

Oracle® Complex Maintenance, Repair, and Overhaul

Implementation Guide

Release 11*i*

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Oracle Complex Maintenance, Repair, and Overhaul Implementation Guide, Release 11i

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Preface

Intended Audience

Welcome to Release 11i of the *Oracle Complex Maintenance, Repair, and Overhaul Implementation Guide*.

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

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Structure

- 1 Oracle Complex Maintenance, Repair, and Overhaul Overview
- 2 Setting Up

Related Documents

Do Not Use Database Tools to Modify Oracle Applications Data

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

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

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

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

Oracle Complex Maintenance, Repair, and Overhaul Overview

This chapter covers the following topics:

- Overview
- Overview of Oracle Complex Maintenance, Repair, and Overhaul
- Oracle CMRO Module Overview

Overview

Oracle Complex Maintenance, Repair, and Overhaul (CMRO) enables maintenance, repair and overhaul organizations that manage complex configurable and regulated equipment systems, to define, plan and execute every aspect of their maintenance operations such as configuration management, engineering, maintenance planning, and execution. It provides maintenance organizations with the tools required to increase asset turnover, improve response times, and increase service levels. Oracle CMRO is a fully integrated component of Oracle's 11i eBusiness suite.

This chapter includes the following topics:

- Overview of Oracle Complex Maintenance, Repair, and Overhaul, page 1-1
- Oracle CMRO Module Overview, page 1-3

Overview of Oracle Complex Maintenance, Repair, and Overhaul

Oracle Complex Maintenance, Repair, and Overhaul is designed to manage the entire business process of defining, planning and executing the maintenance of complex configurable and regulated equipment systems. Improved response times, increased service levels, and faster asset turnaround times are critical to maintaining successful long-term maintenance, repair, and overhaul (MRO) operations. Oracle CMRO offers features such as maintenance-based inventory management, reliability centered maintenance, a fully web-based architecture, and online access to repair documentation that enable maintenance organizations to maximize efficiency and save costs. By integrating every component of the maintenance, repair, and overhaul operation, Oracle CMRO provides complete real-time visibility across the entire operation.

Oracle CMRO enables organizations to do the following:

- Maintain complex configurations
- Effectively plan enterprise-wide operations

- Optimize maintenance execution
- Centrally manage all engineering data

Maintaining Complex Configurations

Organizations that build or maintain products with complex configurations need to track configuration history. Oracle CMRO enables you to establish master configurations. Requirements automatically flow to all units based on that master and the history is updated every time changes are made to the configuration. You can combine requirements with actual repair and usage results to provide unit-specific maintenance and configuration history. With this configuration control, you can easily track component history throughout the lifecycle. You can also classify units into smaller groups based on common attributes.

Effectively planning Enterprise-wide operations

Maintenance frequency and scope continually change based on usage, new regulatory requirements, and issues discovered during operation. Maintenance plans need to be updated periodically to ensure high asset reliability and safety. Oracle CMRO enables comprehensive fleet and unit-based maintenance planning and scheduling. You can establish Fleet maintenance programs to create maintenance requirements and to schedule maintenance activities. You can plan work across all locations to meet both short-term and long-term requirements. By long term planning, you can optimize capacity and resource utilization. Concurrently, you can make daily adjustments to respond to changes based on recent activities.

Optimizing Maintenance Execution

Oracle CMRO enables you to streamline the execution process and simplify processes such as creating work orders, deploying resources, and updating maintenance history and configurations. Basic maintenance tasks associated with job creation and job completion are automated to increase worker productivity and to minimize aircraft downtime. You can capture results to ensure regulatory compliance and to guarantee traceability. Maintenance history is updated as and when work is completed. You can enter new service requests and work orders based on additional findings during scheduled maintenance activities. Oracle CMRO enables component shipping to and from third party maintenance providers. You can also charge costs associated with maintenance activities throughout the repair cycle.

Centrally managing all Engineering data

Using Oracle CMRO, you can create, store, and manage data centrally. Oracle CMRO enables companies to leverage electronic storage and delivery of technical documentation for real-time access to accurate information and to ensure regulatory compliance. For example, you can capture quality information from all sources (suppliers, original equipment manufacturers, operators, third party maintenance providers) and store it in this single location to ensure traceability. Oracle CMRO provides for route management with reusable templates for individual operation instructions or a series of operations and an integrated document index. By automatically updating all related operations, these templates eliminate the need to perform system queries when route information is changed. Automating these processes eliminates costly manual labor, resulting in higher productivity and improved quality.

Oracle CMRO Module Overview

Oracle Complex Maintenance, Repair, and Overhaul enables organizations to streamline maintenance operations, meet the demands for transport and service, and improve profitability. Oracle CMRO comprises the following ten modules:

Route Management

Using Route Management, you can maintain work cards in electronic form, so that they are easily accessible. You can use these work cards to provide technicians with task instructions and information on labor estimates, skill requirements, tools, parts, and materials required by the job. You can also remove redundant tasks and processes by storing each task card once in the database and then reusing it in multiple operations.

Document Index

Using Document Index, you can maintain references to paper documentation and include links that technicians can use to access electronic documents, either in the database or on the Web. You can keep all document references under version control to simplify compliance with regulations. You can also link document references to part types or individual serialized parts to eliminate searches, maintain lists of suppliers, and automatically alert everyone on a distribution list when new documents or revisions arrive.

Fleet Maintenance Program

You can use CMRO's Fleet Maintenance Program to create maintenance requirements for all planned and unplanned maintenance. You can associate work cards and maintenance documents with maintenance requirements and define effectivity by associating these maintenance requirements with a Master Configuration, Unit Configuration or a Product Classification. To forecast maintenance due dates, you can designate intervals and thresholds on maintenance requirements. The Affected Items Listing enables maintenance personnel to view all units affected by a maintenance requirement.

Master Configuration

Using Master Configuration, you can record the *as designed* configuration of the equipment that is maintained. This enables you to easily navigate through the hierarchy, specify which parts can be used in the assembly, and provide technicians with permissible part choices for each location. To enable technicians to easily access the information that they need, you can link documents to part positions and work cards. Master configurations can be used as templates for creating unit configurations.

Unit Configuration

You can use Unit Configuration to track the current *as operated* configuration of the equipment and to maintain the life cycle service history of the system and all the component parts, while considering the special conditions that affect service life measurements. To enable easy access to information, you can record the positions in the assembly where serialized parts are located and associate documents with them.

Product Classification

The Product Classification module enables you to classify units into various groups for maintenance activities and associate documentation and maintenance requirements to these product classifications. The maintenance plans are automatically updated when units move from one group into another.

Unit Maintenance Plan

The Unit Maintenance Plan module enables you to maintain utilization forecasts, determine the remaining service time of units, and calculate due dates for maintenance requirements. Material requirements associated with the forecasted maintenance requirements are planned through Oracle Demand Planning application.

Visit Work Package

The Visit Work Package module enables you to create equipment-based maintenance visit definitions that connect equipment with a block of tasks, location and date. You can manage maintenance requirements, calculate costs incurred on a visit using the visit task work breakdown structure, and define job hierarchy for all tasks in a visit.

Long Term Planning

The Long Term Planning module enables you to assess the maintenance workload capacity for all facilities and define a maintenance visit's resource requirements. You can schedule maintenance visits across the organization based on resource and facility availability, and compare resource capacities with resources required for the projected workload. Material requirements associated with the maintenance requirements in a visit are scheduled through Oracle's Advanced Supply Chain Planning application.

Production

The Production module enables you to view job assignments, component and material availability; record maintenance activities, job completion, material and component consumption; and update maintenance compliance details. To satisfy regulatory requirements, quality inspection results can be issued. You can initiate new service requests for unplanned maintenance discovered during planned maintenance visits.

The Production module enables you to track all time and materials associated with jobs throughout the repair cycle and interfaced to Oracle Costing, to provide maintenance organizations with a real view into service costs.

Production Planning

The Production Planning module offers maintenance organizations an extensive site-level planning tool. Production planners managing shop floor activities assign personnel and equipment to jobs, fine tune work schedules, manage procurement and create material requirements for unplanned maintenance. Using Production planning, you can track components sent out for repair against the maintenance visit. Planners and shop floor managers consider working conditions when planning thereby ensuring a safe working environment.

Outside Processing

Using Outside Processing (OSP) you can ship serialized parts to Independent Service Organizations for service. Production planners assign jobs to third-party providers and group jobs that are marked for outside servicing onto an Outside Processing Work Order. The work order contains all the information required for executing the required service. When the OSP Work Order is finalized, purchase orders and shipping orders are created. After the work is completed, jobs are reassigned to internal personnel for quality checks and parts receiving.

Overview

This chapter discusses setting up Oracle Complex Maintenance, Repair and Overhaul (CMRO). It includes the following topics:

- Getting Started, page 2-1
- Oracle CMRO Implementation Checklist, page 2-1
- Setting Up Oracle CMRO, page 2-5
- Setting Up Other Related Oracle Applications, page 2-5
- CMRO Specific Setups, page 2-78

Getting Started

Before setting up CMRO, you must identify all your implementation users, and the access privileges they require. You can create additional implementation responsibilities if you want to restrict access.

You must use the System Administrator responsibility to create the required Oracle Applications user(s). Implementation users need access to one or more of the following responsibilities:

- System Administrator
- AHL Super User
- Foundation Administrator
- Support Administrator

Use the Users window to define Oracle Applications users. Oracle Application user is uniquely identified by an application user name.

For detailed instructions on creating application users, refer to *Oracle Applications System Administrator's Guide*.

Oracle CMRO Implementation Checklist

The following tables comprise a checklist of all the steps you need to follow to implement Oracle Complex Maintenance, Repair & Overhaul. They include setup steps for data that is shared with other Oracle Applications, but is required by Oracle CMRO.

You must set up other related Oracle applications prior to setting up CMRO.

Setting Up an Organization, page 2-6

Description	Reference
Step 1 - Set Up an Operating Unit	<i>Release 11i Multi-Org Today; An Oracle White Paper, December 2001</i>
Step 2 - Create an Organization	
Step 3 - Set Up an Inventory Organization	<i>Oracle Human Resources User's Guide</i>

Setting Up Oracle Inventory, page 2-27

Description	Reference
Step 1 - Set Up Master Items	<i>Oracle Inventory User's Guide</i>
Step 2 - Set Up Subinventory	

Setting Up Oracle Bills of Material (BOM), page 2-44

Description	Reference
Step 1 - Set Up Departments and Resources	<i>Oracle Bills of Material User's Guide</i>

Setting Up Oracle Warehouse Management, page 2-47

Description	Reference
Step 1 - Associate Departments with Subinventories	<i>Oracle Warehouse Management User's Guide</i>
Step 2 - Set Up Material Status	
Step 3 - Associate Material Status with Subinventories	
Step 4 - Set up Profile Options	

Setting Up Oracle Purchasing, page 2-51

Description	Reference
Step 1 - Set Up Buyers	<i>Oracle Purchasing User's Guide</i>
Step 2 - Set Up Approvals	
Step 3 - Set Up Purchasing Options	
Step 4 - Set Up Receiving Options	
Step 5 - Set Up Financial Options	
Step 6 - Set Up Open Accounting Periods	

Setting Up Oracle Advanced Planning and Scheduling, page 2-54

Description	Reference
Step 1 - Setting up Oracle Advanced Supply Chain Planning	<i>Oracle Advanced Planning Implementation and User's Guide</i>
Step 2 - Setting up Oracle Demand Planning	<i>Oracle Demand Planning Implementation and User's Guide</i>
Step 3 - Setting up Available to Promise	<i>Oracle Global Order Promising Implementation and User's Guide</i>

Setting Up Oracle Order Management, page 2-56

Description	Reference
Step 1 - Set Up Security Processing Constraints	<i>Oracle Order Management User's Guide</i>
Step 2 - Set Up Customers	<i>Oracle Shipping Execution User's Guide</i>

Setting Up Oracle Project, page 2-57

Description	Reference
Step 1 - Create Project Template	<i>Oracle Projects User's Guide</i>
Step 2 - Assign Project Template Name to User Profile	

Setting Up Oracle Enterprise Asset Management, page 2-59

Description	Reference
Step 1 - Set Up WIP Accounting Classes	<i>Oracle Enterprise Asset Management User's Guide</i>
Step 2 - Set Up EAM Parameters	
Step 3 - Set Up Asset Category Code	
Step 4 - Verify WIP_EAM_Activity_Priority Lookup	

Setting Up Oracle Service, page 2-62

Description	Reference
Step 1 - Define Service Request Status	<i>Oracle Customer Support Implementation Guide</i>
Step 2 - Define Service Request Type	
Step 3 - Define Service Request Severities	
Step 4 - Set Up Profile Options	

Setting Up Oracle Contracts, page 2-66

Description	Reference
Step 1 - Set Up Buyer	<i>Oracle Contracts Core Concepts and Procedures Guide</i>
Step 2 - Set Up Supplier	
Step 3 - Set Up Standard Articles	
Step 4 - Set Up Categories and Sources	
Step 5 - Set Up Contract Groups	
Step 6 - Set Up Contract Events	

Setting Up Oracle Install Base, page 2-69

Description	Reference
Step 1 - Set Up Install Parameters	<i>Oracle Install Base Implementation Guide</i>
Step 2 - Set Up Instance Statuses	
Step 3 - Set Up Asset Locations	

Setting Up Oracle Counters, page 2-70

Description	Reference
Step 1 - Define Counter Groups	<i>Oracle Service Implementation Guide</i>

Setting Up Oracle Quality, page 2-71

Description	Reference
Step 1 - Set Up Route and Operation Quality Plans	<i>Oracle Quality User's Guide</i>
Step 2 - Set Up Deferral, MRB Disposition Quality, Non-Routine Job Inspection and Non-Routine Operation Inspection Plans	
Step 3 - Create Counter Readings Quality Plan	

Setting Up Oracle Content Manager, page 2-77

Description	Reference
Step 1 - Setting up Interface Tables	-

Oracle Complex Maintenance, Repair, and Overhaul Standard Setup, page 2-78

Description	Reference
Step 1 - Set Up Profile Options	-

Oracle CMRO Approval Workflow Setup, page 2-84

Description	Reference
Step 1 - Set Up Profile Options	-
Step 2 - Create Approval User(s) and Role	

Oracle CMRO Module Setup, page 2-94

Description	Reference
Step 1 - Set Up Document Index	
Step 2 - Set Up Route Management	
Step 3 - Set Up Master Configuration	
Step 4 - Set Up Unit Configuration	
Step 5 - Set Up Fleet Maintenance Program	
Step 6 - Set Up Unit Maintenance Plan	
Step 7 - Set Up Visit Work Package	
Step 8 - Set Up Long Term Planning	
Step 9 - Set Up Production	
Step 10 - Administrative Setup	

Setting Up Oracle CMRO

Setting Up Oracle CMRO includes the following sections:

- Setting Up Other Related Oracle Applications, page 2-5
- CMRO Specific Setups, page 2-78

Setting Up Other Related Oracle Applications

Oracle CMRO is integrated with other applications that are part of the Oracle E-Business suite. This integration lends additional functionality to Oracle CMRO and enables it to fully support the maintenance, repair and overhaul needs of Operators, Third Party Maintainers, and Original Equipment Manufacturers. You must first set up an Organization and then install and implement the related Oracle applications or components.

This section covers the following topics:

- Setting Up an Organization, page 2-6
- Setting Up Oracle Inventory, page 2-27

- Setting Up Oracle Bills of Material (BOM), page 2-44
- Setting Up Oracle Warehouse Management, page 2-47
- Setting Up Oracle Purchasing, page 2-51
- Setting Up Oracle Order Management, page 2-56
- Setting Up Oracle Project, page 2-57
- Setting Up Oracle Enterprise Asset Management, page 2-59
- Setting Up Oracle Service, page 2-62
- Setting Up Oracle Contracts, page 2-66
- Setting Up Oracle Install Base, page 2-69
- Setting Up Oracle Counters, page 2-70
- Setting Up Oracle Quality, page 2-71
- Setting Up Oracle Content Manager, page 2-77

Setting Up an Organization

In general, an organization can be a company, department, division, cost center, or virtually any other organizational unit within a business. Organization Setup includes the following steps:

- Setting Up an Operating Unit, page 2-6
- Creating an Organization, page 2-7
- Setting Up an Inventory Organization, page 2-8

Setting Up an Operating Unit

An Operating Unit is the organization unit, through which you create, process, report on, and secure financial applications data.

To set up an Operating Unit, you must:

1. Develop an organization structure.
2. Define Set of Books.
3. Define locations.
4. Define Business Groups (optional).
5. Associate responsibilities with Business Group (optional).
6. Define Organizations.
7. Define Organization Relationships.
8. Define Responsibilities.
9. Set MO: Operating Unit profile option.
10. Convert to Multiorg Architecture (required only if current set up is not multiorg enabled).
11. Verify Order Management System parameters.
12. Set Profile Options specific to Operating Unit.

13. Define Inventory Organization security (optional).
14. Implement the application products.

Creating an Organization

To create an organization:

1. Select the Manufacturing and Distribution Manager responsibility. From the Navigator, select Inventory > Setup > Organizations > Organizations. The Find Organization window appears.
2. Select New (A).
3. Enter an organization Name.
4. Select the following values from the Organization Classification list of values:
 - Business Group
 - HR Organization
 - GRE/Legal Entity
 - MRP Organization
 - Operating Unit
 - Project Expenditure
 - Project Manufacturing Organization
 - Project Task Owning Organization

Organization

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Organization

Name Type

Dates

From To

Location Internal or External

Location Address

Internal Address

Organization Classifications

Name	Enabled
<input type="text" value="MRP Organization"/>	<input checked="" type="checkbox"/>
<input type="text" value="GRE / Legal Entity"/>	<input checked="" type="checkbox"/>
<input type="text" value="HR Organization"/>	<input checked="" type="checkbox"/>

Record: 2/? <OSC>

5. Select the Enable check box for all the above parameters.
6. Save your work.

Organization Classifications

Business Group: The purpose of the Business Group is to partition human resource information. The Business Group is the highest level in an organization structure hierarchy in the E-Business Suite. You can use the Business Group to model the consolidated enterprise or a major division of a company that is an employer.

HR Organization: The HR Organization classification is applied to the organizations to which the user assigns employees.

Government Reporting Entities (GRE): The GRE in the Oracle Human Resources products is the same organization as the Legal Entity that appears in the Oracle Financial products. The GRE represents the real-world legal entity that pays employees, withholds their taxes, and provides reports on various matters concerning them to government agencies.

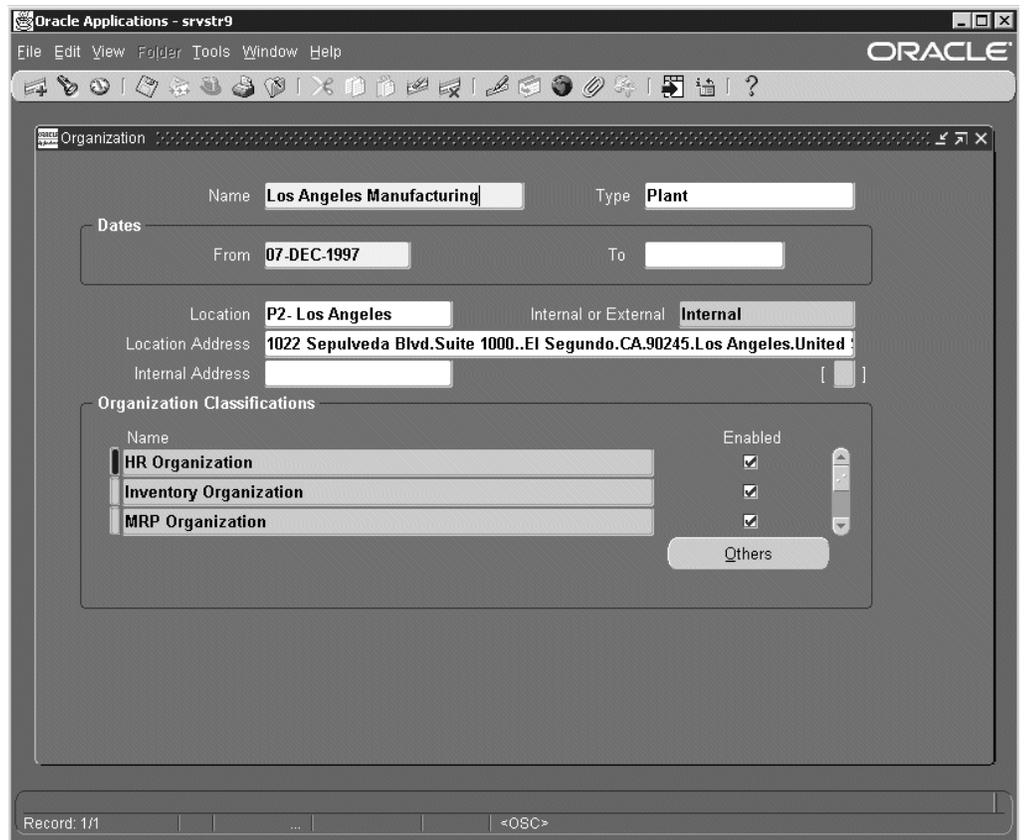
Setting Up an Inventory Organization

The Inventory Organization is an organization for which you track inventory transactions and balances.

To set up an Inventory Organization:

1. From the Navigator, select Inventory > Setup > Organizations > Organizations. The Find Organization window appears.
2. Select New(A). The Organization window appears.
3. Enter an organization name in the Name field.
4. Within the Organization Classification block, select the following values from the Name list of values (LOV):
 - HR Organization
 - Inventory
 - MRP
 - Project Expenditure
 - Project Manufacturing Organization
 - Project Task Owning Organization
 - WIP Organization

Organization Window



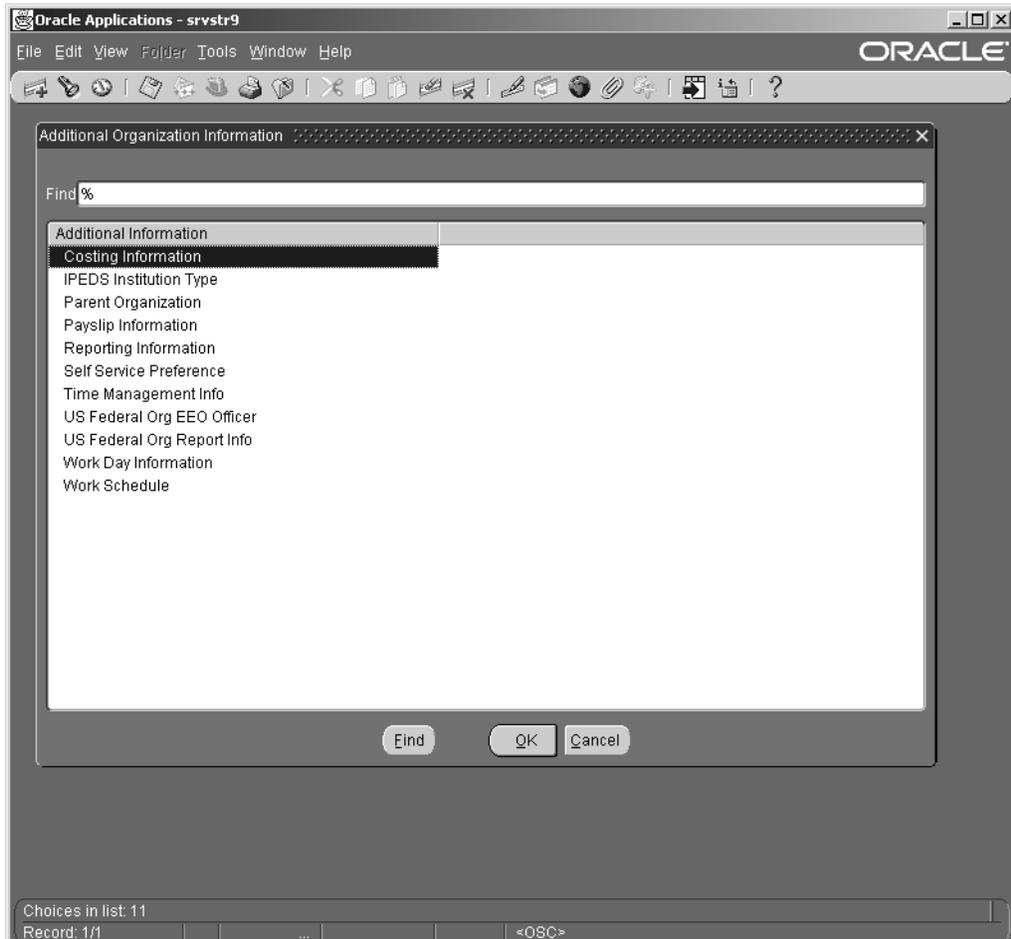
5. Select the Enable check box for each of the above mentioned classification.
6. Save your work.

