

Oracle® Complex Maintenance, Repair, and Overhaul

Process Guide

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Oracle Complex Maintenance, Repair, and Overhaul Process Guide, Release 12.2

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Primary Author: Eary Simmons

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Contents

Send Us Your Comments

Preface

Part 1 Overview of Oracle Complex Maintenance, Repair and Overhaul

1 Overview of CMRO Features

Overview of Oracle Complex Maintenance, Repair, and Overhaul.....	1-1
Oracle Supply Chain Planning.....	1-2
Auto Visit Forecasting and Packaging.....	1-4
Aircraft Maintenance Planning.....	1-5
Complex Assembly Maintenance.....	1-5
Component Maintenance.....	1-6
Visit Work Planning.....	1-7
Fleet Associations and Simulations.....	1-8
Non Routine Analysis and Maintenance Requirement Profiles.....	1-9
Service Bulletin Effectivity.....	1-9
Oracle Production Scheduling Integration.....	1-10
Supplier Warranty.....	1-10
Projects Integration Enhancements.....	1-11
FAA Compliance Reports.....	1-13
Enigma 3C Integration.....	1-13

Part 2 Processes

2 CMRO Responsibilities and Business Types

CMRO Seeded Responsibilities.....	2-1
Overview of CMRO Business Types.....	2-2
Aircraft Operator.....	2-3
Heavy Maintenance.....	2-4
Complex Assembly Maintenance.....	2-5
Component Shop.....	2-6

3 CMRO Roles, Tasks, and Processes

Overview of CMRO Roles, Tasks, and Processes.....	3-2
Role 1.0 - Strategic Operations Planner.....	3-3
Role 2.0 - Maintenance Controller (MCC).....	3-12
Role 3.0 - Local Maintenance Planner.....	3-43
Role 4.0 - Reliability Engineer.....	3-63
Role 5.0 - Technical Services - Document Manager.....	3-63
Role 6.0 - Technical Services - Configuration Engineer.....	3-67
Role 7.0 - Engineering - Engineer.....	3-75
Role 8.0 - Warranty Administrator/Analyst.....	3-87
Role 9.0 - Maintenance Records - Data Clerk.....	3-109
Role 10.0 - Line Maintenance Supervisor.....	3-126
Role 11.0 - Line Maintenance Technician.....	3-129
Role 12.0 - AOG Planner.....	3-133
Role 13.0 - Material Clerk (Issues>Returns).....	3-142
Role 14.0 - Heavy Maintenance Planner.....	3-144
Role 15.0 - Heavy Maintenance Supervisor.....	3-170
Role 16.0 - Crew Lead.....	3-171
Role 17.0 - Heavy Maintenance Technician.....	3-172
Role 18.0 - Aircraft Inspector.....	3-173
Role 19.0 - Marshaller.....	3-180
Role 20.0 - OSP Planner/Clerk.....	3-191
Role 21.0 - Complex Assembly Maintenance Planner.....	3-197
Role 22.0 - Shop Maintenance Supervisor.....	3-227
Role 23.0 - Shop Inspector.....	3-229
Role 24.0 - Component Shop Planner.....	3-233

Part 3 Administration

4 FAA Compliance Reports

Using Compliance Reports.....	4-1
Assembly Bills of Material Report.....	4-3
Component Removal Forecast Report.....	4-6
Part Number Status Report.....	4-8
Unit Serial Numbers Report.....	4-11
Component Removal/Installation History Report.....	4-13
Component Maintenance Status Report.....	4-15
Aircraft Maintenance Status Report.....	4-18
Maintenance Requirement Information Details and Status Report.....	4-20

A Windows and Navigation Paths

Windows and Navigation Paths.....	A-1
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Index

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Oracle Complex Maintenance, Repair, and Overhaul Process Guide, Release 12.2

Part No. E49035-02

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- Did you understand the context of the procedures?
- Did you find any errors in the information?
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Preface

Intended Audience

Welcome to Release 12.2 of the *Oracle Complex Maintenance, Repair, and Overhaul Process Guide*.

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

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

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Structure

- 1 Overview of CMRO Features**
- 2 CMRO Responsibilities and Business Types**
- 3 CMRO Roles, Tasks, and Processes**
- 4 FAA Compliance Reports**
- A Windows and Navigation Paths**

Related Information Sources

Integration Repository

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

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

You can navigate to the Oracle Integration Repository through Oracle E-Business Suite Integrated SOA Gateway.

Oracle Installed Base User's Guide

This guide provides an introduction to the concepts, and explains how to navigate the system, enter data, and query information in the Oracle Installed Base interface that forms part of Oracle Complex Maintenance, Repair, and Overhaul.

Oracle Complex Maintenance, Repair, and Overhaul Implementation Guide

Use this guide to set up Oracle Complex Maintenance, Repair, and Overhaul.

Oracle Customer Support Implementation Guide

This guide describes how to set up the list of values that you see in Oracle Customer Support. Oracle's service solution provides everyone in the organization - with a complete, real-time customer view that allows for the immediate access to information on past interactions with the customer, and also provides agents with knowledge of possible solutions to speed issue resolution. Additionally, the solution empowers customers to solve their own issues using a self-service portal with access to the same knowledge base that agents utilize for quick resolution.

Oracle Demand Planning User's Guide

This guide describes how to use Oracle Demand Planning, an internet-based solution to create and manage forecasts.

Oracle Quality User's Guide

This guide describes how Oracle Quality can be used to meet your quality data

collection and analysis needs. This guide also explains how Oracle Quality integrates with other Oracle Manufacturing applications to provide a closed loop quality control system.

Oracle Service Contracts Concepts and Procedures

This guide contains the information that you need to implement and use Oracle Service Contracts.

Oracle Procurement Contracts Implementation and Administration Guide

This guide contains the information that you need to implement and administer Oracle Procurement Contracts.

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

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

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

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

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

Part 1

Overview of Oracle Complex Maintenance, Repair and Overhaul

Overview of CMRO Features

This chapter covers the following topics:

- Overview of Oracle Complex Maintenance, Repair, and Overhaul
- Oracle Supply Chain Planning
- Auto Visit Forecasting and Packaging
- Aircraft Maintenance Planning
- Complex Assembly Maintenance
- Component Maintenance
- Visit Work Planning
- Fleet Associations and Simulations
- Non Routine Analysis and Maintenance Requirement Profiles
- Service Bulletin Effectivity
- Oracle Production Scheduling Integration
- Supplier Warranty
- Projects Integration Enhancements
- FAA Compliance Reports
- Enigma 3C Integration

Overview of Oracle Complex Maintenance, Repair, and Overhaul

Oracle Complex Maintenance, Repair, and Overhaul (CMRO) is an integrated, web-enabled, software application suite designed for complex equipment maintenance organizations. It supports typical 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.

You can view maintenance practice improvement opportunities, and opportunities to improve fleet readiness. The application provides models for electromechanical systems and defines rules for assembling units. You can record unit-specific information, enabling quick access to the maintenance history of a product component. It provides maintenance organizations a means to reduce operational costs, and thereby to yield improved profitability.

This chapter discusses the following features:

- Oracle Supply Chain Planning, page 1-2
- Automatic Visit Forecasting and Packaging, page 1-4
- Aircraft Maintenance Planning, page 1-5
- Component Assembly Maintenance Assembly, page 1-5
- Component Maintenance, page 1-6
- Visit Work Planning, page 1-7
- Fleet Associations and Simulations, page 1-8
- Non Routine Analysis and Maintenance Requirement Profiles, page 1-9
- Service Bulletin Effectivity, page 1-9
- Oracle Production Scheduling Integration, page 1-10
- Supplier Warranty, page 1-10
- Projects Integration Enhancements, page 1-11
- FAA Compliance Reports, page 1-13
- Enigma 3C Integration, page 1-13

Oracle Supply Chain Planning

Oracle CMRO includes intelligent processing and direct input to Oracle Value Chain Planning (VCP) suite of products. This integration enables a more complete and intelligent processing of forecasted, planned, and consumed materials. This integration will comprehensively increase the accuracy in planning, stocking, and budgeting the materials needed in the aviation maintenance space.

CMRO involves the tracking of serialized items and assemblies for their complete service life. Some of the types of information collected for these items and assemblies of items are:

- Historical and Projected Utilization (counter values, operating locations, utilization types, and so on).
- Configuration installations and removal history.
- Maintenance Plan required to keep item (or assembly) in service or restore item (or assembly) back to service.

Maintenance Plan requirements that come from OEMs, regulatory bodies, continuous improvement initiatives, reliability programs, and so on.

- Maintenance History of service and repair of an item.

This CMRO-collected information has always been used to calculate the upcoming maintenance activity for specific parent assemblies or units. This is necessary in an aviation or other regulated environment to maintain serviceability of the units in operation. Currently, the CMRO Unit Maintenance Plan contains the instance-specific maintenance needs projected out into the future. This instance-specific maintenance plan includes the material and resource demand needed to keep the units serviceable, and the time frame in which this demand will be required.

When this information is integrated into a supply chain environment, such as Oracle VCP, then instance-level Supply Chain Planning (SCP) is possible.

This instance level SCP is available in CMRO and leverages the following system data to provide Supply Chain Planning with visibility and forecasting for:

- Projection of Demand, using CMRO's Unit Maintenance Plan.
- Mapping of Consumption to Projected Demand, directly through instance tracking.
- Scenario Forecasting, using Simulations and Fleet Forecasting.
- Unit Utilization Costs and Impacts (actual, projected, and simulated).
- Unit Location Costs and Impacts (actual, projected, and simulated).
- Maintenance Program Costs and Impacts (actual, projected, and simulated).
- Reliability Costs and Impacts (actual, projected, and simulated).

CMRO UMP pulls the required material to the location within the time needed, based on the maintenance plan and operating parameters that are tracked in the required maintenance system.

Additionally, maintenance programs set up to operate aircraft and other highly regulated equipment must support the highest level of safety and reliability standards. This coupled with the business need to minimize maintenance ground time can become expensive when outrageous last minute rates are charged. By using the CMRO Supply Chain Planning integration, huge cost saving opportunity exist for the best supply chain

forecast, plan, and exception handling.

Auto Visit Forecasting and Packaging

The automated visit forecasting process is a tool for the maintenance planners to group maintenance requirements together to support both a rough-cut visit plan and an operational maintenance plan (Primary Plan), based on a maintenance organization. This enables the planner to approach the plan and focus on the exceptions for both short and long term planning. This feature is used primarily for heavy maintenance such as letter checks and modifications. It is typically used to forecast 12-18 months into the future.

There are two components to the Auto Visit Planning process:

- Process Flight Visit Schedules API (Short Term Planning)
- Create Primary Visits (Long Term Planning)

Important: Only visits with a status of Planning can be used with this feature.

This functionality enables the creation and scheduling of visits for both line and base maintenance.

For base maintenance, there is a new Autovisit Planning Workbench where users can define a processing hierarchy by master configuration, program type, subtype and a date range. The user can then launch and monitor concurrent programs to:

- Create new visits based on Primary Visit MRs.
- Cancel existing visits.
- Add UMP MRs to existing visits.

For line maintenance, users can define parameters to create operational visits based on the flight schedule and maintenance capability of arriving and departing stations. The user can define both generic and specific parameters for flights to:

- Create pre and post-flight visits.
- Create transit checks which will span an aircraft's downtime duration.
- Adjust visits based on flight changes.
- Cancel visits based on flight cancellations and re-routes.
- Notify users of changes to specific visits and flight associations.

Aircraft Maintenance Planning

The Aircraft Maintenance Planning workbench improves the scheduling and accomplishment of maintenance requirements for unit configurations for aircraft, but also for engines and APUs for both line and base maintenance. This workbench enables users to search for requirements that are due through a new version of the current UMP search capability. Users can then identify opportunities in which to schedule the maintenance to existing or new visits, while taking flight schedules, organizational scheduling and fleet downtime into consideration.

Use the Aircraft Maintenance Planning Workbench to:

- Translate the maintenance forecast (UMP) into a visit schedule.
- Create and evaluate long term visit forecasts.
- Ensure aircraft serviceability and availability through efficient operational planning.
- Manage requirements through an exception based planning model.
- Monitor requirement scheduling service yield.
- Evaluate UMP requirement due dates and UOM remaining.
- Locate unit downtimes in the operations schedule for assignment.
- Manage organization facility scheduling.
- Validate fleet scheduling versus goals.
- Analyze department resource capacity.
- Consider department and requirement service capability.

Complex Assembly Maintenance

This feature complements the Aircraft Maintenance Planning Workbench and expands the planning functionality by providing an exclusive workbench to search and plan maintenance for complex assemblies, specifically the engines and auxiliary power units (APUs) for aircraft.

The workbench enables users to search for both repair demand for complex assemblies from ASCP (or another source system), and locate assemblies requiring repair both on and off wing. ASCP demand will be driven directly off material requirements for assemblies in future visits or for stock, while requirements for repair will be driven off scheduled (time or performance driven) removals or unscheduled removals (service

failure). This workbench enables users to plan for assemblies before the component is removed, provide engineering groups the ability to define a preliminary work scope and then release it to a maintenance planning group to finalize the work scope, schedule the repair visit, and coordinate the removal and replacement of the complex assembly on wing.

The workbench can be used for any complex assembly, where tracking maintenance at the configuration position for the subcomponent is required in the execution process. The workbench includes the following that improves the planning process:

- Earliest assembly due: Displays the first unit effectivity due for the instance.
- MR soft limits: Optionally implement MRs which can suggest removal at a counter interval.
- Build Goals: Position-based and visit-defined requirements to rebuild a complex assembly, which translate into the planned on-wing life of a complex assembly.

Component Maintenance

In addition to the complex assembly workbench, the component maintenance workbench expands the planning functionality for an operation. Users can search and plan for component maintenance, both serialized and non-serialized. This workbench enables users to search for repair demand for components from ASCP (or another source system), and locate components requiring repair that are in an unserviceable inventory. ASCP demand is driven directly from material requirements for assemblies in future visits or for stock.

Specifically, the workbench provides a single source where component planners can review, schedule, and research repairs for components such as:

- Requested supply: From ASCP, based off material or stock demand.
- Scheduled supply: Components already planned and released for repair.
- Unserviceable inventory: Components available for repair.
- Resource capacity: Availability of an organization and department.
- Maintenance program requirements: Work scope required to repair a component.
- Service history: Historical repair of a component.

The Visit Work Package (VWP) visit details have been enhanced to include the Repair Work Scope tab. This tab enables the user to view for a unit, the configuration tree, and position details of all installed subcomponents. The engineer and planner can evaluate multiple criteria for each position and component and plan the repair work scope that is required to repair and rebuild the complex assembly.

The concept of a 'repair batch' has been introduced which represents a new entity in which to plan, execute and capture the repair history of a component. The repair batch provides the planner the ability to streamline the planning of a component repair by not having to create individual visits in VWP for each instance. Planners create a 'mini-visit' for an instance in the form of a repair batch, which contains repair tasks, and is pushed to production. The repair batch is then accomplished in execution in the form of work orders, similar to a visit. However, the planner works from a more simplified workbench to create and close the repair batches.

Visit Work Planning

CMRO's existing visit work package (VWP) functionality has been enhanced to support the introduction of the ASCP functionality throughout CMRO. The VWP enhancements include:

- Search VWP: A search UI to complement the changes and expanded functionality of ASCP within CMRO.
- Visit Header: Changes have been made to the required attributes to create and save a visit. For example: Visit Name and Unit are now required attributes to create and save a visit.
- Visit Status: A new Draft status can be used to improve performance for large visits to allow the addition of MRs and then release them for planning purposes simultaneously.
- Visit Planning Action: This action within the visit includes the ability to create work orders for each of the tasks added to the visit.

This enhancement improves the performance when adding large volumes of MRs to a visit.

- Visit Type Profiles: Profiles can be defined for a visit type and includes the ability to define the duration, master configuration, and default stages for a visit.

This information is used in the planning and scheduling of visits.

- Visit Task Dependencies: Planners can define and update the sequencing and dependencies for tasks prior to the push to production.
- Visit Stages: A new Stage concept enables tasks to be grouped into stages, based on MR definitions.

Stages can then be individually pushed to production versus having to push all planning status tasks at once.

- Visit Repair Work Scope: This tab enables the user to view the configuration tree and position details of all installed subcomponents for a unit.

- Visit Service Category: Can be defined at the visit level and the department level. The Service Category can follow a numerical ranking of capability.
- Visit Firm and Lock indicators: The auto planning functionality includes the ability to firm or lock a visit which will restrict changes, such as if a visit can be canceled or the work scope can be updated automatically.
- Visit Space Assignment: Using the aircraft planning workbench, planners can assign the visit to different spaces during the duration of a visit.
- Visit Build Goals: This functionality enables a planner to define the desired life expectancy of a repaired unit through the visit. Subcomponents that will be installed on the host configuration can be compared against the build goal for suitability prior to installation.
- Past Dated Visits: Planners can create visits in the past to capture maintenance that has already occurred or started.

Fleet Associations and Simulations

CMRO includes a concept of an aircraft *fleet*, which is a logical grouping of aircraft by location, region, or segment of operation. This functionality complements product classifications, and provides an enhanced solution to define variable utilization rates over specific periods of time for an aircraft, without having to constantly revise a product classification. The product classification definition can be set as the default utilization, with the fleet utilization taking precedence where defined. Some additional features of the fleet definition are:

- The fleet definition (fleet assignment over time) is available throughout CMRO as a search criteria, filter, and logical grouping for units.

The assignment periods of a unit to a fleet are reflected in the search date ranges.

- The fleet definition specifies the operating organization of the group of aircraft during the time period of association.

This operating organization has been added to the applicable unit effectivities in UMP by due date and is used by the maintenance planning process.

- The fleet definition enables the definition of 'reconfiguration MRs', which allows a set of defined MRs to become effective when moving from one fleet to another. An example would be to move from domestic to international operations.
- The recommended fleet downtime percentage during time periods can be defined. These parameters can be validated in a new report and enables operators to confirm that maintenance planners are not over scheduling visits during critical operational periods, such as holidays.

Aircraft can also be associated to fleets in the context of a simulation plan, which enables the evaluation of different fleet and aircraft scenarios. The output is a simulated UMP forecast of the maintenance programs for the fleet, which can be evaluated and optimized by updating and rerunning the simulations. A satisfactory simulation plan can also be implemented as the primary (live or operational) fleet plan.

