscellaneous Receipt From Project
Inventory	Move Order Issue
Inventory	Move Order Issue to Project
Inventory	Move Order Transfer
Inventory	Physical Inventory
Inventory	Physical Inventory Transfer
Inventory	PO Adjustment
Inventory	PO Receipt into Inventory
Inventory	Project Borrow

<b>Oracle Application</b>	<b>Source Transaction Type</b>
Inventory	Project Payback
Inventory	Project Transfer
Inventory	Receives Material against an Account
Inventory	Receives Material against an Acct Alias
Inventory	Return to Vendor
Inventory	Sales Order Pick
Inventory	Shipment Receipt Adjustment
Inventory	Sub Inventory Transfer
Inventory	WIP Assembly Completion
Inventory	WIP Assembly Return
Inventory	WIP By-Product Completion
Inventory	WIP By-Product Return
Inventory	WIP Issue
Inventory	WIP Receipt
Lease Management	Lease Management Counter Capture
Lease Management	OKL Booking
Lease Management	OKL Dispose
Lease Management	OKL Other
Lease Management	OKL Reloaction
Lease Management	OKL Return

<b>Oracle Application</b>	<b>Source Transaction Type</b>
Lease Management	OKL Split Asset
Order Capture	Order Capture Quotes
Order Management	Internal Order Issue
Order Management	Internal Sales Order
Order Management	Order Management - Ship/Fulfill
Order Management	RMA Receipt
Project Contracts	Oracle Project Contract Shipping
Provisioning	Service Fulfillment Manager
Purchasing	PO Receipt into Project
Service	Service Request Task
Service Contracts	Contract Line Counter Capture
Service Contracts	OKS Subscription

---

## The Open Interface Tables

### Oracle Installed Base Open Interface Tables

This appendix consists of the following topics:

- Main Columns of the CSI\_INTERFACE\_SOURCES Table, page B-1
- Main Columns of the CSI\_INSTANCE\_INTERFACE Table, page B-2
- Main Columns of the CSI\_I\_PARTY\_INTERFACE Table, page B-10
- Main Columns of the CSI\_II\_RELATION\_INTERFACE Table, page B-15
- Main Columns of the CSI\_IEA\_VALUE\_INTERFACE Table, page B-17
- Main Columns of the CSI\_ASSET\_INTERFACE Table, page B-20
- Main Columns of the CSI\_CTR\_READINGS\_INTERFACE Table, page B-22
- Main Columns of the CSI\_CTR\_READ\_PROP\_INTERFACE Table, page B-25

### Main Columns of the CSI\_INTERFACE\_SOURCES Table

Name	Datatype	Size	Mandatory	Comments
SOURCE_SYSTE M_ID	NUMBER		Yes	Source System ID of the external or internal system.

Name	Datatype	Size	Mandatory	Comments
SOURCE_SYSTEM_NAME	VARCHAR2	30	Yes	Source System Name of the external or internal system.
SOURCE_DESCRIPTION	VARCHAR2	240		Source System Description of the external or internal system
SOURCE_LANG	VARCHAR2	30		Primary Language of the external or internal system.
LAST_UPDATE_DATE	DATE		Y	Standard WHO column
LAST_UPDATE_BY	NUMBER	15	Y	Standard WHO column
CREATION_DATE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE_LOGIN	NUMBER	15		Standard WHO column

## Main Columns of the CSI\_INSTANCE\_INTERFACE Table

Name	Datatype	Size	Mandatory	Comments
INST_INTERFACE_ID	NUMBER		Yes	Instance Interface ID

Name	Datatype	Size	Mandatory	Comments
SOURCE_SYSTEM_NAME	VARCHAR2	30	Yes	Source System Name from CSI_INTERFAC E_SOURCES
PARALLEL_WORKER_ID	NUMBER			Parallel Worker ID that is assigned to this Instance used when creating instances with the Parallel Worker Process Only.
REPLACE_FLAG	VARCHAR2	1		Flag which indicates if the item instance is replaced
TRANSACTION_IDENTIFIER	VARCHAR2	30		CSI Transaction identifier
SOURCE_TRANSACTION_DATE	DATE		Yes	Transaction Date that this Instance will be processed with the Open Interface.
SOURCE_TRANSACTION_TYPE	VARCHAR2	30		CSI Source transaction type
INSTANCE_ID	NUMBER			Unique ID that identifies an item unit instance
INSTANCE_NUMBER	VARCHAR2	30		Functional User Key for Item Instance
INSTANCE_DESCRIPTION	VARCHAR2	240		Description of the item instance