7. As indicated below, set up the parameters for each of the above mentioned Organization Classifications.

To set up HR Organization parameters:

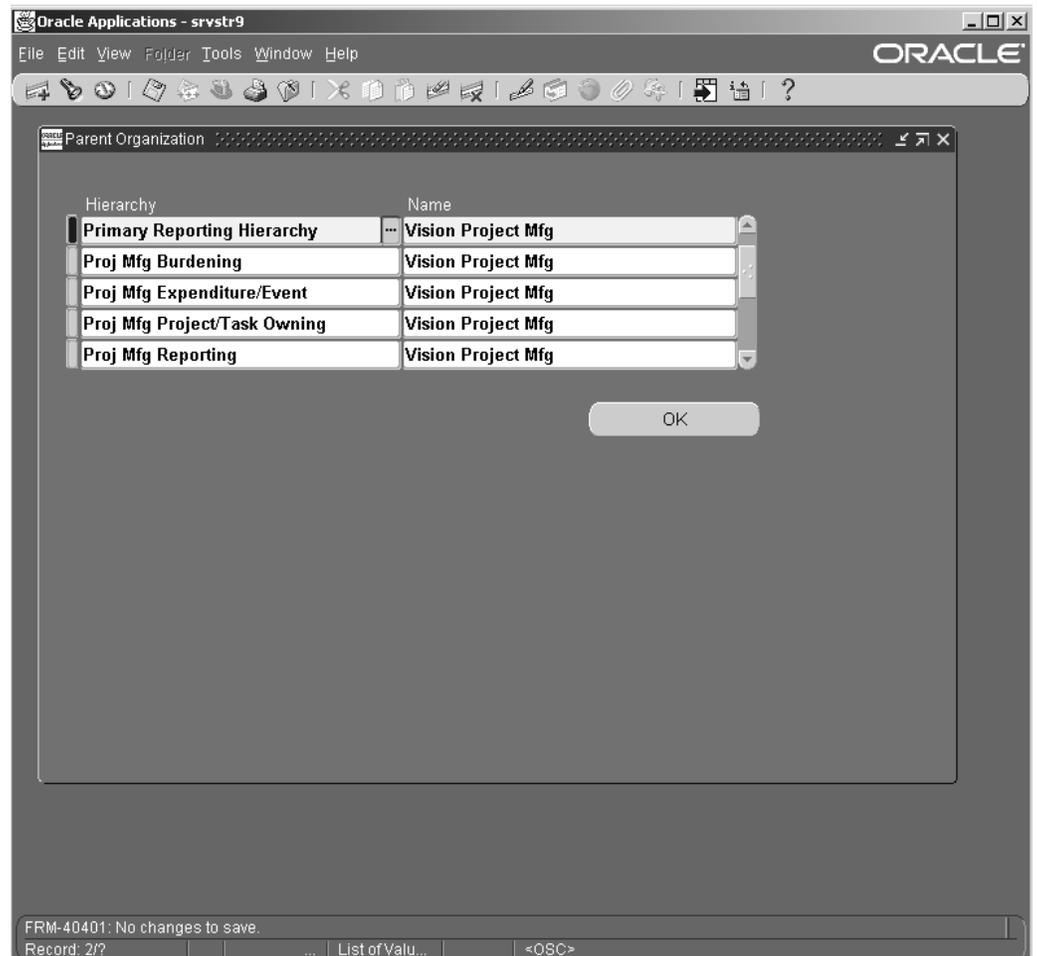
1. In the Organizations window, select HR Organization. Click the Others button. The Additional Organization Information window appears.

Additional Organization Information Window



2. Select Costing Information from the list. Enter a value in the Costing Information field.
3. Save your work.
4. Navigate to the Additional Organization Information window and choose Parent Organization from the list of values. Select Primary Reporting Hierarchy from the Hierarchy LOV.
5. From the Name LOV, select the organization that you have defined and enabled as a Business Group.
6. Save your work.

Parent Organization Window



To set up Inventory Organization parameters:

1. Select Inventory Organization in the Organizations window. Click the Others button. Choose Accounting Information from the list of values.
2. Click in the Accounting Information field. The Accounting Information descriptive flexfields window opens.
3. Select the Set of Books, Legal entity and Operating Unit from their corresponding list of values. Click OK.
4. Save your work.

Accounting Information Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Accounting Information

Set of Books Vision Project Mfg (MRC)

Legal Entity

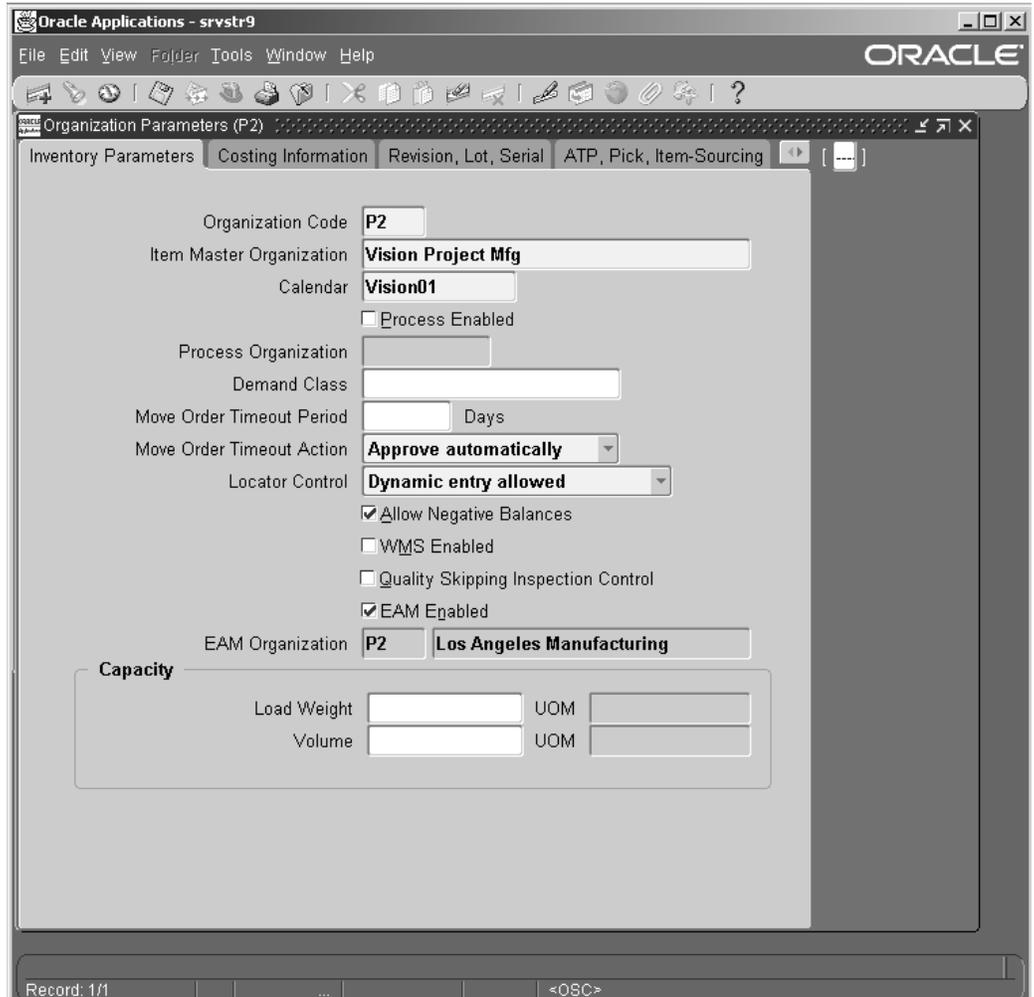
Operating Unit

OK Cancel Clear Help

Record: 1/1 <OSC>

5. Navigate to the Additional Organization Information window and select Inventory Information from the list. The Organization Parameters window opens.
6. Select the Inventory Parameters tab. Enter an Organization Code.
7. Select the Item Master Organization and Calendar from their corresponding list of values.
8. Select the EAM Enabled check box.
9. Save your work.

Organization Parameters Window - Inventory Parameters



10. Select the Revision, Lot, Serial parameters tab. Enter the following information:

Field	Value
Lot Control Uniqueness	None
Lot Control Generation	At Organization Level
Serial Control Uniqueness	Within Inventory Items
Serial Control Generation	At Item Level

Organization Parameters Window - Revision, Lot, Serial Parameters

The screenshot shows the Oracle Applications window titled "Organization Parameters (P2)". The window has a menu bar (File, Edit, View, Folder, Tools, Window, Help) and a toolbar. The main content area is divided into tabs: "Inventory Parameters", "Costing Information", "Revision, Lot, Serial", "ATP, Pick, Item-Sourcing", and a help icon. The "Revision, Lot, Serial" tab is active. The window contains two main sections: "Lot Control" and "Serial Control".

Lot Control

- Starting Revision:
- Uniqueness:
- Generation:
- Zero Pad Suffix
- Prefix:
- Total Length:

Serial Control

- Uniqueness:
- Generation:
- Prefix:
- Starting Serial Number:
- Allocate Serial Numbers

At the bottom of the window, there is a status bar showing "Record: 1/1" and a "<OSC>" button.

11. Save your work.
12. Select the Costing Tab. Select Average Costing from the Costing Method list of values.
13. Select the Enable Project Cost Collection check box.
14. Enter the required information in the Valuable Accounts block.
15. Save your work.

Organization Parameters Window - Costing Parameters

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

Organization Parameters (P2)

Inventory Parameters Costing Information Revision, Lot, Serial ATP, Pick, Item-Sourcing

Costing Organization: **Los Angeles Manufacturing**

Costing Method: **Average**

Rates Cost Type: **AvgRates**

Transfer to GL: **Summary**

Reverse Encumbrance

Project Cost Collect. Enabled

Cost Cutoff Date: []

Default Material Sub-Element: **Material**

Default Material Overhead Sub-Element: []

Default Cost Group: **Common**

Valuation Accounts

Material	101.1020.000.140500.0000.000
Outside Processing	101.1020.000.142500.0000.000
Material Overhead	101.1020.000.141000.0000.000
Overhead	101.1020.000.142000.0000.000
Resource	101.1020.000.141500.0000.000
Expense	101.1020.000.712000.0000.000

Record: 1/1 <OSC>

16. Click the ATP, Pick, Item-Sourcing parameters tab. Select an ATP Defaults Rule from the Rule LOV.
17. Save your work.

Organization Parameters Window - ATP, Pick, Item-Sourcing Parameters

The screenshot shows the Oracle Applications interface for the 'Organization Parameters (P2)' window. The window title is 'Oracle Applications - srvstr9'. The menu bar includes 'File', 'Edit', 'View', 'Folder', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for navigation and editing. The main content area is divided into several sections:

- ATP Defaults:** A 'Rule' dropdown menu is set to 'Total ATP, No DC'.
- Picking Defaults:** A 'Rule' dropdown menu is set to 'RevSub'. Below it are 'Subinventory Order' and 'Locator Order' text boxes, and a checkbox for 'Pick Confirmation Required' which is currently unchecked.
- Item-Sourcing Detail:** A 'Type' dropdown menu is set to 'Supplier'. Below it are 'Organization' and 'Subinventory' text boxes.
- Distributed Parameters:** Two checkboxes are present: 'Distributed Organization' and 'Carrier Manifesting Organization', both of which are unchecked.

At the bottom of the window, a status bar displays the message: 'FRM-40400: Transaction complete: 1 records applied and saved.' Below this, there is a 'Record: 1/1' indicator and a '<OSC>' button.

To set up MRP Organization parameters:

1. In the Organization window, select MRP Organization. Click the Others button.
2. The Planning Parameters window opens. Select the Net WIP and Net Reservation check box.
3. Save your work.

Planning Parameters Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Planning Parameters

Snapshot Lock Tables

Default ABC Assignment Group

Execution Defaults

Demand Time Fence Control

Planning Time Fence Control

Plan Safety Stock

Net WIP

Net Purchases

Net Reservations

Material Scheduling Method **Order start date**

Planned Items **All planned items**

Include MDS Days

Repetitive Planning Parameters

Use **Calendar dates**

Anchor Date **19-FEB-2004**

First Bucket Days **7**

First Horizon **35**

Second Bucket Days **14**

Second Horizon **56**

Third Bucket Days **40**

Record: 1/1

<OSC>

To set up Work in Process (WIP) Organization parameters:

1. Select WIP Organization in the Organization window. Click the Others button.
2. Click the Backflush Defaults tab. Select Supply subinventory from the LOV. Enter a Supply Locator (if required).

Work In Process Parameters Window - Backflush Defaults Tab

The screenshot shows the Oracle Applications interface for the 'Work In Process Parameters' window, specifically the 'Backflush Defaults' tab. The window title is 'Oracle Applications - srvstr9'. The menu bar includes 'File', 'Edit', 'View', 'Folder', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for navigation and editing. The main content area has several tabs: 'Discrete', 'Costing', 'Move Transaction', 'Backflush Defaults' (selected), 'Intraoperation', 'Outside Processing', and 'Scheduling'. The 'Backflush Defaults' tab contains the following fields and options:

- Supply Subinventory: Stores
- Supply Locator: 1.1.1..
- Lot Selection Method: Expiration Date
- Lot Verification: Exceptions Only
- Release Backflush Components

At the bottom of the window, there is a status bar showing 'Record: 1/1' and a '<OSC>' button.

3. Select the Move Transaction tab. Check the Allow Creation of New Operations and the Allow Moves Over No Move Shop Floor Statuses check boxes.

Work In Process Parameters Window - Move Transaction Tab



4. Select the Intra-operation tab. Enable the Queue Check Box. Disable other check boxes.
5. Save your work.

Work In Process Parameters Window - Intraoperation Tab



6. From the Navigator, select WIP > Setup > WIP Accounting Class.
7. Enter a Class and Description.
8. Select Standard Discrete from the Type drop-down list. Enter Accounts information.
9. Save your work.

WIP Accounting Classes Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help ORACLE

WIP Accounting Classes (P2)

Class: **Discrete**

Description: **Discrete Job WIP Accounting Class**

Type: **Standard Discrete**

Inactive On: []

Accounts	Valuation	Variance
Material	101.1020.000.144000.0000.000	101.1020.500.531101.0000.000
Material Overhead	101.1020.000.144500.0000.000	
Resource	101.1020.000.145000.0000.000	101.1020.500.532101.0000.000
Outside Processing	101.1020.000.146000.0000.000	101.1020.500.531107.0000.000
Overhead	101.1020.000.145500.0000.000	101.1020.500.532104.0000.000
Standard Cost		
Bridging		
Expense		101.1020.500.534105.0000.000
Estimated Scrap		

Costing

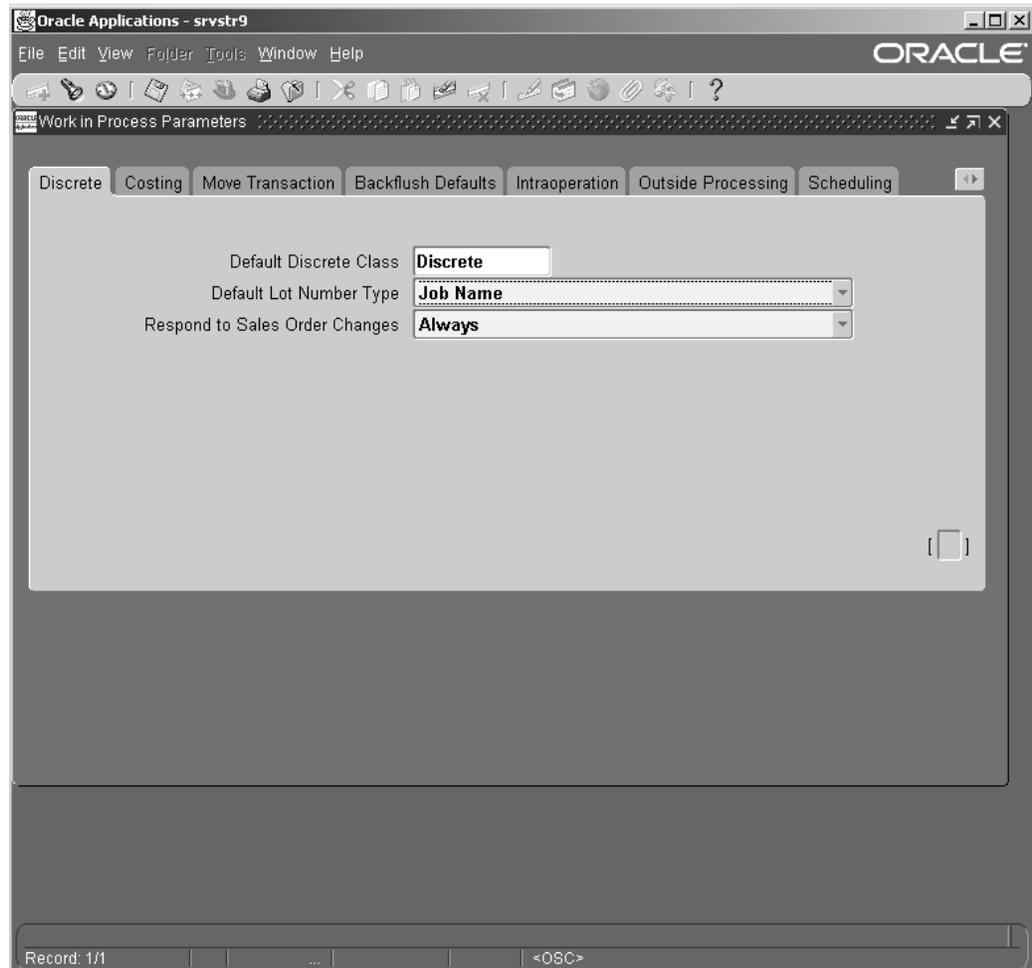
Completion Cost Source: **System Calculated** System Option: **Use Actual Resources**

Cost Type: []

Record: 1/1 <OSC>

10. Similarly, create Expense Non-Standard, Maintenance, and Asset Non-Standard Accounting Classes. For more information about setting up Accounting classes, see the *Oracle Work in Process User's Guide*.
11. Save your work.
12. From the Navigator, select Inventory >Setup > Organizations > Organizations.Query for your Organization.
13. Select WIP Organization within the Organization Classifications block. Click the Others button.The Work in Process parameters window appears.
14. Select the Discrete tab. Choose a default Discrete Class from the Default Discrete Class list of values.
15. Save your work.

Work in Process Parameters Window - Discrete Tab



To set up Project Manufacturing parameters:

1. In the Organizations window, select Project Manufacturing Organization. Click the Others button. The Project Manufacturing Parameters window opens.
2. Select the General tab. Check the Enable Project Reference check box.
3. Select Task from the Project Control Level drop-down list.

Project Manufacturing Parameters Window - General Tab

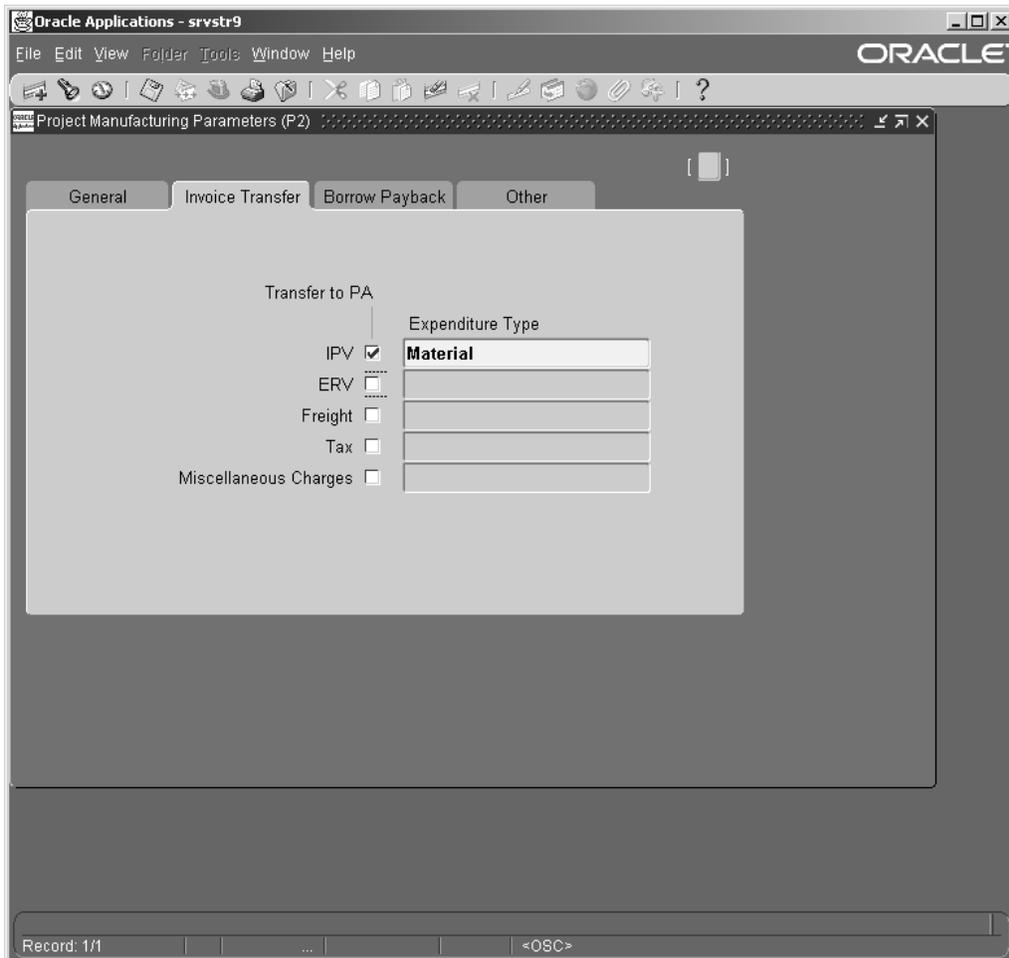
The screenshot shows the Oracle Applications Project Manufacturing Parameters (P2) window. The window title is "Oracle Applications - srvstr9" and the menu bar includes "File", "Edit", "View", "Folder", "Tools", "Window", and "Help". The toolbar contains various icons for navigation and actions. The main content area has four tabs: "General", "Invoice Transfer", "Borrow Payback", and "Other". The "General" tab is selected. Inside the "General" tab, there are several options and fields:

- Enable Project References
- Allow Cross Project Issues
- Allow Cross Unit Number Issues
- Project Control Level:
- Common Project:
- Default Common Project Tasks**
 - Material:
 - Resource:
 - WIP Material:

At the bottom of the window, there is a status bar showing "Record: 1/1" and "<OSC>".

4. Click the Invoice Transfer tab. Check the IPV check box to enable IPV.
5. Select Material from the Expenditure Type LOV.
6. Save your work.

Project Manufacturing Parameters Window - Invoice Transfer Tab



To set up Project Task Owning Organization parameters:

1. In the Organizations window, select Project Task Owning Organization. Click the Others button. The Additional Organization Information window opens.
2. Click in the Project Type Class Information field. In the Project Type Class Information sub-window that opens, select Yes for all the following parameters:
 - Allow Entry of Indirect Projects
 - Allow Entry of Capital Projects
 - Allow Entry of Contract Projects
3. Click Ok. Save your work.

Project Type Class Information Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Project Type Class Information

Allow Entry Of Indirect Projects **Yes**

Allow Entry Of Capital Projects **Yes**

Allow Entry Of Contract Projects **Yes**

OK Cancel Clear Help

Record: 1/1 ... <OSC>

To set up Project Expenditure/Event Organization parameters:

1. In the Organizations window, select Project Expenditure/Event Organization. Click the Others button.
2. Click in the Exp Org Defaults field. The Exp Org Defaults sub-window appears.
3. Enter or select an Operating Unit (the same as the item master Organization).
4. Save your work.

Exp Org Defaults Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

Exp Org Defaults

Operating Unit

Default Calendar

OK Cancel Clear Help

Record: 1/1 ... <OSC>

Additional Setup

From the Navigator, select Inventory > Accounting Close Cycle > Inventory Accounting Periods.

Select an Inventory Accounting Period and change status to Open.

Save your work.

Inventory Accounting Periods Window

Status	Period	Num	Year	From	To	Close Date
Future	DEC-03	12	2003	24-NOV-2003	31-DEC-2003	
Future	NOV-03	11	2003	27-OCT-2003	23-NOV-2003	
Future	OCT-03	10	2003	29-SEP-2003	26-OCT-2003	
Open	SEP-03	9	2003	25-AUG-2003	28-SEP-2003	
Open	AUG-03	8	2003	28-JUL-2003	24-AUG-2003	
Open	JUL-03	7	2003	30-JUN-2003	27-JUL-2003	
Open	JUN-03	6	2003	26-MAY-2003	29-JUN-2003	
Open	MAY-03	5	2003	28-APR-2003	25-MAY-2003	
Open	APR-03	4	2003	31-MAR-2003	27-APR-2003	
Open	MAR-03	3	2003	24-FEB-2003	30-MAR-2003	

See Also:

Release 11i Multi-Org Today; An Oracle White Paper, December 2001

Setting Up Oracle Inventory

In Oracle CMRO, you use instances of Oracle Inventory when defining the allowable parts in a master configuration, and when describing the components in a unit configuration. Oracle CMRO invokes Oracle Inventory methods to populate the database with information on allowable components in a configuration, and the components actually available to create a unit configuration. The Production module uses predefined inventory items as reference when invoking the inventory methods that issue and return parts, or when defining the material requirements for an organization job. The route management module uses the predefined inventory items as material and tool requirements used to perform a route or an operation.

Setting up Oracle Inventory includes the following steps:

- Creating Component Items
- Creating Service Items

- Setting Up Subinventory

For every Inventory Organization, you must define Items and set up at least one subinventory. Cost group and Locator should have been setup prior to setting up subinventory.

To create Component Items

1. Select the Manufacturing and Distribution Manager responsibility. From the Navigator, select Inventory > Items > Master Items.

Note: All items must be set up at the Master Inventory Organization Level and then assigned to specific Inventory Organizations. Oracle recommends that you define an Item Template for each type of item that will be used in your organization.

2. Enter a name in the Item field.
3. Enter a description in the Description field.
4. Click the Main tab. Select Active from the Item Status drop-down menu.

Master Item Window - Main Tab

The screenshot shows the 'Master Item Window - Main Tab' interface. At the top, there are fields for Organization (PM), Item (AS20001), and Description (Aircraft Engine Assembly). To the right, there is a 'Display Attributes' section with radio buttons for Master, Org, and All. Below these fields is a horizontal tab bar with options: Main, Inventory, Bills..., Asset..., Costing, Purch..., Recei..., Physi..., Gener..., MPS/M..., and Lead... The 'Main' tab is selected. The main content area is divided into several sections: 'Unit of Measure' with dropdowns for Primary (Each), Tracking (Primary), Pricing (Primary), Secondary, and Defaulting; 'Conversions' with radio buttons for Standard, Item specific, and Both (selected); 'Deviation Factor +' and 'Deviation Factor -' both set to 0; 'User Item Type' set to 'Finished good'; and 'Item Status' set to 'Active'. At the bottom, there is a 'Long Description' text area.