Non Routine Analysis and Maintenance Requirement Profiles

CMRO includes tools to analyze the historical occurrence of non-routine maintenance, and to create non-routine planning factors and estimates which can be applied during the maintenance planning process. Non-routine history can be evaluated in the Oracle Demantra application based on the associated maintenance requirement, aircraft, fleet, and program type of maintenance accomplished. The output can then be applied within CMRO by creating maintenance requirement profiles.

These profiles enable the creation of non-routine estimates for an MR based on the Program Type and operating organization in which it would be accomplished. For example, an MR that occurs in an A-Check may generate different non-routines than in a C-Check, depending on the operating organization. The profile for an MR consists of:

- Program Type association.
- Operating Organization association.
- Resource Estimates based on resource type, hours, stage and operating organization association.
- Material Estimates based on resource type, hours, stage and operating organization association.

The MR profiles are included the work scope for the visit as MRs that are added during planning. This enables more accurate planning of material and resources (versus only knowing the routine maintenance) and duration for the visit. The non-routine estimates are removed as MRs are pushed to production, allowing for the actual non-routines to be added during execution and replace the estimates.

Non-routine profiles can also be updated routinely through Oracle Demantra analysis and posted to CMRO, where they can be reviewed in Draft status and approved for use. Profiles can then be manually evaluated, updated and approved as needed.

Service Bulletin Effectivity

CMRO includes functionality to cover more completely the detailed scenarios that are involved in planning, performing, and proving compliance with Service Bulletins, Service Letters, and Airworthiness Directives. These types of MRs can have a complex relationship between each other, the aircraft or assembly configurations, and the history involved. As a solution to this complex network of allowed parts, required

maintenance, and historic life, CMRO includes the following functionality to assist Complex Assembly Maintenance and Aircraft Operators with:

- **Effectivity Triggers:** A relationship between MRs that enable the continuous adjustment to the affected units, based on other MR accomplishments.

These effectivity triggers can enable one or more MRs to trigger the effectivity or terminate the effectivity of one or more other MRs.
- **SB Rules:** A rule creator UI for MC Position Rules based on a Service Bulletin type.

This UI enables users to create Position Rules, and allows for a new condition to be added where accomplished maintenance will affect the planned and allowed parts in a configuration.
- **Position Demand:** A definition used to enable a route to be defined to fill a position. This definition is used in addition to a CMRO route that defines a specific part or group of parts needed when performing a job. The position demand definition enables constant updates to the supply chain and material planning.

Oracle Production Scheduling Integration

The Oracle Production Scheduling (PS) integration has been optimized to enable CMRO engineering definitions to direct the visit structure and work order relationships, while still maintaining the power of the PS engine. This enables the complete optimization and visibility of CMRO visits, work orders, resource requirements, and material requirements within the PS tool. Some of the highlights of this integration are:

- The CMRO Work Breakdown Structure (WBS) can be defined as a template for a visit, then adjusted specifically for each instance of the visit.

This WBS definition gives further direction to the PS engine as to the order, precedence, and dependency among work orders.
- Visit stages are passed and used within the PS engine and are also visible in the UI.
- Non-routine (NR) estimates defined in CMRO are used to plan accurately for a visit before the actual NRs exist in the visit.
- Alternate item information is passed to PS to enable the scheduling engine to optimize the completion schedule.
- PS scheduled dates are passed back to CMRO Visit Work Package for comparison and adjustment against the visit planned dates, as necessary.

Supplier Warranty

Organizations acquire and deploy assets that are required to support core business

processes. When the assets are used, they eventually break down. Organizations have service facilities that repair the assets or send them for outside servicing. The servicing of an asset can be periodic (preventive maintenance) or ad hoc (on demand).

Suppliers provide a performance or reliability guarantee that enables a customer to recover any unplanned maintenance repair costs that are incurred during a specified period of ownership for an asset. It is the responsibility of the customer to track the performance or reliability of an asset, capture any unplanned service activity, verify the activity against the warranty terms and conditions, and follow the supplier's process for claiming warranty reimbursement.

When an asset needs to be repaired and is covered by a supplier warranty, the servicing organization determines that the supplier must rectify the defects free of cost or at some negotiated price. The servicing organization makes a warranty claim if there is a link between the assets in question and established warranty terms and conditions. Supplier warranty terms and conditions cover a wide array of activities performed on an asset during its lifetime. Sometimes it is associated with an as-delivered condition upon induction to a customer. These conditions may include new purchases, used purchases, repair services, non-routines, configuration changes, reliability programs, and service bulletin and air worthiness directives.

For more information, see *Working with Supplier Warranty, Oracle Complex Maintenance, Repair, and Overhaul User's Guide*.

Projects Integration Enhancements

CMRO includes the following functionality that enhances the Oracle Projects integration:

- Define Cost Hierarchy for Project Tasks.
 - CMRO supports the creation of subtasks in the project hierarchy after transactions have been made against parent tasks.

This supports the addition of non-routine requirements that are discovered after transactions have already been made. This enhancement ensures that an extra Project task is created for all CMRO tasks to create a separate transaction branch in the cost hierarchy.
- Add Visits to Parent Projects.
 - When creating a maintenance visit in CMRO, the user creates a new associated project, or adds the visit to an existing project.
 - When tracking costs for a visit under an existing project, the user selects the project at the visit header rather than choose a project template. The visit is created as the top task in the selected project, with the complete costing hierarchy defined as follows, which is similar to creating a new project.

- The Project LOV was added to the following CMRO UIs:
 - Create Visit
 - Update Visit

- Synchronize Visit and Project Task Dates.
 - Projects are created for a maintenance visit at the push to production, or for costing purposes while in planning.
 When the project tasks are created, the corresponding work orders are also created, and updates each work order with the scheduled dates corresponding to the visit tasks start and end dates.
 - When work order schedule dates are adjusted, the corresponding Project task dates are also updated.

- Define Service Type.
 - To identify routine and non-routine maintenance activity, the Service Type attribute for the project is defined in CMRO for visit tasks and work orders.
 This value is used when creating the corresponding project rollup, transaction and summary tasks.
 - In CMRO, visit tasks will have a service type and this default value comes from the Routine or Non-Routine profile.
 This attribute has also been added to the search criteria and details page of several UIs:
 - Search Visit Task
 - Create Unplanned Visit Task
 - Create Planned Task
 - Create Unassociated Task
 - Update Visit Task
 - Update Cost Structure
 - Disposition Details

FAA Compliance Reports

The following FAA Compliance Reports are available:

- Aircraft Maintenance Status
- Assembly Bill of Materials
- Component Maintenance Status
- Component Removal Forecast
- Component Removal/Installation History
- Maintenance Requirement Information and Status
- Part Number Status
- Unit Serial Numbers

Reports can be printed, exported, and viewed online. You can also save searches, which enables users to customize and provide default search views for the Aircraft Maintenance Status and Component Maintenance Status reports.

For more information, see *Using Compliance Reports, Oracle Complex Maintenance, Repair, and Overhaul User's Guide*.

Enigma 3C Integration

The integration between CMRO and Enigma's 3C is to provide a ready-to-use solution for MRO service providers to provide the maintenance technicians with a set of tools that connect CMRO's extensive back office functionality for configuration management, engineering and maintenance planning with Enigma's flexible and easy to use documentation centric maintenance execution system, in a wireless or disconnected environment.

This combination of the two products supports the maintenance technicians in efficiently executing all their maintenance tasks, achieving highest level of quality by providing the right information in the right place at the right time in a most user-friendly form.

Part 2

CMRO Responsibilities, Business Types, Roles, Tasks and Processes

CMRO Responsibilities and Business Types

This chapter covers the following topics:

- CMRO Seeded Responsibilities
- Overview of CMRO Business Types
- Aircraft Operator
- Heavy Maintenance
- Complex Assembly Maintenance
- Component Shop

CMRO Seeded Responsibilities

CMRO Responsibilities

Responsibility	Usage
Complex MRO Component Technician	Used to execute work orders based on component demand. Use this responsibility to access the Component Maintenance feature.
Complex MRO Data Clerk	Used in environments where the shift work records are updated by data entry clerks. Use the Data Clerk Workbench to perform component-related tasks such as update work orders based on repair batches, and generate work cards.

Responsibility	Usage
Complex MRO Material Marshalling User	Replaces the Complex MRO Marshalling Workbench responsibility. Used to perform materials maintenance tasks such as marshalling, demand and supply management (work order material demand), and access the Marshalling Workbench.
Complex MRO Super User	Used by heavy maintenance, line maintenance, UMP, MC, and the Aircraft Maintenance Planning Workbench.
Complex MRO Technician	Used by heavy maintenance and engine shop technicians to display work orders, and perform maintenance tasks for large jobs. Work orders are assigned to a specific technician.
Complex MRO Transit Technician	Used by transit maintenance technicians to work on smaller maintenance visits that last for a few hours rather than days.

Overview of CMRO Business Types

CMRO has grouped 4 primary business types that may exist in the industry as independent businesses or as some combination of the primary groupings. These business types can be used to visualize and explain the roles and tasks within each business type. This is specifically done for organization and simplicity in describing both the design direction of CMRO and to begin to map the CMRO solution to the known requirements of each business.

The business types defined here are of generic nature and are intended to be used as a starting point for communication of the CMRO offering and direction. As with all Oracle eBusiness applications, specific functional groupings can always be customized at implementation, using the standard Role Based Access Control (RBAC) setups.

This chapter groups roles into business types that would typically understand the roles and tasks within each business type. The business types are:

- **Aircraft Operator, page 2-3**
Includes aircraft maintenance airworthiness monitoring, line maintenance planning and execution, progressive and light to medium checks, strategic planning support, material handling, records entry, and OSP support.

- Heavy Maintenance, page 2-4
Performs D Checks and overhauls as a separate entity to the aircraft operator or as an internal division.
- Complex Assembly Maintenance, page 2-5
Engine and large assembly maintenance provider, with engineering and planning tools to support internal or external aircraft Operators.
- Component Shop, page 2-6
Repair shop set up for high volume, low to medium complexity repairs.

Aircraft Operator

This business type performs operational aircraft maintenance, monitors the airworthiness of all aircraft, is responsible for line maintenance planning and execution, usually performs progressive and light and medium checks, and is responsible for aircraft configuration management, strategic planning support, material handling, records entry, and OSP support.

Business Process Examples

- Strategic Operation Forecasting and Planning: Create and analyze simulation plans.
- Operations Planning: Create and implement the primary plan.
- Produce and Execute Operational Visits: Create or update line visits, receive aircraft, execute visits, and return to service.

Associated CMRO Roles

- Role 1.0 - Strategic Operations Planner, page 3-3
- Role 2.0 - Maintenance Controller (MCC), page 3-12
- Role 3.0 - Local Maintenance Planner, page 3-43
- Role 4.0 - Reliability Engineer, page 3-63
- Role 5.0 - Technical Services - Document Manager, page 3-63
- Role 6.0 - Technical Services - Configuration Engineer, page 3-67
- Role 7.0 - Engineering - Engineer, page 3-75
- Role 8.0 - Warranty Administrator/Analyst, page 3-87
- Role 9.0 - Maintenance Records - Data Clerk, page 3-109

- Role 10.0 - Line Maintenance Supervisor, page 3-126
- Role 11.0 - Line Maintenance Technician, page 3-129
- Role 12.0 - AOG Planner, page 3-133
- Role 13.0 - Material Clerk (Issues/Returns), page 3-142

Heavy Maintenance

This business type is responsible for planning and executing Heavy Maintenance (such as C/D Checks and Overhauls) in conjunction with an approved maintenance plan. This may be performed as a separate entity (service provider model) to the Aircraft Operator or as an internal division of the same business.

Business Process Examples

- Operator Visit Planning: Create calendar and capacity plan for owned fleets.
- Customer Visit Planning: Create calendar and capacity plan for customer aircraft.
- Produce and Execute Heavy Maintenance Visits: Create heavy visits and work scope, plan visits, schedule visits, receive aircraft, executive visits, and return to service.

Associated CMRO Roles

- Role 6.0 - Technical Services - Configuration Engineer, page 3-67
- Role 7.0 - Engineering - Engineer, page 3-75
- Role 8.0 - Warranty Administrator/Analyst, page 3-87
- Role 9.0 - Maintenance Records - Data Clerk, page 3-109
- Role 13.0 - Material Clerk (Issues/Returns), page 3-142
- Role 14.0 - Heavy Maintenance Planner, page 3-144
- Role 15.0 - Heavy Maintenance Supervisor, page 3-170
- Role 16.0 - Crew Lead, page 3-171
- Role 17.0 - Heavy Maintenance Technician, page 3-172
- Role 18.0 - Aircraft Inspector, page 3-173
- Role 19.0 - Marshaller, page 3-180

- Role 20.0 - OSP Planner/Clerk, page 3-191

Complex Assembly Maintenance

This business type functions as an engine and large assembly maintenance provider, planning and executing large services and overhauls in conjunction with an approved maintenance plan. This business type will have engineering and planning tools to support maintenance on complex assemblies for customer equipment and internally owned equipment

Business Process Examples

- Operator Engine Planning: Create removal schedule and initial work scope in conjunction with aircraft operations.
- Customer Engine Planning: Create calendar and capacity plan for customer-defined work scope.
- Produce and Execute Engine Service Visits: Receive engine, analyze status, create visit and work scope, execute visit, and return to service.

Associated CMRO Roles

- Role 4.0 - Reliability Engineer, page 3-63
- Role 6.0 - Technical Services - Configuration Engineer, page 3-67
- Role 7.0 - Engineering - Engineer, page 3-75
- Role 8.0 - Warranty Administrator/Analyst, page 3-87
- Role 9.0 - Maintenance Records - Data Clerk, page 3-109
- Role 13.0 - Material Clerk (Issues>Returns), page 3-142
- Role 19.0- Marshaller, page 3-180
- Role 20.0 - OSP Planner/Clerk, page 3-191
- Role 21.0 - Complex Assembly Maintenance Planner, page 3-197
- Role 22.0 - Shop Maintenance Supervisor, page 3-227
- Role 23.0 - Shop Inspector, page 3-229

Component Shop

This business type is a repair shop set up for high volume, low to medium complexity repairs. This business type may exist as a standalone service provider or as a division of an aircraft operator.

Business Process Examples

- Operator Component Planning: Create calendar schedule and plan for demand of serviceable components in conjunction with aircraft operations.
- Customer Component Planning: Create calendar and capacity plan for customer demand of serviceable components.
- Produce and Execute Component Repairs: Create repair batch, analyze component status, create work scope, execute work scope, and return to service.

Associated CMRO Roles

- Role 7.0 - Engineering - Engineer, page 3-75
- Role 8.0 - Warranty Administrator/Analyst, page 3-87
- Role 9.0 - Maintenance Records - Data Clerk, page 3-109
- Role 13.0 - Material Clerk (Issues>Returns), page 3-142
- Role 22.0 - Shop Maintenance Supervisor, page 3-227
- Role 23.0 - Shop Inspector, page 3-229
- Role 24.0 - Component Shop Planner, page 3-233

CMRO Roles, Tasks, and Processes

This chapter covers the following topics:

- Overview of CMRO Roles, Tasks, and Processes
- Role 1.0 - Strategic Operations Planner
- Role 2.0 - Maintenance Controller (MCC)
- Role 3.0 - Local Maintenance Planner
- Role 4.0 - Reliability Engineer
- Role 5.0 - Technical Services - Document Manager
- Role 6.0 - Technical Services - Configuration Engineer
- Role 7.0 - Engineering - Engineer
- Role 8.0 - Warranty Administrator/Analyst
- Role 9.0 - Maintenance Records - Data Clerk
- Role 10.0 - Line Maintenance Supervisor
- Role 11.0 - Line Maintenance Technician
- Role 12.0 - AOG Planner
- Role 13.0 - Material Clerk (Issues>Returns)
- Role 14.0 - Heavy Maintenance Planner
- Role 15.0 - Heavy Maintenance Supervisor
- Role 16.0 - Crew Lead
- Role 17.0 - Heavy Maintenance Technician
- Role 18.0 - Aircraft Inspector
- Role 19.0 - Marshaller
- Role 20.0 - OSP Planner/Clerk
- Role 21.0 - Complex Assembly Maintenance Planner

- Role 22.0 - Shop Maintenance Supervisor
- Role 23.0 - Shop Inspector
- Role 24.0 - Component Shop Planner

Overview of CMRO Roles, Tasks, and Processes

Complex MRO has been and will continue to be built according to the roles outlined by the Product Management team. These roles have been, and are continuously adjusted, amended, expanded, and modified according to field input. This field input comes from Product Management experience, CMRO implementation feedback, customer interaction, and the CMRO development vision.

Currently, 24 roles have been accounted for, described, and mapped to solutions within the CMRO footprint, including UIs and user flows. These roles have major tasks, the tasks have processes, and the processes have steps. The intention of this chapter is to give an increased level of detail starting from a business role and moving down to the intended CMRO product solution.

The CMRO roles are as follows:

- Role 1.0 - Strategic Operations Planner, page 3-3
- Role 2.0 - Maintenance Controller (MCC), page 3-12
- Role 3.0 - Local Maintenance Planner, page 3-43
- Role 4.0 - Reliability Engineer, page 3-63
- Role 5.0 - Technical Services - Document Manager, page 3-63
- Role 6.0 - Technical Services - Configuration Engineer, page 3-67
- Role 7.0 - Engineering - Engineer, page 3-75
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- Role 11.0 - Line Maintenance Technician, page 3-129
- Role 12.0 - AOG Planner, page 3-133
- Role 13.0 - Material Clerk (Issues>Returns), page 3-142
- Role 14.0 - Heavy Maintenance Planner, page 3-144

- Role 15.0 - Heavy Maintenance Supervisor, page 3-170
- Role 16.0 - Crew Lead, page 3-171
- Role 17.0 - Heavy Maintenance Technician, page 3-172
- Role 18.0 - Aircraft Inspector, page 3-173
- Role 19.0 - Marshaller, page 3-180
- Role 20.0 - OSP Planner/Clerk, page 3-191
- Role 21.0 - Complex Assembly Maintenance Planner, page 3-197
- Role 22.0 - Shop Maintenance Supervisor, page 3-227
- Role 23.0 - Shop Inspector, page 3-229
- Role 24.0 - Component Shop Planner, page 3-233

Role 1.0 - Strategic Operations Planner

This role is focused on projecting operational maintenance forecasts from three to seven years into the future to evaluate the impact on aircraft availability, maintenance program costs, and facility and resources requirements. The planner can create operational or engineering simulation plans, which will be used to produce simulated maintenance forecasts for evaluation. The simulation plans can be edited, refined, and regenerated as needed to produce different forecasts. These forecasts can also be used as the basis for budget planning, or the planner may drive different simulation scenarios to create an operational plan that does not exceed a defined budgetary threshold.