Name	Datatype	Size	Mandatory	Comments
EXTERNAL_REFERENCE	VARCHAR2	30		External reference given to item instance
PROCESS_STATUS	VARCHAR2	1	Yes	Process Status for Instance. Value Values are 'R' Ready, 'E' Error, 'P' Processed
BATCH_NAME	VARCHAR2	30		Open interface batch name
ERROR_TEXT	VARCHAR2	2000		Error text for any errors that are encountered while processing each row of data.
INVENTORY_ITEM_ID	NUMBER			Inventory Item ID for the instance
INV_CONCATENATED_SEGMENTS	VARCHAR2	250		Concatenated Segment for the instance
INVENTORY_REVISION	VARCHAR2	30		Inventory Revision for items that are revision controlled in Inventory
INV_VALID_ORGANIZATION_ID	NUMBER			Validation Organization ID that is used for Validating the Inventory Attributes

Name	Datatype	Size	Mandatory	Comments
INV_VLD_ORG ANIZATION_N AME	VARCHAR2	250		Validation Organization Name that is used for Validating the Inventory Attributes
SERIAL_NUMB ER	VARCHAR2	30		Serial Number for this Item Instance
MFG_SERIAL_N UMBER_FLAG	VARCHAR2	1		Manufacturer Serial Number Flag for this Instance. Valid values are Yes 'Y' or No 'N'. If this is set to Yes, Installed Base will validate the serial number against inventory otherwise it will not.
LOT_NUMBER	VARCHAR2	30		The Lot Number for the lot where this item will exist
QUANTITY	NUMBER			Instance Quantity
UNIT_OF_MEA SURE_CODE	VARCHAR2	3		Unit of Measure Code that will be used for this Instance (i.e. 'EA')

Name	Datatype	Size	Mandatory	Comments
UNIT_OF_MEASURE	VARCHAR2	30		Unit of measure that will be used for this Instance, for example, 'Each'
ACCOUNTING_CLASS_CODE	VARCHAR2	30		Accounting Class Code
INSTANCE_CONDITION_ID	NUMBER			Instance Condition ID
INSTANCE_CONDITION	VARCHAR2	30		Instance Condition Name
INSTANCE_STATUS_ID	NUMBER			Instance Status ID
INSTANCE_STATUS	VARCHAR2	30		Instance Status Name
CUSTOMER_VIEW_FLAG	VARCHAR2	1		Flag that indicates if this is as per a customer definition
MERCHANT_VIEW_FLAG	VARCHAR2	1		Flag that indicates if this is as per a merchant definition
SELLABLE_FLAG	VARCHAR2	1		Flag that indicates if this instance is sellable
SYSTEM_ID	NUMBER			System ID
SYSTEM_NUMBER	VARCHAR2	30		System Number

<b>Name</b>	<b>Datatype</b>	<b>Size</b>	<b>Mandatory</b>	<b>Comments</b>
INSTANCE_START_DATE	DATE			Active Start Date for this Instance
INSTANCE_END_DATE	DATE			Active End Date for this Instance
INSTANCE_TYPE_CODE	VARCHAR2	30		Instance Type Code
LOCATION_TYPE_CODE	VARCHAR2	30		Location Type Code
LOCATION_ID	NUMBER			Location ID
INV_ORGANIZATION_ID	NUMBER			Inventory Organization ID
INV_ORGANIZATION_CODE	VARCHAR2	30		Inventory Organization Code
INV_ORGANIZATION_NAME	VARCHAR2	250		Inventory Organization Name
INV_SUBINVENTORY_NAME	VARCHAR2	250		Inventory Subinventory Name
INV_LOCATOR_NUMBER	VARCHAR2	30		Inventory Locator Number
INV_LOCATOR_ID	NUMBER			Inventory Locator ID
PROJECT_ID	NUMBER			Project ID
PROJECT_NUMBER	VARCHAR2	30		Project Number
TASK_ID	NUMBER			Task ID