5. Click the Inventory tab. Select the following check boxes:
 - Inventory Item
 - Stockable
 - Reservable

- Transactable
6. For Lot and Lot Expiration, select No control from the Control drop-down menu.
 7. Select Serial Control: At receipt (if the items are serial number trackable; otherwise set it to non-serialized) from the Serial Generation drop-down menu.
 8. Select No Control from the Locator Control drop-down menu.

Master Item Window - Inventory Tab

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization **PM** Vision Project Mfg

Item **AS20001**

Description **Aircraft Engine Assembly** [...]

Display Attributes
 Master Org All

Main Inventory Bills of Material Asset Management Costing Purchasing Receiving Physical Attributes

Inventory Item Stockable Transactable
 Revision Control (D) Reservable (G) Check Material Shortage

Lot Expiration (Shelf Life)

Control **No Control**

Shelf Life Days **0**

Cycle Count Enabled
 Negative Measurement Error
 Positive Measurement Error

Lot

Control **No Control**

Starting Prefix
 Starting Number

Serial

Generation **At Receipt**

Starting Prefix
 Starting Number

Locator Control **No Control** Restrict Subinventories Restrict Locators (J)

Record: 1/1 ... <OSC>

9. Click the Bills of Material tab. Select the BOM Allowed check box.

Master Item Window - Bills of Material Tab

The screenshot shows the Oracle Applications Master Item window for item AS20001. The window title is "Oracle Applications - srstr9" and the window name is "Master Item (PM)". The organization is "PM Vision Project Mfg" and the item is "AS20001". The description is "Aircraft Engine Assembly". The "Display Attributes" section has radio buttons for "Master", "Org", and "All", with "Master" selected. The "Bills of Material" tab is active, showing a "BOM Allowed" checkbox checked. The "BOM Item Type" is set to "Standard". The "Base Model" field is empty. The "Effectivity Control" is set to "Date". The "Configurator Model Type" is set to "Standard". The status bar at the bottom shows "Record: 1/1" and "<OSC>".

10. Click the Asset Management tab. Select Rebuildable from the Asset Item Type drop-down menu.

Master Item Window - Asset Management Tab

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization **PM** Vision Project Mfg

Item **AS20001**

Description **Aircraft Engine Assembly** [...]

Display Attributes

Master Org All

Main Inventory Bills of Material **Asset Management** Costing Purchasing Receiving Physical Attributes

Asset Item Type **Rebuildable**

Asset Activity Properties

Activity Type

Activity Cause

Activity Source

Shutdown Type

Activity Notification Required

Record: 1/1 ... <OSC>

Note: You can select a value in the Asset Item Type field only if Oracle Enterprise Asset Management(eAM) set up is complete. Set up at least one item with Asset Group of Rebuildable in eAM.

11. Click the Costing tab. Select the following check boxes:
 - Costing Enabled
 - Inventory Asset Value
 - Include in Rollup
12. Enter value for Cost of Goods Sold Account.

Master Item Window - Costing Tab

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization **PM** Vision Project Mfg

Item **AS20001**

Description **Aircraft Engine Assembly** [...]

Display Attributes

Master Org All

Main Inventory Bills of Material Asset Management Costing Purchasing Receiving Physical Attributes

Costing Enabled (E)

Inventory Asset Value (X)

Include In Rollup (Z)

Cost of Goods Sold Account **101.1020.510.511000.0000.000**

Standard Lot Size

Record: 1/1 <OSC>

13. Click the Purchasing tab. Select the following check boxes:

- Purchased
- Purchasable
- Allow Description Update

14. Under Invoice Matching, set Receipt Required to No.

Master Item Window - Purchasing Tab

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization: PM Vision Project Mfg

Item: AS20001

Description: Aircraft Engine Assembly

Display Attributes: Master Org All

Main Inventory Bills of Material Asset Management Costing Purchasing Receiving Physical Attributes

Purchased Purchasable Use Approved Supplier

Allow Description Update RFQ Required: No

Outside Processing Item Taxable: No

Unit Type: [] Tax Code: []

Invoice Matching: Receipt Required: No, Inspection Required: []

Default Buyer: [] Unit of Issue: []

Receipt Close Tolerance: [] % Invoice Close Tolerance: [] %

UN Number: [] Hazard Class: []

List Price: 0 Market Price: 0

Price Tolerance: 0 % Rounding Factor: []

Encumbrance Account: []

Expense Account: 101.0000.740.711000.0000.000

Asset Category: []

Record: 1/1 <OSC>

15. Click the Physical Attributes tab.

Note: When you enter values for Weight, Volume, and Dimensions, you must select the Container check box to ensure that the shipment flow works properly.

16. Click the General Planning tab. Select Min-Max from the Inventory Planning Method drop-down menu.

Master Item Window - General Planning Tab

Oracle Applications - srvrstr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization **PM** Vision Project Mfg

Item **AS20001**

Description **Aircraft Engine Assembly**

Display Attributes
 Master Org All

Purchasing Receiving Physical Attributes **General Planning** MPS/MRP Planning Lead Times Work In Process

Inventory Planning Method **Min-Max** Planner

Make or Buy **Make**

Min-Max Quantity
Minimum
Maximum

Order Quantity
Minimum
Maximum

Cost
Order
Carrying %

Source
Type
Organization
Subinventory

Safety Stock
Method **Non-MRP Planned**
Bucket Days
Percent

Fixed Order Quantity Fixed Days Supply Fixed Lot Multiplier

Record: 1/1 ... <OSC>

17. Click the MSP/MRP Planning tab. Select MRP Planning from the Planning Method drop-down menu.
18. Select Hard Pegging from the Pegging drop-down menu.

Master Item Window - MSP/MRP Planning Tab

Oracle Applications - srystr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization **PM** Vision Project Mfg

Item **AS20001**

Description **Aircraft Engine Assembly**

Display Attributes

Master Org All

Purchasing Receiving Physical Attributes General Planning **MPS/MRP Planning** Lead Times Work In Process

Planning Method **MRP planning** Exception Set

Forecast Control Shrinkage Rate

Pegging **Hard Pegging** Acceptable Early Days

Round Order Quantities Planned Inventory Point Create Supply

Repetitive Planning

Overrun %

Acceptable Rate + **0**

Acceptable Rate - **0**

MPS Planning

Calculate ATP

Reduce MPS

Planning Time Fence **User-Defined** Days **1**

Demand Time Fence Days

Release Time Fence Days

Substitution Window Days

Record: 1/1 <OSC>

19. Click the Order Management tab. Select the following check boxes:

- Customer Ordered
- Internal Ordered
- Customer Orders Enabled
- Internal Orders Enabled
- Shippable
- OE Transactable
- Returnable

Master Item Window - Order Management Tab

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization **PM** Vision Project Mfg

Item **AS20001**

Description **Aircraft Engine Assembly**

Display Attributes
 Master Org All

MPS/MRP Planning Lead Times Work In Process **Order Management** Invoicing Service Web Option

Customer Ordered
 Internal Ordered
 Pick Components
 Assemble to Order
 Ship Model Complete (K)

Customer Orders Enabled
 Internal Orders Enabled (G)
Check ATP **None**
ATP Rule
ATP Components **None**
Picking Rule
Default Shipping Organization **Los Angeles Manufacturing**
Default SO Source Type **Internal**
Shipping Subinventory

Shippable
 OE Transactable (J)

Returnable (Q)
 RMA Inspection Required (X)
 Financing Allowed

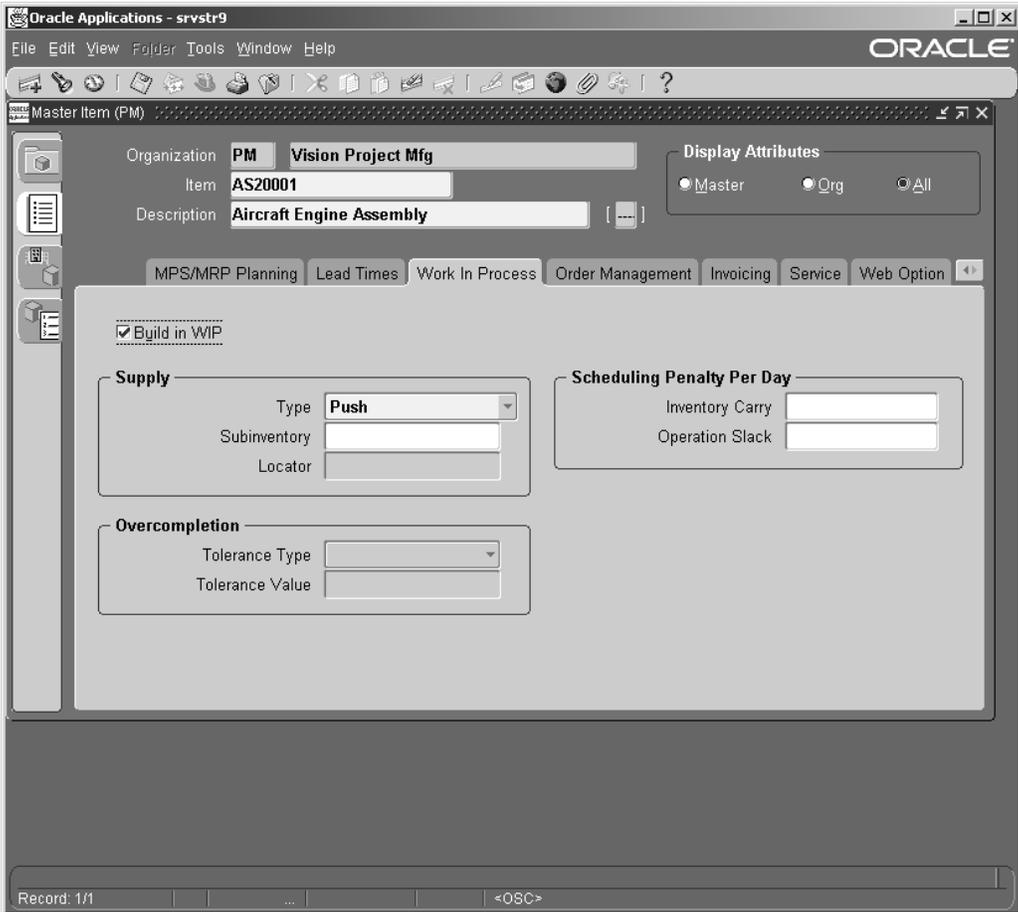
Tolerances
Over Shipment Over Return
Under Shipment Under Return

Record: 1/1 <OSC>

20. Click the Work in Process tab. Select the Build in WIP check box.

21. Select Supply Type of Push from the Supply Type drop-down menu.

Master Item Window - Work in Process Tab



22. Click the Invoicing tab. Select the Invoiceable Item and Invoice Enabled check boxes.

Master Item Window - Invoicing Tab

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Master Item (PM)

Organization **PM** Vision Project Mfg

Item **AS20001**

Description **Aircraft Engine Assembly**

Display Attributes

Master Org All

MPS/MRP Planning Lead Times Work In Process Order Management **Invoicing** Service Web Option

Invoiceable Item (Y)

Invoice Enabled (Z)

Accounting Rule

Invoicing Rule **Advance Invoice**

Tax Code

Sales Account **101.1010.740.411000.0000.000**

Payment Terms

Record: 1/1 <OSC>

23. Click the Service tab. Select the Serviceable Product and Install Base Tracking check boxes.
24. Save your work.

To set up Service Items

1. Set up Service Items with attributes as described below.

Attribute	Value
Item Status	Active
Inventory Item	Disabled
Stockable	Disabled
Reservable	Disabled
Purchased	Enabled
Purchasable	Enabled
Description Update	Enabled
Receipt Required	Yes
OSP	Disabled

Master Item - Purchasing Tab

2. Save your work.

To set up Subinventory

1. From the Navigator, select Inventory > Setup > Organization > Subinventories. The Subinventories window appears.

2. Define the Stores, MRB, and Consumable subinventories.

Note: Cost group and locators must be set up before defining subinventories.
3. To define the **Stores** subinventory, type Stores in the Name field.
4. Select Active from the Status list of values.
5. Select the following check boxes:
 - Quantity Tracked
 - Asset Subinventory
 - Include in ATP
 - Allow Reservation
 - Nettable

Subinventories Window (Stores Subinventory)

The screenshot shows the Oracle Applications interface for defining a subinventory. The window title is "Oracle Applications - 11.5.9 Service Suite Maintenance Env - SRVMNTR9". The main window is titled "Subinventories (P2)".

Fields and values shown:

- Name: Stores
- Description: Stores Inventory
- Status: Active
- Default Cost Group: Common

Parameters section:

- Quantity Tracked
- Asset Subinventory
- Depreciable
- Include in ATP
- Allow Reservation
- Nettable
- Enable Cartonization
- Locator Control: None
- Default Locator Status: [Empty]
- Picking Order: 2
- Dropping Order: [Empty]
- Inactive On: [Empty]
- Notify: [Empty]
- Location: [Empty]
- Picking UOM: [Empty]

Lead Times section:

- Pre-Processing: [Empty]
- Processing: [Empty]
- Post-Processing: [Empty]

Sourcing section:

- Type: [Empty]
- Organization: [Empty]
- Subinventory: [Empty]

Buttons: Item / Subinventory, Locators

Record: 1/1

6. Select the Accounts tab and enter appropriate accounting values.

Subinventories Window - Accounts Tab

Account Type	Balance
Material	101.1020.000.140500.0000.000
Outside Processing	101.1020.000.142500.0000.000
Material Overhead	101.1020.000.141000.0000.000
Overhead	101.1020.000.142000.0000.000
Resource	101.1020.000.141500.0000.000
Expense	101.1020.000.712000.0000.000
Encumbrance	

7. Save your work.
8. Click the New icon to create a new subinventory. Type MRB in the Name field. Select Active from the Status list of values.

Note: The status must be set to MRB Review. You must install Oracle Warehouse Management (WMS) to use this status. You can set the status to Active initially, install Warehouse Management, create additional Transaction Types in WMS and then change subinventory status to 'MRB Review'.

9. Select the following check boxes:
 - Quantity Tracked
 - Asset Subinventory
 - Allow Reservation

Subinventories Window (MRB Subinventory)

The screenshot shows the Oracle Applications interface for the Subinventories window. The window title is "Oracle Applications - srvstr9". The menu bar includes "File", "Edit", "View", "Folder", "Tools", "Window", and "Help". The toolbar contains various icons for navigation and actions. The main content area is titled "Subinventories (P2)" and contains the following fields and sections:

- Name:** MRB
- Description:** Material Review Board
- Status:** MRB
- Default Cost Group:** Common

There are two tabs: "Main" and "Accounts". The "Main" tab is active and contains the following sections:

- Parameters:**
 - Quantity Tracked
 - Asset Subinventory
 - Depreciable
 - Include in ATP
 - Allow Reservation
 - Nettable
 - Enable Cartonization
 - Locator Control: None (dropdown)
 - Default Locator Status: (text field)
 - Picking Order: 4 (text field)
 - Dropping Order: (text field)
 - Inactive On: (text field)
 - Notify: (text field)
 - Location: (text field)
 - Picking UOM: (text field)
- Lead Times:**
 - Pre-Processing: (text field)
 - Processing: (text field)
 - Post-Processing: (text field)
- Sourcing:**
 - Type: (dropdown)
 - Organization: (text field)
 - Subinventory: (text field)

At the bottom of the window, there are two buttons: "Item / Subinventory" and "Locators". A status bar at the very bottom displays the message: "FRM-40400: Transaction complete: 1 records applied and saved." and "Record: 1/1".

10. Select the Accounts tab and enter appropriate values. Save your work.
11. Click the New icon to create a new subinventory. Type Consumable in the Name field. Select Active from the Status list of values.
12. Select the Quantity Tracked check box. Disable all other attributes.

Subinventories Window (Consumable Subinventory)

The screenshot shows the Oracle Applications interface for the Subinventories window. The window title is "Oracle Applications - 11.5.9 Service Suite Maintenance Env - SRVMNTR9". The menu bar includes File, Edit, View, Folder, Tools, Window, and Help. The toolbar contains various icons for navigation and actions. The main content area is divided into several sections:

- Name:** Consumable
- Description:** Consumable Inventory
- Status:** Active
- Default Cost Group:** Common

There are two tabs: "Main" and "Accounts". The "Accounts" tab is selected, showing the following sections:

- Parameters:**
 - Quantity Tracked
 - Asset Subinventory
 - Depreciable
 - Include in ATP
 - Allow Reservation
 - Nettable
 - Enable Cartonization
 - Locator Control: None
 - Default Locator Status: [Empty]
 - Picking Order: 4
 - Dropping Order: [Empty]
 - Inactive On: [Empty]
 - Notify: [Empty]
 - Location: [Empty]
 - Picking UOM: [Empty]
- Lead Times:**
 - Pre-Processing: [Empty]
 - Processing: [Empty]
 - Post-Processing: [Empty]
- Sourcing:**
 - Type: [Empty]
 - Organization: [Empty]
 - Subinventory: [Empty]

At the bottom of the window, there are two buttons: "Item / Subinventory" and "Locators". A status bar at the very bottom displays the message: "FRM-40400: Transaction complete: 1 records applied and saved." and "Record: 1/1".

13. Select the Accounts tab and enter appropriate accounting values. Save your work.
14. Define a new subinventory by clicking the New icon. Type Scrap in the Name field. Select Unserviceable from the Status list of values. Select the Quantity Tracked check box. Disable all other attributes.

Subinventories Window (Scrap Subinventory)

The screenshot shows the Oracle Applications interface for the Subinventories window. The window title is "Oracle Applications - srvrstr9". The menu bar includes File, Edit, View, Folder, Tools, Window, and Help. The toolbar contains various icons for navigation and actions. The main content area is titled "Subinventories (P2)" and contains the following fields and sections:

- Name:** Scrap
- Description:** (empty text field)
- Status:** Un-Serviceable
- Default Cost Group:** Common

Below these fields are two tabs: "Main" and "Accounts". The "Main" tab is active and contains the following sections:

- Parameters:**
 - Quantity Tracked
 - Asset Subinventory
 - Depreciable
 - Include in ATP
 - Allow Reservation
 - Nettable
 - Enable Cartonization
 - Locator Control: None (dropdown)
 - Default Locator Status: (text field)
 - Picking Order: (text field)
 - Dropping Order: (text field)
 - Inactive On: (text field)
 - Notify: (text field)
 - Location: (text field)
 - Picking UOM: (text field)
- Lead Times:**
 - Pre-Processing: (text field)
 - Processing: (text field)
 - Post-Processing: (text field)
- Sourcing:**
 - Type: (dropdown)
 - Organization: (text field)
 - Subinventory: (text field)

At the bottom of the window, there are two buttons: "Item / Subinventory" and "Locators". The status bar at the very bottom displays the message: "FRM-40400: Transaction complete: 1 records applied and saved." and "Record: 1/1".

15. Select the Accounts tab and enter appropriate accounting values. Save your work.

See Also:

Oracle Inventory User's Guide

Setting Up Oracle Bills of Material (BOM)

Oracle CMRO uses the resources and departments that are set up in Oracle Bills of Material as the basis for the production job resource requirements.

Before setting up Oracle Bills of Material, you must ensure that:

- Calendars and Exception templates are set up
- Employees have been set up

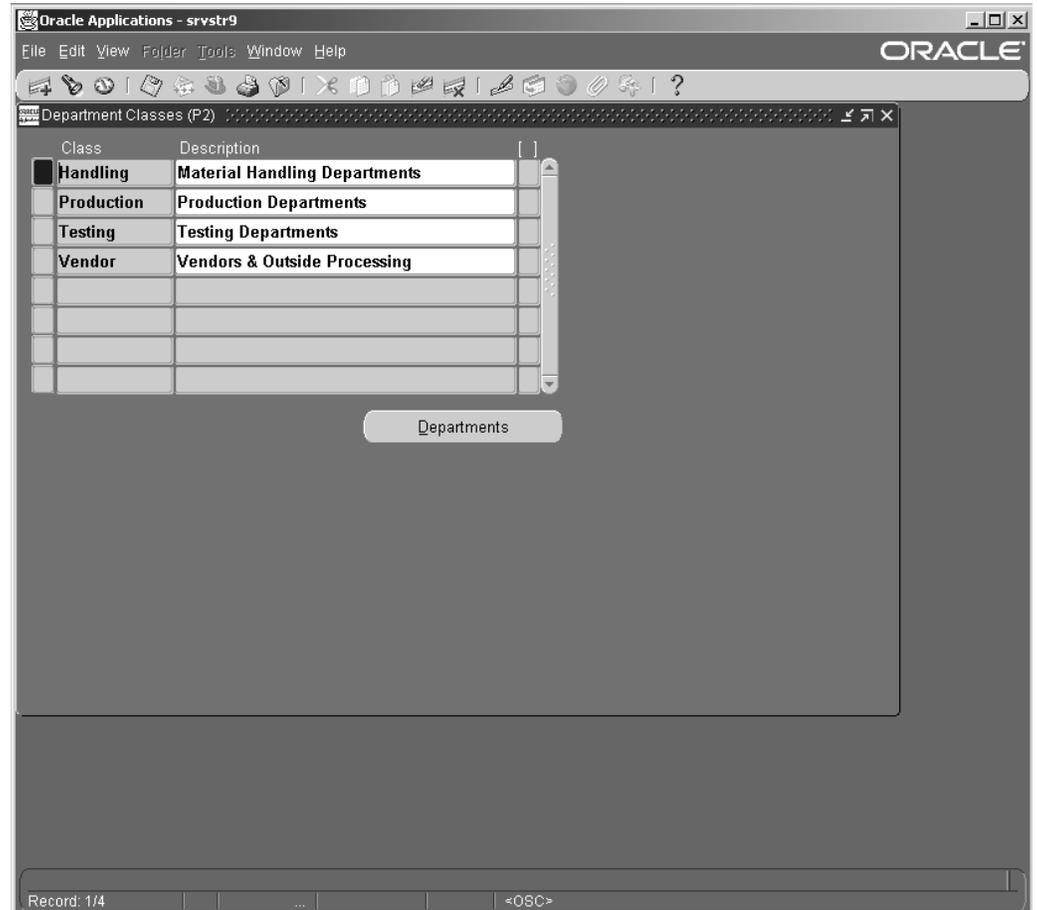
Setting up Oracle Bills of Material includes setting up departments and resources.

To set up Departments and Resources:

1. Select the Manufacturing and Distribution Manager responsibility. From the Navigator, select Bills of Material > Setup > Department Classes

2. Set up Department Classes. For Outside Processing purposes you must set up at least one Department Class called Vendor.

Department Classes Window



3. To set up a department, navigate to Bills of Material > Routings > Department. The Departments window appears.
4. Set up at least one Department that will be associated with the department class Vendor (case sensitive). It is recommended that you set up a Department that the users can easily identify as an outside department, for example, Outside Service (OSV).
5. Associate all Departments with a location.

Departments Window

The screenshot shows the Oracle Applications 'Departments Window' interface. The window title is 'Oracle Applications - srvstr9'. The menu bar includes 'File', 'Edit', 'View', 'Fajdar', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for navigation and editing. The main form area is titled 'Departments (P2)' and contains the following fields:

Department	Outside	
Description	Outside Processing	
Cost Category		
Class	Vendor	Vendors & Outside Processing
Location	P2- Los Angele	Los Angeles Mfg site used in PROJMFG SoB
Project Expenditure Org	Los Angeles Manufact	
Inactive On		[]

At the bottom of the form area, there are two buttons: 'Rates' and 'Resurces'.

The status bar at the bottom of the window shows 'Record: 1/1' and '<OSC>'.

6. Set up Resources and associate with Employees. To set up resources navigate to Routings > Resources.
7. Define a resource of type Machine.

Resources Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

Resources (P2)

Resource: Mach-Mill Inactive On: []

Description: Milling Machine

Type: Machine UOM: HR

Charge Type: WIP Move Basis: Item

Expenditure Type: Machine Usage

Outside Processing

Item: []

Costed

Activity: Move Standard Rate

Absorption Account: 101.1020.500.776000.0000.000

Variance Account: 101.1020.500.532102.0000.000

Overheads Rates

Billing

Item: []

Skills

Competence: []

Skill Level: []

Qualification: []

Batchable

Minimum Batch Capacity: []

Maximum Batch Capacity: []

Batch Capacity UOM: []

Batching Window: []

UOM: []

Employees Equipment Setups

Record: 1/1 ... <OSC>

Note: In the item master you must check 'Equipment' flag (Physical attributes) to see valid values.

8. Set up Standard Operations.
9. Save your work

Note: You must set up Departments and Resources at the operating unit, as well as at the Inventory Organization level. Routes are set up at the operating unit level. Visits (Visit Work Package - CMRO) are set at the Inventory Organization level.