The simulation plans include input from operational scenarios, which can involve different:

- Mixes of fleet types.
- Number of aircraft.
- Fleet utilization rates.
- Aircraft ages.
- Engineering effectivity.
- Operating locations or areas.
- Revenue goals.

- Marketing requirements.

The corresponding simulated maintenance forecast can be evaluated for its cost and potential impact on operational commitments. The evaluation can include the review of the impact of extensive maintenance activity against fleet downtime targets, and maintenance organization facility and resource requirements.

From this evaluation, a user can more accurately gauge maintenance outsourcing requirements and sourcing opportunities. The simulation can be further evaluated for costs in Oracle Advanced Supply Chain Planning (ASCP) by producing a supply chain plan and in Oracle Demantra to analyze costs.

Associated Major Business Type: Aircraft Operator, page 2-3

Prerequisites

- ☐ The following prerequisite setup tasks must be performed before operation-based maintenance forecast simulations can be generated.

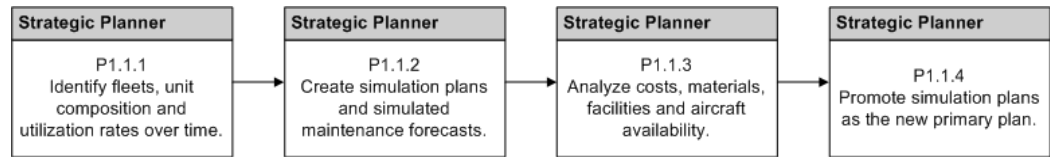
Prerequisite Setup Task	Role Performing Task	Navigation
Create the following entities:	Engineering	Configuration > Master Configuration > Create (B)
• Master Configurations		
• Unit Configurations		Configuration > Unit Configuration > Create (B)
• Product Classifications		Configuration > Product Classification > Create (B)
Define the following:	Engineering	Planning > Fleet Forecasting
• Primary fleets		
• Unit composition		
• Fleet utilization		
Create fleet maintenance program.	Engineering	Planning > Fleet Maintenance Program

1.1 Major Task - Run operations simulations:

Task Description: The Strategic Operations Planner will create operation-based maintenance forecast simulations and analyze aircraft availability, maintenance program costs, and facility and resources requirements. Some examples of operational simulations are changes in utilization tempo and changes to the location or type of

flights.

Task Flow



1. Identify fleets, unit composition and utilization rates over time.

The planner will receive inputs from flight operations and marketing for current and future operational parameters. These will be translated into fleets, utilization rates, and unit associations.

2. Create simulation plans and simulated maintenance forecasts.

Create simulated utilizations by associating units to additional fleets and viewing the Unit Maintenance Plan for these simulations.

Navigation: Planning > Fleet Forecasting > Simulations

Plan Name	Primary Date Plan	Last Calculated Date	Description	Calculate Due Date	Implement Plan Without Calculation	With Calculation
Plan#13108001	02-Apr-2012				✓	✓
Demo Day1	06-Jun-2012				✓	✓
688NSIM	20-Mar-2012	21-May-2012			✓	✓
GD-SimPlan002	03-Apr-2012		Simulation Plan created for CERT testing by Ganesh		✓	✓
SR-SimPlan003	11-Apr-2012		sim plan created by sid		✓	✓
13Simulation	13-Jun-2012	14-Jun-2012	13Simulation		✓	✓
Demo Plan 002	06-Aug-2012	06-Aug-2012	Used to test Fleet Schedule UI		✓	✓
Primary Plan	29-Feb-2012	05-Apr-2013	This is the seeded Primary Plan	✓		
DEmo Sim	11-Mar-2012				✓	✓

- The planner can create a new simulation plan or edit an existing simulation plan in the Fleet-Unit Associations UI.

Note: The default simulation plan will identified by the Primary Plan check box. This is a seeded plan which will represent the existing fleet and unit associations and will be

referred to as the Primary Plan. This plan cannot manually deleted, only edited or replaced by another simulation plan.

The planner can create new fleets or use existing fleets in a simulation.

Navigation: Planning > Fleet Forecasting > Fleets > Search Fleets

Note: Editing an existing fleet may change the primary plan.

- The fleet definition can include reconfiguration MRs to assist with transitioning fleet operation types.

Navigation: Planning > Fleet Forecasting > Fleets > Create/Edit Fleets

The utilization can be set over different time periods. The maximum unit downtime parameters can also be set for analysis over different time periods. Fleets can be set to a status of Complete and saved.

The screenshot shows the Oracle Complex MRO 'Edit Fleet' form for fleet GD-REConfigFleet002. The form is titled 'Edit Fleet: GD-REConfigFleet002' and includes a 'Cancel', 'Revert', and 'Apply' button at the top right. The 'Fleet Details' section shows the fleet name 'GD-REConfigFleet002', operating organization 'San Francisco Maintenance Center US', operating department 'Outside Processing SFM-B', and operations type 'Dessert Type'. The fleet status is 'Complete' and the description is 'REconfig Fleet created for Reconfiguration MR testing'. The 'Reconfiguration MRs' section shows a table with one row: 'GD-UnplannedReconfigMR001 Dessert Type'. The 'Associated Utilization Forecasts' section shows a table with one row: '15-Mar-2012 20 Each'. The 'Maximum Unit Down Times' section shows a table with one row: 'No results found.'.

Fleet	Operating Organization	Operating Department	Operations Type
GD-REConfigFleet002	San Francisco Maintenance Center US	Outside Processing SFM-B	Dessert Type

Maintenance Requirement	Operations Type	Compliance Lead Time (Days)
GD-UnplannedReconfigMR001	Dessert Type	

Period Start	Period End	Usage Per Day UOM
15-Mar-2012	20	Each

Period Start	Period End	Max Down Time %
No results found.		

- The planner can add units and define the fleet-unit associations over time, in the context of a simulation plan.

Navigation: Planning > Fleet Forecasting > Fleet - Unit Association > Search Fleet-Unit Associations

Gaps between fleet associations will be highlighted for a unit. The planner then has the option to generate a maintenance forecast individually for each unit, or generated for all units in a simulation plan.

Unit Maintenance Plan | Visit Work Package | Long Term Planning | Planning Workbench | Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Fleets | Fleet - Unit Association | Unit Maintenance Forecast | Simulations

Search Fleet Unit Associations

Note that the search is case insensitive

Unit Association Start Master Configuration
Item Association End Fleet
* Simulation Plan Primary Plan ☐ Units with Utilization Gaps

Applicable Units

Select Unit	Item	Serial Number	Master Configuration	Current Fleet Association	BUE	Last Run	Generate Plan	Remove
<input type="radio"/> AA5000 Accelerator Assy # 1020 03-AA96467			AA-5000 Accelerator Assembly					
<input type="radio"/> AA5000 Fuel Ctrl Linkage # 1020 03-AA96467			AA-5000 Accelerator Assembly					
<input checked="" type="radio"/> C70-1, SN 311, Tail # VA521	C70-1	311	C70-1	Test Fleet				
<input type="radio"/> C70-1, SN 312, Tail # VA522	C70-1	312	C70-1					
<input type="radio"/> C70-1, SN 313, Tail # VA523	C70-1	313	C70-1					
<input type="radio"/> C70-2, SN 411, Tail # VA681	C70-2	411	C70-2					
<input type="radio"/> C70-2, SN 412, Tail # VA682	C70-2	412	C70-2					
<input type="radio"/> C70-2, SN 413, Tail # VA683	C70-2	413	C70-2					
<input type="radio"/> C70-3, SN 511, Tail # VA761	C70-3	511	C70-3					
<input type="radio"/> C70-3, SN 512, Tail # VA762	C70-3	512	C70-3					

Associated Fleets

Fleet	Association Start	Association End	Status	Edit	Operating Organization	Gap after Fleet Association Remove
Test Fleet	09-Nov-2011	18-Nov-2011	Draft		San Francisco Maintenance Center US	<input type="checkbox"/>
Test Fleet	20-Nov-2011	30-Nov-2011	Draft		San Francisco Maintenance Center US	<input type="checkbox"/>

- The planner can generate a maintenance forecast for an individual unit, or for all units in a simulation plan.

Navigation: Planning > Fleet Forecasting > Unit Maintenance Forecast

ORACLE® Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Fleets | Fleet - Unit Association | Simulations | Unit Maintenance Forecast

Calculate Due Dates for Simulation Plan :

Search

* Simulation Plan Due From Due To Title
Unit Service Category >= Service Category < Program Type
Item Operating Organization Program Subtype
Serial Number Maintenance Organization Maximum Duration
Fleet Minimum Duration
Master Configuration

☐ Show Dependent Components
☐ Show Replicate

Result

Select Due Date	Title	Unit	Item	Serial Number	Program Type	Program Subtype	Operating Org	Maintenance Org
No search conducted.								

Select a simulation plan in the Calculate Due Dates for Simulation Plan field and click Go.

- The unit maintenance forecast can then be generated for a simulation plan in the Simulations UI.

Navigation: Planning > Fleet Forecasting > Simulations

Oracle Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | **Fleet Forecasting** | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Fleets | Fleet - Unit Association | **Simulations** | Unit Maintenance Forecast

Logged In As TSMITH

Simulations

Note that the search is case insensitive

Simulation Plan: 13Simulation

Date Created >=

Go Clear

Plan Name	Primary Plan	Date Created	Last Calculated Date	Description	Calculate Due Date	Implement Plan Without Calculation	Implement Plan With Calculation
13Simulation		13-Jun-2012	14-Jun-2012	13Simulation			

Add More Rows

Apply Revert

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning | Home | CMRO Home | Engineering | Configuration | **Planning** | Administration | Execution | Profile | Sign Out

Click the Calculate Due Date icon to generate the unit maintenance forecast.

3. Analyze costs, materials, facilities and aircraft availability using the unit maintenance plan (UMP) for simulations.
 - The unit maintenance forecast can be searched, filtered and evaluated for a simulation plan. This may include downloading the results to Microsoft© Excel and further analysis outside of CMRO.

Navigation: Planning > Fleet Forecasting > Unit Maintenance Forecast

ORACLE® Complex MRO

Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Fleets Fleet - Unit Association Simulations Unit Maintenance forecast

Logged In As TSMITH

Unit Maintenance Forecast

Calculate Due Dates for Simulation Plan :

Search

* Simulation Plan Due From Due To Title

Unit Service Category >= Service Category < Program Type

Item Operating Organization Program Subtype

Serial Number Maintenance Organization Maximum Duration

Fleet Minimum Duration

Master Configuration ☐ Show Dependent Components ☐ Show Replicate

Result

Select Due Date	Title	Unit	Item	Serial Number	Program Type	Program Subtype	Operating Org	Maintenance Org
No search conducted.								

- A Fleet Downtime Percentage report can be run for a simulation plan and a time period.

Navigation: Administration > Maintenance Requirement Status Reports > Fleet Downtime Percentage Report

ORACLE® Complex MRO

Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance

Fleet Downtime Percentage Report Component Maintenance Status Aircraft Maintenance Status Maintenance Requirement Information and Status

Logged In As TSMITH

Fleet Downtime Percentage Report

* Indicates required field

Fleet Downtime Percentage Report

Fleet Unit * Simulation Plan

* From Date * To Date

Service Category <= Service Category >=

Minimum Duration Maximum Duration

☐ Show only primary visit requirements

Fleet	Period Start	Period End	Max Downtime %
No search conducted.			

Fleet	Fleet Start Date	Fleet End Date	Unit	Requirement	Service Category	Duration	Due Date	Visit	Visit Start Date	Visit End Date
No search conducted.										

The user can evaluate the required maintenance for each unit. Units can be removed from a simulation plan, the plan then is regenerated, and a new downtime report can be analyzed.

- CMRO will provide non-routine estimates for unit effectivities in a simulation plan through the use of Non-Routine profiles. These will be collected by ASCP and Demantra for cost analysis.

- A simulation plan can also be evaluated in Oracle ASCP by running a supply chain plan that is based on a defined simulation plan.
- Use Oracle Demantra to evaluate costs for the ASCP plan.

- Based on analysis, the user can remove units from a simulation.

Navigation: Planning > Fleet Forecasting > Unit Maintenance Forecast

If the simulation parameters are changed, the unit maintenance forecast should be regenerated.

- Edit the fleet-unit association parameters.

Navigation: Planning > Fleet Forecasting > Fleet-Unit Association > Search Fleet-Unit Association

If the simulation parameters are changed, the unit maintenance forecast should be regenerated.

- The unit maintenance forecast can then be regenerated for an adjusted simulation plan and analyzed.

Navigation: Planning > Fleet Forecasting > Unit Maintenance Forecast

Important: After a simulation plan is implemented, the Build Unit Effectivities (BUE) program must be updated for the identified aircraft.

4. Promote the simulation plan as the new primary plan.

Navigation: Planning > Fleet Forecasting > Simulations

Use the Simulations UI to implement simulation plans. When a simulation plan is implemented, all the fleet-unit associations are copied to the primary plan, and replace the existing associations of the applicable units.

The simulation plan can be implemented with or without the maintenance forecast calculations. If the simulation plan is implemented without the maintenance calculations, the Build Unit Effectivities (BUE) program must be run separately to recalculate the maintenance forecast.

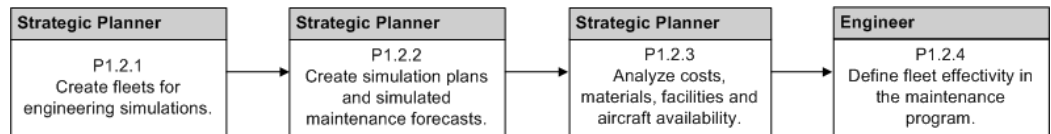
After the plan is implemented, the simulation plan status is changed to Implemented and is no longer visible in CMRO.

1.2 Major Task - Run engineering simulations:

Task Description: Planner will coordinate with the engineering department to create engineering-based maintenance forecast simulations to analyze aircraft availability, maintenance program costs, and facility and resources requirements. An example of an

engineering simulation is the phasing in of a new MR to be effective on an aircraft or fleet.

Task Flow



1. Create fleets to be used in an engineering simulation.

Navigation: Planning > Fleet Forecasting > Fleets > Create

Users can create a new fleet to be used in the engineering simulation. Engineering will use this fleet to assign effectivity at the fleet level to one or more maintenance program requirements. Engineering will then rely on the Strategic Operations Planner to project the new or adjusted maintenance forecast.

2. Create engineering simulation plans and simulated engineering maintenance forecasts.

Create simulated engineering utilizations by associating units to additional fleets and viewing the UMP for these engineering simulations.

3. Analyze costs, materials, facilities and aircraft availability using the CMRO UMP for engineering simulations.

- The unit maintenance forecast can be searched and evaluated for an engineering simulation plan. This may include downloading the results to Microsoft® Excel and further analysis outside of CMRO.
- A Fleet Downtime Percentage report can be run for a simulation plan and a time period.

The user can then evaluate the required maintenance for a unit. Units can be removed from a simulation plan, the plan can be regenerated, and a new downtime report can be analyzed.

You must enter values in the following required fields:

- Fleet Name or Unit Name
 - Simulation Plan
 - From Date
 - To Date
- CMRO will provide non-routine estimates for UEs in a simulation plan through

the use of Non-Routine profiles. These will be collected by ASCP and Demantra for cost analysis.

- A simulation plan can be evaluated in ASCP by running a supply chain plan that is based on a defined simulation plan.
- Use Demantra to evaluate costs for the ASCP plan.
- Based on analysis, the Strategic Operations Planner can remove units from a simulation.

In addition, if the simulation parameters are changed, the unit maintenance forecast should be regenerated.

- Edit the fleet-unit association parameters.
If the simulation parameters are changed, the unit maintenance forecast should be regenerated.
- The unit maintenance forecast can then be regenerated for an adjusted engineering simulation plan and analyzed.

Role 2.0 - Maintenance Controller (MCC)

This role is focused on maintaining the airworthiness of all aircraft assigned to the flight schedule. This role manages the Minimum Equipment List (MEL) and Configuration Deviation List (CDL) for each aircraft, planning and monitoring the scheduled and unscheduled maintenance, and evaluating and communicating the operational status for each aircraft to operations.

The MCC will monitor the daily operations of each aircraft that are assigned to the flight schedule. They will ensure that all maintenance activity is properly accomplished by the required due date, with as little impact to the operational schedule as possible. The MCC will create (or add to existing) maintenance visits during scheduled downtimes in the flight schedule for the aircraft. These visits will include inspections, line checks, planned component removals and any troubleshooting maintenance required to correct open Pireps, MEL or CDL maintenance items. The maintenance controller will also monitor the aircraft routing in the flight schedule, and may request swaps between lines of flight to ensure that aircraft is available for scheduled maintenance activity in the correct maintenance locations.

In addition, the maintenance controller will:

- Serve as the central point of coordination for unscheduled maintenance of an aircraft that is assigned to the flight schedule.

This role will coordinate with flight crews, local maintenance planner, local mechanics, and third-party maintenance providers to correct any defects in the

aircraft that may affect airworthiness. The MCC will work to resolve the issues per the troubleshooting procedures from the manufacturers, through internal procedures, or the deferral process. The maintenance controller can then create maintenance visits during the unscheduled downtimes in the flight schedule for the aircraft. If the issue cannot be resolved, then they will also coordinate the deferral of any maintenance that cannot be accomplished due to service capability, issue repeatability, parts or time constraints. The maintenance controller may request swaps between lines of flight to ensure that aircraft are available for scheduled maintenance activity in other locations to correct any deferrals. The MCC can also coordinate with engineering, fleet management, the original equipment manufacturer (OEM) of the aircraft, or the applicable aviation authority to ensure aircraft airworthiness, or to receive permission to operate with certain MEL and CDL deviations.