Name	Datatype	Size	Mandatory	Comments
TASK_NUMBER	VARCHAR2	30		Task Number
IN_TRANSIT_ORDER_LINE_ID	NUMBER			In Transit Order Line ID
IN_TRANSIT_ORDER_LINE_NUMBER	VARCHAR2	30		In Transit Order Line Number
WIP_JOB_ID	NUMBER			WIP Job ID
WIP_JOB_NAME	VARCHAR2	250		WIP Job Name
PO_ORDER_LINE_ID	NUMBER			Purchase Order Line ID
PO_ORDER_LINE_NUMBER	VARCHAR2	30		Purchase Order Line Number
OE_ORDER_LINE_ID	NUMBER			Order Line ID
OE_ORDER_LINE_NUMBER	VARCHAR2	30		Order Line Number
OE_RMA_LINE_ID	NUMBER			RMA Line Id
OE_RMA_LINE_NUMBER	VARCHAR2	30		RMA Line Number
PO_PO_LINE_ID	NUMBER			Purchase Order Line ID
PO_PO_LINE_NUMBER	VARCHAR2	30		Purchase Order Line Number
OE_PO_NUMBER	VARCHAR2	50		Order Entry PO Number

Name	Datatype	Size	Mandatory	Comments
OE_AGREEMENT_ID	NUMBER			Order Entry Agreement ID
INSTALL_LOCATION_TYPE_CODE	VARCHAR2	30		Install Location Type Code
INSTALL_LOCATION_ID	NUMBER			Install Location ID
INSTALL_DATE	DATE			Install Date
RETURN_BY_DATE	DATE			Return By Date
ACTUAL_RETURN_DATE	DATE			Actual Return Date
CONFIG_INSTANCE_HEADER_ID	NUMBER			Configured item instance header id
CONFIG_INSTANCE_REVISION_NUMBER	NUMBER			Configured item instance revision number
CONFIG_INSTANCE_COMPONENT_ITEM_ID	NUMBER			Configured item instance component item id
CONFIG_INSTANCE_STATUS	VARCHAR2	30		Configured item instance status
INSTANCE_ORG_UNIT_ID	NUMBER			Instance Organization Unit ID
OPERATING_UNIT_NAME	VARCHAR2	250		Operating Unit Name

Name	Datatype	Size	Mandatory	Comments
OPERATING_UNIT	NUMBER			Operating Unit Code
OU_RELATION_TYPE	VARCHAR2	30		Operating Unit Relationship Type
OU_START_DATE	DATE			Operating Unit Active Start Date
OU_END_DATE	DATE			Operating Unit Active End Date
INSTANCE_CONTEXT	VARCHAR2	30		Instance Flexfield Context
LAST_UPDATE_DATE	DATE		Y	Standard WHO column
LAST_UPDATE_BY	NUMBER	15	Y	Standard WHO column
CREATION_DATE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE_LOGIN	NUMBER	15		Standard WHO column

## Main Columns of the CSI\_I\_PARTY\_INTERFACE Table

Name	Datatype	Size	Mandatory	Comments
IP_INTERFACE_ID	NUMBER		Yes	Instance Party Interface ID

Name	Datatype	Size	Mandatory	Comments
INST_INTERFACE_ID	NUMBER		Yes	Instance Interface ID that will be used to link the rows in this table to its parent in CSI_INSTANCE_INTERFACE
PARALLEL_WORKER_ID	NUMBER			Parallel Worker ID that is assigned to this Instance used when creating instances with the Parallel Worker Process Only.
ERROR_TEXT	VARCHAR2	2000		Error text for any errors that are encountered while processing each row of data.
PARTY_ID	NUMBER			Party ID
PARTY_NUMBER	VARCHAR2	30		Party Number
INSTANCE_PARTY_ID	NUMBER			Instance Party ID
PARTY_NAME	VARCHAR2	250		Party Name
PARTY_SOURCE_TABLE	VARCHAR2	30		Party Source Table
PARTY_RELATIONSHIP_TYPE_CODE	VARCHAR2	30		Party Relationship Type Code

Name	Datatype	Size	Mandatory	Comments
PARTY_START_DATE	DATE			Party Active Start Date
PARTY_END_DATE	DATE			Party Active End Date
CONTACT_FLAG	VARCHAR2	1		Primary Contact Flag
CONTACT_IP_ID	NUMBER			Self Join Key to the Same Table (INSTANCE_PARTY_ID)
CONTACT_PARTY_NUMBER	VARCHAR2	30		Instance Party Contact Number
CONTACT_PARTY_NAME	VARCHAR2	250		Instance Party Contact Name
CONTACT_PARTY_ID	NUMBER			Instance Party Contact ID
CONTACT_PARTY_REL_TYPE	VARCHAR2	30		Instance Party Contact Relationship Type
PARTY_CONTEXT	VARCHAR2	30		Party Flexfield Context
IP_ACCOUNT1_ID	NUMBER			Instance Party Account Identifier
PARTY_ACCOUNT1_NUMBER	VARCHAR2	30		Party Account Number
PARTY_ACCOUNT1_ID	NUMBER			Party Account ID