See Also:

Oracle Bills of Material User's Guide

Setting Up Oracle Warehouse Management

Oracle Warehouse Management provides maintenance organizations, the functionality to control their inventory by status/condition and associate subinventories with a department. Before setting up Oracle Warehouse Management, you must ensure that:

- Oracle Inventory setup is complete
- Supply subinventories are setup
- Departments have been set up in Oracle BOM

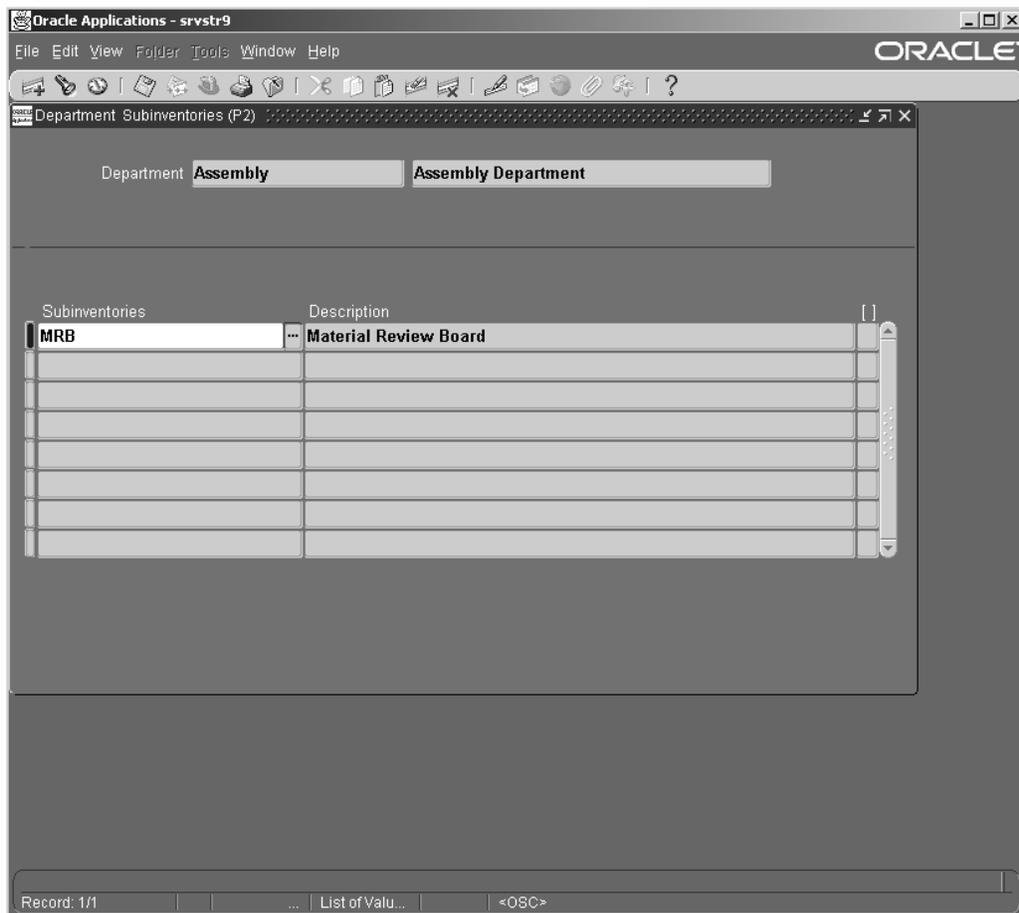
Setting up Oracle Warehouse Management includes:

- Associating departments with subinventories
- Defining Material status
- Associating material status with subinventories
- Setting up Profile Options

To associate departments with subinventories:

1. Change responsibility to Warehouse Management Super User. From the Navigator, select Setup > Warehouse Configuration > Resources > Associate Departments & Subinventories. The Department Subinventories window appears.
2. Select a department from the Department list of values and associate it with a Subinventory.
3. Save your work.

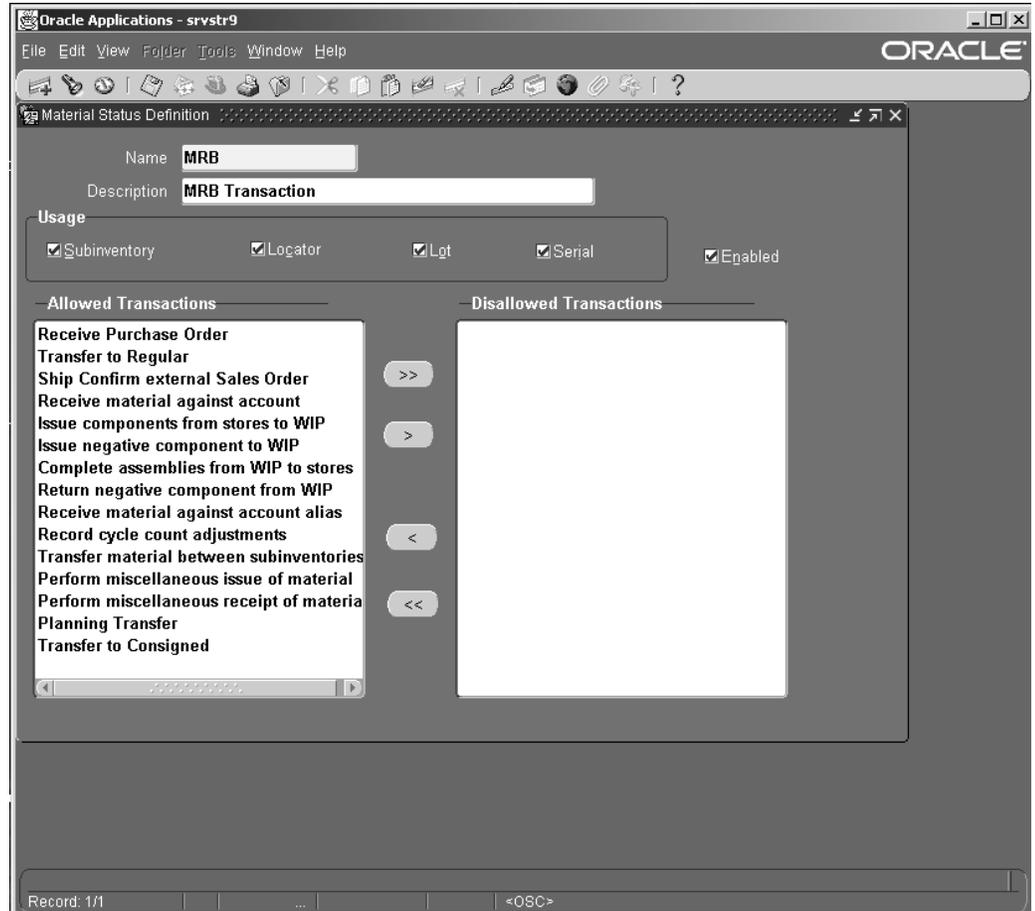
Department Subinventories Window



To set up Material Status:

1. Navigate to Setup > Transaction Setup > Inventory Transactions > Material Status. The Material Status Definition window appears.
2. Set up the following statuses:
 - MRB
 - Unserviceable
 - Serviceable

Material Status Definition Window

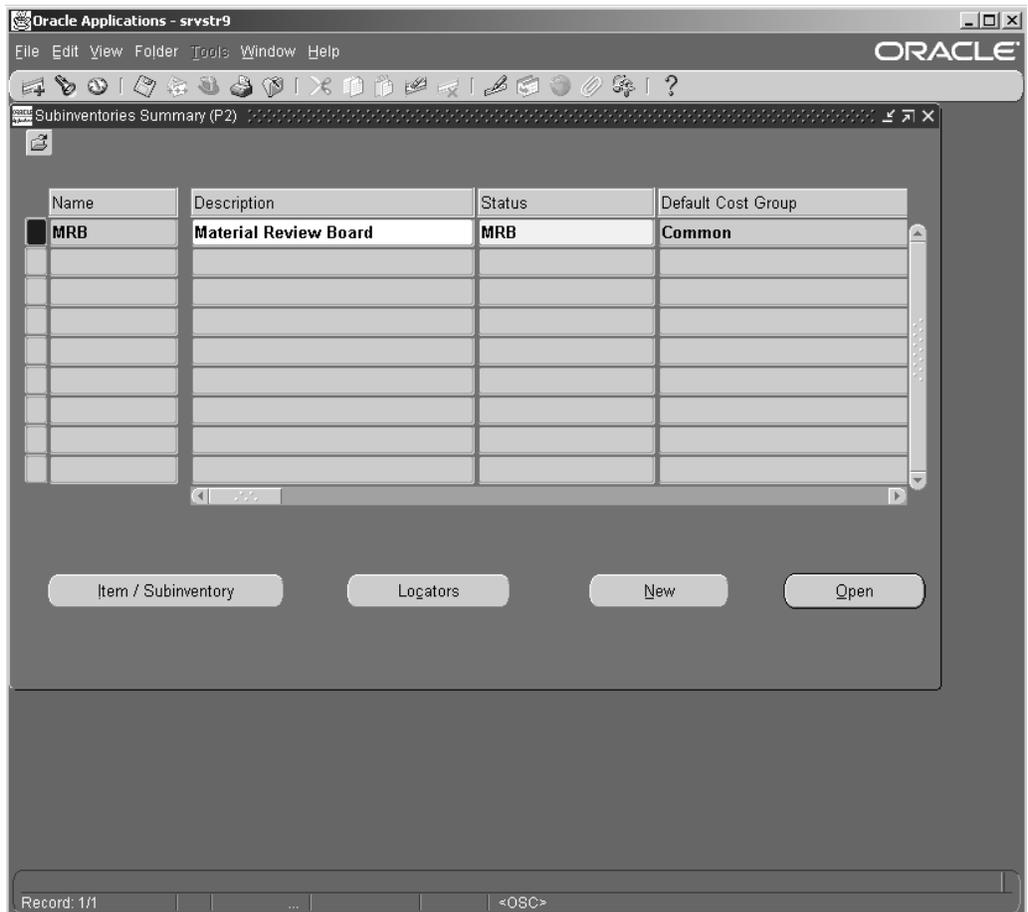


3. Save your work.

To associate Material Status with Subinventories:

1. Navigate to Setup > Warehouse Configuration > Warehouse > Subinventories. The Subinventories Summary window appears.
2. Select a subinventory and associate a Material Status with it.

Subinventories Summary Window

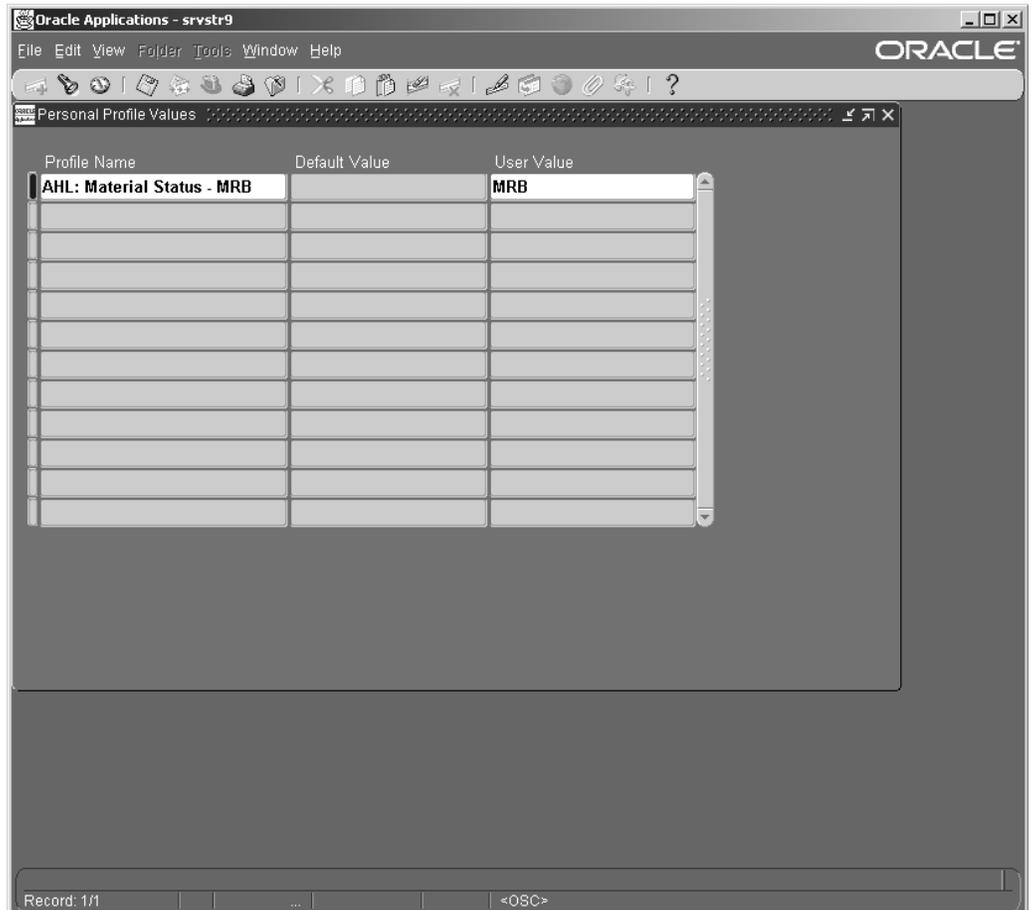


To set up Profile Options

1. Change responsibility to Application Developer. Navigate to Other > Profile. The Personal Profile Values window appears.
2. Set up the Profile options as indicated in the table below.

Profile Name	User Value
AHL: Material Status - Serviceable	Serviceable
AHL: Material Status - Unserviceable	Un-Serviceable
AHL: MRB Material Status - MRB	MRB

Personal Profile Values Window



3. Save your work.

See Also:

Oracle Warehouse Management User's Guide

Setting Up Oracle Purchasing

Before setting up Oracle Purchasing, you must ensure that:

- Oracle Inventory setup is complete
- Supply sub-inventories have been set up
- Oracle Human Resources setup is complete

To set up Oracle Purchasing:

1. Change responsibility to Manufacturing and Distribution Manager. From the Navigator, select Purchasing.
2. Set up the following in Oracle Purchasing:
 - Buyers
 - Approvals

- Purchasing Options
- Receiving Options
- Financial Options
- Open Accounting Periods

Approval Groups Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

Approval Groups (M1)

Name: **Buyer Materials** Enabled

Description: **Buyer for materials up to \$50,000**

— Approval Rules

Object	Type	Amount Limit	Low Value	High Value
Document Total	Include	50,000.00		
Account Range	Exclude	50,000.00	01-000-1570-0000-000	02-999-1570-9999-99
Account Range	Include	50,000.00	01-000-0000-0000-000	02-999-9999-9999-99

Record: 1/1 <OSC>

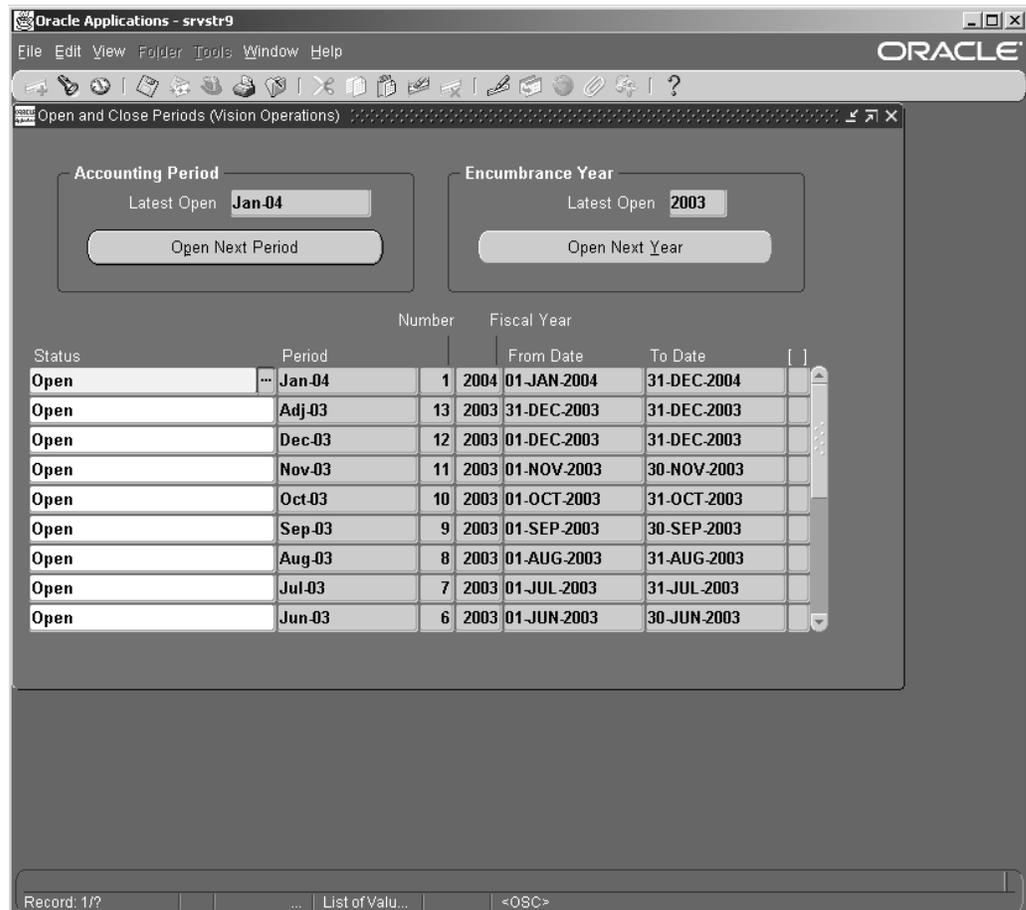
Buyers Window

The screenshot shows the Oracle Applications Buyers Window. The window title is "Oracle Applications - srvstr9". The menu bar includes "File", "Edit", "View", "Fajdar", "Tools", "Window", and "Help". The toolbar contains various icons for navigation and editing. The main area displays a table with columns: Buyer, Category, Ship-To, From, and To. The table is divided into "Default" and "Effective" sections. The "Default" section is currently active, showing a list of buyers. The "Effective" section is empty. The table has a vertical scrollbar on the right side. At the bottom of the window, there is a status bar showing "Record: 1/?" and "<OSC>".

Buyer	Category	Ship-To	From	To
Albers, Corinna Mrs.			14-NOV-2001	
Allen, Bertie		Local (PSUK)	08-FEB-2001	
Andersson, Miss Lena			01-JAN-1997	
Baker, Ms. Catherine		M1- Seattle	01-APR-1997	
Baker, Sandy		Local (PSUK)	08-FEB-2001	
Bakker A			21-MAY-2001	
Barclay, Mr. Ian		M1- Seattle	02-AUG-2001	
Bart, Lou		Health (PSUK)	08-FEB-2001	
Bartels, Stefan Mr.		München DE	07-APR-2001	
Bartolucci, Miss Tonya Maria			15-NOV-2001	

Record: 1/? ... <OSC>

Open Accounting Periods Window



3. Save your work.

See Also:

Oracle Purchasing User's Guide

Setting Up Oracle Advanced Planning and Scheduling

Oracle Complex Maintenance, Repair, and Overhaul integrates with Oracle's Advanced Planning and Scheduling (APS) applications for supply chain management. Advanced Supply Chain Planning (ASCP), is used to schedule required materials from maintenance visits. Available to Promise (ATP), is used for material availability inquiries, as well as scheduling through ASCP. Demand Planning (DP), is used for creating material demand from three sources: global demand from forecasted requirements in Unit Maintenance Plan; scheduled demand from requirements scheduled to maintenance visits; and historical non-routine (and routine) demand from maintenance accomplished at specific facilities. Additionally, Oracle APS's Inventory Optimization (IO) application is required for complete supply chain planning.

The sections below discuss the setups required:

For Advanced Supply Chain Planning

- The APS applications employ a component architecture in which transaction processing and planning can occur in separate database instances. The correct instances to collect and query from must be defined. Collections from ASCP and DP, and ATP queries from the CMRO instance must be directed to the correct instance. For information, refer to Section 2 of the *Oracle Advanced Planning Implementation and User's Guide*.
- The user must create an ASCP plan to process the collected material requirements. The applicable organizations, demand and supply schedules must be defined. Additionally, the Include Sales Orders check box must be selected in the Plan Options window. For information on defining plans, refer to Section 5 of the *Oracle Advanced Planning Implementation and User's Guide*.

Defining Plan Options - Plan Options window

The screenshot shows the 'Plan Options (TST:M1)' window with the following details:

- Plan:** CMR01
- Plan Type:** Manufacturing Plan
- Tabs:** Main, Aggregation, Organizations, Constraints, Optimization, Decision Rules
- Global Demand Schedules:** Table with columns: Name, Description, Type, Ship To Consumption Level.
- Organizations:** Table with columns: Org, Description, Net WIP, Net Reservations, Net Purchases, Plan Safety Stock, Include Sales Order. The entry 'TST:M1 TST:Seattle Manufactur' has 'Net WIP', 'Net Reservations', and 'Include Sales Order' checked.
- Demand Schedules:** Table with columns: Name, Description, Type, Ship To Consumption Level, Inter Plant. The entry 'MDS-M1-PRO M1 Master De MDS' is visible.
- Supply Schedules:** Table with columns: Name, Description, Type. The entry 'MPS-M1-PRO Master Production MP MPS' is visible.
- Buttons:** Subinventory Netting

For Demand Planning

- Demand planning collections must be setup. For information on setting up data collections, refer to Section 2 of the *Oracle Demand Planning Implementation and User Guide*.
- The correct application instance must be defined and the applicable organizations for that instance must be enabled. All organizations, which will have CMRO material requirements, must be checked.

Defining Application Instances - Application Instances window

The screenshot shows the 'Application Instances' window with the following configuration:

- Instance Code: TST
- Instance Type: Discrete & Process
- Version: 11i
- From Source To APS: (empty)
- From APS To Source: (empty)

The 'Organizations' pane shows a table with the following data:

Org	Description	Enabled	Collection Group
XNA	American Eagle - XNA	<input checked="" type="checkbox"/>	
V1	Vision Operations	<input checked="" type="checkbox"/>	
S1	Chicago Subassembly Plant	<input checked="" type="checkbox"/>	
M1	Seattle Manufacturing	<input checked="" type="checkbox"/>	
M2	Boston Manufacturing	<input checked="" type="checkbox"/>	
VS	Vision Services	<input checked="" type="checkbox"/>	
VA	Vision ADB	<input checked="" type="checkbox"/>	
D1	Singapore Distribution Center	<input checked="" type="checkbox"/>	
D2	Miami Distribution Center	<input checked="" type="checkbox"/>	
PM	Vision Project Mfg	<input checked="" type="checkbox"/>	

- Users must define a demand plan. To capture the data collected from CMRO, the plan must include the following input parameters:

Material Requirements – Scheduled Visits (collections for all requirements in a maintenance visit)

Material Requirements – Planned Maintenance (collections for all forecasted requirements in Unit Maintenance Plan)

Material Usage History – Unplanned Maintenance (collections for all non- routine requirements created during the production process, per organization)

Material Usage History – Planned Maintenance (an optional stream for all historical planned requirements, essentially collections for Unit Maintenance Plan's history)

For information on creating demand plans, refer to Section 7 of the *Oracle Demand Planning Implementation and User Guide*.

For Available to Promise

The source and destination instance must be defined. For information, refer to Section 2 of the *Oracle Global Order Promising Implementation and User's Guide*.

Setting Up Oracle Order Management

Before setting up Oracle Order Management (OM), you must ensure that:

- Oracle Inventory setup is complete
- Supply sub-inventories have been set up
- Oracle Purchasing setup is complete

Setting up Oracle Order management includes:

- Setting up Processing Constraints

- Creating Customers

To set up Processing Constraints:

1. From the Manufacturing and Distribution Manager responsibility, navigate to Order Management > Set Up > Rules > Security > Processing Constraints. The Processing Constraints window appears.
2. Query for the Order Sales Credit entity using the Find icon.
3. In the Constraints field, disable Create, Update, Delete, and Cancel Operations.
4. Click the Applicable To tab. Select the Authorized Responsibilities Radio Button and provide a list of Responsibilities that can perform the above listed actions.
5. Save your work.
6. Query for the Order Line entity.
7. Disable Create, Update, Delete, and Cancel operations for the same.
8. Click the Applicable To tab. Select the Authorized Responsibilities Radio Button and provide a list of Responsibilities that can perform the above listed actions. Save your work.

Note: Setting up Processing Constraints ensures that Order Management users are not able to update Sales Orders created within CMRO.

To define Customers:

1. Navigate to Customers > Standard. The Find/Enter Customers window opens.
2. Define your customers.

Note: For outside order processing, you must set up customers in Order Management identical to the suppliers that you created in Oracle Purchasing. You must do this step for only those suppliers to whom you will be shipping out the parts for service. Oracle recommends that you create customer names to be exactly the same as your supplier name.

See Also:

Oracle Order Management User's Guide

Setting Up Oracle Project

Oracle's CMRO application uses Projects as part of its maintenance planning and production flows. A project is created for each visit work package and project tasks are created for each visit work package. The project tasks are used in the maintenance planning flow to allow the required materials to be pegged to the corresponding visit tasks through Oracle's MRP application. A visit's corresponding project is used in the maintenance execution flow to collect costs associated to resource and material transactions performed in CMRO's Production module. Project Manufacturing's standard billing functionality can be used to generate the required reports for the corresponding visit work packages.

Setting up Oracle Projects includes the following steps:

- Creating a Project Template
- Assigning the Project Template name to an user profile

To create a Project Template:

1. Change responsibility to Project Super User. From the Navigator, select Setup > Projects > Project Templates.
2. Click on New. Enter the required information.
3. Select the Template check box to classify the project as template.
4. Ensure that all Project Class Categories that are marked Required are included, else you cannot approve Project Templates. Save the Project Template.

Note: This template should be created for the applicable inventory master organization. All projects created for maintenance visits use this project template.

5. The Project Status changes to Submitted. For more information about the creation of project templates and the manner in which you use them to create projects and submit for approval, refer to the *Oracle Projects User's Guide*.

To assign the Project Template name to an user profile

1. Change responsibility to System Administrator. From the Navigator, select Profile > System. The Find System profile Values window appears.
2. Find System Profile Value - AHL: Default Project Template ID.
3. Select the Project Template that you created from the Site LOV.
4. Save your work.

Note: You can change most of your user profile options; values you enter in the User Value field overriding the values preset by the System Administrator. A few profile options cannot be changed, but are displayed for informational purposes only. To change the User Profile options, from the Application Developer Responsibility, navigate to Other > Profile. Enter the required values in the Personal Profile Values window.

For for information on System profile options and the procedures for setting them up, refer to the *Oracle Applications System Administrator's Guide*.