- Serve as the central point of coordination with the aircraft operations group for all aircraft entering and leaving the flight schedule.

Aircraft temporarily down for unscheduled maintenance, aircraft leaving for scheduled maintenance, aircraft returning from scheduled maintenance, spare aircraft, schedule changes, charters and the introduction of new aircraft into service may be included. The MCC will work with operations to ensure the correct routing and flow of aircraft through locations which can provide the required maintenance support for scheduled maintenance. The maintenance controller will also update the operations group with expected return to service time and dates for out of service aircraft.

- Coordinate with the inventory group to ensure that the required parts are on hand to accomplish the required maintenance.

This role can request the movement of parts if they are not normally stocked in the local inventory. The maintenance controller can coordinate the loan or borrow of components from other airlines, expedite or exchange items being repaired by an internal shop or outside provider, and utilize arranged parts pools. The MCC may also be required to coordinate the return of the components.

Associated Major Business Type: Aircraft Operator, page 2-3

Prerequisites

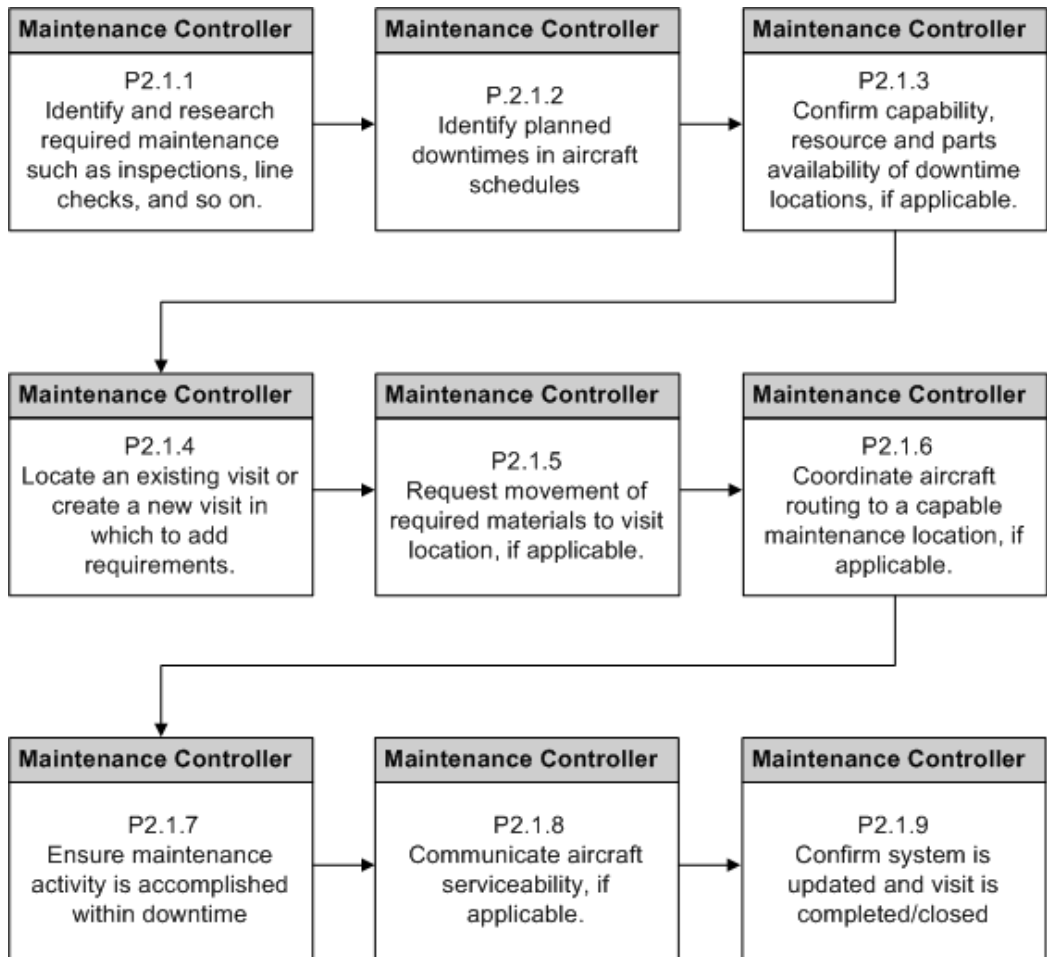
- ☐ The following prerequisite setup tasks must be performed before transit visits are automatically created.

Task	Role Performing Task	Navigation
Set up operational visit parameters.	Maintenance Controller Heavy Maintenance Controller	Planning > Auto Visit Planning > Operational Visit Autocreate
Run the Operational Visit Autocreate process.	Maintenance Controller Heavy Maintenance Controller	Planning > Auto Visit Planning > Operational Visit Autocreate

2.1. Major Task - Manage planned maintenance:

Task Description: The maintenance controller will ensure that all maintenance activity is properly accomplished by the required due date, with as little impact to the operational schedule as possible.

Task Flow



1. Identify required maintenance.

Identify required inspections, line checks, planned component removals, open Pireps, or MEL and CDL maintenance items by due date and aircraft.

- The maintenance controller can search the Unit Maintenance Plan for outstanding requirements for accomplishment through a maintenance visit.

Navigation: Planning > Unit Maintenance Plan > Overview > Search Unit Maintenance

Search by Fleet, Program Type and Subtype to filter results. Due date tolerance criteria and MEL and CDL considerations can impact the due dates.

- The maintenance controller can use the Planning Workbench to search the UMP for outstanding requirements that require accomplishment through a maintenance visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

Search by Fleet, Unit, Program Type, Subtype, Due From or Due Within, Arrival Organization, and Service Category to filter results. Due date tolerance criteria and MEL and CDL considerations can impact the due dates

This workbench provides the best method to identify a requirement for a unit and assign it to an existing visit, or create a new visit in which to resolve it.

Planning Workbench

Apply Revert

Unit Maintenance Plan

[Hide UMP Search Region](#)

Simple Search

Unit Name

Item

Title KAL_SS_EC_E_HT_MR_0

Due From 08-Apr-2013

Program Type

Due Within UOM

Arrival Organization

Non Routine Type

Fleet

Serial Number

Scheduled Status

Due To ☒ Include Tolerance Date

Program Sub Type

Implement Status

☒ Show Dependent Requirements

On Wing

Advanced Search

Go Clear

Select Requirements: [Search Unit Downtimes](#) [Create Visit](#)

Previous 1-10 Next 10

[Select All](#) [Select None](#) [Show All Details](#) [Hide All Details](#)

Select Details	Unit	Program Type	Title	Item Number	Serial Number	View All UOMs	Cnt Name	Cnt UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Visit Request
<input type="checkbox"/> Hide	SS_P100_1717 Engine Overhaul		KAL_SS_EC_E_HT_MR_01	SS_EC_E_HT	1717-1	00	CSO	UCY	22500		08-Apr-2013			
<div style="display: flex; justify-content: space-between;"> <div> <p>Fleet: 2BBNFleet</p> <p>Fleet Operating Org: JFK Maintenance Center</p> <p>Requirement Engineering Org: JFK Maintenance Center</p> <p>Master Configuration: SS_P100</p> <p>Position: SS_EC_E_HT</p> </div> <div> <p>Requirement Implement Status: Mandatory</p> <p>Requirement Program Sub Type:</p> <p>Service Category:</p> <p>Duration: HOURS</p> </div> <div> <p>Requirement Primary Visit Type:</p> <p>Scheduled Visit Type:</p> <p>Scheduled Visit Organization:</p> </div> </div>														
<input type="checkbox"/> Show	SS_P100_1717 Engine Overhaul		KAL_SS_EC_E_HT_MR_01	SS_EC_E_HT	1717-2	00	CSO	UCY	22500		08-Apr-2013			

- The controller can view the MR accomplishment parameters such as Program Type, Subtype, minimum Service Category, duration, and maintenance organization within the details Show/Hide in the results table.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

- The controller can click the title of the requirement to research other attributes based on the source maintenance requirement definition, including material requirements.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan > View Maintenance Requirement

The screenshot displays the Oracle Complex MRO Planning Workbench interface. The top navigation bar includes 'Unit Maintenance Plan', 'Visit Work Package', 'Planning Workbench', 'Fleet Forecasting', 'Component Maintenance', 'Assembly Maintenance', and 'Auto Visit Planning'. The 'Planning Workbench' tab is active. On the left, a 'Details' sidebar lists various maintenance-related categories. The main area shows a 'View Maintenance Requirement' form for a specific maintenance requirement.

View Maintenance Requirement		Cancel
Title	KAL_SS_EC_E_HT_MR_01	Status Complete
Revision Number		Version 1
Category	Airframe	Effective From 12-JUN-2012
Program Type	Engine Overhaul	Effective To
Program Subtype	Mandatory	On Wing Show Assembly Removal
Implement Status	Yes	On Wing Show All
Repetitive	First	Service Category
Which ever Comes	First	Auto Sign Off No
Billing Item		
Quality Inspection Type	HOURS	
Down Time		
Warranty Template		
Description	KAL_SS_EC_E_HT_MR_01	
Comments		
		Cancel

The bottom navigation bar includes 'Unit Maintenance Plan', 'Visit Work Package', 'Planning Workbench', 'Fleet Forecasting', 'Component Maintenance', 'Assembly Maintenance', 'Auto Visit Planning', 'Home', 'CMRO Home', 'Engineering Configuration', 'Planning Administration', 'Execution Profile', 'Sign Out', and 'Help'.

2. Identify planned downtimes in aircraft schedules.

The controller will search the flight schedules for a unit to discover a downtime in which to schedule maintenance.

- The controller can use the Planning Workbench to search for downtimes between flights.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

This workbench provides the best method to identify a requirement for a unit and assign it to an existing visit, or create a new visit in which to resolve it.

Unit Down Times | Organization Schedule | **Fleet Schedule**

Search Unit Schedule

Arrival Organization: 5%
 Department:
 Arrival From:
 Service Category:

Fleet:
 Unit:
 Departure To: 11-Jan-2012 00:00:00
 Minimum Duration: 10 UOM Hours

Advanced Search

Select Unit Downtime: View Organization Schedule

Show All Details | Hide All Details

Select	Details	Create	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search Unit
<input type="radio"/>	Show	New	C79-3, SN 111, Tail # VA761	410	San Francisco Maintenance Line Maintenance, Center US	SFM		01-Oct-2006 14:18:00		29.2	Hours	415	DFW Maintenance Center US	02-Oct-2006 19:30:00		oo
<input type="radio"/>	Show	New	C79-2, SN 412, Tail # VA682	320	San Francisco Maintenance Line Maintenance, Center US	SFM		02-Oct-2006 03:00:00		12	Hours	325	DFW Maintenance Center US	02-Oct-2006 13:00:00		oo
<input type="radio"/>	Show	New	C79-3, SN 111, Tail # VA761	450	San Francisco Maintenance Line Maintenance, Center US	SFM		04-Oct-2006 03:00:00		11	Hours	455	DFW Maintenance Center US	04-Oct-2006 14:00:00		oo
<input type="radio"/>	Show	New	C80-1, SN822 Tail# VA637	938	San Francisco Maintenance Line Maintenance, Center US	SFM		25-Sep-2007 15:30:00		16.5	Hours	939	JFK Maintenance Center US	26-Sep-2007 08:00:01		oo
<input type="radio"/>	Show	New	C80-1, SN844 Tail# VA638	273	San Francisco Maintenance Line Maintenance, Center US	SFM		26-Sep-2007 00:30:00	10.25	Hours	274	JFK Maintenance Center US	26-Sep-2007 10:45:00		oo	
<input type="radio"/>	Show	New	C80-1, SN811 Tail# VA638	547	San Francisco Maintenance Line Maintenance, Center US	SFM		26-Sep-2007 13:30:00		23.5	Hours	524	JFK Maintenance Center US	27-Sep-2007 13:00:00		oo
<input type="radio"/>	Show	New	C80-1, SN823 Tail# VA638	287	San Francisco Maintenance Line Maintenance, Center US	SFM		26-Sep-2007 14:30:00		23.5	Hours	249	JFK Maintenance Center US	27-Sep-2007 14:00:00		oo
<input type="radio"/>	Show	New	C80-1, SN855 Tail# VA640	864	San Francisco Maintenance Line Maintenance, Center US	SFM		27-Sep-2007 01:00:00		15.5	Hours	869	JFK Maintenance Center US	27-Sep-2007 16:30:00		oo
<input type="radio"/>	Show	New	C80-1, SN822 Tail# VA637	938	San Francisco Maintenance Line Maintenance, Center US	SFM		27-Sep-2007 17:30:00		14.5	Hours	939	JFK Maintenance Center US	28-Sep-2007 08:00:00		oo
<input type="radio"/>	Show	New	C80-1, SN844 Tail# VA638	273	San Francisco Maintenance Line Maintenance, Center US	SFM		28-Sep-2007 00:30:00	10.25	Hours	274	JFK Maintenance Center US	28-Sep-2007 10:45:00		oo	

Select Unit Downtime: View Organization Schedule

Previous 1-10 of 22 Next 10

- The controller can research the unit schedule and find maintenance opportunities.

Navigation: Planning > Unit Maintenance Plan > Unit Schedule

Unit Maintenance Plan | Visit Work Package | Long Term Planning | Planning Workbench | Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Overview | Utilization Forecast | **Unit Schedule** | Flight Schedules | Non-routings

Logged In As: TSMITH

Unit Schedules

Conflict ☒ Flight Scheduled ☒ Maintenance Opportunity ☒ Multiple Events ☒ Multiple Events with Maintenance Opportunity ☒ Visit Scheduled ☒

Unit Name:
 Item Number:
 Display Increment:

Start Date and Time: 10-Jan-2012 08:39:53
 Serial Number:
 UOM: Days

Previous 1-10 of 213 Next 10

Unit	2012/01/18 08:39:53	2012/01/19 08:39:53	2012/01/20 08:39:53	2012/01/21 08:39:53	2012/01/22 08:39:53	2012/01/23 08:39:53	2012/01/24 08:39:53	2012/01/25 08:39:53	2012/01/26 08:39:53	2012/01/27 08:39:53
AKA - Main Unit 001										
AKA - Subunit - UC001										
AKA - Subunit - UC002										
AMP-UC003										
AMP-UC004										
AMP-UC005										
BBN-UC1-MC1										
BBN-UC2-MC1										
BBN-UC3-MC1										

Previous 1-10 of 213 Next 10

3. Confirm capability, resource and parts availability if applicable.

The maintenance controller can research the downtime locations and validate if they are available and capable of scheduling a visit to accomplish required maintenance.

- The controller can filter the unit downtime results by Organization, Department, Date Range, Duration, or Maximum Service Category.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Maintenance Schedule

Unit Down Times | Organization Schedule | Fleet Schedule

Search Unit Schedule

Arrival Organization: 5%
 Department:
 Arrival From: 19-Jan-2011 09:00:31
 Service Category: Category 2
 Fleet:
 Unit:
 Departure To:
 Minimum Duration: UOM

Advanced Search

Go Clear

Select Unit Downtimes: View Organization Schedule Go

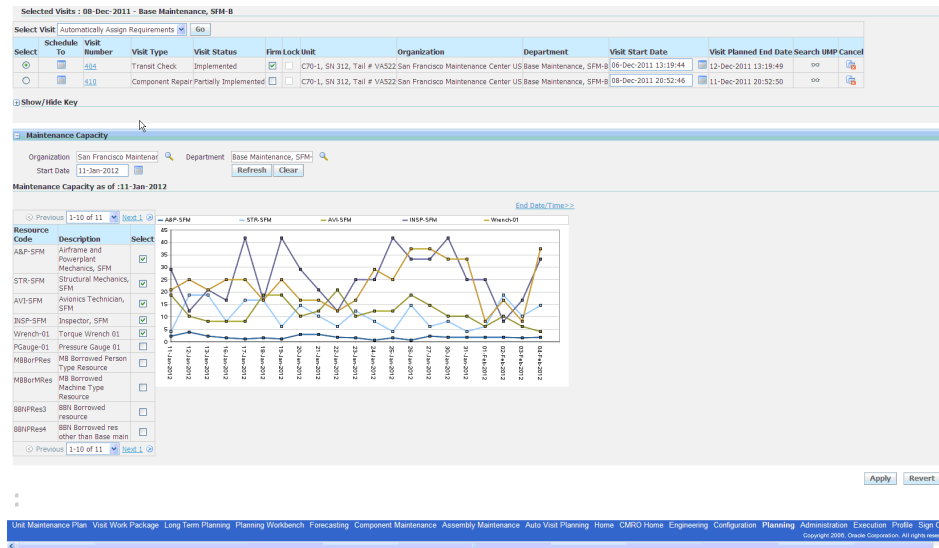
Previous 1-10 of 13 Next 3

Select	Create Visit	Unit	Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure/Actual Departure Time	Search UMP
<input type="radio"/>	<input type="button" value="Add"/>	AMP-UC006	AMP-FL0001	San Francisco Maintenance Center US	Engine Shop, SPM	2	16-Sep-2011 10:00:00							oo
<input type="radio"/>	<input type="button" value="Add"/>	AMP-UC004	AMP-FL0001	San Francisco Maintenance Center US	Engine Shop, SPM	2	29-Sep-2011 12:00:00		72	Hours	AMP-PG004	JFK Maintenance Center US	02-Oct-2011 12:00:00	oo

- The controller can evaluate the resource capacity for an organization and department.

Navigation: Planning > Planning Workbench > Planning Workbench > Maintenance Capacity - Show/Hide section

The controller can select a visit in which to base the organization and department, or they can be manually defined by the user. Up to five resources can be selected and compared on the graph at one time.



- The controller can search inventory at a downtime location to determine availability, prior to scheduling the requirement to a visit at the location.

Navigation: Oracle Inventory

- Locate an existing visit or create a new visit in which to add requirements using the Planning Workbench.

The controller will search for existing visits scheduled during flight schedule downtimes. If there is not an appropriate visit, then the controller can create a new visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Drill into the downtime results rows to locate existing visits.