Name	Datatype	Size	Mandatory	Comments
ACCT1_RELATIONSHIP_TYPE_CODE	VARCHAR2	30		Party Account Relationship Type Code
PARTY_ACCT1_START_DATE	DATE			Party Active Start Date
PARTY_ACCT1_END_DATE	DATE			Party Active End Date
BILL_TO_ADDRESS1	NUMBER			Bill to Address (HZ_CUST_SITE_USES_ALL. SITE_USE_ID)
SHIP_TO_ADDRESS1	NUMBER			Ship to Address (HZ_CUST_SITE_USES_ALL. SITE_USE_ID)
ACCOUNT1_CONTEXT	VARCHAR2	30		Party Account Flexfield Context
IP_ACCOUNT2_ID	NUMBER			Instance Party Account Identifier
PARTY_ACCOUNT2_NUMBER	VARCHAR2	30		Party Account Number
PARTY_ACCOUNT2_ID	NUMBER			Party Account ID
ACCT2_RELATIONSHIP_TYPE_CODE	VARCHAR2	30		Party Account Relationship Type Code
PARTY_ACCT2_START_DATE	DATE			Party Account Active Start Date
PARTY_ACCT2_END_DATE	DATE			Party Account Active End Date

Name	Datatype	Size	Mandatory	Comments
BILL_TO_ADDR ESS2	NUMBER			Bill to Address
SHIP_TO_ADD RESS2	NUMBER			Ship to Address
ACCOUNT2_C ONTEXT	VARCHAR2	30		Party Account Flexfield Context
IP_ACCOUNT3_ ID	NUMBER			Instance Party Account Identifier
PARTY_ACCOU NT3_NUMBER	VARCHAR2	30		Party Account Number
PARTY_ACCOU NT3_ID	NUMBER			Party Account ID
ACCT3_RELATI ONSHIP_TYPE_ CODE	VARCHAR2	30		Party Account Relationship Type Code
PARTY_ACCT3_ START_DATE	DATE			Party Account Active Start Date
PARTY_ACCT3_ END_DATE	DATE			Party Account Active End Date
BILL_TO_ADDR ESS3	NUMBER			Bill to Address
SHIP_TO_ADD RESS3	NUMBER			Ship to Address
ACCOUNT3_C ONTEXT	VARCHAR2	30		Party Account Flexfield Context
LAST_UPDATE _DATE	DATE		Y	Standard WHO column

Name	Datatype	Size	Mandatory	Comments
LAST_UPDATE_BY	NUMBER	15	Y	Standard WHO column
CREATION_DATE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE_LOGIN	NUMBER	15		Standard WHO column

## Main Columns of the CSI\_II\_RELATION\_INTERFACE Table

Name	Datatype	Size	Mandatory	Comments
REL_INTERFACE_ID	NUMBER		Yes	Relationship Interface ID
PARALLEL_WORKER_ID	NUMBER			Parallel Worker ID that is assigned to this Instance used when creating instances with the Parallel Worker Process Only.
SUBJECT_INTERFACE_ID	NUMBER			Subject Interface ID
OBJECT_INTERFACE_ID	NUMBER			Object Interface ID

Name	Datatype	Size	Mandatory	Comments
RELATIONSHIP _TYPE_CODE	VARCHAR2	30		Relationship Type Code of this Instance to Instance Relationship (i.e. CONNECTEDT O)
RELATIONSHIP _START_DATE	DATE			Active Start Date for the Instance to Instance Relationship.
RELATIONSHIP _END_DATE	DATE			Active End Date for the Instance to Instance Relationship.
POSITION_REF ERENCE	VARCHAR2	30		Position Reference of the Relationship
DISPLAY_ORDE R	NUMBER			Order in which the UI will display the relationships
MANDATORY_ FLAG	VARCHAR2	1		Mandatory relationship indicator
RELATIONSHIP _DIRECTION	VARCHAR2	30		Relationship direction
ERROR_TEXT	VARCHAR2	2000		Error text for any errors that are encountered while processing each row of data.
CONTEXT	VARCHAR2	30		Standard Oracle DFF context field