Verifying/Updating the Project Created in the Visit Work Package(CMRO)

Each time the maintenance planner creates a project in Visit Work Package(CMRO), the project's parameters must be manually defined.

To verify/update the project created in the CMRO Visit Work Package:

1. Change responsibility to Manufacturing and Distribution Manager. From the Navigator, select Project > Project Definitions > Project Parameters. The Project Parameters window appears.
2. Enter the Visit Number in the Project Number field to search for the project created in Visit Work Package.

3. Verify the Organization name. It should be the same as the Visit Work Package organization.
4. Optionally, change the Cost Group.
5. Optionally, change the Default WIP class.
6. Select the Invoice Transfer tab. Optionally, change the IPV.
7. Make other changes if required.

See Also:

Projects User Guide Release 11i

Setting Up Oracle Enterprise Asset Management

Oracle CMRO uses the same work order system as Oracle Enterprise Asset Management (eAM). It also uses the Oracle eAM functionality to complete operations. Oracle CMRO benefits from Oracle eAM's enhanced integration with Oracle Costing.

Before setting up Oracle eAM, you must ensure that:

- Oracle Inventory setup is complete
- Oracle WIP setup is complete
- Oracle BOM setup is complete
- Oracle Purchasing setup is complete

To set up Oracle Enterprise Asset Management:

1. Change responsibility to Enterprise Asset Management.
2. Navigate to Setup > WIP > WIP Accounting Classes. Set up the following WIP Accounting Classes:
 - Standard
 - Expense
 - Maintenance
 - Asset Non-Standard

WIP Accounting Classes Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

WIP Accounting Classes (P2)

Class: **Discrete**

Description: **Discrete Job WIP Accounting Class**

Type: **Standard Discrete**

Inactive On:

Accounts	Valuation	Variance
Material	101.1020.000.144000.0000.000	101.1020.500.531101.0000.000
Material Overhead	101.1020.000.144500.0000.000	
Resource	101.1020.000.145000.0000.000	101.1020.500.532101.0000.000
Outside Processing	101.1020.000.146000.0000.000	101.1020.500.531107.0000.000
Overhead	101.1020.000.145500.0000.000	101.1020.500.532104.0000.000
Standard Cost		
Bridging		
Expense		101.1020.500.534105.0000.000
Estimated Scrap		

Costing

Completion Cost Source: **System Calculated**

System Option: **Use Actual Resources**

Cost Type:

Record: 1/1

- Set up the eAM parameters.

Enterprise Asset Management Parameters Window

4. Navigate to Setup > Category > Category Codes. Set up the Asset Category Code for structure Asset Management.
5. To establish the Asset Category as the default category, navigate to Set up > Category > Category Sets. The Category Sets window appears.
6. Query for Enterprise Asset Management in the Name field. Select the Category code that you created from the Default Category list of values.
7. Save your work.
8. Navigate to Setup > Lookup. The Oracle Manufacturing Lookups window appears. Query for WIP_EAM_ACTIVITY_PRIORITY lookup in the Type field. Verify that the following values are setup:

Code	Meaning
1	High
2	Medium
3	Low

Oracle Manufacturing Lookups Window

Code	Meaning	Description	Tag	From	To	Enabled
1	High			20-OCT-2003		<input checked="" type="checkbox"/>
2	Medium			20-OCT-2003		<input checked="" type="checkbox"/>
3	Low			20-OCT-2003		<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"/>

See Also:

Oracle Enterprise Asset Management User Guide

Setting Up Oracle Service

Oracle Service provides Oracle CMRO with the functionality to create and update service requirements in a maintenance organization. The association of a service request to a visit task and production job allows the maintenance organization to track the service difficulty (non-routine) to the associated progress or resolution performed by the maintenance personnel.

Setting up Oracle Service includes:

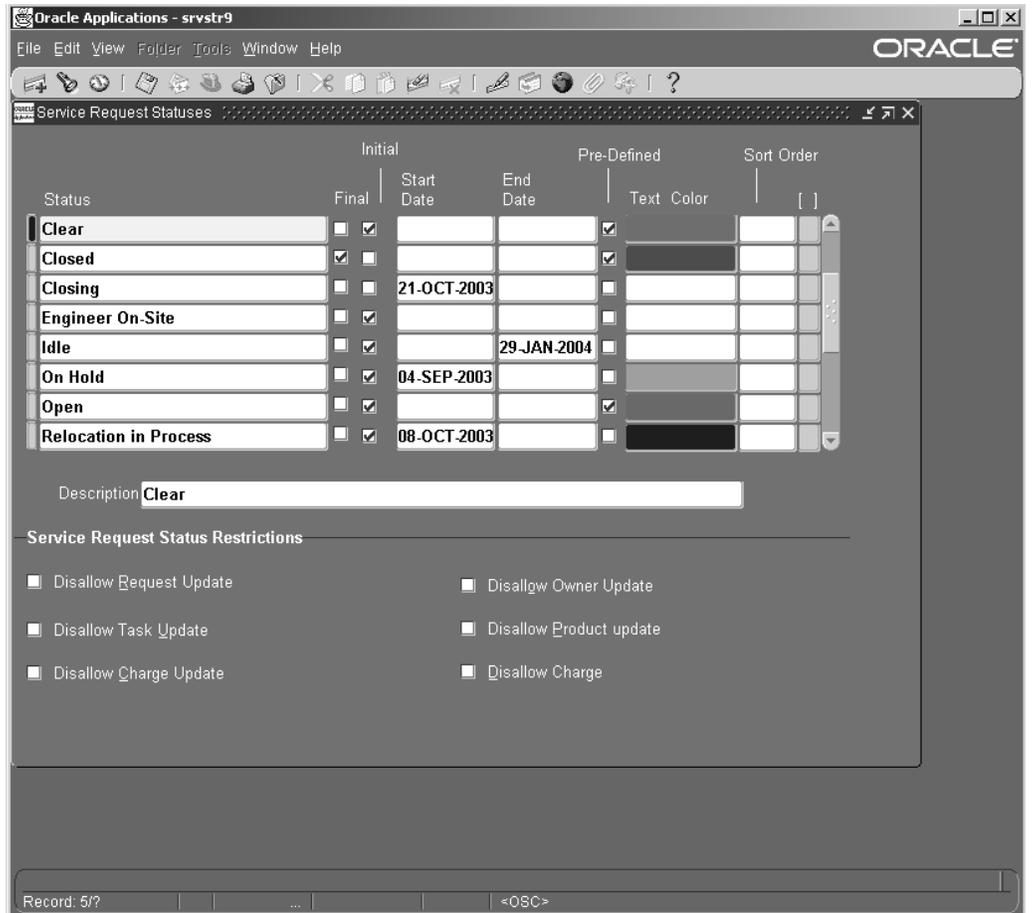
- Verifying/ Defining Service Request Type, Status, and Severity
- Setting up the Profile Options

To verify/define Service Request Type, Status, and Severities:

1. Change responsibility to Customer Support. From the Navigator choose Setup > Service Request > Request Status. The Service Request Statuses window appears.
2. You can define the following statuses:

- New
- Open
- Working
- Assigned
- Closed

Service Request Statuses Window



3. Navigate to Setup > Service Request > Request Types. The Service Request Types window appears.

Note: You define service Request Types to categorize your service requests. For each service request type, you can set up related service request statuses that correspond with each service request type

4. You can define the following Request Types:
 - Pilot Log
 - Cabin Log
 - Mechanic Log

- Inspection Log
- Technical Problem

Service Request Types Window

The screenshot shows the 'Service Request Types' window. It contains a table with the following columns: Type, Business Process, Status Group Name, Start Date, End Date, Asset Maintenance, Complex Maintenance, and Image File Name. Below the table are fields for Description, Workflow, and three checkboxes: Auto Launch Workflow, Abort Workflow on Final Status without Warning, and Web Entry.

Type	Business Process	Status Group Name	Start Date	End Date	Asset Maintenance	Complex Maintenance	Image File Name
Schedule Installer	Field Service				<input type="checkbox"/>	<input type="checkbox"/>	
Send Collateral					<input type="checkbox"/>	<input type="checkbox"/>	
Service Provider Request			01-JAN-1952		<input type="checkbox"/>	<input type="checkbox"/>	
Supplies Related	Customer Support	Supplies Related	01-JAN-2003		<input type="checkbox"/>	<input type="checkbox"/>	
Support Site Related	Customer Support	Site Related	01-JAN-2003		<input type="checkbox"/>	<input type="checkbox"/>	
Technical Problem	Customer Support	Technical Problem	24-JUN-2003		<input type="checkbox"/>	<input type="checkbox"/>	
stype11092733942	Customer Support				<input checked="" type="checkbox"/>	<input type="checkbox"/>	
stype11092734330	Customer Support				<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Description:

Workflow:

Auto Launch Workflow
 Abort Workflow on Final Status without Warning
 Web Entry

5. Navigate to Setup > Service Request > Request Severities. The Service Request Severities window appears.
6. Select the Complex Maintenance check box.
7. Verify that the following Request Severities are defined:
 - High
 - Low
 - Medium

Service Request Severities Window

Severity	Importance Level	Description	Start Date	End Date	Defect Severity	Text Color
High	1	Requires immediate				
Severe	1	Business impacted to				
Medium	2	1 TO 3 Day response				
Low	3	Response in one wee				
Very Low	4	R	22-OCT-2003	22-OCT-2003		

Select values in the Type, Status, and Severity fields, if they are different than the default values. Default values in these fields are governed by the profiles setup. For more information on profiles, see *Setting Up Oracle Support Profiles* in the *Oracle Support Implementation Guide*.

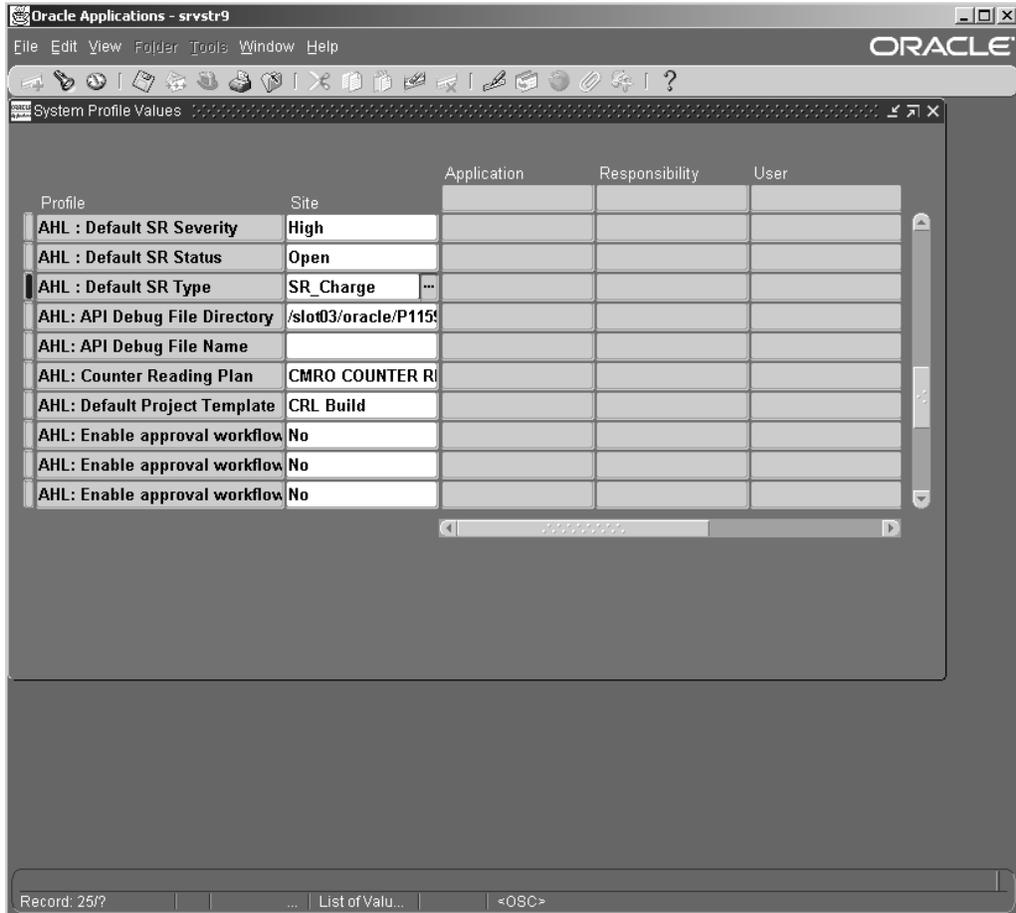
You can override these defaults if necessary by changing the appropriate profile options. For more information, see *Setting Up Support Related Profile Options* in the *Oracle Support Implementation Guide*.

To set up the Profile Options:

1. Change responsibility to System Administrator. Navigate to Profile > System. The Find System Profile Values window appears.
2. Find System profile value - AHL: Default SR Customer Name. Select the default Customer Name from the Site LOV.
3. Save your work.
4. Find System profile value - AHL: Default SR Severity. Select the default Severity Value from the Site LOV.
5. Find System profile value - AHL: Default SR Status. Select a default Status Value.
6. Find System profile value - AHL: Default SR Type. Select the default SR Type.

7. Save your work.

System Profile Values Window



Note: You can change most of your user profile options; values you enter in the User Value field override values preset by the System Administrator. A few profile options are set for informational purposes only, and cannot be changed.

See Also:

Oracle Customer Support Implementation Guide

Setting Up Oracle Contracts

CMRO's Outside Processing module uses the Oracle Contracts' functionality supporting Loan and Borrow Transaction.

Before you set up Oracle Contracts, you must ensure that:

- Oracle Inventory setup is complete
- Oracle Receivables setup is complete
- Oracle Order Management setup is complete

- Oracle Purchasing setup is complete

Setting up Oracle Contracts includes:

- Setting up Buyers
- Setting up Suppliers
- Other Setups

To set up Buyers:

1. From the Navigator, select Contract Manager > Setup > Others > Buyer > Buyer. The Find Buyer window appears. Click the New Buyer button.
2. Select a Buyer Name from the list of values.
3. Enter other required data.

Buyers Window

Buyer	Category	Ship-To	From	To
Albers, Corinna Mrs.			14-NOV-2001	
Allen, Bertie		Local (PSUK)	08-FEB-2001	
Andersson, Miss Lena			01-JAN-1997	
Baker, Ms. Catherine		M1- Seattle	01-APR-1997	
Baker, Sandy		Local (PSUK)	08-FEB-2001	
Bakker A			21-MAY-2001	
Barclay, Mr. Ian		M1- Seattle	02-AUG-2001	
Bart, Lou		Health (PSUK)	08-FEB-2001	
Bartels, Stefan Mr.		München DE	07-APR-2001	
Bartolucci, Miss Tonya Maria			15-NOV-2001	

Record: 1/?

Note: The buyers setup in Oracle Contract will be displayed in the CMRO Select Buyer Name list for the user to select as the OSP Buyer.

To set up Suppliers

1. Navigate to Contract Manager > Setup > Others > Supplier > Entry. The Suppliers window appears.
2. Enter required information.

Suppliers Window

Supplier Name **Advantage Corp** Supplier Number **1010**

Alternate Name _____

Taxpayer ID _____ Tax Registration Number _____

Inactive On _____ []

Control Payment Bank Accounts EDI Invoice Tax Withholding Tax Tax Reporting **Purchasing** Receiving

Ship-To Location **M1 - Seattle**

Bill-To Location **V1 - New York City**

Ship Via **UPS**

FOB **Origin**

Freight Terms **Due**

Create Debit Memo from RTS Transaction

Purchase Order Hold

Purchasing Hold Reason _____

Sites

Record: 1/1 ... List of Valu... <OSC>

Note: These setup suppliers will be available in CMRO OSP Vendor Name list for the user to select.

Other setups:

1. Navigate to Contract Manager > Setup > Contract. Verify the contract setup.
2. Set up Standard Articles and Categories and Sources.
3. Optionally, set up Customers.
4. Set up Contract Groups and Contract Events.

Note: To find the approver of the contracts, you must look at the profile value: OKC: Contract Approver.

See Also:

Setting Up Oracle Install Base

After you define the master configuration, a framework exists that describes the general characteristics of the system, including the engineering rules for assembly. The user can then create a unit configuration. Oracle Complex uses the Installed Base' methods to populate the database with transactions representing the as operated configuration of the system.

Before you set up Oracle Install Base, ensure that:

- Oracle Inventory setup is complete
- Oracle Counters setup is complete
- Supplier and supplier sites are set up (Purchasing)
- Customer and customer sites are set up (Receivables)

To set up Oracle Install Base:

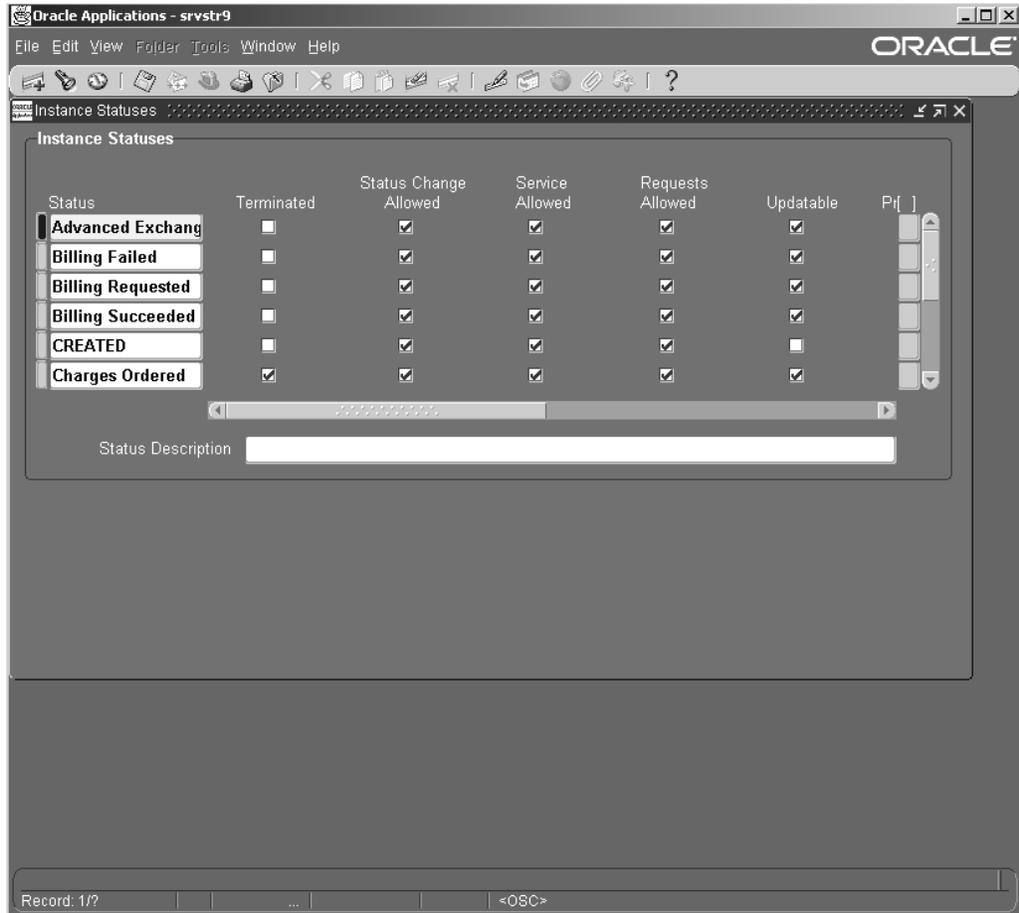
1. Change responsibility to Oracle Installed BaseAdmin. Navigate to Setup > Install Parameters.
2. Set up Install Parameters.

Installed Parameters Window

The screenshot shows the 'Installed Parameters' window in Oracle Applications. The window title is 'Oracle Applications - srvstr9'. The menu bar includes 'File', 'Edit', 'View', 'Folder', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for navigation and editing. The main content area is titled 'Install Parameters' and contains several sections: 'Party Name' (Vision Corporation), 'Full Dump Frequency' (5), 'Project Location', 'WIP Location', 'In-Transit Location', and 'PO Location'. Each location section has an 'Address' field with the text 'Please refer to [Location] Job' and several empty text boxes for details. Below these sections are fields for 'Category Set Name', 'All Parties' (checkbox), 'Freeze' (checkbox), 'Allocate at WIP' (checkbox), 'Override Ownership' (checkbox), and 'SFM Bypass' (checkbox). The status bar at the bottom shows 'Record: 1/1' and '<OSC>'.

3. Set up Instance Statuses.

Instance Statuses Window



4. Optionally, set up Maintain Locations.
5. Set up Asset Locations.

See Also:

Oracle Install Base Implementation Guide

Setting Up Oracle Counters

To set up Oracle Counters:

1. From the Navigator, select Field Service Manager > Field Service Set Up > Counters > Define Counters.
2. Click the New button. Set up Counter Groups.

Setup Counters Window

The screenshot shows the 'Setup Counters' window in Oracle Applications. The main section is 'Counter Group' with the name 'PM Count01' and an association type of 'Item'. Below this is a table of counters:

Name	Type	UOM	Step	To	From	Usage Item	Unit	UOM	Valid	Enabled
PMCT1	Regular	EA							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PMCT2	Time B...	DAY					1	Day	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Below the table, the description is 'Counter Used for Preventive Maintenance'. Other fields include Group Op, Avg Basis, Avg Count, Avg UOM, Counter, Tolerance Plus%, Minus%, Effective, and Direction. At the bottom, the 'Properties' section shows a data type of 'NUMBER' and a 'Null Allowed' checkbox checked.

3. Associate the Counter Groups with the Install Base items.
4. Optionally, associate the Counter Groups with Maintain Locations.

See Also:

Oracle Service Implementation Guide

Setting Up Oracle Quality

Oracle CMRO uses the setup from Route Management and the system profile options in Oracle Quality, to allow maintenance organizations to capture quality elements for operations, jobs, deferrals, scrap management, and capturing counter value snapshots. This gives maintenance facility the flexible integration required to maintain reliable products.

Oracle CMRO provides seeded plan templates for routes, operations, job deferrals, MRB dispositions and counter reading capturing. These templates can either be used as-is or adjusted with additional quality elements, except the counter reading template which is used by CMRO in the background and cannot be changed.

Setting up Oracle Quality includes:

- Setting-up Route and Operation Quality Plans
- Setting-up Job Deferral, MRB Disposition Quality, Non-Routine Job Inspection and Non-Routine Operation Inspection Plans

- Setting up Counter Readings Quality Plan

Setting Up Route and Operation Quality Plans

Creating Inspection Types:

You can create the different Inspection Types for route and/or operation quality recording. The inspection types are maintained in a seeded collection element called Inspection Type. Creating collection elements, collection element types and collection plan types have no specific CMRO set up requirements.

To create Inspection Types

1. Change responsibility to Manufacturing and Distribution Manager. From the Navigator, select Quality > Setup > Collection Elements. From the organization list, select the Organization that you want to set-up the quality plan for. The Collection Elements window appears.
2. Query for or find the Collection Element 'Inspection Type'.
3. Click the Values button.
4. Define Inspection Types.

Collection Elements Window

Collection Element: Enabled
 Element Type:

Label:

Prompt:

Short Code	Description
CTR_SNAP	Counter Reading
CUST_REQ	Customer Approval Required
DEFER	Deferral Approval
INSP_N/A	Inspection Not Required
INSP_REQ	Inspection Required
MRB_REQ	MRB Approval Required
MX_DEFINED	Maintenance Defined
TEST_Q	Test QA VL

Mandatory

ROM qa_char_value_lookups

Actions

Record: 1/8 | <OSC>

Note: The defined inspection types are the values that appear in the list of values for the quality inspection type attribute in routes and operations.

Creating Quality Plans

CMRO provides plan templates with seeded quality elements. Oracle recommends that you use these templates and adjust them for the specific needs rather than creating a plan from scratch, because the template contains collection elements that are automatically populated by CMRO when quality is recorded in production. Should these elements be missing, the procedure would still work, but these attributes would not be recorded. The background attributes contain information about the job, maintenance requirement, item and item instance etc., which allow for a convenient quality reporting and analysis. The templates also contain seeded displayed items that are either mandatory or optional. Those properties can be changed. This approach enables the user to take full advantage of CMRO's out-of-the-box quality functionality together with the flexibility to create completely customized quality plans. Creating and using plan types has no specific CMRO set up requirements.

To create Quality Plans:

1. Navigate to Quality > Setup > Collection Plans. The Collection Plans window opens.
2. Define the collection plan. Select the plan type.
3. Click the Copy Elements button. The Copy From Plan window appears.
4. Select the Plan template that you want to copy from. For CMRO, the options are:
 - Advanced Service Online Operation Completion Plan
 - Advanced Service Online Route Completion Plan

Collection Plans Window

Oracle Applications - srvr9

File Edit View Folder Tools Window Help

ORACLE

Collection Plans (P2)

Collection Plan: OPERATION COMPLETION PLAN

Description:

Effective: 18-FEB-2004

Plan Type: Corrective Action Requests, Corrective Action Request Plan

Copy Elements... Transactions Specifications...

Quality Collection Elements

Name	Seq	Prompt	Mandatory	Enabled	Displayed
Maintenance WorkOrder	10	Work Order	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maintenance Requirement	20	Maintenance Requir	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maintenance Op Seq	30	Maintenance Op Sec	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maintenance Op Status	40	Operation Status	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Item	50	Item	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Values Actions

Record: 1/1 <OSC>

5. Click the Transactions button. The Collection Transaction window appears.
6. Select the seeded transaction for either route or operation. The options for CMRO are:
 - Maintenance Route Completion (Advanced Service Online)
 - Maintenance Operation Completion (Advanced Service Online)
7. Define the trigger. Select Inspection Type from the Trigger name list of values. The trigger value is selected from the set-up in the Inspection Type collection element.
8. Save your work.