The screenshot displays the 'Maintenance Schedule' application interface. At the top, there are tabs for 'Unit Down Times', 'Organization Schedule', and 'Fleet Schedule'. Below these is a 'Search Unit Schedule' section with filters for 'Arrival Organization' (San Francisco Maintenance), 'Department' (San Francisco Maintenance), 'Arrival From' (12-Jan-2011 07:21:02), and 'Service Category' (Line Maintenance, SFM). There are also fields for 'Fleet', 'Unit', 'Departure To', and 'Minimum Duration'. A 'Go' button is present. Below the search section is an 'Advanced Search' section with a 'Go' button. The main section is titled 'Select Unit Downtime: View Organization Schedule' and contains a table with columns: 'Select', 'Details', 'Create Visit', 'Unit', 'Arrival Flight', 'Arrival Org.', 'Dept.', 'Service Category', 'Estimated Arrival Time', 'Actual Arrival Time', 'Down Duration', 'Down UOM', 'Departure Flight', 'Next Org.', 'Estimated Departure Time', 'Actual Departure Time', and 'Search UMP'. The table lists several visits, including 'Component Repair Planning' and 'Line Maintenance, SFM'. Below the table is a 'Visit' section with a 'Select Visit' dropdown and a 'Go' button. The 'Visit' section shows details for a specific visit, including 'Visit ID', 'Visit Type', 'Visit Status', 'Visit Start Date', 'Visit Planned End Date', 'Visit Space', 'Visit Lock', and 'Cancel'. The bottom of the screen shows a 'Maintenance Capacity' section with 'Apply' and 'Revert' buttons. The footer contains navigation links and copyright information.

- The controller can click the Visit ID in the Downtime results row to access the Update Visit UI.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit > Maintenance Requirements

The controller can manually search to add planned and unplanned requirements.

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Visits Logged In As TSMITH

Update Visit

* Indicates required field

Cancel Revert Background Push to Production (Jobs Released) Go Apply

☐ Hide Visit Details

Visit Number 65

Unit Item NSASerialItem1

* Organization San Francisco Maintenance

* Start Date 19-Mar-2012 00:00:00

* Planned End Date 19-Mar-2012 10:00:00

Visit Status Planning

Past Dated Visit No

* Visit Name Auto-Visit-65

Visit Type Engine Overhaul

Serial Number NSASerialItem1

* Department Engine Shop, SFM

End Date 19-Mar-2012 10:00:00

Due By Date 13-Dec-2012 00:00:00

Work Order Number 65 - Auto-Visit-65

Build Goal Set up No

Details | Visit Tasks | Task Dependencies | Stages | Maintenance Requirements | Material Requirements | Repair Workscope

Maintenance Requirement Description Program Type

Item Serial Number Status

Unit Position On Wing

Service Request

Go Clear

☐ Show requirements for instances not associated to visit

☐ Show only Service Category Ex

Highest Requirement Service Category 0.

Add Unplanned Requirement Go

Program Type	Title	Description	Service Category	Exception	Service Request	Request Summary	Item	Unit	Position	Serial Number	Instance Number	Quantity	UOM	Tasks	Cost/Price	MR Status	Re
Letter Check	RR Primary Visit MR		0				NSASerialItem1	NSAUC1	21-22-01, Indicator, Rate of Climb, #1	NSA1	2962090	1	Ea			In Planning	

- The controller can optionally assign an open requirement within the Unit Maintenance Plan results to an existing visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The controller can use an existing visit as the basis for searching for additional requirements which could be added to a visit's work scope.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The controller would select a visit and click the search UMP icon, which will default the Unit Maintenance Plan Search criteria.

- The controller can select additional requirements in the Unit Maintenance Plan results and add the requirements to an existing visit by clicking the details Show/Hide and then select a visit using the Schedule To icon.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

This workbench provides the best method to assign the requirement to a visit in which to resolve it.

[illegible]

Maintenance Schedule														
Unit Down Times Organization Schedule Fleet Schedule														
Search Unit Schedule														
<div> Arrival Organization: <input type="text" value="JFK Maintenance Center"/> Department: <input type="text"/> Arrival From: <input type="text" value="08-Apr-2011 08:46:26"/> Service Category >= <input type="text"/> </div> <div> Fleet: <input type="text"/> Unit: <input type="text"/> Departure To: <input type="text"/> Minimum Duration: <input type="text"/> UOM: <input type="text"/> </div>														
Advanced Search														
<input type="button" value="Go"/> <input type="button" value="Clear"/>														
Select Unit Downtime: View Organization Schedule <input type="button" value="Go"/> Previous 1-10 of 59														
Show All Details Hide All Details														
Select	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	UOM	Down Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time
<input type="radio"/>	Show		NSAUC1 NSA120	JFK Maintenance Center US	Line JFK	2	06-Mar-2012 04:00:00	06-Mar-2012	46	Hours	NSAA120	DFW Maintenance Center US	08-Mar-2012 02:00:00	
<input type="radio"/>	Show		NSANEWC NSAReSet900	JFK Maintenance Center US	Line JFK	2	10-Mar-2012 04:00:00		118	Hours	NSAVahana111	DFW Maintenance Center US	15-Mar-2012 02:00:00	
<input type="radio"/>	Show		NSANEWC NSADTV111	JFK Maintenance Center US	Line JFK	2	17-Mar-2012 12:00:00		14	Hours	NSAAALL111	San Francisco Maintenance Center US	18-Mar-2012 02:00:00	
<input type="radio"/>	Show		NSANEWC NSAAALL111	JFK Maintenance Center US	Line JFK	2	19-Mar-2012 19:00:00		103	Hours	NSAEndFlight111	San Francisco Maintenance Center US	24-Mar-2012 02:00:00	
<input type="radio"/>	Show		NSANEWC NSAEndFlight111	JFK Maintenance Center US	Line JFK	2	26-Mar-2012 15:00:00		159	Hours	NSALo1	DFW Maintenance Center US	02-Apr-2012 06:00:00	

Navigation: Planning > Visit Work Package > Search Visits > Update Visit > Maintenance Requirements

- The controller can create a new visit during an available maintenance

opportunity in the unit schedule.

Navigation: Planning > Unit Maintenance Plan > Unit Schedule

The controller can then add requirements to the newly created visit.

5. Request movement of required materials to the visit location, if applicable.
 - Once a visit is created, the controller can research the availability of materials in the Visit Details - Material Requirements tab.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit > Maintenance Requirements

The controller can identify materials that have an availability exception date greater than the required date.

- The controller can then utilize the Marshalling Workbench to secure material that is not available in time by either breaking an existing reservation, transferring from another location, or through cannibalization.

6. Coordinate the aircraft routing to a capable maintenance location, if applicable.

- The controller can coordinate with the aircraft scheduling group to route an aircraft to a certain maintenance location which has the level of service capability (based on service category), resources, and material availability.
- The controller can then update unit down times, and associate a visit to the newly created arrival or departure flight record.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

7. Ensure maintenance activity is accomplished within unit down time.

- The controller can monitor visits and ensure that maintenance is accomplished.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- The controller can defer a maintenance item if it will not be accomplished by the due date.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The controller can search the Unit Maintenance Plan for requirements that are scheduled for a date greater than the due date.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The controller can identify requirements that were removed when visits were cancelled, possibly by the operational visit planning process.

- The controller will push visits to production when planning has finished.

Navigation: Planning > Visit Work Package > Visits > Search Visits

ORACLE® Complex MRO

Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits

Logged In As TSMITH

Search Visits

Simple Search

Note that the search is case insensitive

Item
Serial Number
Organization
Visit Number
Start From Date
Visit Status
Service Category
Display Only
Unit

Service Request
Department
Visit Name
Start To Date
Visit Type
Priority

Show Only Past Dated Visits
Show Only Component Visits

Go Clear

Search Results

Select Visit: Push to Production (Jobs Released) Go Create

Select	Visit Number	Visit Name	Item Unit	Serial Number	Visit Type	Priority	Organization	Department	Start Date	Planned End Date	Scheduled End Date	Visit Status	Concurrent Request	Cost Structure	Cancel
<input checked="" type="radio"/>	16	VA761-C	C70-3	SN 511, Tail # VA761	C Check	3	San Francisco Maintenance Center US	Base Maintenance, SFM-B	30-May-2005	28-Jul-2005	28-Jul-2005	Partially Implemented			

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

The controller can search for visits and then release directly from the search results.

- The controller can push a next due visit to production from the visit details.

Navigation: Planning > Visit Work Package > Visits > Search Visits

ORACLE® Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits

Logged In As TSMITH

Update Visit

* Indicates required field

Cancel Revert Background Push to Production (Jobs Released) Go Apply

Hide Visit Details

Visit Number 16
Unit C70-3, SN 511, Tail # VA761
Item C70-3
Organization San Francisco Maintenance Center US
* Start Date 30-May-2005 00:00:00
Planned End Date 28-Jul-2005 00:00:00
Visit Status Partially Implemented
Past Dated Visit No

Visit Name VA761-C
Visit Type C Check
Serial Number 511
Department Base Maintenance, SFM-B
End Date 28-Jul-2005 00:00:00
Due By Date
Work Order Number SFM46
Build Goal Set up No

Details Visit Tasks Task Dependencies Stages Maintenance Requirements Material Requirements Repair Workscope

Additional Header Details

Sub Inventory
Service Request
Project Template
Priority
Cost/Price
Description
Item Owner

AHL Aircraft Commercial US
C check for VA761
General Technologies

Physical Locator
Service Category
Project
Work Card Progress
Lock visit
Flag Item Owner

Assign Spaces

- The controller can push a next due visit to production from the Unit Schedule view in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Search Unit Schedule

Maintenance Schedule

Unit Down Times Organization Schedule Fleet Schedule

Search Unit Schedule

Arrival Organization San%
Department
Arrival From 16-Mar-2011 00:00:00
Service Category >=

Fleet
Unit NSANEWUC
Departure To
Minimum Duration UOM

Advanced Search

Go Clear

Select Unit Downtime: View Organization Schedule Go

Previous 1-10 of 48 Next 10

Show All Details Hide All Details

Select	Details	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/>	Hide	Show	NSANEWUC	NSADTV111	San Francisco Maintenance Center US	Line Maintenance, SFM	3	16-Mar-2012 16:00:00		12	Hours	NSADTV111	JFK Maintenance Center US	17-Mar-2012 04:00:00		∞

Visit

Select Visit Automatically Assign Requirements Go

Select	Schedule To	Visit Number	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Space	Firm Lock	ADD	Cancel
<input type="radio"/>	Show	150	Engine Overhaul	Planning	16-Mar-2012 16:00:00	17-Mar-2012 06:00:00		<input type="checkbox"/>	<input type="checkbox"/>	Cancel

Select	Details	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/>	Show	NSANEWUC	NSAALL111	San Francisco Maintenance Center US	Line Maintenance, SFM	3	18-Mar-2012 16:00:00		22	Hours	NSAALL111	JFK Maintenance Center US	19-Mar-2012 14:00:00		∞
<input type="radio"/>	Show	NSANEWUC	NSAEndFlight111	San Francisco Maintenance Center US	Line Maintenance, SFM	3	24-Mar-2012 23:00:00		11	Hours	NSAEndFlight111	JFK Maintenance Center US	25-Mar-2012 10:00:00		∞

- The controller can push a next due visit to production from the Organization Schedule view in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Unit Down Times | Organization Schedule | **Fleet Schedule**

Search Organization Schedule

* Organization: San Francisco Maintenance
 Start From: 01-Jan-2012
 Visit Number: []
 Department: []
 Start Before: []
 Space: []
 Display Days Window: 14

Start Day | Start Week | Filter By: All | End Week | End Day | Previous: 1-10 of 16 | Next: 6

Department	Space	01-Jan	02-Jan	03-Jan	04-Jan	05-Jan	06-Jan	07-Jan	08-Jan	09-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
BASE Maintenance Department, SFM															
Base Maintenance, SFM	SFO, Hangar 1, Ray 1														
Base Maintenance, SFM	SFO, Hangar 1, Ray 2														
Base Maintenance, SFM	SFO, Cal Lab 1														
Calibration Lab, SFM															
Component Shop, SFM															
Component Shop, SFM															
Engine Shop, SFM	SFO, Eng Shop 1														
Engine Shop, SFM	SFO, Eng Shop 2														

Selected Visits: 01-Jan-2012 - Base Maintenance, SFM

Select Visit: Automatically Assign Requirements | Go

Select	To	Visit Number	Visit Type	Visit Status	Firm Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOG	Search	UMP	Cancel
<input type="radio"/>	26	Engine Overhaul/Implemented				C70-1, SN 312, Tail # VA522	San Francisco Maintenance Center	US Base Maintenance, SFM	09-Sep-2011 02:00:00	13-Dec-2012 07:43:52		oo		
<input type="radio"/>	28	Engine Overhaul/Partially Implemented				C70-3, SN 311, Tail # VA761	San Francisco Maintenance Center	US Base Maintenance, SFM	09-Sep-2011 06:22:00	09-Sep-2012 06:22:00		oo		

- The controller can push a next due visit to production from the Fleet Schedule view in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

No search conducted.

Maintenance Schedule

Unit Down Times | Organization Schedule | **Fleet Schedule**

Search Fleet Schedule

* Fleet: AMP-FL010
 Master Configuration
 Start From: 11-Jan-2012
 Unit: []
 Minimum Duration: [] UOM: Days
 Start Before: []
 Display Days Window: 14

Start Day | Start Week | End Week | End Day

Unit: [11-Jan][12-Jan][13-Jan][14-Jan][15-Jan][16-Jan][17-Jan][18-Jan][19-Jan][20-Jan][21-Jan][22-Jan][23-Jan][24-Jan]

C70-1, SN 311, Tail # VA521

Selected Visits: 11-Jan-2012 - C70-1, SN 311, Tail # VA521

Select Visit: Automatically Assign Requirements | Go

Select	To	Visit Number	Visit Type	Visit Status	Firm Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	Search	UMP	Cancel
<input type="radio"/>	112	Component Repair	Implemented			C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SFM-6	11-Aug-2011 13:15:00	11-Aug-2012 13:15:51	oo		
<input type="radio"/>	130	Component Overhaul/Implemented				C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SFM-6	16-Aug-2011 00:00:00	16-Aug-2012 00:00:00	oo		
<input type="radio"/>	131	RL_Visit_Type	Planning			C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SFM-6	16-Aug-2011 14:11:00	16-Aug-2012 14:11:00	oo		
<input type="radio"/>	136	RL_Visit_Type	Implemented			C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SFM-6	18-Aug-2011 11:30:00	18-Aug-2012 11:30:00	oo		
<input type="radio"/>	145	RD Visit Type	Planning			C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Base Maintenance, SFM-6	11-Jan-2012 00:00:00	11-Feb-2012 00:00:00	oo		

Show/Hide Key

Maintenance Capacity

Apply | Revert

Unit Maintenance Plan Visit Work Package Long Term Planning Planning Workbench Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administrative Execution Profile Sign Out
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8. Communicate aircraft serviceability, if applicable.

The controller can update the serviceability of an aircraft in the maintenance control application, through an electronic message or verbal communication.

9. Confirm maintenance accomplishment is recorded and visit is completed and closed.

- The controller can search for the unit and confirm that the visit is completed and closed out, with the schedule requirements signoff and accomplished.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit

Down Times

- The controller may be required to document third-party maintenance; this can include recording work order accomplishment.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview > Work Order Operations

Oracle Complex MRO Work Order Overview page. The page displays a search form for work orders. The form includes fields for Organization, Department, Department Class, Item, Serial Number, Visit Number, Visit Name, Unit Name, Maintenance Requirement, Start Date, BOM Resource, Service Type, Work Order Num, Work Order Description, Operation Code, Operation Description, Priority, Confirmed Failure, Work Order Status, Non-Routine Work Order, Resolution Code, End Date, and Work Order Type. There are also checkboxes for 'All Operations Completed' and 'Go' and 'Clear' buttons. Below the form is a table with columns: Select, Work Order Num, Work Order Description, Visit Number, Unit Name, Item, Serial Number, Non-Routine, OSP Order Num, Scheduled Start Date, Scheduled End Date, Status, All Operations Completed, Work Card, and Work Card Progress. The table currently shows 'No records were found matching the given criteria...'.

- The controller can close the visit.

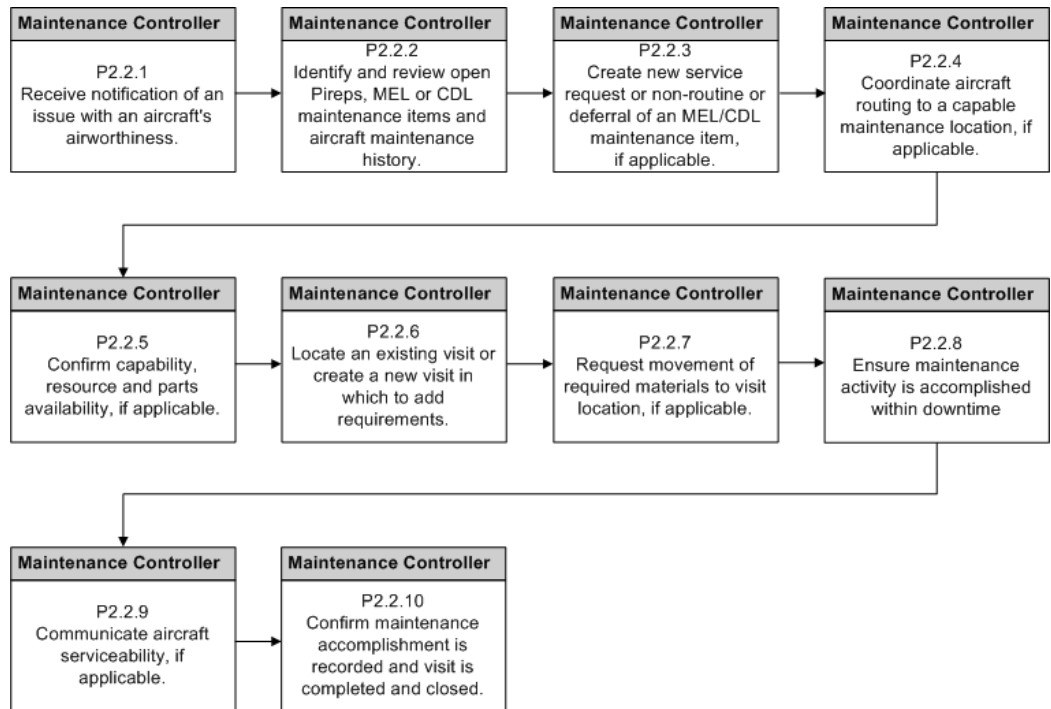
Navigation: Execution > Production Planning > Visits > Search Visit

Oracle Complex MRO Search Visit page. The page displays a search form for visits. The form includes fields for Visit Number, Visit Type, Start From Date, Start To Date, Visit Status, Organization, Department, Item, Serial Number, and Unit. There are 'Go' and 'Clear' buttons. Below the form is a table with columns: Select, Visit Number, Visit Type, Item, Serial Number, Unit, Organization, Department, Start Date, Visit Status, Work Card, and Work Card Progress. The table shows one record with Visit Number 512, Visit Type Component Repair, Item LH-C130-Hercules, Serial Number C130-4, Unit M-LH-C130-UC4, Organization San Francisco Maintenance Center US, Department BASE Maintenance Department for MARS, Start Date 21-APR-2012, and Visit Status Implemented.