Name	Datatype	Size	Mandatory	Comments
LAST_UPDATE_DATE	DATE		Y	Standard WHO column
LAST_UPDATE_BY	NUMBER	15	Y	Standard WHO column
CREATION_DATE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE_LOGIN	NUMBER	15		Standard WHO column

### Main Columns of the CSI\_IEA\_VALUE\_INTERFACE Table

Name	Datatype	Size	Mandatory	Comments
IEAV_INTERFACE_ID	NUMBER		Yes	Extended Attribute Interface ID
INST_INTERFACE_ID	NUMBER		Yes	Instance Interface ID that will be used to link the rows in this table to its parent in CSI_INSTANCE_INTERFACE

Name	Datatype	Size	Mandatory	Comments
PARALLEL_WORKER_ID	NUMBER			Parallel Worker ID that is assigned to this Instance used when creating instances with the Parallel Worker Process Only.
ERROR_TEXT	VARCHAR2	2000		Error text for any errors that are encountered while processing each row of data.
ATTRIBUTE_ID	NUMBER			Extended Attribute ID
INV_CONCATENATED_SEGMENTS	VARCHAR2	250		Concatenated Segment for the instance you are interfacing
INVENTORY_ITEM_ID	NUMBER			Inventory Item Id for the instance you are interfacing
MASTER_ORGANIZATION_ID	NUMBER			Master Organization Id for the instance you are interfacing
MASTER_ORGANIZATION_NAME	VARCHAR2	250		Master Organization Name for the instance you are interfacing

Name	Datatype	Size	Mandatory	Comments
ITEM_CATEGORY_CONC_SEG	VARCHAR2	250		Instance Item Category for the Extended Attribute
ITEM_CATEGORY_ID	NUMBER			Instance Item Category ID for the Extended Attribute
ATTRIBUTE_CODE	VARCHAR2	30		Attribute Code which this Extended Attribute is defined
ATTRIBUTE_NAME	VARCHAR2	50		Attribute Name which this Extended Attribute is defined
ATTRIBUTE_LEVEL	VARCHAR2	15		Attribute Level which this Extended Attribute is defined
ATTRIBUTE_CATEGORY	VARCHAR2	30		Attribute Category which this Extended Attribute is defined
ATTRIBUTE_VALUE	VARCHAR2	240		Attribute Value which this Extended Attribute is defined

Name	Datatype	Size	Mandatory	Comments
ATTRIBUTE_VALUE_ID	NUMBER			Attribute Value ID which this Extended Attribute is defined
IEAV_START_DATE	DATE			Active Start Date for Interfaced Instance
IEAV_END_DATE	DATE			Active End Date for Interfaced Instance
LAST_UPDATE_DATE	DATE		Y	Standard WHO column
LAST_UPDATE_BY	NUMBER	15	Y	Standard WHO column
CREATION_DATE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE_LOGIN	NUMBER	15		Standard WHO column

## Main Columns of the CSI\_ASSET\_INTERFACE Table

Name	Datatype	Size	Mandatory	Comments
IA_INTERFACE_ID	NUMBER		Yes	Asset Interface ID

Name	Datatype	Size	Mandatory	Comments
INST_INTERFACE_ID	NUMBER		Yes	Instance Interface ID that will be used to link the rows in this table to its parent in CSI_INSTANCE_INTERFACE
PARALLEL_WORKER_ID	NUMBER			Parallel Worker ID that is assigned to this Instance used when creating instances with the Parallel Worker Process Only.
ERROR_TEXT	VARCHAR2	2000		Error text for any errors that are encountered while processing each row of data.
INSTANCE_ASSET_ID	NUMBER		Yes	Instance Asset Identifier
FA_ASSET_ID	NUMBER			Asset Identifier from Fixed Assets System
FA_BOOK_TYPE_CODE	VARCHAR2	15		Book Type Code from Fixed Assets
FA_LOCATION_ID	NUMBER		Yes	Location Identifier from Fixed Assets
ASSET_QUANTITY	NUMBER			Asset Quantity

Name	Datatype	Size	Mandatory	Comments
UPDATE_STAT US	VARCHAR2	30		Update Status
ACTIVE_START _DATE	DATE			Activation Start Date
ACTIVE_END_ DATE	DATE			Activation End Date
LAST_UPDATE _DATE	DATE		Y	Standard WHO column
LAST_UPDATE _BY	NUMBER	15	Y	Standard WHO column
CREATION_DA TE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE _LOGIN	NUMBER	15		Standard WHO column