Collection Transactions Window

Transaction Description	Mandatory	Background	Enabled
Maintenance Route Completion (Advanced Service Online)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance Operation Completion (Advanced Service Online)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trigger Name	Condition	From	To
Inspection Type	equals (=)	MX_DEFINED	

Note: The Inspection Types created can be associated with a route or operation in route management. When the route and/or operation is going to be instantiated in production the user will have the derived quality plan available for collecting the quality results.

Setting Up Job Deferral, MRB Disposition Quality, Non-Routine Job Inspection and Non-Routine Operation Inspection Plans

Creating Inspection types

An Inspection Type for Deferral, MRB, Non-routine job and Non-routine operation is defined in a system profile option. The Inspection Type will derive the existing plan in the organization where a job is deferred in, an mrb disposition is initiated and/or a non-routine job/operation is created. You can create the different inspection types for job deferral, mrb disposition, and non-routine quality recording.

To create Inspection Types:

1. Navigate to the Collection Elements window. Query for the Collection Element 'Inspection Type'.
2. Click the Values button. Define Inspection Types for Job Deferral, MRB Disposition, and Non-Routine quality recording.

Note: The defined inspection types appear in the list of values for the system profile option for job deferral and mrb disposition.

To create Quality Plans:

1. Navigate to the Collection Plans window.
2. Define collection plans for Job deferral, MRB disposition and Non-Routine job/operation using the following plan templates:
 - Advanced Service Online MRB Disposition Plan
 - Advanced Service Online Route Completion Plan
 - Advanced Service Online Operation Completion Plan
 - Advanced Service Online Job Deferral Plan
3. Add or change quality elements if necessary.
4. Click the Transactions button. Select the following seeded transaction descriptions for job deferral, mrb disposition and non-routine job/operation:
 - Maintenance Job Deferral (Advanced Service Online)
 - MRB Disposition (Advanced Service Online)
 - Maintenance Route Completion (Advanced Service Online)
 - Maintenance Operation Completion (Advanced Service Online)
5. Define the trigger. Select Inspection Type from the Trigger name list of values. The trigger value is selected from the set-up in the Inspection Type collection element.
6. Save your work.

System Profile Options Setup

Set up the following System Profile Options for Job Deferral, MRB disposition and Non-Routine job/operation quality definition:

- AHL: Job Deferral Inspection Type
- AHL: MRB Disposition Inspection Type
- AHL: Non-routine Job Inspection Type
- AHL: Non-routine Operation Inspection Type

Setting Up Counter Readings Quality Plans

Whenever a maintenance requirement is completed in production, CMRO stores the current counter values of the maintained item instance in a Counter Reading Quality Plan. The plan will adjust itself based on the counters defined on the item instance. This procedure is completely transparent to the end user. The user must create a Counter Reading Quality Plan in quality and set up the system profile option to enable counter reading capturing.

Creating Quality Plans

The Counter Readings Quality Plan is created using the template and cannot be adjusted, since the end-user has no influence over the recording of the counter values.

Note: You need to create only one Counter Reading plan because the same is used across all organizations.

To create Quality Plans:

1. Navigate to the Collection Plans window. Define the collection plan.
2. Select the plan type from the Plan Type list of values.
3. Click the Copy Elements button. Select the following plan template: Advanced Service Online Counter Readings Plan

Note: Do not adjust collection elements.

4. Do not define any Transactions.

System Profile Options Setup

For the Counter Reading Quality definition, set up System Profile Option -AHL: Counter Reading Plan.

See Also:

Oracle Quality User's Guide

Setting Up Oracle Content Manager

Oracle Content Manager integrates with Oracle CMRO to provide the user with the capability to upload electronic files. The electronic file upload feature is used within the Document Index module in Oracle CMRO.

To upload electronic files, you must ensure that the following tables are set up in Oracle Content Manager:

ibc_content_types_b

Attribute	Data
CONTENT_TYPE_CODE	AHL_DOCUMENT
CONTENT_TYPE-STATUS	ACTIVE

ibc_attribute_types_b

Attribute	Data
ATTRIBUTE_TYPE_CODE	DOCUMENT
CONTENT_TYPE_CODE	AHL_DOCUMENT
DATA_TYPE_CODE	ATTACHMENT
MIN_INSTANCES	1
UPDATEABLE_FLAG	T

If the records are not present in *ibc_content_types_b* and *ibc_attribute_types_b*, then run the *ahlctype.ldt* file. This will ensure that the records are inserted into the appropriate tables.

Note: To upload files, AHL_MEDIA_TYPE lookup must have the value E-File. For more information, refer to the Document Index module setup.

CMRO Specific Setups

Oracle Complex Maintenance, Repair, and Overhaul is an integrated, web-enabled software application suite designed to empower complex equipment maintenance organizations. Oracle Complex Maintenance, Repair, and Overhaul supports maintenance processes such as scheduled and unscheduled maintenance visits, component monitoring, job scheduling and routing, labor time collection, cost collection, inventory management, and maintenance document management. It provides models for electromechanical systems and defines rules for assembling units. It also records unit-specific information, allowing quick access to the maintenance history of a product component.

Oracle Complex Maintenance, Repair, and Overhaul is organized as follows:

1. Engineering
 - Fleet Maintenance Program (maintenance requirements)
 - Route Management (work card authoring)
 - Document Index (technical document management)
2. Configuration Management
 - Master Configuration (allowable installations)
 - Unit Configuration (as installed maintenance tracking)
 - Product Classification (logical grouping)
3. Planning
 - Unit Maintenance Plan (active maintenance requirements)
 - Visit Work Package (work scope and resource)
 - Long Term Plan (hangar and visit plan)
4. Execution
 - Production
 - Production Planning
 - Outside Processing

This section includes the following:

- Oracle Complex Maintenance, Repair, and Overhaul Standard Setup, page 2-78
- Oracle CMRO Approval Workflow Setup, page 2-84
- Oracle CMRO Module Setup, page 2-94

Oracle Complex Maintenance, Repair, and Overhaul Standard Setup

CMRO Standard Setup involves assigning roles to AHL Super User, setting up advanced properties and system profile options.

To assign roles and set up advanced properties:

1. Login to JTF using the System Administrator responsibility. Click the Users link in the Home page.

User Maintenance Page



2. Click User Maintenance. In the Users page, query for the user having AHL Super User responsibility. Click Go. Click the user name to navigate to the User Details page.

User Details Page

The screenshot shows the Oracle Administration Console interface. At the top, the title is "ORACLE Administration Console" with navigation links for "Home", "Users", "Settings", "Deployment", "Diagnostics", "Performance", "Integration", and "Design". A "Quick Find" search bar contains "jtfmserver" and a "Go" button. On the left, a sidebar menu includes "Introduction", "Pending Approvals", and "User Maintenance". The main content area is titled "User Details" and shows "User ID: TSMITH". Below this is a "Roles" button. Further down is a "Reset Password" section with a "New Password" input field and a "Reset Password" button. A note below the button states "Password should be at least 5 characters long." At the bottom of the page, there is a footer with navigation links: "Home | Users | Settings | Deployment | Diagnostics | Performance | Integration | Design | Home | Profile | Sign Out | Help" and a copyright notice: "Copyright 2000, Oracle Corporation. All rights reserved."

3. Click Roles. The User-Role Mapping page appears. From the Available Roles column, select the following roles and move them to the Assigned Roles column:
 - AHL_ADMIN_ROLE
 - AHL_OSP_ROLE
 - AHL_USER_ROLE
 - CSI_ADMIN_USER
 - CSI_NORMAL_USER

User-Role Mapping Page

The screenshot shows the Oracle Administration Console interface. At the top, the title is "ORACLE Administration Console" with navigation links for Home, Users, Settings, Deployment, Diagnostics, Performance, Integration, and Design. Below this is a secondary navigation bar with Registration and Setup tabs. A search bar contains "jtfmsvr" and a "Go" button. On the left, a sidebar menu includes Introduction, Pending Approvals, and User Maintenance (highlighted). The main content area is titled "User-Role Mapping" and shows "Roles for the User : TSMITH". It features two panes: "Available Roles" and "Assigned Roles". The Available Roles pane lists 25 roles, including AAAAAATESTDUMMYROLE, ADS ADMIN, AHL_FMP_SUPER_USER_ROLE, AHL_MR_INIT, ALAM_TEST_1, CSI_CUSTOMER_USER, CSI_EIB_USER, CSI_END_USER, CSI_READ_ONLY_USER, CSI_SALES_SUPER_USER, CSI_SALES_USER, CSS_DEF_ADMIN, CSS_DEF_DEFECT_CUSTOMER_READ_ONLY, CSS_DEF_DEFECT_INTERNAL_READ_ONLY, CSS_DEF_DEFECT_KB_SUBMIT, CSS_DEF_DEFECT_MASS_UPDATE_ADMIN, CSS_DEF_DEFECT_MASS_UPDATE_REG, CSS_DEF_DEFECT_MODIFY_USER, CSS_DEF_DEFECT_NOTE_MODIFY, and CSS_DEF_DEFECT_READONLY_USER. The Assigned Roles pane lists AHL_ADMIN_ROLE, AHL_USER_ROLE, CSI_NORMAL_USER, AHL_OSP_ROLE, and CSI_ADMIN_USER (highlighted). Between the panes are buttons for Move, Move All, Remove, and Remove All. At the bottom of the Available Roles pane are Update and Restore buttons.

4. To set up advanced properties, click the Settings secondary tab. Click the Settings subtab. Click Advanced to navigate to the Advanced-Properties page.

Advanced-Properties Page

The screenshot shows the Oracle Administration Console interface. At the top, the title is "ORACLE Administration Console" with navigation links for "Home", "Users", "Settings", "Deployment", "Diagnostics", "Performance", "Integration", and "Design". Below this is a sub-navigation bar with "Security", "Site Preferences", and "System". A "Quick Find" search box contains "itffmserver" and a "Go" button. The main content area is titled "Advanced - Properties" and has a "View" dropdown menu set to "ADS_DEV". Below this, it states "This category currently has no properties." On the left side, there is a sidebar menu with "Introduction" and "Properties" (expanded) containing links for "Sessions", "Cookies", "Branding", "Self Service User", "Logging Trails", "Category", "Password", "Expiration", and "Advanced". Below "Properties" are "Debug Logging" and "Page Flow Logging". At the bottom, there is a footer with navigation links: "Home | Users | Settings | Deployment | Diagnostics | Performance | Integration | Design | Home | Profile | Sign Out | Help" and a copyright notice: "Copyright 2000, Oracle Corporation. All rights reserved."

5. Select AHL from the View list. Click branding.default. Verify that the value is Oracle Complex MRO.

Verify Property - Advanced Properties Page

ORACLE Administration Console Home Profile Sign Out Help

Home Users **Settings** Deployment Diagnostics Performance Integration Design

Security | Site Preferences | **System**

Quick Find

Introduction

7 Properties

- [Sessions](#)
- [Cookies](#)
- [Branding](#)
- [Self Service User](#)
- [Logging Trails](#)
- [Category](#)
- [Password](#)
- [Expiration](#)
- [Advanced](#)

▶ [Debug Logging](#)

▶ [Page Flow Logging](#)

Advanced - Properties

View

Remove	Key	Value
<input type="checkbox"/>	CSI_FW_LOOKUP_CATALOG	/oracle/apps/ahl/cm/AhlcmLookupMapping.proper ...
<input type="checkbox"/>	CSI_FW_LOV_CATALOG	/oracle/apps/ahl/cm/AhlcmLovMapping.propertie ...
<input type="checkbox"/>	CSI_FW_QUERY_CATALOG	/oracle/apps/ahl/cm/AhlcmQueryCatalog.proper ...
<input type="checkbox"/>	LookAndFeel.cabo	true;
<input type="checkbox"/>	SESSIONTIMEOUT	1000;
<input type="checkbox"/>	branding.default	Complex MRO;
<input type="checkbox"/>	branding.resp.AHL_SUPER_USER	Complex MRO;
<input type="checkbox"/>	branding.resp.AHL_USER	Complex MRO;
<input type="checkbox"/>	branding.resp.ASO_PRJMFG_USER	Complex MRO;

1 - 9 of 9

To set up the System Profile options:

1. From the Navigator, choose System Administrator. Navigate to the System Profile Values window.
2. Set up the System Profile options as indicated in the table below.

System Profiles

Profile	Site(Value)	Descriptions
AHL: Application Usage Mode	Complex Maintenance Repair and Overhaul, Depot Repair, Preventive Maintenance	Set up the application usage mode
AHL: Turn On Development Debug	Yes/No	Enable/disable debug session
AHL: Turn on File Debug	Yes/No	

Note: The Fleet Maintenance Program and Route Management modules enable users to define maintenance requirements and routes for both CMRO and Preventive Maintenance applications. Setting up the profile option AHL: Application Usage Mode determines the user responsibility. Users can view only the routes, maintenance requirements, or unit effectivities associated

with the selected application usage mode. Users can also define routes having the same number or maintenance requirements having the same title across different application usage modes.

Oracle CMRO Approval Workflow Setup

You can set up an Approval Workflow to approve maintenance programs, activities and routes. You can use the built-in Approval Workflow or you can create your own workflow, define a specific approval rule and create a list of approvers for each CMRO object. After setting up profile options, if you do not specify an approval rule, the application uses the default approval rule.

CMRO Approval Workflow setup includes:

- Setting up Profile Options
- Creating Approval User(s) and Role(s)

Setting Up Profile Options

By default, Maintenance Programs, Activities and Routes are automatically approved at the time of creation when you click the Approved button. To set up an Approval process, you must set up the system profile options as indicated in the table below.

Profile Options

Profile	Value	Description
AHL: Enable approval workflow for Routes	Yes	This enables the approval workflow for the routes
AHL: Enable approval workflow for Maintenance Requirement	Yes	This enables the approval workflow for maintenance programs and activities
AHL: Workflow Loop Counter	Requires a numeric value that defines how many times the notification will be re-sent if the user does not respond	-
AHL: Workflow Timeout Minutes	Requires a numeric value that defines the period after which a workflow times out when its progress is halted.	-

Creating Approval User(s) and Role(s)

To activate the enabled workflow, you must set up employees in Oracle Human Resources, create application users and define approval roles for these employees, and create approval rules for the different CMRO objects.

Note: The following set up steps are depending on the use of the seeded approval workflow. If you decide to create your own workflow you will have to adjust these steps to the functionality of this workflow.

Defining Approval Employees in Oracle Human Resources

All approval users need to be defined as employees in Oracle Human Resources.

Note: If you want to notify the approval user via e-mail, then in addition to the application work list notification, you must also set up the e-mail address for the employee in the Office Details window.

For more information on how to set up employees, refer to the *Oracle Human Resources Implementation guide*.

Creating Application User for Approval Employees

Every approval employee needs to have an Oracle Application login. When defining the application user you have to associate the approval employee, set up earlier in HR, to that application user.

Creating Approval Roles

Associating the approval employees to a role is an optional step. If you have set up the employees in Oracle HR and created application users for them, you can associate the employee directly with an approval rule. You can set up the following two types of approval roles:

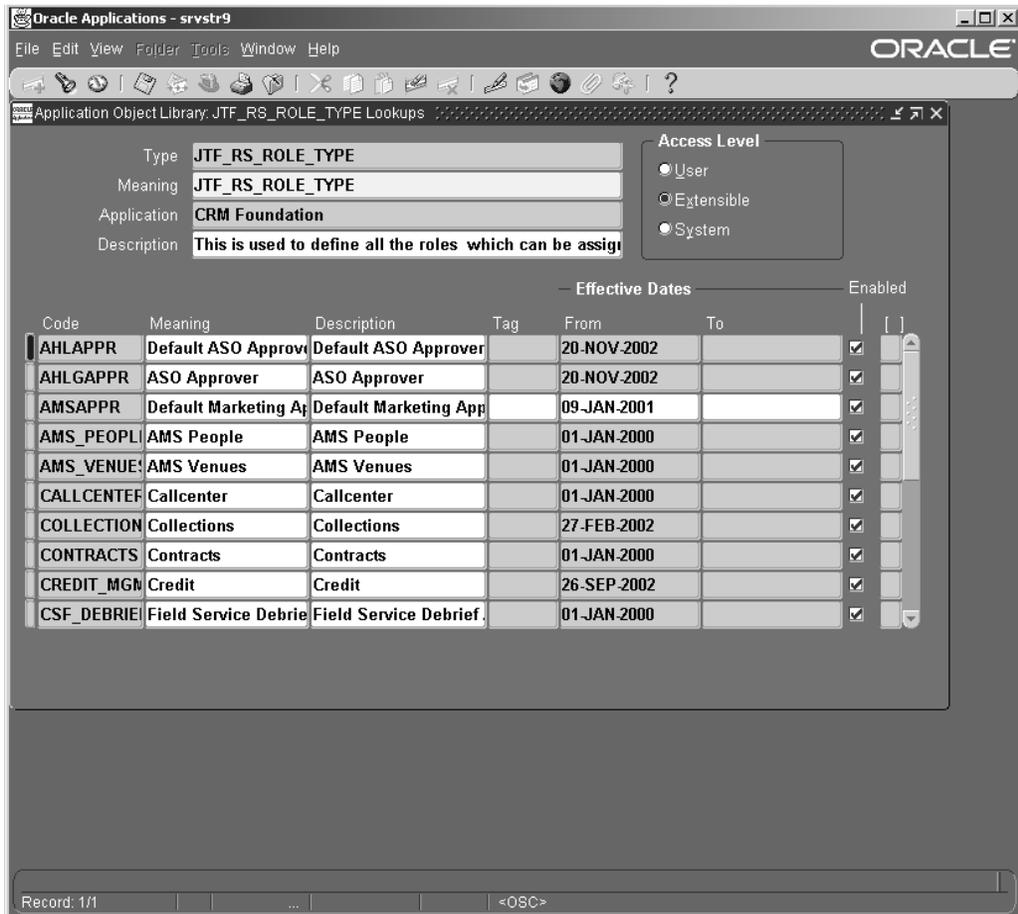
Default Approval Role

CMRO provides a seeded default approval rule that is used when no object specific approval rule is set up. The default approval rule is best used, when the same people in the same hierarchy will approve every CMRO object. In this case you only have to set up one rule with one approval sequence. The default approval rule has also one approval hierarchy with a seeded role defined.

To set up the Role for the Default Approval Rule:

1. Login to the forms environment of Oracle Applications. Select the CRM Resource Manager responsibility.
2. Navigate to Setup > Role Types.
3. Query for JTF_RS_ROLE_TYPE.
4. Create a role type code for the default approval role.

Application Object Library Window - Role Type Lookups



5. Navigate to Setup > Roles.
6. Create a role with the code AHL_DEFAULT_APPROVER.

Note: The code must be defined as described above otherwise the default rule will not recognize this role. The role name can be user defined.
7. Associate the default approval role type code to this role.

Roles Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Roles

Roles

Code: AHL_DEFAULT_APPROVER

Name: Default ASO Approver

Type: Default ASO Approver

Description: Default ASO Approver Role

Member Admin

Lead Manager

Active Seeded

Jobs

Name

Record: 1/1

<OSC>

8. Create additional roles if you need more than one level of approvals. The role codes can be user defined for every additional role used for the default approval rule.

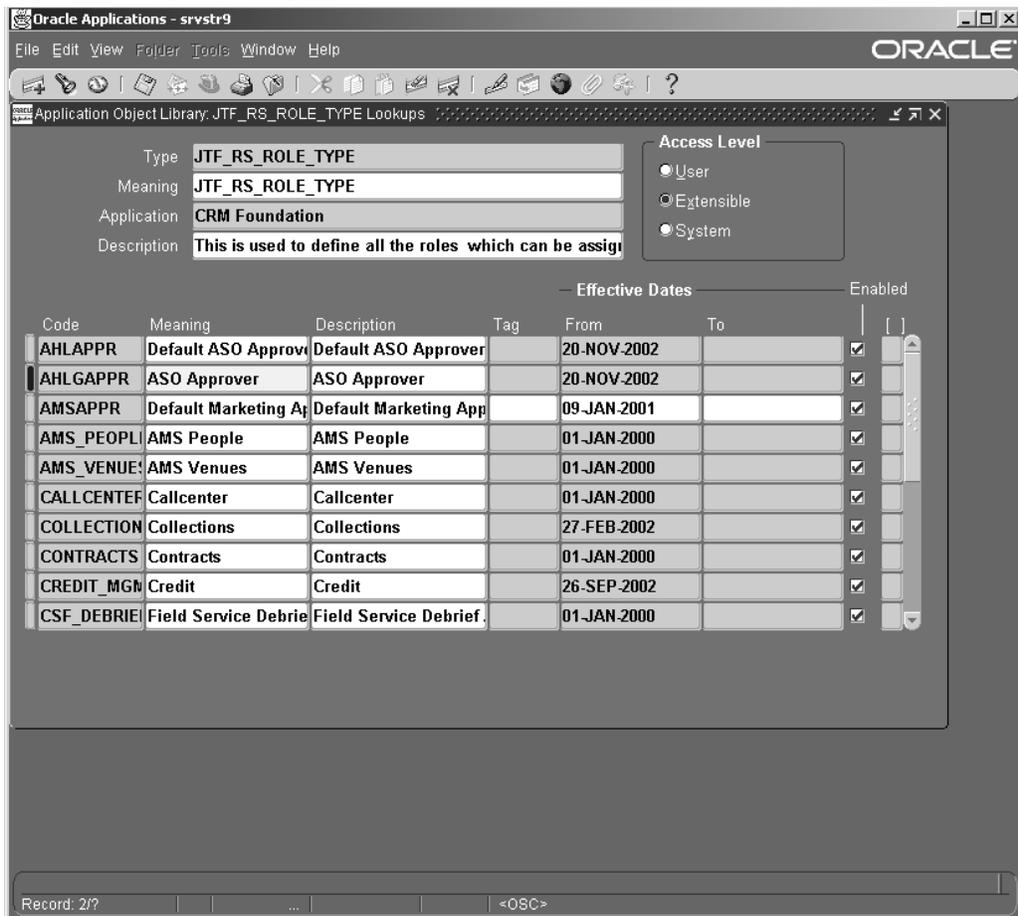
Note: For CMRO approval, only one user can be associated with a role, otherwise the approval workflow will fail. Therefore, you must create as many roles as you have approvers. The sequence of notification will be defined in the approval rule setup.

General Approval Role

Perform the following set up steps if you have specific approval rules for the different CMRO objects:

1. Login to the forms environment of Oracle Applications. From the Navigator, select CRM Resource Manager.
2. Navigate to Setup > Role Types.
3. Query for JTF_RS_ROLE_TYPE.
4. Create role type code(s) for the General Approval Role(s).

Application object Library Window



Note: You can create multiple role type codes for grouping the roles together but one is minimum.

5. Navigate to Setup > Roles. Create a role for every possible approver.
6. Associate the appropriate approval role type code to the roles.

Roles Window

Oracle Applications - srvstr9

File Edit View Folder Tools Window Help

ORACLE

Roles

Roles

Code Member Admin

Name Lead Manager

Type Active Seeded

Description []

Jobs

Name	[]

Record: 1/1 ... <OSC>

Importing resources

After you have created the employees and the roles, you must map the two together.

Note: As previously mentioned, only one employee can be assigned as a workflow approver. However, the same employee can be the designated approver for multiple roles.

To import resources:

1. From the CRM Resource Manager responsibility, navigate to Maintain Resources > Import Resources.
2. Select the approval employee. Click the Search button.
3. Click Create Resource. Select the appropriate role.
4. Click OK. Click Save Resource.

Selection Criterion Window

The screenshot shows two overlapping Oracle Applications windows. The top window is titled "Selection Criterion" and has a menu bar (File, Edit, View, Folder, Tools, Window, Help) and the Oracle logo. It contains a "Resource Category" dropdown set to "Employee". Below this are several input fields: "Number" (48), "Name" (Blank, Mr. Maurice A), "Organization" (empty), "Job Title" (empty), "Competencies" (empty), "Level: Max" (empty), "Min" (empty), "Scale" (empty), and "Scale Level" (empty). There are "Search" and "Clear" buttons. Below the search area is a "Search Results" table with columns: Select, Category, Number, Name, and Organization. The table contains one row with a checked checkbox, "Employee", "48", "Blank, Mr. Maurice A", and "U.S. Department of Defense".

The bottom window is titled "Default Values" and contains the following fields: "Start Date" (19-FEB-2004), "End Date" (empty), "Managing Employee" (empty), "Role" (ASO APPROVER), "Role Type" (ASO Approver), "Role Start Date" (19-FEB-2004), and "Role End Date" (empty). There are "Ok" and "Cancel" buttons.

At the bottom of the main window, there is a status bar with "Record: 1/1", a "List of Valu..." button, and "<OSC>" text.

5. If you want to associate the same employee with an additional role click Details. Add Roles.
6. Repeat steps 1 through 5 for every approval employee.

Creating Approval Rules in CMRO

As mentioned earlier you can either use the seeded default approval rule or specify an object specific approval rule for the different CMRO objects. In the approval details you can either pick a role that you have set up, or a user that has been created as an employee in HR, and is associated with an application login. The sequence in the approval details defines the approval hierarchy.

To adjust the Default Approval Rule:

1. Login to the jtf environment of CMRO.
2. Click on the Administration link. Click the Go button.
3. Click on the link 'Default AHL Rule'.
4. Add any additional roles or users to the approval details in the sequence you want your objects to be approved.

Note: The first role is seeded. You can either change the hierarchy or delete the seeded role if necessary.

Update Approval Rule Page

ORACLE
Oracle Complex MRO

Home Engineering Configuration Management Planning Administration Execution Profile Sign Out Help

Approvals User Status Workflow

Update Approval Rule

Approval Rule For: _____ Approval Type: _____ Cancel Apply

* Indicates required field

Approval Rule Info

* Approval Rule Name:

Operating Unit:

Priority:

* Start Date: End Date:

* Status:

Default AHL Approval Rule

Approver Details

If the current rule status is ACTIVE then at least one approver has to be defined for this rule

Select any Approver for removing Remove

Previous 1-1 of 1 Next

Select	* Order	Type	User Role
<input type="checkbox"/>	1	Role	

5. Click Apply.

Note: Do not add any values to the operating unit attribute. Custom values are currently not supported by Complex Maintenance, Repair, and Overhaul and would cause the workflow to fail. Also, you cannot change the status of the default rule once it is set to Obsolete.