2.2. Major Task - Manage unplanned maintenance:

Task Description: The Maintenance Controller will be the central point of coordination for unscheduled maintenance of an aircraft that is assigned to the flight schedule.

Task Flow



1. Receive notification of an issue relating to the airworthiness of the aircraft.

The controller will receive notification that an aircraft required unplanned maintenance. This could be a verbal communication, electronic message or similar method.

2. Identify and review open Pireps, MEL and CDL maintenance items, and aircraft maintenance history.

- The controller can search the Unit Maintenance Plan to identify open requirements, including MEL and CDL items.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

The controller can evaluate the maintenance history of the aircraft by viewing completed requirements during a defined time period.

- The controller can search both open and closed non-routines to evaluate the maintenance history of the aircraft.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Advanced Search

- The controller can search the work order history of an aircraft.

Navigation: Execution > Service History > Work Orders > Search Work Orders

Use unit and date ranges as additional search criteria.

3. Create a new service request, non-routine, or deferral of an MEL or CDL maintenance item, if applicable.

- The controller can create a new service request and non-routine in which to document the aircraft discrepancy.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Create > Create Non-routine

Enter values in these required fields:

- Item

- Instance
 - Serial
 - Type
 - Program Summary
 - Customer Name
- The controller will then update the non-routine, define the resolution criteria, and initialize the non-routine using the Update Non-routine page.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Update

The controller can also defer the requirement per MEL and CDL regulations and policies.

The screenshot displays the 'Update Non-routine' page in the Oracle Complex MRO system. The page is divided into two main sections: 'Unit / Component Details' and 'Non-Routine Details'. In the 'Unit / Component Details' section, fields include Unit (SS_MEL_02), Log Series (A), Item (C70-1), Instance (3116163), and various dates and times for visits and work orders. The 'Non-Routine Details' section includes Request Date (05-Dec-2012), Problem Code (MEL CODE), Incident Date (05-Dec-2012), Status (Open), Customer Name (General Technologies), and Severity (Medium). Buttons for 'Initialize', 'Cancel', and 'Apply' are located at the top right of the form.

4. Coordinate the aircraft routing to a capable maintenance location, if applicable.
 - The controller can coordinate with the aircraft scheduling group to route an aircraft to a specific maintenance location which has the level of service capability (service category), resources, and material availability.
 - The controller can then update the unit downtime and associate the visit to the newly created arrival or departure flight record using the Planning Workbench - Unit Downtimes tab.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

5. Confirm capability, resource and applicable parts availability of downtime

locations.

- The controller can filter the unit downtime results by Organization, Department, Date Range, Duration, and Maximum Service Category.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The screenshot shows the 'Maintenance Schedule' interface. At the top, there are tabs for 'Unit Down Times', 'Organization Schedule', and 'Fleet Schedule'. Below the tabs is a search area with fields for 'Arrival Organization' (set to 5%), 'Department', 'Arrival From' (18-Jan-2011 09:00:31), 'Service Category' (Category 2), 'Fleet', 'Unit', 'Departure To', and 'Minimum Duration'. There are 'Go' and 'Clear' buttons. Below the search area is a table with columns: 'Select', 'Details', 'Create Visit', 'Unit', 'Arrival Flight', 'Arrival Org.', 'Dept.', 'Service Category', 'Estimated Arrival Time', 'Actual Arrival Time', 'Down Duration', 'Down UOM', 'Departure Flight', 'Rest Org.', 'Estimated Departure/Actual Departure Time', and 'Search UMP'. The table contains two rows of data. The first row has a 'Select' radio button, a 'Details' icon, a 'Create Visit' icon, unit 'AMP-UC006', arrival flight 'FL6001', arrival org 'San Francisco Maintenance Center US', dept 'Engine Shop', service category '2', estimated arrival time '18-Sep-2011 10:00:00', actual arrival time, down duration '72', down uom 'Hours', departure flight 'AMP-PG004', rest org 'JFK Maintenance Center US', estimated departure/actual departure time '02-Oct-2011 12:00:00', and search ump 'oo'. The second row has a 'Select' radio button, a 'Details' icon, a 'Create Visit' icon, unit 'AMP-UC004', arrival flight 'FL6001', arrival org 'San Francisco Maintenance Center US', dept 'Engine Shop', service category '2', estimated arrival time '29-Sep-2011 12:00:00', actual arrival time, down duration, down uom, departure flight, rest org, estimated departure/actual departure time, and search ump 'oo'.

- The controller can evaluate the resource capacity for an organization and department using the Maintenance Capacity region in the Planning Workbench UI.

Navigation: Planning > Planning Workbench > Planning Workbench > Maintenance Capacity - Show/Hide section

The controller can select or manually create a visit in which to base the organization and department. Up to five resources can be selected and compared on the graph at one time.

- The MCC can search the inventory at a downtime location to determine availability, prior to scheduling the requirement to a visit at the location.

Navigation: Oracle Inventory

6. Locate an existing visit or create a new visit in which to add requirements using the Planning Workbench - Unit Down Times tab.

- The controller can drill into the downtime results rows to locate existing visits.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The controller can select additional requirements in the UMP results and add the requirements to an existing visit using the Schedule To icon.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

This workbench provides the best method to assign the requirement to a visit.

- The controller can click the Visit ID in the downtime results row to access the Update Visit UI.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit > Maintenance Requirements

ORACLE® Complex MRO

Unit Maintenance Plan | **Visit Work Package** | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Visits

Update Visit

* Indicates required field

Cancel Revert Close Go Apply

Hide Visit Details

Visit Number: 121
Unit: OSP-MDUC1
Item: OSP-MDITEM1
Organization: San Francisco Maintenance Center US

* Start Date: 08-Mar-2012 00:36:00
(example: 24-Mar-2013 19:45:00)

* Planned End Date: 22-Mar-2012 00:37:07
(example: 24-Mar-2013 19:45:00)

Visit Status: Implemented
Past Dated Visit: Yes

Visit Name: OSP-MDVisit1
Visit Type: Component Repair
Serial Number: OSP-MDITEM1001
Department: Line Maintenance, SFM
End Date: 22-Mar-2012 00:37:07

Due By Date:

Work Order Number: 121 - OSP-MDVisit1
Build Goal Set up: No

Details | Visit Tasks | Task Dependencies | Stages | **Maintenance Requirements** | Material Requirements | Repair Workscope

Additional Header Details

Sub Inventory: STORES
Service Request: AHLT1202463224
Project Template:
Priority:
Cost/Price:
Description:
Item Owner: Business World

Physical Locator: 1.1.1..
Service Category:
Project:
Work Card Progress: ☐ Lock visit
☐ Flag Item Owner

Assign Spaces

Space: Start from End on Remove
No results found.
Add Another Space

The controller can add planned and unplanned requirements in the Visit Details - Maintenance Requirements tab.

- The controller can assign an open requirement to an existing visit from the UMP results.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

- The controller can use an existing visit as the basis to search for additional requirements which could be added to the work scope of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The controller could then select a visit and click the search UMP icon, which will default the Unit Maintenance Plan Search criteria.

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Overview Utilization Forecast Unit Schedule Flight Schedules Non-routines

Logged In As TSMITH

Search Unit Maintenance Plan

Unit Name Search For

Item Serial Number

Sort by Status

Title Program Type

Non Routine Type Non Routine Num

Due from Due to ☐ Include Tolerance Dates

Visit Organization Visit Department

☐ Show Dependent Components ☐ Show Child Maintenance Requirements

☐ Show Replicate ☐

+ against Version denotes the Maintenance Requirement version is not latest or the version is terminated

Select	Program Type	Title	Version	Item	Serial Num	UOM	Remain	Cnt	Earlier Due	Due Date	Latest Due	Tolerance	Status	Sched. Date	Visit	Originator Title	Dependent Title	Trigger Type	Deferred From	Deferred To	Manually Planned	
<input type="radio"/>	Routine Check	VA-C70-Transit-01	1	C70-2	412										01-OCT-2006	17						<input checked="" type="checkbox"/>
<input type="radio"/>	Letter Check	27-073-00	2	MRO-C1600	101																	
<input type="radio"/>	Letter Check	27-073-00	2	MRO-C1600	102																	

- The controller can select additional requirements in the UMP results and add the requirements to the visit using the Schedule To icon.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Maintenance Schedule

Unit Down Times Organization Schedule Fleet Schedule

Search Unit Schedule

Arrival Organization Fleet

Department Unit

Arrival From Departure To

Service Category Minimum Duration UOM

Advanced Search

Select Unit Downtimes: View Organization Schedule

Select	Details	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/>	<input type="button" value="Show"/>	<input type="button" value="Create"/>	RRUC1 RRF123	San Francisco Maintenance Center US	Engine Shop, SFM	5	12-Apr-2013 08:00:00			6	Hours	RRFL24	San Francisco Maintenance Center US	12-Apr-2013 14:00:00		<input type="button" value="Show"/>
<input type="radio"/>	<input type="button" value="Show"/>	<input type="button" value="Create"/>	RRUC1 RRF124	San Francisco Maintenance Center US	Engine Shop, SFM	5	12-Apr-2013 15:00:00			706	Hours	RRFL30	San Francisco Maintenance Center US	12-May-2013 01:00:00		<input type="button" value="Show"/>
<input type="radio"/>	<input type="button" value="Show"/>	<input type="button" value="Create"/>	RRUC1 RRF130	San Francisco Maintenance Center US	Engine Shop, SFM	5	12-May-2013 02:00:00			12	Hours	RRFL31	San Francisco Maintenance Center US	12-May-2013 14:00:00		<input type="button" value="Show"/>

- The controller can use the Planning Workbench to create a new visit during the downtime period by clicking the Create Visit icon.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The controller can add requirements to the newly created visit.

- The controller can create a new visit during an available maintenance opportunity in the Unit Schedule.

Navigation: Planning > Unit Maintenance Plan > Unit Schedule

The controller can then add requirements to the newly created visit.

The screenshot displays the 'Unit Maintenance Plan' software interface. The top navigation bar includes tabs for 'Unit Maintenance Plan', 'Visit Work Package', 'Long Term Planning', 'Planning Workbench', 'Forecasting', 'Component Maintenance', 'Assembly Maintenance', and 'Auto Visit Planning'. The 'Unit Maintenance Plan' tab is active, showing a sub-menu with 'Overview', 'Utilization Forecast', 'Unit Schedule', 'Flight Schedules', and 'Non-routines'. The 'Unit Schedule' sub-menu is selected, displaying a grid of maintenance events for various aircraft units. The grid columns represent dates from 2012/01/18 to 2012/01/27. The rows list aircraft units such as 'A320-300-001', 'A320-300-002', 'A320-300-003', 'A320-300-004', 'A320-300-005', 'A320-300-006', 'A320-300-007', 'A320-300-008', 'A320-300-009', 'A320-300-010', 'A320-300-011', 'A320-300-012', 'A320-300-013', 'A320-300-014', 'A320-300-015', 'A320-300-016', 'A320-300-017', 'A320-300-018', 'A320-300-019', 'A320-300-020', 'A320-300-021', 'A320-300-022', 'A320-300-023', 'A320-300-024', 'A320-300-025', 'A320-300-026', 'A320-300-027', 'A320-300-028', 'A320-300-029', 'A320-300-030', 'A320-300-031', 'A320-300-032', 'A320-300-033', 'A320-300-034', 'A320-300-035', 'A320-300-036', 'A320-300-037', 'A320-300-038', 'A320-300-039', 'A320-300-040', 'A320-300-041', 'A320-300-042', 'A320-300-043', 'A320-300-044', 'A320-300-045', 'A320-300-046', 'A320-300-047', 'A320-300-048', 'A320-300-049', 'A320-300-050'. The grid cells contain icons representing different maintenance events, such as 'S' for scheduled maintenance, 'M' for maintenance opportunity, and 'E' for multiple events. The interface also includes search filters for 'Unit Name', 'Barn Number', 'Display Increment', 'Start Date and Time', 'Serial Number', and 'UDOM'. The bottom of the grid shows pagination controls: 'Previous 1-10 of 213 Next 10'.

7. Request movement of required materials to the visit location, coordinate an expedited return, exchange, loan or borrow from another airline or parts pool.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit > Material Requirements

- Once a visit is created, the controller can research the availability of materials in the Visit Details - Material Requirement tab. The controller can identify materials that have an availability exception date greater than the required date.
- The controller can then use the Materials Management Workbench to secure material that is not available in time by breaking an existing reservation, transferring from another location, or through cannibalization.
- The controller can convert an OSP order from a service to an exchange order.

Navigation: Execution > Outside Processing > OSP Orders > Search

The controller will first identify open orders.

- The controller can then convert the order from a service to an exchange order.

Navigation: Execution > Outside Processing > OSP Orders > Search > Edit Order

Select Convert to Exchange, and then click the Go button.

ORACLE® Complex MRO

CMRO
 Home Home Engineering Configuration Planning Administration Execution Profile

Production Planning Outside Processing Service History Material Transactions

OSP Orders Inventory Items

Logged In As TSMITH

General
 Shipment
 PO Details

Edit OSP Order 12000: General

* Indicates required field

Order Number **12000** Order Date **08-Mar-2012**
 Order Status **PO Created** Buyer Name **Smith, Mr. Tom**
 Description Vendor Location **SANTA CLARA**
 Vendor Name **Advanced Network Devices** Shipment Number **80043**
 Vendor Contact **Mr Martin Rapp** Vendor Warranty **Yes**
 Order Type **Service**
 OSP Attachments **None** Add...

Cancel Convert To Exchange Go Apply

Order Lines

Line Number	Status	Job Number	Item Number	Service Item	Quantity	UOM	Need By Date	Change Item	Warranty Review
Show 1	PO Created		MBSrCtrTrk	43722-OVHL	1	Ea	10-Mar-2012	+	
Show 2	PO Created		MBSrCtrTrk	501RC2X-OVHL	1	Ea	10-Mar-2012	+	

Cancel Convert To Exchange Go Apply

Production Planning Outside Processing Service History Material Transactions Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

8. Ensure maintenance activity is accomplished and on time.

- The controller can monitor visits and ensure that maintenance is accomplished using the Planning Workbench - Unit Maintenance Plan.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- The controller can defer a maintenance item if it will not be accomplished by the due date.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Maintenance Schedule

Unit Down Times Organization Schedule Fleet Schedule

Search Unit Schedule

Arrival Organization: 5%
 Department:
 Arrival From: 09-Apr-2013 08:54:06
 Service Category: >=

Fleet:
 Unit:
 Departure To:
 Minimum Duration: UOM: >

Advanced Search

Go Clear

Select Unit Downtimes: View Organization Schedule Go

Show All Details Hide All Details

Select Details	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Depart Org.	Estimated Departure Time	Actual Departure Time	Search UMR
Show		RRUC1 RRP123		San Francisco Maintenance Center US	Engine Shop, SFM	5	12-Apr-2013 08:00:00		6	Hours	RRPL24	San Francisco Maintenance Center US	12-Apr-2013 14:00:00		oo
Show		RRUC1 RRP124		San Francisco Maintenance Center US	Engine Shop, SFM	5	12-Apr-2013 15:00:00		706	Hours	RRPL30	San Francisco Maintenance Center US	12-May-2013 01:00:00		oo
Show		RRUC1 RRP130		San Francisco Maintenance Center US	Engine Shop, SFM	5	12-May-2013 02:00:00		12	Hours	RRPL31	San Francisco Maintenance Center US	12-May-2013 14:00:00		oo

- The controller can search the Unit Maintenance Plan for requirements that are scheduled for a date greater than the due date.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

The controller can identify requirements that were removed when visits were cancelled, possibly by the operational visit planning process.

- The controller will push visits to production when planning has finished.

The controller can search for visits and then release directly from the search results.

Navigation: Planning > Visit Work Package > Visits > Search Visits

1. Navigate to the Search Visits page, and search for a visit.
2. Select the visit.
3. Select Push to Production (Jobs Released) in the Select Visits drop-down, and click the **Go** button.