## Main Columns of the CSI\_CTR\_READINGS\_INTERFACE Table

Name	Datatype	Size	Mandatory	Comments
COUNTER_INT ERFACE_ID	NUMBER		Y	Counter interface identifier
PARALLEL_WO RKER_ID	NUMBER			Parallel worker id
BATCH_NAME	VARCHAR2	30		Batch name
SOURCE_SYSTE M_NAME	VARCHAR2	30		Source system name

Name	Datatype	Size	Mandatory	Comments
SOURCE_TRANSACTION_DATE	DATE			Source transaction date
PROCESS_STATUS	VARCHAR2	1		Processing status
ERROR_TEXT	VARCHAR2	240		Error messages
COUNTER_VALUE_ID	NUMBER		Y	Counter reading identifier
COUNTER_ID	NUMBER		Y	Counter identifier
VALUE_TIMESTAMP	DATE		Y	Value timestamp
COUNTER_READING	NUMBER		Y	Counter reading
RESET_MODE	VARCHAR2	30		Reset mode
RESET_REASON	VARCHAR2	255		Reset reason description
ADJUSTMENT_TYPE	VARCHAR2	30		Adjustment type
ADJUSTMENT_READING	NUMBER			Adjustment reading
OBJECT_VERSION_NUMBER	NUMBER		Y	Object version number
ATTRIBUTE_CATEGORY	VARCHAR2	30		Standard DFF Column
COMMENTS	VARCHAR2	2000		Counter comments

Name	Datatype	Size	Mandatory	Comments
LIFE_TO_DATE_READING	NUMBER		Y	Life to date reading
SOURCE_TRANSACTION_TYPE_ID	NUMBER			Transaction type code where the reading was generated
SOURCE_TRANSACTION_ID	NUMBER			Transaction identifier
SOURCE_CODE	VARCHAR2	30		Source Code
SOURCE_LINE_ID	NUMBER			Source Line Identifier
COUNTER_NAME	VARCHAR2	30		Counter Name
READING_CHANGE	NUMBER			Reading Change Identifier
NET_READING	NUMBER		Y	Net reading
DISABLED_FLAG	VARCHAR2	1		Flag indicating if the counter reading is disabled
AUTOMATIC_ROLLOVER_FLAG	VARCHAR2	1		Automatic Rollover Flag
INCLUDE_TARGET_RESETS	VARCHAR2	1		Target Reset Flag
RESET_NET_READING	NUMBER		Y	Reset Net Reading
RESET_COUNTER_READING	NUMBER		Y	Reset Counter Reading

Name	Datatype	Size	Mandatory	Comments
RESET_LIFE_TO_DATE_READING	NUMBER		Y	Reset Life To Date Reading
LAST_UPDATE_DATE	DATE		Y	Standard WHO column
LAST_UPDATE_BY	NUMBER	15	Y	Standard WHO column
CREATION_DATE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE_LOGIN	NUMBER	15		Standard WHO column

## Main Columns of the CSI\_CTR\_READ\_PROP\_INTERFACE Table

Name	Datatype	Size	Mandatory	Comments
COUNTER_INTERFACE_ID	NUMBER		Y	Counter interface identifier
PARALLEL_WORKER_ID	NUMBER			Parallel worker identifier
ERROR_TEXT	VARCHAR2	240		Error messages
COUNTER_PROPERTY_VALUE_ID	NUMBER		Y	Counter property value identifier
COUNTER_READING_ID	NUMBER		Y	Counter reading identifier

Name	Datatype	Size	Mandatory	Comments
COUNTER_PROPERTY_ID	NUMBER		Y	Counter property identifier
PROPERTY_VALUE	VARCHAR2	240	Y	Property value
VALUE_TIMESTAMP	DATE		Y	Value timestamp
SEQ_NO	NUMBER		Y	Sequence number
OBJECT_VERSION_NUMBER	NUMBER		Y	Object version number
LAST_UPDATE_DATE	DATE		Y	Standard WHO column
LAST_UPDATE_BY	NUMBER	15	Y	Standard WHO column
CREATION_DATE	DATE		Y	Standard WHO column
CREATED_BY	NUMBER	15	Y	Standard WHO column
LAST_UPDATE_LOGIN	NUMBER	15		Standard WHO column
ATTRIBUTE_CATEGORY	VARCHAR2	30		Standard DFF Column

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