To define Object Specific Approval Rule

To define approval rules with specific approval hierarchy:

1. Login to the jtf environment of CMRO.
2. Click on the Administration link.
3. Click the Create button.
4. Enter the Approval Rule Name.
5. Select Application Usage as Complex Maintenance, Repair, and Overhaul.
6. Select the required value from the Approval Rule For list box.

Create Approval Rule Page

ORACLE
Oracle Complex MRO

Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

Approvals Workflow Department Shift Spaces Space Unavailability

Create Approval Rule

Cancel Apply

* Indicates required field

Approval Rule Info

* Approval Rule Name

* Application Usage

* Approval Rule For

Operating Unit

* Start Date End Date

Description

Cancel Apply

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7. Do not add any values to the operating unit attribute. Click Apply.
8. Add roles or users to the approval details in the sequence in which you want your objects to be approved.
9. Select Active from the Status list of values.

Edit Rule - Update Approval Rule Page

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Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

Approvals Workflow Department Shift Spaces Space Unavailability

Update Approval Rule

Approval Rule For **Routes** Cancel Apply
Application Usage **Complex Maintenance Repair and Overhaul**

* Indicates required field

Approval Rule Info

* Approval Rule Name

Operating Unit

* Status

* Start Date

End Date

Description

Approver Details

If the current rule status is ACTIVE then at least one approver has to be defined for this rule

Select	* Order	Type	User Role
	<input type="text" value="1"/>	<input type="text" value="Role"/>	<input type="text" value="Advanced Service Online Di"/>
	<input type="text"/>	<input type="text" value="Role"/>	<input type="text"/>

10. Click Apply.

Workflow Process Mapping

The final step in the approval workflow set up is to map the object with a workflow. As previously mentioned, Oracle recommends that you use seeded workflow that is delivered with CMRO, however a user-defined workflow can be mapped to the CMRO object as well.

To map the workflow with the CMRO object:

1. Login to the jtf environment of CMRO.
2. Click on the Administration link.
3. Click the Workflow tab.
4. If you want to use the same workflow for all of your objects, leave the object field empty, otherwise choose the object, which you want to add from the drop-down list.
5. Define the desired workflow in the Process Name field. The CMRO default workflow is called ASO Generic Approval Process.

Workflow Process Mapping Page

ORACLE
Oracle Complex MRO

Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

Approvals Workflow Department Shift Spaces Space Unavailability

Workflow Process Mapping

Cancel Apply

Select any Workflow Mapping for removing Remove

Previous 1-10 of 10 Next

Select	Process Name	Application Usage	Object	Active
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Product Classification Workflow	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Operations	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Unit Configuration	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Route Notifications	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Maintenance Requirement	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Document Index	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Master Configuration	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Routes	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Master Configuration-Item Groups	Yes

6. Select Complex Maintenance, Repair, and Overhaul from the Application Usage drop-down list box.
7. Select Yes or No from the Active list box.
8. Click Apply.

The Approval Workflow

When a Maintenance Program, Activity or Route is sent for approval the user defined in the approval role is notified by e-mail, if it has been setup at employee creation, and/or with an entrance in the work list in Oracle Applications. From the notification, the user can navigate to the notification details and approve the program, activity or route. The workflow moves sequentially through all of the roles defined in the approval rules details until the last user has sent his approval. At this point the status of the approved object will be changed from 'Approval Pending' to 'Complete'.

Oracle CMRO Module Setup

Oracle Complex Maintenance, Repair, and Overhaul enables maintenance organizations to meet customer expectations, and draw maximum benefit by improving the operational readiness of equipment.

Oracle CMRO Module setup includes:

- Setting Up Document Index, page 2-95
- Setting Up Route Management, page 2-96
- Setting Up Master Configuration, page 2-102

- Setting Up Unit Configuration, page 2-103
- Setting Up Fleet Maintenance Program, page 2-105
- Setting Up Unit Maintenance Plan, page 2-107
- Setting Up Visit Work Package, page 2-109
- Setting Up Long Term Planning, page 2-111
- Setting Up Production, page 2-113
- Administrative Setup, page 2-116

Setting Up Document Index

The Document Index module in Oracle Complex Maintenance, Repair, and Overhaul is the central repository for managing all maintenance documents.

Maintenance personnel can:

- Access an online catalog of documents used in maintenance, repair, and overhaul operations
- Receive, distribute, and control revisions in technical documentation
- Search the database to quickly refer to a document
- Create new documents or document revisions
- Associate subtypes to document types for easy identification
- Upload electronic documents

Maintenance document management involves tracking documents and their revisions, validating document references from multiple levels of maintenance operations, and making them easily accessible to the maintenance personnel.

Setting up Document Index includes defining the lookup values as indicated below.

Note: Lookup codes fall within three categories: extensible, user defined, and system defined. If a lookup code is extensible, the existing lookup codes cannot be modified, but new codes can be added to the table. If lookup codes are user defined, all codes can be modified. If lookup codes are system defined, the existing codes cannot be modified, and new codes cannot be added to the table.

To define lookups for Document Index:

1. Login using the Application Developer Responsibility.
2. Navigate to the lookups window and define the lookups as indicated in the following table.

Attribute	Lookup	Suggested Values	Access Level
Operator	AHL_OPERATOR_TYPE	Operator, Owner(User defined)	User
Document Type	AHL_DOC_TYPE	Aircraft, Engine (User defined)	Extensible
Media Type	AHL_MEDIA_TYPE	E-File, CD-ROM, On-line, Paper	Extensible
Status	AHL_SUBSCRIBE_STATUS_TYPE	Active, Not available	User
Sub-Type	AHL_DOC_SUB_TYPE	Airworthiness Directives, Service Bulletin	User
Revision Type	AHL_REVISION_TYPE	Temporary Revision, Full Revision	User
Frequency Type	AHL_FREQUENCY_TYPE	Quarterly, Weekly, Yearly	User

Application Object Library Lookups Window

Application Object Library Lookups

Type: AHL_DOC_TYPE
Meaning: Document Type
Application: Complex Maintenance Repair and Overhaul
Description: Document Type

Access Level:
 User
 Extensible
 System

Effective Dates: _____ Enabled

Code	Meaning	Description	Tag	From	To	Enabled
AIRCRAFT	Aircraft	Aircraft		24-JAN-2002		<input checked="" type="checkbox"/>
COMPONENT	Component	Component		24-JAN-2002		<input checked="" type="checkbox"/>
ENGINE	Engine	Engine		24-JAN-2002		<input checked="" type="checkbox"/>
GROUND SUP	Ground Support Equ	Ground Support Equip		24-JAN-2002		<input checked="" type="checkbox"/>
LOCOMOTIVE	Locomotive	Locomotive		04-FEB-2002		<input checked="" type="checkbox"/>
MATERIAL C	Material Catalog	Material Catalog		24-JAN-2002		<input checked="" type="checkbox"/>
QUALITY ASS	Quality Assurance	Quality Assurance		04-FEB-2002		<input checked="" type="checkbox"/>
TANK	Tank	Tank		04-FEB-2002		<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Setting Up Route Management

The Route Management module in Oracle Complex Maintenance, Repair, and Overhaul provides a single interface for managing all maintenance tasks.

Maintenance personnel can:

- Prepare and maintain work instructions

- Search the database for a specific operation for reference purposes, or for editing purposes
- Create an operation or define instructions for carrying out a maintenance task
- Search for maintenance routes, for reference, or for editing route information
- Create a maintenance route
- Associate major and sub zones in a system to a product type to facilitate tracking of maintenance operations on complex electromechanical systems

The intuitive user interface of Oracle Complex Maintenance, Repair, and Overhaul is designed to enable maintenance personnel to handle operational needs as effortlessly and quickly as possible.

Before setting up Route management, you must ensure that:

- ASO Resource is set up
- BOM Resource is set up

Setting up Route Management includes:

- Defining Lookup values
- Setting up Flexfields

To define lookups for Route Management:

1. Login using the Application Developer Responsibility.
2. Navigate to the lookups window and define the lookups as indicated in the following table.

Attribute	Lookup	Suggested Values	Access Level
Operation Type	AHL_ROUTE_TYPE	Aircraft, Engine, Ground support	User
Major Zone	AHL_ZONE	Cargo Compartment, Cockpit	User
Sub Zone	AHL_SUB_ZONE	AFT Fuselage, Cabin	User
Status Type	AHL_SUBSCRIBE_STATUS_TYPE	Active, Available	User
Sub-Type	AHL_DOC_SUB_TY PE	AD, SB	User
Revision Type	AHL_REVISION_TY PE	Temporary, Full Version	User
Process	AHL_PROCESS_CODE	Access, Cleaning, Close	User

Defining Lookup: AHL_PROCESS_CODE

The screenshot shows the Oracle Applications interface for defining a lookup. The window title is 'Application Object Library Lookups'. The main form contains the following fields:

- Type: AHL_PROCESS_CODE
- Meaning: Process Code Type
- Application: Oracle Advanced Service Online
- Description: Process Code Type
- Access Level: User, Extensible, System

Below the form is a table with columns: Code, Meaning, Description, Tag, Effective Dates (From, To), and Enabled. The table contains the following data:

Code	Meaning	Description	Tag	From	To	Enabled
ACCESS	Access	Access		04-FEB-2002		<input checked="" type="checkbox"/>
AIR CONDITI	Air Conditioning	Air Conditioning		04-FEB-2002		<input checked="" type="checkbox"/>
CLEANING	Cleaning	Cleaning		04-FEB-2002		<input checked="" type="checkbox"/>
CLOSE	Close	Close		04-FEB-2002		<input checked="" type="checkbox"/>
COMMUNICA	Communication	Communication		04-FEB-2002		<input checked="" type="checkbox"/>
INITIAL INSP	Initial inspection	Initial inspection		04-FEB-2002		<input checked="" type="checkbox"/>
INSPECTION	Inspection	Inspection		04-FEB-2002		<input checked="" type="checkbox"/>
MODIFICATIO	Modification	Modification		04-FEB-2002		<input checked="" type="checkbox"/>
NAVIGATION	Navigation	Navigation		04-FEB-2002		<input checked="" type="checkbox"/>
PAINT	Paint	Paint		04-FEB-2002		<input checked="" type="checkbox"/>

At the bottom of the window, it shows 'Record: 1/1' and '<OSC>'.

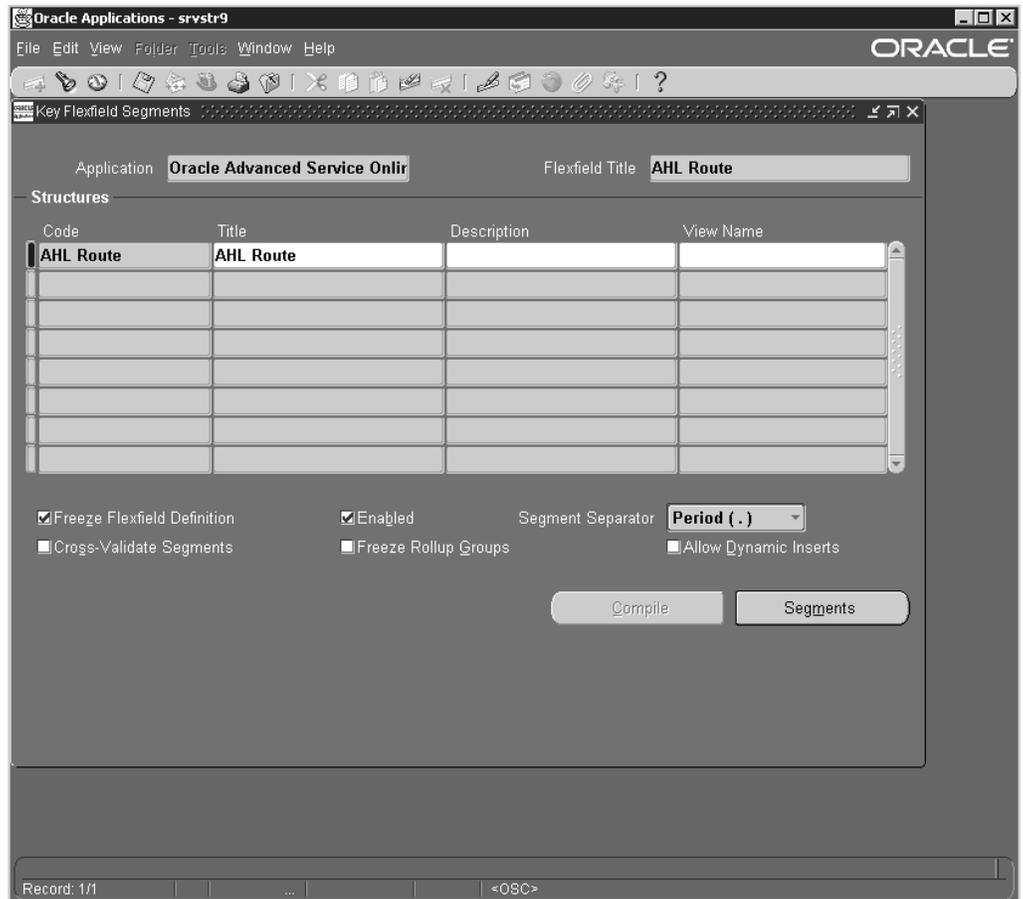
To set up Flexfields:

Validate Existence of Route Flexfield

Note: To enable Route Management, you must set up a key flexfield to define the System attribute.

1. Login into the forms environment with Application Developer Responsibility.
2. Navigate to Flexfield > Key > Segments.
3. Query for Flexfield Title 'AHL Route'. Query should return the record.

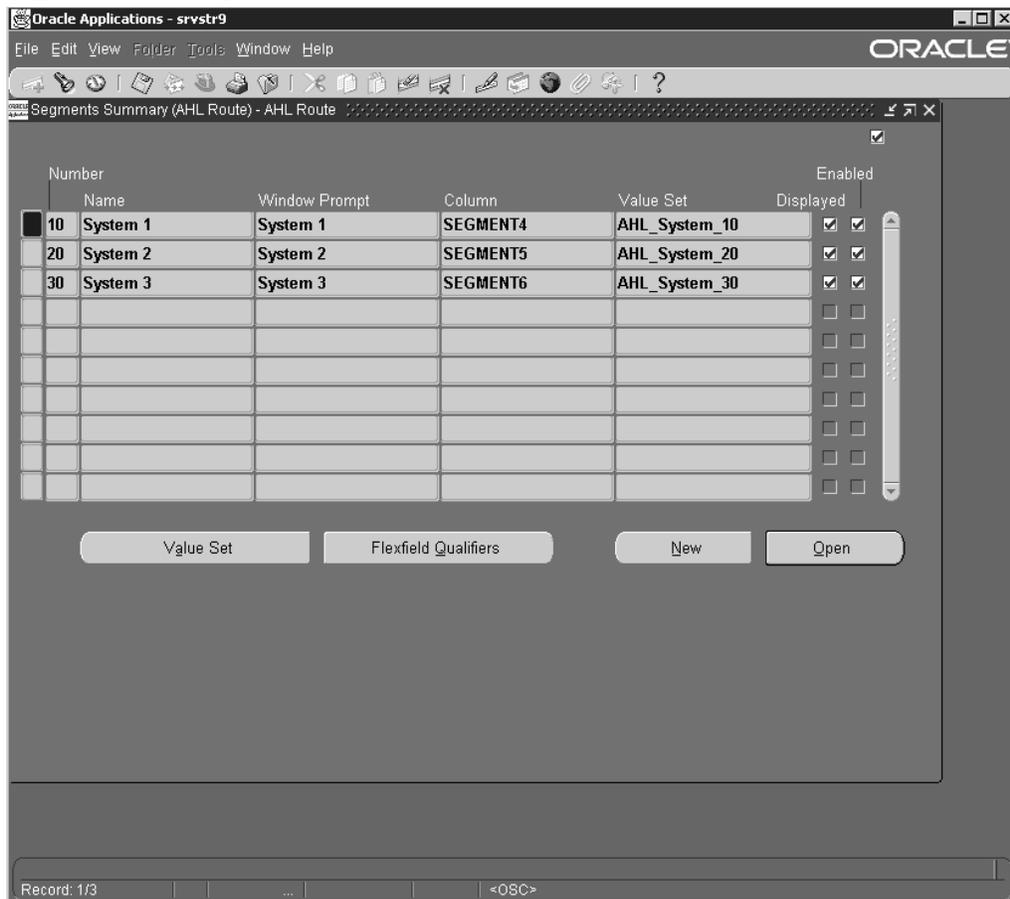
Key Flexfield Segments Window



Add segments to this flexfield

1. Click the Segments button.
2. Enter Records for System Flexfield Segment.

Segments Summary Window



Create Value Sets to be used by Flexfield Segments

1. Click the Value Set button.
2. Define Value Set Name.
3. Define List Type as 'List of Values'.
4. Define Security Type as 'No Security'.
5. Define Format Type as 'Char'.
6. Define Validation Type as 'Independent'.

Value Sets Window

The screenshot shows the Oracle Applications Value Sets window. The window title is "Oracle Applications - srvstr9". The menu bar includes "File", "Edit", "View", "Folder", "Tools", "Window", and "Help". The toolbar contains various icons for navigation and editing. The main content area is titled "Value Sets" and contains the following fields and options:

- Value Set Name:
- Description:
- List Type:
- Security Type:
- Format Validation**
 - Format Type:
 - Maximum Size:
 - Precision:
 - Numbers Only (0-9)
 - Uppercase Only (A-Z)
 - Right-justify and Zero-fill Numbers (0001)
 - Min Value:
 - Max Value:
- Value Validation**
 - Validation Type:
 -

At the bottom of the window, there is a status bar showing "Record: 1/1" and "<OSC>".

7. Update Flexfield Segments with the Value Sets.

Create values for Value Sets

1. Navigate to Flexfield > Key > Values.
2. Find the Value Sets for the System Flexfield.

Segment Values Window

Value	Translated Value	Description	Enabled	From	To	[]
21	21	Air Conditioning	<input checked="" type="checkbox"/>			
22	22	Auto Flight	<input checked="" type="checkbox"/>			
23	23	Communications	<input checked="" type="checkbox"/>			
24	24	Electrical Power	<input checked="" type="checkbox"/>			
25	25	Equipment / Furnishings	<input checked="" type="checkbox"/>			
26	26	Fire Protection	<input checked="" type="checkbox"/>			
27	27	Flight Controls	<input checked="" type="checkbox"/>			

3. Add the desired values to the value Set.

Setting Up Master Configuration

The Master Configuration module in Oracle CMRO provides models of electromechanical system assemblies. A master configuration model will form the basis of a unit in combination with business rules that specify the systems and subsystems that may be included in the assembled unit.

Maintenance personnel can:

- Search the database for master configurations of electromechanical system assemblies
- Create system assembly master configurations
- Search for alternate parts that may be used in place of specified components in an assembly

Before setting up Master Configuration, you must ensure that:

- Inventory (Item Master) set up is complete
- Approval Workflow is set up (This step is optional if the user selects the default approval workflow)

Setting up Master Configuration includes defining the lookup values as indicated below.

To define lookups for Master Configuration

1. Login using the Application Developer Responsibility.

- Navigate to the lookups window and define the lookups as indicated in the following table.

Attribute	Lookup	Suggested Values	Access Level
Rule code (Position ratio list)	AHL_COUNTER_RULE_TYPE	Bird Strike, Heavy Landing	User
Alternate Part Interchangeability Type	AHL_INTERCHANGE_ITEM_TYPE	1-Way, 2-Way, No Interchange, Superseded By	Extensible
Position reference	AHL_POSITION_REFERENCE	Forward, Inboard, Left, Lower, Outboard, Position 1, Position 2, Position 3, Right, and Upper	User

Defining Lookup: AHL_CONFIG_STATUS

Application Object Library Lookups

Type: AHL_COUNTER_RULE_TYPE
 Meaning: Counter Rule Type
 Application: Complex Maintenance Repair and Overhaul
 Description: Counter Rule Type

Access Level:
 User
 Extensible
 System

Effective Dates: From To Enabled

Code	Meaning	Description	Tag	From	To	Enabled
AFT BURN	After burner	After burner		04-FEB-2002		<input checked="" type="checkbox"/>
BIRD STRIKE	Bird strike	Bird strike		04-FEB-2002		<input checked="" type="checkbox"/>
HEAVY LAND	Heavy Landing	Heavy Landing		04-FEB-2002		<input checked="" type="checkbox"/>
HIGH ALTITU	High Altitude Takeof	High Altitude Takeoff		04-FEB-2002		<input checked="" type="checkbox"/>
STANDARD	Standard	Standard Counter Ru		20-JUN-2001		<input checked="" type="checkbox"/>
STANDARD C	Standard Counter Ru	Standard Counter Ru		04-FEB-2002		<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Setting Up Unit Configuration

The Unit Configuration module in Oracle Complex Maintenance, Repair, and Overhaul enables organizations to describe the structure of an assembled electromechanical system. The as-constructed configuration of an assembly will determine the specific maintenance program required to ensure the operational readiness of that unit.

Maintenance personnel can:

- Initiate proper maintenance activities to resolve issues
- Create unit configurations from existing master configurations
- Search for unit configuration records that exist in the database
- Add new part information to the database

- Search for, and update existing part information

The Unit Configuration module in Oracle CMRO is a key feature that enables maintenance organizations to determine services required. Even if two units have the same part number, or belong to the same product family, their configurations are normally different due to the operation and maintenance history of each unit. Unit Configuration provides models of individual tracked parts to support unit-specific information.

Before setting up Unit Configuration, you must ensure that Master configuration is set up and products are available for association at the unit level.

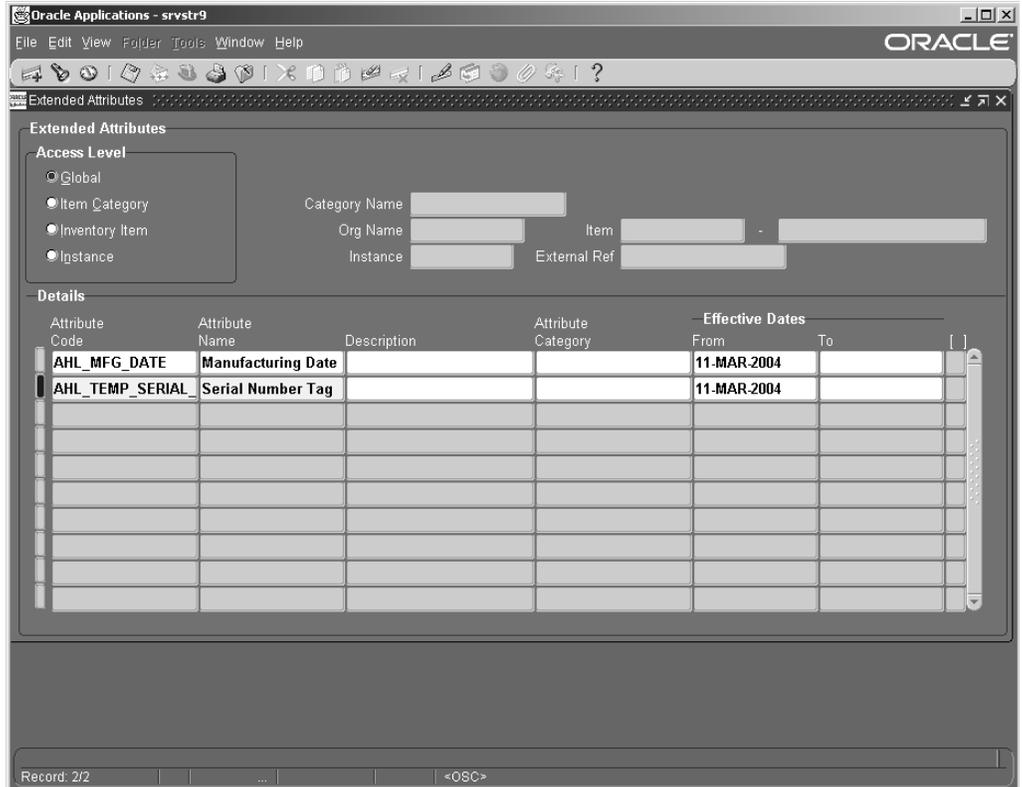
Setting up Unit Configuration includes setting up attributes as indicated below.

To set up attributes

1. Change responsibility to Oracle Install Base Admin.
2. From the Navigator, select Setups > Extended Attribute Template. The Extended Attributes window appears.
3. Set up the attributes as indicated in the table below.

Extended Attributes Window

Attribute Code	Attribute Name	Description
AHL_MFG_DATE	AHL_MFG_DATE	AHL_MFG_DATE
AHL_TEMP_SERIAL_NUM	AHL_TEMP_SERIAL_NUM	AHL_TEMP_SERIAL_NUM



4. Save your work.

Setting Up Fleet Maintenance Program

The Fleet Maintenance Program module in Oracle CMRO enables maintenance organizations to record, organize, and plan maintenance requirements. Maintenance planners can create maintenance requirement records and attach attributes to these records. The attributes attached to the record enables maintenance planning and increased operational efficiency while accomplishing a requirement.

Maintenance planners can:

- Search the database for a specific maintenance requirement for reference, or for editing purposes
- Create a maintenance requirement record in the database
- Attach documents, maintenance routes, actions, effectivities, and maintenance requirement relationships to the record
- Create revisions for maintenance requirements that are complete
- View items that are affected by a maintenance requirement

The Oracle CMRO Fleet Maintenance Program module serves as a repository for scheduled maintenance and associated information.