Unit Maintenance Plan | **Visit Work Package** | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit

Visits Logged In As TSMITH

Search Visits

Simple Search

Note that the search is case insensitive

Item

Serial Number

Organization

Visit Number

Start From Date

Visit Status

Service Category

Display Only

Unit

Service Request

Department

Visit Name

Start To Date

Visit Type

Priority

☐ Show Only Past Dated Visits

☐ Show Only Component Visits

Go **Clear**

Search Results

Select Visit: **Push to Production (Jobs Released)** **Go** **Create**

Select	Visit Number	Visit Name	Item	Unit	Serial Number	Visit Type	Priority	Organization	Department	Planned Start Date	Planned End Date	Scheduled End Date	Visit Status	Concurrent Request
	394	VISIT TEST STAGES	SS_Airframe	SS_P100_7111	7111	SS_P100_A_CHECK		San Francisco Maintenance Center US	Line Maintenance, Apr-2012	05-2012	07-Apr-2012	07-Apr-2012	Implemented	

- The controller can push a next due visit to production from the visit details in the Update Visit page.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit

ORACLE® Complex MRO

CMRO
 Home Home Engineering Configuration Planning Administration Execution Profile

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit

Visits

Logged In As TSMITH

Update Visit

* Indicates required field

☐ Hide Visit Details

Cancel Revert Background Push to Production (Jobs Released) Go Apply

Visit Number 62

Unit ISAUC1

Item ISASerialItem1

* Organization San Francisco Maintenance

* Start Date 12-Mar-2012 02:00:00
 (example: 25-Mar-2013 19:45:00)

* Planned End Date 20-Mar-2012 12:00:00
 (example: 25-Mar-2013 19:45:00)

Visit Status Planning

Past Dated Visit No

* Visit Name Auto-Visit-62

Visit Type Engine Overhaul

Serial Number ISA1

* Department Engine Shop, SFM

End Date 20-Mar-2012 12:00:00

Due By Date 10-Dec-2012 00:00:00

Work Order Number 62 - Auto-Visit-62

Build Goal Set up No

- The controller can push a next due visit to production from the Planning Workbench - Unit Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The controller can push a next due visit to production from the Planning Workbench - Organization Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule > Selected Visits

Unit Down Times Organization Schedule Fleet Schedule

Search Organization Schedule

* Organization San Francisco Maintenance

Start From 01-Jan-2012

Visit Number

Go Clear

Department

Start Before

Space

Display Days Window 14

Start Day Start Week Filter By All End End Week End Day Previous 1-10 of 16 Next 6

Department	Space	[01-Jan]	[02-Jan]	[03-Jan]	[04-Jan]	[05-Jan]	[06-Jan]	[07-Jan]	[08-Jan]	[09-Jan]	[10-Jan]	[11-Jan]	[12-Jan]	[13-Jan]	[14-Jan]
BASE Maintenance, SFM															
Base Maintenance, SFM	SFO, Hangar 1, Bay 1														
Base Maintenance, SFM	SFO, Hangar 1, Bay 2														
Base Maintenance, SFM															
Calibration Lab, SFM	SFO, Cal Lab 1														
Calibration Lab, SFM															
Component Shop, SFM															
Component Shop, SFM															
Engine Shop, SFM	SFO, Eng Shop 1														
Engine Shop, SFM	SFO, Eng Shop 2														

Selected Visits: 01-Jan-2012 - Base Maintenance, SFM

Select Visit Automatically Assign Requirements Go

Select	To	Schedule Number	Visit Type	Visit Status	Firm Lock/Unit	Organization	Department	Visit Start Date	Visit Planned End Date	A06 Search	IMP	Cancel
<input type="radio"/>	<input type="checkbox"/>	26	Engine Overhaul/Implemented		<input type="checkbox"/>	C70-1, SN 312, Tail # VA522 San Francisco Maintenance Center US Base Maintenance, SFM	US Base Maintenance, SFM	09-Sep-2011 02:00:00	13-Dec-2012 07:43:52			
<input type="radio"/>	<input type="checkbox"/>	28	Engine Overhaul/Partially Implemented		<input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SFM	US Base Maintenance, SFM	09-Sep-2011 06:22:00	09-Sep-2012 06:22:00			

- The controller can push a next due visit to production from the Planning Workbench - Fleet Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

No search conducted.

Maintenance Schedule

Unit Down Times | Organization Schedule | **Fleet Schedule**

Search Fleet Schedule

* Fleet: AMP-FL010

Master Configuration: 11-Jan-2012

Start From: Go Clear

Unit: C70-1, SN 311, Tail # VAS21

Minimum Duration: UOM Days

Start Before: 14

Display Days Window: 14

Start Day | Start Week | End Week | End Day

Unit: C70-1, SN 311, Tail # VAS21

Selected Visits: 11-Jan-2012 - C70-1, SN 311, Tail # VAS21

Select Visit | Automatically Assign Requirements | Go

Select	To	Visit Number	Visit Type	Visit Status	Firm	Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	Search	UMP	Cancel
<input type="radio"/>	122	Component Repair	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US	Outside Processing SPM-8	11-Aug-2011 13:15:00	11-Aug-2012 13:15:00	...		
<input type="radio"/>	120	Component Overhaul	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US	Outside Processing SPM-8	16-Aug-2011 00:00:00	16-Aug-2012 00:00:00	...		
<input type="radio"/>	121	R_VISIT_TYPE	Planning	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US	Outside Processing SPM-8	16-Aug-2011 14:11:00	16-Aug-2012 14:11:00	...		
<input type="radio"/>	146	R_VISIT_TYPE	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US	Outside Processing SPM-8	16-Aug-2011 11:30:00	16-Aug-2012 11:30:00	...		
<input type="radio"/>	485	RD Visit Type	Planning	<input checked="" type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US	Base Maintenance, SPM-8	11-Jan-2012 00:00:00	11-Feb-2012 00:00:00	...		

Show/Hide Key

Maintenance Capacity

Apply Revert

Unit Maintenance Plan | Visit Work Package | Long Term Planning | Planning Workbench | Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning | Home | CMRO Home | Engineering | Configuration | Planning | Administration | Execution | Profile | Sign Out

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9. Communicate aircraft serviceability, if applicable.

The controller can update the serviceability of aircraft in the maintenance control application, through an electronic message or a verbal communication.

10. Confirm that maintenance accomplishment is recorded, and the visit is completed and closed.

- The MCC can search for the unit and confirm that the visit is completed and closed out, with the schedule requirements signoff and accomplished.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The MCC may be required to document third-party maintenance, which may include recording work order accomplishment.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview

- The MCC can close visits.

Navigation: Execution > Production Planning > Visits > Search Visit

ORACLE® Complex MRO

Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits Logged In As TSMITH

Update Visit

* Indicates required field

[Hide Visit Details](#)

Visit Number	121	Visit Name	OSP-MDVisit1
Unit	OSP-MDUC1	Visit Type	Component Repair
Item	OSP-MDITEM1	Serial Number	OSP-MDITEM1001
Organization	San Francisco Maintenance Center US	Department	Line Maintenance, SFM
* Start Date	08-Mar-2012 00:36:00	End Date	22-Mar-2012 00:37:07
<small>(example: 24-Mar-2013 19:45:00)</small>		Due By Date	
* Planned End Date	22-Mar-2012 00:37:07	Work Order Number	121 - OSP-MDVisit1
<small>(example: 24-Mar-2013 19:45:00)</small>		Build Goal Set up	No
Visit Status	Implemented		
Past Dated Visit	Yes		

[Details](#) [Visit Tasks](#) [Task Dependencies](#) [Stages](#) [Maintenance Requirements](#) [Material Requirements](#) [Repair Workscope](#)

Additional Header Details

Sub Inventory	STORES	Physical Locator	1.1.1..
Service Request		Service Category	
Project Template	AHILT1202463224	Project	
Priority		<input type="checkbox"/> Lock visit	
Cost/Price		Work Card Progress	
Description		<input type="checkbox"/> Flag Item Owner	
Item Owner	Business World		

Assign Spaces

Space Start from End on Remove

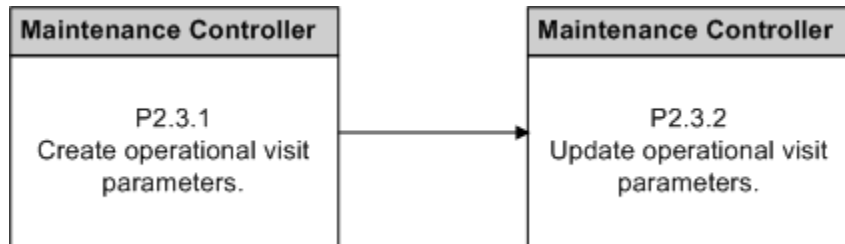
No results found.

[Add Another Space](#)

2.3. Major Task - Manage operational visit parameters:

Task Description: The maintenance controller will set up and maintain the autovisit parameters to create, update and cancel operational visits based on the flight schedule for an aircraft.

Task Flow



Prerequisites

Prerequisite Setup Task	Role Performing Task	Navigation
Visit Type Profiles Defined: Duration Defined	Engineer	Administration > Visit Types > Search Visit Types

Prerequisite Setup Task	Role Performing Task	Navigation
Fleet maintenance program created and defined for MRs <ul style="list-style-type: none"> • Tolerance before/after threshold • Min Service Category • Maintenance Organization Defined 	Engineer	Engineering > Fleet Maintenance Program > Overview > Create
Maintenance Department Defined: Max Service Category Defined	Engineer	Administration > Department Location > Search for the department
Department Spaces Defined: Master Configuration and Visit Type defined	Engineer	Administration > Spaces

1. Create operational visit parameters.

The controller will work with the engineering group to set up operational visit parameters which will ensure that certain visits are automatically created, based on the flight schedule and the arrival and departure organization.

1. The controller will create the operational parameters by organization, master configuration, and visit type.

Navigation: Planning > Auto Visit Planning > Operational Visit Autocreate > Search Operational Parameters

ORACLE® Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Operational Visit Autocreate | Primary Visit Requests | Primary Visit Default Parameters

Logged In As: TSMITH

Operational Visit Autocreate

* Indicates required field

Revert Run create operational visits procedure Go Apply

Search Operational Parameters

Organization Master Configuration Visit Type

Flight Category Create For Ground Time Period Start >= End <=

(example: 26:59) (example: 26:59)

☒ Show only enabled records

Go Clear

Organization	Department	Master Configuration	Flight Category	Create For	Ground Time		Visit Type	Estimated Duration	Alternate Department	Enabled	Duplicate	Remove
					From (Hours)	To (Hours)						
No search conducted.												
Add More Rows												

Revert Run create operational visits procedure Go Apply

- The controller will add rows to define the operational parameters for visits that will be created based on flights in the aircraft operational flight schedule.

Navigation: Planning > Auto Visit Planning > Operational Visit Autocreate > Search Operational Parameters > Add More Rows (B)

ORACLE® Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Operational Visit Autocreate | Primary Visit Requests | Primary Visit Default Parameters

Logged In As: TSMITH

Operational Visit Autocreate

* Indicates required field

Revert Run create operational visits procedure Go Apply

Search Operational Parameters

Organization Master Configuration

Flight Category Create For

☒ Show only enabled records

Go Clear

Organization	Department	Master Configuration	Flight Category	Create For	Ground Time		Visit Type
					From (Hours)	To (Hours)	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Downtime	<input type="text"/>	<input type="text"/>	<input type="text"/>
Add More Rows							

Revert Run create operational visits procedure Go Apply

The controller will define generic rows based on a master configuration only, or more specific rows based on the arrival and departure organization. The visits can be created as a preflight, postflight or downtime duration.

- Update operational visit parameters.

The controller will update the operational parameters as aircraft maintenance programs are modified and the capability for the maintenance organization is

updated.

Navigation: Planning > Auto Visit Planning > Operational Visit Autocreate > Search Operational Parameters

Organization	Department	Master Configuration	Flight Category	Create For	Ground Time	Visit Type
					From (Hours) To (Hours)	
San Francisco Maintenan	Base Maintenance, SFM-	C70-1	Arrival			Transit Check Old
San Francisco Maintenan	Base Maintenance, SFM-	C70-1	Departure			Transit Check Old
San Francisco Maintenan	Base Maintenance, SFM-	C70-1	Downtime	15:00	(example: 26:59)	Transit Check Old
San Francisco Maintenan	Base Maintenance, SFM-	C70-3	Downtime	05:00	(example: 26:59)	Engine Overhaul
San Francisco Maintenan	Engine Shop, SFM	RRMC1	Arrival			RR_TEST_AVF
San Francisco Maintenan	Engine Shop, SFM	RRMC1	Departure			RR_TEST_AVF
San Francisco Maintenan	Engine Shop, SFM	RRMC1	Extended Operations	Downtime	08:00 (example: 26:59) 100:00 (example: 26:59)	Engine Overhaul
San Francisco Maintenan	Line Maintenance, SFM	C70-1	Arrival			Transit Check Old
San Francisco Maintenan	Line Maintenance, SFM	C70-1	Departure			Transit Check Old
San Francisco Maintenan	Outside Processing SFM-	RTMCFinal	Domestic Operations	Downtime	5000:00 (example: 26:59) 5200:00 (example: 26:59)	Component Overhaul

Role 3.0 - Local Maintenance Planner

This role is focused on planning maintenance at the local maintenance base or station. This can include managing the execution of preplanned maintenance visits, utilizing flight down times to correct open MEL or CDL maintenance items, and coordinating the repair and return of an out of service aircraft.

The planner will coordinate with the Maintenance Planning and Maintenance Control groups to ensure the execution of all preplanned maintenance visits. These visits would be scheduled during downtime periods in the flight schedule and are used to accomplish scheduled maintenance such as inspections, line checks, and planned component removals and to correct open Pireps and MEL and CDL maintenance items.

The planner will also evaluate down times between flights in which to correct open Pireps and MEL and CDL maintenance items, especially during down times when the aircraft will remain on the ground for an extended period of time. The planner can create new maintenance visits or add work to existing visits in which to clear these items. The planner may coordinate the work with the Maintenance Planning and Maintenance Control groups, so that the aircraft may not be removed from service during the visit.

The planner can also coordinate the repair and return of an out of service aircraft. This includes the planning and accomplishment of non-routine maintenance to perform

emergency repairs, or to perform repairs to aircraft that have been diverted to a specific location. The planner will coordinate with the Maintenance Control group to create a non-routine maintenance visit and ensure the accomplishment of the required maintenance. The line maintenance planner will also coordinate the deferral of any maintenance that cannot be accomplished during the downtime due to capability, parts, and time constraints.

In addition, the planner will also coordinate with the inventory group to ensure that the required parts are on hand to accomplish the required maintenance. This can include requesting the movement of parts if the items are not normally stocked in the local inventory. The planner can also coordinate the issue and return of components from inventory.

Associated Major Business Type: Aircraft Operator, page 2-3

Prerequisites

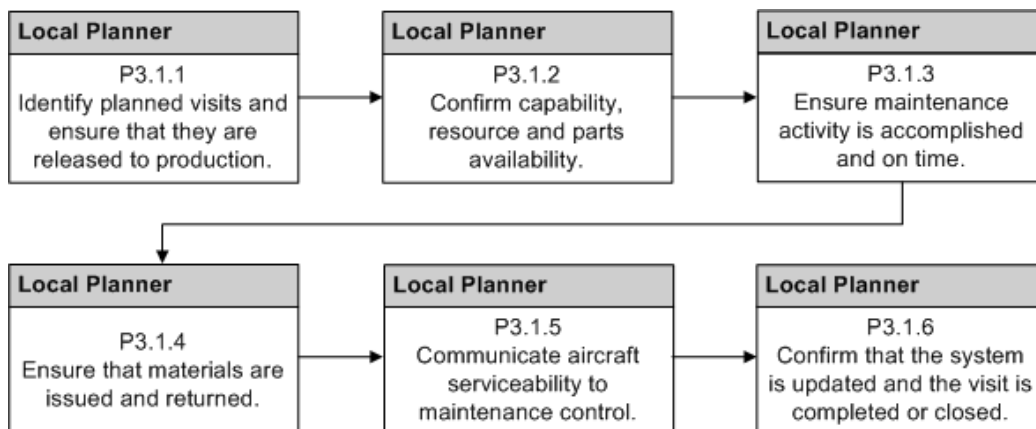
- ☐ The following prerequisite setup task must be performed:

Prerequisite Task	Role Performing Task	Navigation
Create visits.	Maintenance Planner Heavy Maintenance Planner	Planning > Visit Work Package > Visits > Create (B) Planning > Planning Workbench > Planning Workbench > Unit Down Times > Create Visit

3.1. Major Task - Manage the execution of visits:

Task Description: The planner will coordinate with the Maintenance Planning and Maintenance Control groups to ensure the execution of all preplanned maintenance visits.

Task Flow



1. Identify planned visits and ensure that they are released to production.

- The planner can use the Planning Workbench to search an organization or department to identify visits that are scheduled during aircraft unit down times.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The planner can search by date and time range. Only visits with a status of Closed, Partially Implemented or Implemented are available for selection.

Select	Details	Create	Visit	Unit	Arrival	Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Operation	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search
<input type="radio"/>			AMP-UCB01	FL001			San Francisco Maintenance Center US	Line Maintenance, SPM		12-Jul-2011 14:00:00								100

- The planner can also use the Planning Workbench to search an organization to identify visits that are scheduled for a date range to an organization, department and space.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Maintenance Schedule

Visit Down Times | **Organization Schedule** | Fleet Schedule

Search Organization Schedule

* Organization: San Francisco Maintenance
 Start From: 11-Jul-2011
 Visit Number:
 Go Clear

Department:
 Start Before:
 Space:
 Display Days Window: 14

Start Day: | Start Week: | Filter By: All | Go | End Week: | End Day: | Previous 10 | 21-28 of 28 | Next

Department	Space	(11-Jul)	(12-Jul)	(13-Jul)	(14-Jul)	(15-Jul)	(16-Jul)	(17-Jul)	(18-Jul)	(19-Jul)	(20-Jul)	(21-Jul)	(22-Jul)	(23-Jul)	(24-Jul)
Line Maintenance, SFM	SFO, Ramp 2														
Line Maintenance, SFM															
Outside Processing, SFM-B															
Outside Processing, SFM-R1															
Outside Processing, SFM-999															
Outside Processing, SFM-Test															
Outside Processing, SFM															
Test dept created by ad															

Selected Visits:

Select: Schedule To Visit Number Visit Type Visit Status Firm Lock Unit Organization Department Visit Start Date Visit Planned End Date Search UMP Cancel

No results found.

Show/Hide Key

Maintenance Capacity

Apply Revert

Unit Maintenance Plan Visit Work Package Long Term Planning Planning Workbench Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

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- The planner can also search an organization and identify visits by date range in the Visit Work Package - Visits UI.