Before setting up Fleet Maintenance Program, you must ensure that:

- Lookup values are set up

- System profile options are set up in Oracle Application: Profile system value
- Route Management is set up
- Product Classification is set up
- Master Configuration is set up
- Unit Configuration is set up
- Set up ASO Visit Work Package

Setting up Fleet Maintenance Program includes defining the lookup values as indicated below.

To define lookups for Fleet Maintenance Program:

1. Login using the Application Developer Responsibility.
2. Navigate to the lookups window and query for the following lookups. Optionally, you can add values to these lookups as required.

Attribute	Lookup	Suggested Values	Access Level
Program Type	AHL_FMP_MR_PROGRAM_TYPE	Corrosion Prevention, Progressive Maintenance, Company Test, Phase Check, etc.	Extensible
Category	AHL_FMP_MR_CATEGORY	Power plant, airframe, component, ground equip., etc.	Extensible
Program Subtype	AHL_FMP_MR_PROGRAM_SUBTYPE	A, B, C	Extensible
Action	AHL_FMP_MR_ACTION	Email Test Results, Reset Overhaul Counter, Test	Extensible

Defining Lookup: AHL_FMP_REVISION_STATUS

Application Object Library Lookups

Type: **AHL_FMP_MR_CATEGORY**

Meaning: **Maintenance Requirement Category**

Application: **Complex Maintenance Repair and Overhaul**

Description: **Maintenance Requirement Category**

Access Level:
 User
 Extensible
 System

Effective Dates: From To Enabled

Code	Meaning	Description	Tag	From	To	Enabled
AIRFRAME	Airframe	Airframe		15-OCT-2002		<input checked="" type="checkbox"/>
COMPONENT	Component	Component		15-OCT-2002		<input checked="" type="checkbox"/>
GROUND SEF	Ground Service Equip	Ground Service Equip		15-OCT-2002		<input checked="" type="checkbox"/>
OFFICE EQUI	Office Equipment	Office Equipment		13-JUN-2003		<input checked="" type="checkbox"/>
POWERPLAN	Powerplant	Powerplant		15-OCT-2002		<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Setting Up Unit Maintenance Plan

The Unit Maintenance Plan module in Oracle Complex Maintenance, Repair, and Overhaul ensures that all maintenance requirements are met on or prior to their due date. It also provides demand estimates over a planning time window by forecasting the due date of maintenance requirements associated with a unit. It searches and displays maintenance requirements that are due for an equipment unit and provides maintenance personnel instant access to maintenance requirements, due date estimation, accomplishment history, and planning information for a unit configuration.

Maintenance personnel can:

- Maintain utilization forecasts
- View the serviceable time remaining of a unit
- Model repetitive maintenance requirements over a specified time period
- Calculate the due dates of maintenance requirements
- Associate maintenance requirements to a visit

Unit Maintenance Plan serves as a repository of the maintenance requirements related to units and any related subassemblies or components. It also enables forecasting of usage to determine due dates for fleet maintenance activities.

Before setting up Unit Maintenance Plan, you must ensure that:

- Look up value is set up in Oracle Application
- System profile is set up in Oracle Application: Profile system value
- Product Classification is set up
- Master Configuration is set up
- Unit Configuration is set up

- Set up CMRO Visit Work Package

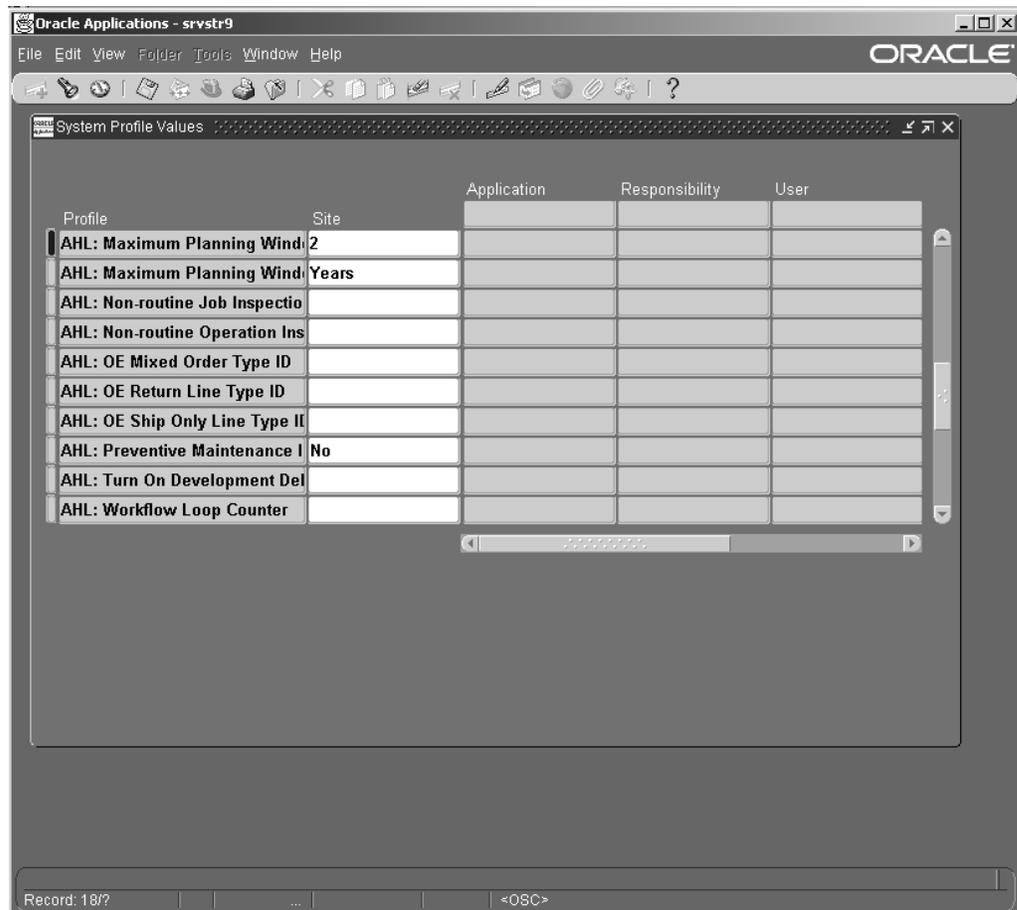
Setting up Unit Maintenance Plan includes:

- Setting up System Profile options

To set up the System Profile Options:

1. Login using the System Administrator responsibility. Navigate to the System Profile Values window.
2. Set up the following System Profiles:
 - AHL: Maximum Planning Window (Number)
 - AHL: Maximum Planning Window (UOM)

System Profile Values Window



These profile options determine the period that is taken into account when calculating the due date and repetitive MR in Unit Maintenance Plan. For example, the user may set the following values for the profile options:

AHL: Maximum Planning Window (Number) = 2

AHL: Maximum Planning Window (UOM) = Years

This means that the rolling planning windows in Unit Maintenance Plan (UMP) is two years. The concurrent program used to calculate the due date and repetitive MR will calculate all due dates within two years starting from calculation date (current date).

Concurrent Program Setup

Program: Building Unit Effectivities

Short Name: AHLUEFF

Application: Oracle Complex MRO

Description: Building Unit Effectivities

Setting Up Visit Work Package

The Visit Work Package module provides planning capabilities including creation, organization, and scheduling of maintenance visits based on maintenance requirements. It allows creation and management of visit templates based on equipment types enabling efficient visit package creation for equipment units of a type. The Visit Work Package permits association of tasks with visits and visit templates, and definition of task hierarchy and cost structure.

Maintenance planners can:

- Create maintenance visit records, new, or from a template
- Search for, retrieve, and update existing visit records
- Associate tasks with visits: planned tasks, tasks that are required but not scheduled, and ad hoc tasks that are not associated with maintenance routes
- Search for, retrieve, and update tasks associated with a visit
- Create visit templates, new, or from an existing visit record
- Search for, retrieve, and update existing visit templates
- Search for, retrieve, and update visit template tasks
- Create shift schedules for department workers based on planned visits
- Search for and retrieve existing department shifts

Visit Work Package enables maintenance planners to organize a maintenance visit execution for an equipment unit.

Before setting up Visit Work Package (VWP), you must:

- Verify Projects (VWP exports visit objects to Oracle Projects)
- Verify HRMS (VWP uses HR's organization information)
- Verify Installed base (VWP uses IB's item instance information about maintainable assets)
- Verify Inventory (VWP uses Inventory's information to describe maintainable asset types)
- Verify Support (VWP associates Service Requests with maintenance visit tasks)
- Verify Unit Maintenance Plan (associates UMP MR to VWP)
- Verify Fleet Maintenance Program

- Create Project Template

Setting up Visit Work Package includes:

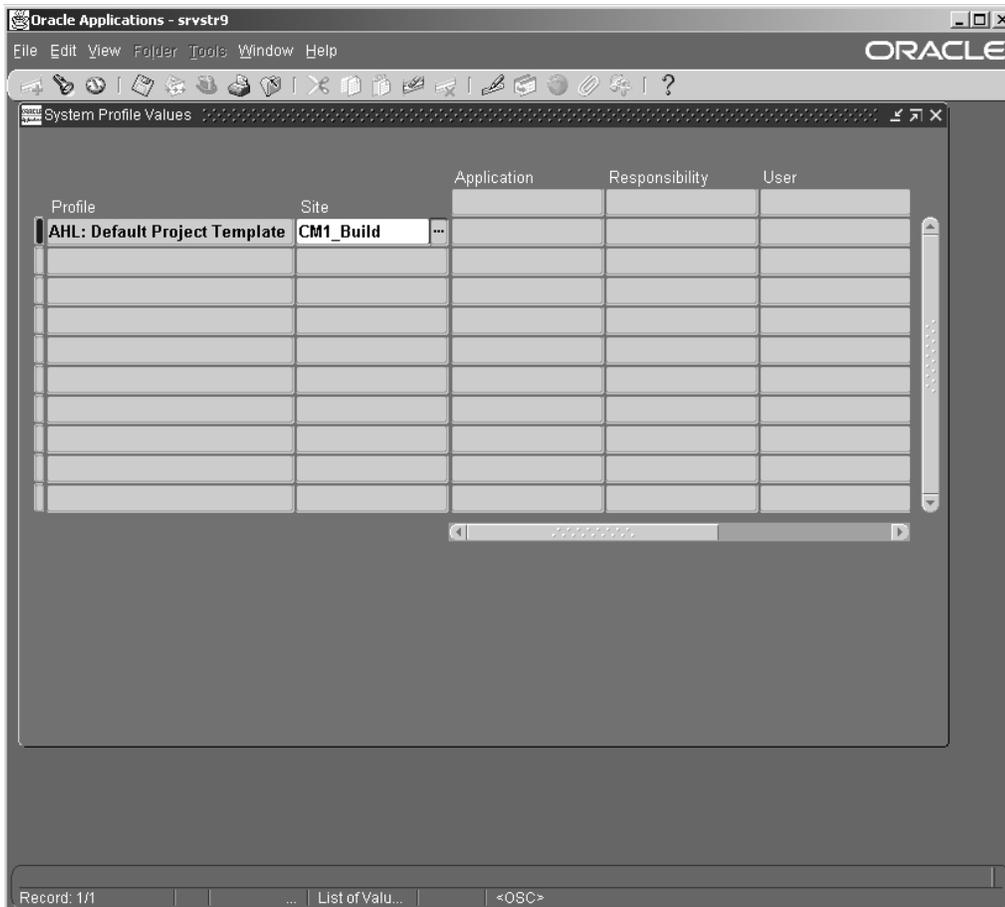
- Setting up System Profile Options
- Defining lookups

To set up System Profile Options:

1. Login using the System Administrator responsibility. Navigate to the System Profile Values window.
2. Set up System Profile Option:

AHL: Default Project Template ID (Name of the Project template that will be used as default)

System Profile Value - AHL: Default Project Template



To define lookups for Visit Work Package:

1. Change responsibility to Application Developer.
2. Navigate to the lookups window and define the lookups as indicated in the following table.

Attribute	Lookup	Suggested Values	Access Level
Visit Type	AHL_PLANNING_VISIT_TYPE	A-Check, B-Check, C-Check	User
Category	AHL_LTP_SPACE_CATEGORY	Category 1, Category 2...	Extensible
Hour List	AHL_VWP_HOURS	00, 01...	User

Defining Lookup: AHL_VWP_VISIT_STATUS

Application Object Library Lookups

Type: AHL_LTP_SPACE_CATEGORY
Meaning: Space Category
Application: Complex Maintenance Repair and Overhaul
Description: Space Category

Access Level:
 User
 Extensible
 System

Code	Meaning	Description	Tag	From	To	Enabled
1	Category 1	Category 1		12-APR-2002		<input checked="" type="checkbox"/>
2	Category 2	Category 2		12-APR-2002		<input checked="" type="checkbox"/>
3	Category 3	Category 3		12-APR-2002		<input checked="" type="checkbox"/>
4	Category 4	Category 4		12-APR-2002		<input checked="" type="checkbox"/>
5	Category 5	Category 5		12-APR-2002		<input checked="" type="checkbox"/>
6	Category 6	Category 6		12-APR-2002		<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Setting Up Long Term Planning

The Long Term Planning module is used by a maintenance planner to plan maintenance requirements for visits based on the optimal use of maintenance resources. Maintenance planners using Long Term Plan make a complete assessment of the resources available at all maintenance locations. The planner can schedule maintenance visits, assess capacity and reserve required materials.

Maintenance personnel can:

- Assess Maintenance Workload Capacity by analysis of available labor by skill, level and certification, available tools, materials, and location capabilities balanced against known workloads
- Create a Visit in order to group events together for long and short term capacity planning, and to facilitate scheduling to a maintenance base
- Define a Visit's Resource Requirements to allow accurate scheduling and capacity planning
- Analyze capacity versus work load requirements

- Run simulations in order to evaluate different scheduling scenarios before implementing actual plan changes

Long Term Plan maximizes maintenance scheduling by balancing maintenance requirements with available maintenance capacity. The maintenance planner is able to do this by balancing forecasted maintenance requirement information from Unit Maintenance Plan against projected maintenance capacity.

Setting up Long Term Planning includes defining the lookup values as indicated below.

To define lookups for Long Term Planning

1. Login using the Application Developer Responsibility.
2. Navigate to the lookups window and define the lookups as indicated in the following table.

Attribute	Lookup	Suggested Values	Access Level
Category	AHL_LTP_SPACE_CATEGORY	Category 1, Category 2...	Extensible
Display Only	AHL_LTP_VISITS_DISPLAY_ONLY	Scheduled, Unscheduled	Extensible
Status	AHL_LTP_SPACE_STATUS	Inactive, Active	Extensible
Visit Type	AHL_PLANNING_VISIT_TYPE	A-Check, B-Check, C-Check	User

Defining Lookup: AHL_LTO_SPACE_CATEGORY

The screenshot shows the 'Application Object Library Lookups' window. The configuration for the 'AHL_LTO_SPACE_CATEGORY' lookup is as follows:

- Type: AHL_LTP_VISITS_DISPLAY_ONLY
- Meaning: Visits Display Only
- Application: Complex Maintenance Repair and Overhaul
- Description: Visits Display Only
- Access Level: Extensible

The 'Effective Dates' table is as follows:

Code	Meaning	Description	Tag	From	To	Enabled
0	Scheduled Visits	Scheduled Visits		22-MAY-2002		<input checked="" type="checkbox"/>
1	Unscheduled Visits	Unscheduled Visits		22-MAY-2002		<input checked="" type="checkbox"/>
2	Visits with conflicting	Visits with conflicting		19-MAY-2003		<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"/>

Setting Up Production

The Production module enables the execution of routine and non-routine tasks and associated with a Visit. It also supports the execution of tasks against an Install Base Tracked Item.

Maintenance personnel can:

- Search for Routine and Non-Routine Jobs using filtered search elements
- Create Jobs from visit tasks for Scheduled, Unscheduled, and Convenience maintenance
- Create Service Requests to track reported problems when an item has a service difficulty
- Create Operations to Non-Routine Jobs for work definition and tracking
- Maintain jobs by adjusting the schedule, the status, completing, deferring, and selecting the actual start and end for a job
- Maintain operations by updating the operations, adding, removing, or updating the material and resource requirements
- Maintain Quality using Route setup from Route Management for Job and Operation compliance

Maintenance schedulers can create jobs, initiate service for material and parts change transactions, and perform job operation maintenance.

Setting up Production includes:

- Setting up System Profile Options
- Defining Lookups

To set up System Profile Options:

1. Login using the System Administrator responsibility. Navigate to the System Profile Values window.
2. Set up System Profile Options as described in the table below.

Profile	Site(Value)	Description
AHL: Job Deferral Inspection Type	Deferral Approval	The Quality plan inspection type used for Production Job deferrals
AHL: MRB Disposition Inspection	MRB Approval Required	The Quality plan inspection type used when a tracked item is returned an MRB subinventory
AHL: Material Status - MRB	Active/Non-Active	The status that triggers the Quality inspection requirement for MRB and a service request creation, when an tracked item is being returned in the condition associated with this status to a subinventory with the status associated
AHL: Material Status - Serviceable	Active	The status indicating a serviceable item. This status is used to ensure that installed items meet the condition associated with this status and are issued from a subinventory with this status associated
AHL: Material Status - Unserviceable	Active	The status that triggers the Service Request creation, when a tracked item is being returned in the condition associated with this status to a subinventory with the status associated
AHL: Non-routine Operation Inspection	-	Used to determine if non-routine operation required inspection
AHL: OE Mixed Order Type ID	P -Mixed	Order type to create a OSP order
AHL: OE Return Line ID	P- Return	Line type to create a OSP order
AHL: OE Ship Only Line Type ID	P- Standard	Line type to create a OSP standard only ship line
AHL: Validate Alternate Items	Yes/No	Enabled/disable organization validation on alternate items for UC

System Profile Values

Profile	Site	Application	Responsibility	User
AHL: Job Deferral Inspection Ty	Deferral Approval			
AHL: MRB Disposition Inspectio	MRB Approval Req			
AHL: Material Status - MRB	Active			
AHL: Material Status - Servicab	Active			
AHL: Material Status - Unservic	Active			
AHL: Maximum Planning Wind	2			
AHL: Maximum Planning Wind	Years			
AHL: Non-routine Job Inspectio				
AHL: Non-routine Operation Ins				
AHL: OE Mixed Order Type ID	Mixed			

To define lookups for Production:

1. Change responsibility to Application Developer.
2. Navigate to the lookups window and define the lookups as indicated in the following table.

Attribute	Lookup	Suggested Values	Access Level
Display Only	AHL_LTP_VISITS_DISPLAY_ONLY	Scheduled, Unscheduled	Extensible
Status	AHL_LTP_SPACE_STATUS	Inactive, Active	Extensible
Visit Type	AHL_PLANNING_VISIT_TYPE	A-Check, B-Check, C-Check	User

Defining Lookup: AHL_JOB_STATUS

Code	Meaning	Description	Tag	From	To	Enabled
N	Inactive	Inactive		12-APR-2002		<input checked="" type="checkbox"/>
Y	Active	Active		12-APR-2002		<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"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Administrative Setup

Through the Administration link, you can manage administrative functions related to the Visit Work Package and Long Term Planning modules.

Users can:

- Create department shifts
- Define maintenance spaces and determine space unavailability

Department shifts are created to define the working hours of a maintenance department. These shifts are used to calculate the start time of the tasks in a scheduled visit.

To set up department shifts:

1. From the Manufacturing and Distribution Manager responsibility, navigate to Oracle Bills of Material > Setup > Calendars. The Workday Calendar window appears. Define a BOM calendar.

Workday Calendar window

The screenshot shows the 'Workday Calendar' window with the following configuration:

- Name: **Vision01**
- Description: **Vision 01**
- Quarterly Type: **4/4/5 Week Pattern**
- Calendar Date Range:
 - From: **02-JAN-1995** (Day: **Monday**)
 - To: **31-DEC-2008** (Day: **Wednesday**)

Buttons at the bottom: **Workday Pattern**, **Shifts**, **Dates**.

2. Click Shifts to define shifts for the calendar.

Defining shifts for the calendar - Shifts window

The screenshot shows the 'Shifts - Vision01' window with a table of shifts:

Shift Num	Description
1	Normal daily shift
2	Normal night shift
3	Normal late night shift
4	16 hour shift

Buttons at the bottom: **Workday Pattern**, **Times**, **Dates**.

3. Click Workday Pattern to navigate to the Shift Workday Patterns window. Enter the workdays for the shift.

Defining Workday Patterns - Shift Workday Patterns window

The screenshot shows a window titled "Shift Workday Patterns - Vision01, 1". Below the title bar, there is a label "- Days" and a checked checkbox. A table is displayed with the following columns: "Seq", "On", "Off", and "Description". The first row of the table contains the values "1", "5", "2", and "Default Workday Pattern". There are several empty rows below the first one, and a vertical scrollbar is visible on the right side of the table.

Seq	On	Off	Description
1	5	2	Default Workday Pattern

The Calendar, Shift Number and Workdays defined will be available for selection in the corresponding list of values when creating department shifts in the Oracle CMRO application. For information on creating department shift records, refer to the *Oracle Complex Maintenance, Repair, and Overhaul User's Guide*.

Windows and Navigation Paths

This appendix covers the following topics:

- Windows and Navigation Paths
- Default Navigation Paths for Standard Application Windows

Windows and Navigation Paths

This appendix provides the default navigator paths for the windows used in the Oracle Complex Maintenance, Repair, and Overhaul (CMRO). The following table provides the default navigation paths. Brackets [] indicate a button.

Default Navigation Paths for Standard Application Windows

Window Name	Navigation Path
Accounting Information	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Inventory Organization > Others > Accounting Information
Additional Organization Information	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Organizations > HR Organization > Others
Application Object Library Lookups	Application Developer: Application > Lookups > Application Object Library
Application Object Library: JTF_RS_ROLE_TY PE Lookups	CRM Resource Manager: Setup > Role Types
Approval Groups	Manufacturing and Distribution Manager: Purchasing > Setup > Approvals > Approval Groups
Buyers	Manufacturing and Distribution Manager: Purchasing > Setup > Personnel > Buyers
Category Sets	Enterprise Asset Management: Set up > Category > Category Sets

Window Name	Navigation Path
Collection Elements	Manufacturing and Distribution Manager: Quality > Setup > Collection Elements
Collection Plans	Manufacturing and Distribution Manager: Quality > Setup > Collection Plans
Department Classes	Manufacturing and Distribution Manager: Bill of Materials > Setup > Department Classes
Department Subinventories	Warehouse Manager Mgmt Super User: Setup > Warehouse Configuration > Resources > Associate Departments & Subinventories
Departments	Manufacturing and Distribution Manager: Bill of Materials > Routings > Department
Enterprise Asset Managment Parameters	Enterprise Asset Management: Setup > Parameters
Exp Org Defaults	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Project Expenditure/Event Organization > Others
Find Buyer	Contract Manager: Setup > Others > Buyer > Buyer
Find Categories	Enterprise Asset Management: Set up > Category > Category Codes
Find Organization window	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Organizations
Find System Profile Values	System Administrator > Profile > System
Find/Enter Customers	Manufacturing and Distribution Manager: Order Management: Customers > Standard
Installed Parameters	Oracle Installed BaseAdmin > Setup > Install Parameters
Instance Statuses	Oracle Installed BaseAdmin > Setup > Instance Statuses
Inventory Accounting Periods	Manufacturing and Distribution Manager: Inventory > Accounting Close Cycle > Inventory Accounting Periods
Key Flexfields Segments	Application Developer: Flexfield > Key > Segments
Master Item	Manufacturing and Distribution Manager: Inventory > Items > Master Items

Window Name	Navigation Path
Material Status Definition	Warehouse Manager Mgmt Super User: Setup > Transaction Setup > Inventory Transactions > Material Status
Open and Close Periods	Manufacturing and Distribution Manager: Purchasing > Financial > Accounting > Open and close periods
Oracle Manufacturing Lookups	Enterprise Asset Management: Setup > Lookup
Organization Parameters	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Inventory Organization > Others > Inventory Information
Parent Organization	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Organizations > HR Organization > Others > Parent organization
Personal Profile Values	Application Developer > Other > Profile
Processing Constraints	Manufacturing and Distribution Manager: Order Management > Set Up > Rules > Security > Processing Constraints
Project Manufacturing Parameters	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Project Manufacturing Organization > Others
Project Parameters	Manufacturing and Distribution Manager: Project > Project Definitions > Project Parameters
Project Type Class Information	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > Project Task Owning Organization > Others > Project Type Class Information
Resources	Manufacturing and Distribution Manager: Bill of Materials > Routings > Resources
Roles	CRM Resource Manager: Setup > Roles
Search Approval Rules	Advanced Service Online User: Administration > Approvals
Segment Values	Application Developer: Flexfield > Key > Values
Selection Criterion	CRM Resource Manager: Maintain Resources > Import Resources
Service Request Severities	Customer Support: Setup > Service Request > Request Severities

Window Name	Navigation Path
Service Request Statuses	Customer Support: Setup > Service Request > Request Status
Service Request Types	Customer Support: Setup > Service Request > Request Types
Setup Counters	Field Service Manager : Field Service Set Up > Counters > Define Counters
Subinventories	Manufacturing and Distribution Manager: Inventory > Setup > Organization > Subinventories
Subinventories Summary	Warehouse Manager Mgmt Super User: Setup > Warehouse Configuration > Warehouse > Subinventories
Suppliers	Contract Manager: Setup > Others > Supplier > Entry
WIP Accounting Classes	Enterprise Asset Management: Setup > WIP > WIP Accounting Classes
WIP Accounting Classes	Manufacturing and Distribution Manager: WIP > Setup > WIP Accounting Class
Work in Process Parameters	Manufacturing and Distribution Manager: Inventory > Setup > Organizations > WIP Organization > Others
Workflow Process Mapping	Advanced Service Online User: Administration > Workflow