Navigation: Planning > Visit Work Package > Search Visits

ORACLE Complex MRO

Navigator | Favorites | Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits

Logged In As: TSMITH

Search Visits

Simple Search

Note that the search is case insensitive

Item:
 Serial Number:
 Organization:
 Visit Number:
 Start From Date: 20-Feb-2013 (example: 25-Mar-2013)
 Visit Status:
 Service Category:
 Display Only:
 Unit:
 Go Clear

Service Request:
 Department:
 Visit Name:
 Start To Date: 01-Apr-2013 (example: 25-Mar-2013)
 Visit Type:
 Priority:
☐ Show Only Past Dated Visits
☐ Show Only Component Visits

Search Results

Select Visit: Cost and Price Information | Go | Create

Select	Visit Number	Visit Name	Item	Unit	Serial Number	Visit Type	Priority	Organization	Department	Start Date	Planned End Date	Scheduled End Date	Visit Status	Concurrent Request	Cost Structure	Cancel
<input type="radio"/>	1477	Auto-Visit-1477	RRS/CVT/TK	RRUC1	RR1000	Compressor Module Overhaul		San Francisco Maintenance Center US	Engine Shop, SFM	24-Feb-2013	25-Feb-2013	25-Feb-2013	Planning			
<input type="radio"/>	1479	Auto-Visit-1479	RRS/CVT/TK	RRUC1	RR1000	Compressor Module Overhaul		San Francisco Maintenance Center US	Engine Shop, SFM	25-Feb-2013	26-Feb-2013	26-Feb-2013	Planning			
<input type="radio"/>	1524	Auto-Visit-1524	RRS/CVT/TK	RRUC1	RR1000	RR_TEST_AVF		San Francisco Maintenance Center US	Engine Shop, SFM	01-Mar-2013	02-Mar-2013	02-Mar-2013	Implemented			
<input type="radio"/>	1922	VC_INSPECTION/SS_Airframe	SS_CAB_004	SS_CAB_004	SS_P100_C_CHECK			San Francisco Maintenance Center US	Engine Shop, SFM	27-Feb-2013	30-Mar-2013	30-Mar-2013	Implemented			
<input type="radio"/>	1925	Visit department SS_Airframe	SS_CAB_001	SS_CAB_001				San Francisco Maintenance Center US	Base Maintenance, SFM-B	01-Apr-2013			Draft			

- The planner can search an organization and identify visits by date range in the Execution - Production Planning UI.

Navigation: Execution > Production Planning > Visits > Search Visits

ORACLE® Complex MRO

CMRO
 Navigator Favorites Home Home Engineering Configuration Planning Administration Execution Profile On

Production Planning Outside Processing Service History Material Transactions

Work Orders Operations Resources Materials Maintenance Requirements My Work Orders Visits

Logged In As TSMITH

Search Visit

Visit Number Organization

Visit Type Department

Start From Date 15-JAN-2013 Item

Start To Date 28-FEB-2013 Serial Number

Visit Status Unit

Go Clear

Select a Visit: Close Visit Go

Select	Visit Number	Visit Type	Item	Serial Number	Unit	Organization	Department	Start Date	Visit Status	Work Card	Work Card Progress
<input type="radio"/>	1915	Engine Overhaul	RRS/CtrTrk	RR1000	RRUC1	San Francisco Maintenance Center US	Engine Shop, SFM	24-JAN-2013	Implemented		
<input type="radio"/>	1916	RR_DEMO	RRS/CtrTrk	RR1000	RRUC1	San Francisco Maintenance Center US	Engine Shop, SFM	24-JAN-2013	Partially Implemented		
<input type="radio"/>	1918	SS_P100_C-CHECK	SS_Airframe	SS_CAB_002	SS_CAB_002	San Francisco Maintenance Center US	Line Maintenance, SFM	24-JAN-2013	Implemented		
<input type="radio"/>	1919	Engine Overhaul	C70-1	311	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US	Base Maintenance, SFM-B	25-JAN-2013	Implemented		
<input type="radio"/>	1920	Component Maintenance				San Francisco Maintenance Center US	Outside Processing SFM-B	14-FEB-2013	Implemented		

- The planner can push visits to production when planning has finished.
- The planner can search and release visits directly from the visit search results table.
- The planner can push a visit to production from the Update Visit page.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

ORACLE® Complex MRO

CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits

Logged In As TSMITH

Update Visit

* Indicator required field

Cancel Revert Close Go Apply

Hide Visit Details

Visit Number 131
 Unit CAMP-MDUC02
 Item CAMP-MDUC02Trk1
 Organization San Francisco Maintenance Center US
 * Start Date 12-Mar-2012 01:49:00
 * Planned End Date 26-Mar-2012 01:50:54
 Visit Status Implemented
 Past Dated Visit Yes

Visit Name CAMP-MDVTB01
 Visit Type Component Repair
 Serial Number CAMP-MDUC02Trk1S001
 Department Line Maintenance, SFM
 End Date 26-Mar-2012 01:50:54
 Due By Date
 Work Order Number 131 - CAMP-MDVTB01
 Build Goal Set up No

Details Visit Tasks Task Dependencies Stages Maintenance Requirements Material Requirements Repair Workscope

Additional Header Details

Sub Inventory
 Service Request
 Project Template
 Priority
 Cost/Price
 Description
 Item Owner Business World

Physical Locator
 Service Category
 Project
 Work Card Progress
☐ Lock visit
☐ Flag Item Owner

Assign Spaces

Space Start from End on Remove
 No results found.
 Add Another Space

- The planner can push a visit to production from the Unit Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Search Unit Schedule

- The planner can push a visit to production from the Organizational Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule > Selected Visits

2. Confirm capability, resource and parts availability.

- The planner can verify that scheduled visits do not exceed the service capability for the organization by viewing the visit details using the Update Visit page.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Visit Details

The planner can also review the individual tasks to ensure that they do not exceed the service capability.

- The planner can search the unit down times in the Planning Workbench for any exceptions based on the service category for the organization, department, and date and time range.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Search Unit Schedule

- The planner can search the UMP in the Planning Workbench for any exceptions based on the service category for the organization, department, and date and time range.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan > Search

- The planner can confirm that visits scheduled to an organization and department are assigned to an available space within the Planning Workbench.

Navigation: Planning > Planning Workbench > Planning Workbench >

Organization Schedule > Schedule results

- The planner can confirm that there will be available resources on staff during the visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Maintenance Capacity

- The planner can use the personnel scheduling system to verify that adequate resources are scheduled.
- The planner can evaluate the material requirements for the visit in the Update Visit - Material Requirements tab.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit > Material Requirements

The planner can reserve items by selecting the serial controlled or tracked item, selecting Reserve Items from the Select Material Requirement drop-down, and then navigating to the Materials Management workbench.

Update Visit

* Indicates required field

Cancel Revert Close Go Apply

Hide Visit Details

Visit Number: 131
Unit: CAMP-MDUC02
Item: CAMPMDSCCTF1K1
Organization: San Francisco Maintenance Center US
Start Date: 12-Mar-2012 01:49:00
Planned End Date: 26-Mar-2012 01:50:54
Visit Status: Implemented
Visit Dated: Yes

Visit Name: CAMP-MDVT01
Visit Type: Component Repair
Serial Number: CAMPMDSCCTF1K3001
Department: Line Maintenance, SEM
End Date: 26-Mar-2012 01:50:54
Due By Date:
Work Order Number: 131 - CAMP-MDVT01
Build Goal Set up: No

Details Visit Tasks Task Dependencies Stages Maintenance Requirements Material Requirements Repair Workscope

Task: Replace % >= Rework % >= View only requirements with exception dates

Item: Go Clear

Materials

Select Material Requirement: Reserve Items Go

Position	Sub Configuration	Item Group	Item	Item Description	For Task	Task Type	Task Status	Required Date	Schedule Quantity	Required Quantity	Reserved Quantity	Exception Quantity	Available Quantity	Replace %	Rework %
*			CAMPMDSCCTF1K1	Serial Controlled Tracked Item	4	Unplanned In Shop	Floor	12-Mar-2012	0						

Cancel Revert Close Go Apply

Unit Maintenance Plan Visit Work Package Planning Workbench Field Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

- The planner can then use the Materials workbench to secure material that is not available in time by breaking an existing reservation, transferring from another location, or through cannibalization.
3. Ensure maintenance activity is accomplished and on time.
- The planner can monitor visits and ensure that maintenance is accomplished. Delays will be communicated to the maintenance planner through an electronic message or verbal communication.
 - The planner can defer a time compliant maintenance item if it will not be accomplished during the downtime visit due to parts, reproducibility or time constraints.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit

Down Times > Down Times results

Deferrals may be communicated to the maintenance planner through an electronic message or a verbal communication.

4. Ensure that materials are issued and returned.

Navigation: Execution > Material Transactions > Issues > Material Issue

- The planner will ensure that materials are properly issued to visits.

- The planner will ensure that materials are properly returned from visits.

Navigation: Execution > Material Transactions > Returns > Material Returns

5. Communicate aircraft serviceability to maintenance control.

- The planner will provide notification to a maintenance planner that the required maintenance for an aircraft has been completed.

This notification would most likely be an exception-based process, for only those visits which exceed the planned down time window. This could be a verbal communication, electronic message, or similar method.

6. Confirm that the system is updated and that the visit is completed and closed.

- The planner can search for the unit and confirm that the visit is completed and closed out, with the schedule requirements signoff and accomplished.

Navigation: Planning > Planning Workbench > Unit Down Times

The screenshot shows the 'Maintenance Schedule' interface. It includes tabs for 'Unit Down Times', 'Organization Schedule', and 'Fleet Schedule'. The 'Search Unit Schedule' section has fields for 'Arrival Organization' (set to '57'), 'Department', 'Arrival From' (set to '18-Jan-2011 10:42:47'), 'Service Category', 'Fleet', 'Unit', 'Departure To', and 'Minimum Duration' (set to 'UOM'). There are 'Go' and 'Clear' buttons. Below this is the 'Advanced Search' section. The 'Select Unit Downtime' section shows a table with columns: 'Select', 'Details', 'Create', 'Unit', 'Arrival Flight', 'Arrival Org.', 'Dept.', 'Service Category', 'Estimated Arrival Time', 'Actual Arrival Time', 'Down Duration', 'Down UOM', 'Departure Flight', 'Next Org.', 'Estimated Departure Time', 'Actual Departure Time', and 'Search UOM'. The table contains one row for 'AMP-UC001 FL001' with an arrival time of '12-Jul-2011 14:00:00'. Below the table is a 'Visit' section with a 'Select Visit' dropdown and a table with columns: 'Select', 'Schedule', 'To', 'Visit Number', 'Visit Type', 'Visit Status', 'Visit Start Date', 'Visit Planned End Date', 'Visit Space', 'Firm', 'Lock', and 'Cancel'. The table contains two rows for visit numbers 65 and 92, both for 'Component Repair Planning'.

- The planner may also be required to document third-party maintenance. This may include recording work order accomplishment.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview

The screenshot shows the 'Oracle Complex MRO' interface. It has a top navigation bar with 'Production Planning', 'Outside Processing', 'Service History', and 'Material Transactions'. Below this is a 'Work Order Overview' section with various search filters on the left and right. The left filters include 'Organization', 'Department', 'Department Class', 'Item', 'Serial Number', 'Visit Number', 'Visit Name', 'Unit Name', 'Maintenance Requirement', 'Start Date', 'BOM Resource', and 'Service Type'. The right filters include 'Work Order Num', 'Work Order Description', 'Operation Code', 'Operation Description', 'Priority', 'Confirmed Failure', 'Work Order Status', 'Non-Routine Work Order', 'Resolution Code', 'End Date', and 'Work Order Type'. There are 'Go' and 'Clear' buttons. Below the filters is a table with columns: 'Select', 'Work Order Num', 'Work Order Description', 'Visit Number', 'Unit Name', 'Item', 'Serial Number', 'Non-Routine', 'OSP Order Num', 'Scheduled Start Date', 'Scheduled End Date', 'Status', 'All Operations Completed', 'Work Card', and 'Work Card Progress'. The table contains one row for 'Work Order Num' 123456789. Below the table is a message: 'No records were found matching the given criteria..'

- The planner can close the visits and sign off the maintenance requirements.

Navigation: Execution > Production Planning > Visits > Search Visits

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Production Planning Outside Processing Service History Material Transactions

Work Orders Operations Resources Materials Maintenance Requirements My Work Orders Visits

Logged In As TSMITH

Search Visit

Visit Number

Visit Type

Start From Date 01-JAN-2013

Start To Date 01-APR-2013

Visit Status

Go Clear

Organization

Department

Item

Serial Number

Unit

Select a Visit: Close Visit

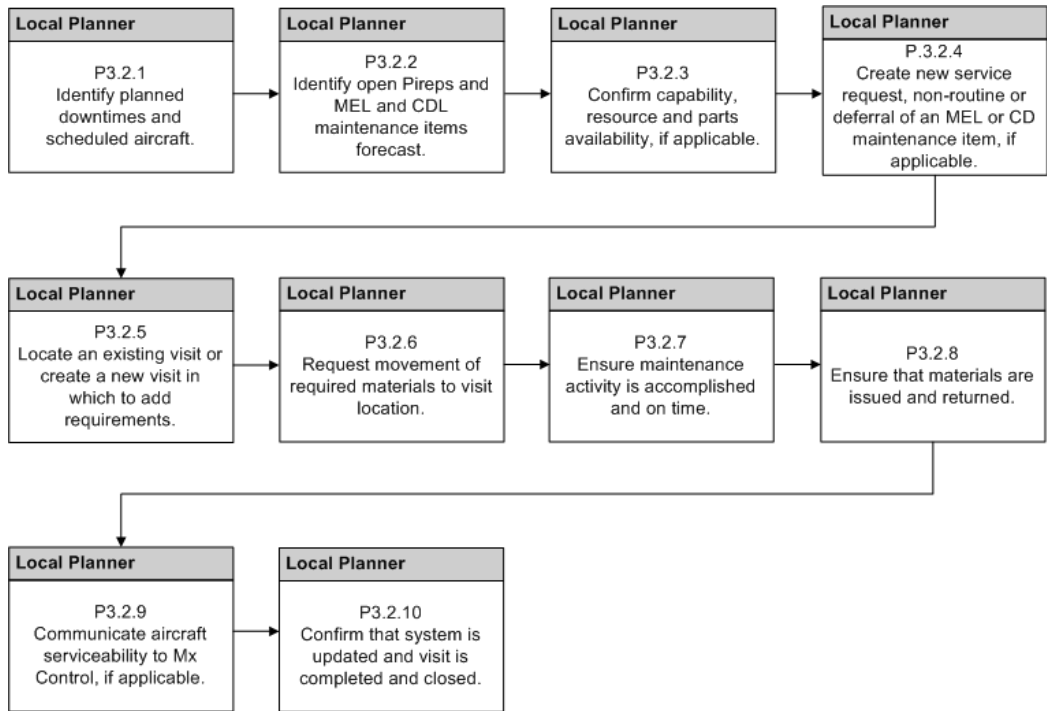
Select	Visit Number	Visit Type	Item	Serial Number	Unit	Organization	Department	Start Date	Visit Status	Work Card	Work Card Progress
<input type="radio"/>	1524	RR_TEST_AVF	RRSrCtTrk	RR1000	RRUC1	San Francisco Maintenance Center US	Engine Shop, SFM	01-MAR-2013	Implemented		
<input type="radio"/>	1914	SS_P100_A_CHECK	SS_Airframe	SS_CAB_001	SS_CAB_001	San Francisco Maintenance Center US	Line Maintenance, SFM	03-JAN-2013	Implemented		
<input type="radio"/>	1915	Engine Overhaul	RRSrCtTrk	RR1000	RRUC1	San Francisco Maintenance Center US	Engine Shop, SFM	24-JAN-2013	Partially Implemented		
<input type="radio"/>	1916	RR_DEMO	RRSrCtTrk	RR1000	RRUC1	San Francisco Maintenance Center US	Engine Shop, SFM	24-JAN-2013	Partially Implemented		
<input type="radio"/>	1918	SS_P100_C_CHECK	SS_Airframe	SS_CAB_002	SS_CAB_002	San Francisco Maintenance Center US	Line Maintenance, SFM	24-JAN-2013	Implemented		
<input type="radio"/>	1919	Engine Overhaul	C70-1	311	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US	Base Maintenance, SFM-8	25-JAN-2013	Implemented		
<input type="radio"/>	1920	Component Maintenance				San Francisco Maintenance Center US	Outside Processing, SFM-8	14-FEB-2013	Implemented		
<input type="radio"/>	1921	Component Overhaul	MBSrCtTrk	MBIBSN001_RTNEW	MBUC1	San Francisco Maintenance Center US	Outside Processing, SFM-8	14-FEB-2013	Implemented		
<input type="radio"/>	1922	SS_P100_C_CHECK	SS_Airframe	SS_CAB_004	SS_CAB_004	San Francisco Maintenance Center US	Engine Shop, SFM	27-FEB-2013	Implemented		

Select a Visit: Close Visit

3.2. Major Task - Clear Open Pireps, MEL or CDL Items and Support Out of Service Aircraft:

Task Description: The planner will evaluate downtimes between flights in which to correct open Pireps and MEL and CDL maintenance items, especially during down times when the aircraft will remain on the ground for an extended period of time. This role will also support the return of out of service aircraft.

Task Flow



1. Identify planned downtimes and scheduled aircraft.

- The planner can use the Planning Workbench to search an organization or department to identify scheduled aircraft unit down times. The planner can search by date and time range.

Navigation: Planning > Planning Workbench > Unit Down Times > Unit Down Times results

- The planner can search the unit schedule and find maintenance opportunities.

Navigation: Planning > Unit Maintenance Plan > Unit Schedule

Unit Maintenance Plan Visit Work Package Long Term Planning Planning Workbench Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning											
Overview Utilization Forecast Unit Schedule Flight Schedules Non-routines											
Logged In As: TSMITH											
Unit Schedules											
<input checked="" type="checkbox"/> Conflict <input checked="" type="checkbox"/> Flight Scheduled <input checked="" type="checkbox"/> Maintenance Opportunity <input checked="" type="checkbox"/> Multiple Events <input checked="" type="checkbox"/> Multiple Events with Maintenance Opportunity <input checked="" type="checkbox"/> Visit Scheduled											
Unit Name: <input type="text"/> Start Date and Time: <input type="text" value="18-Jan-2012 08:39:53"/>											
Item Number: <input type="text"/> Serial Number: <input type="text"/>											
Display Increment: <input type="text" value="1"/> UDM: <input type="text"/>											
Go Clear											
Unit: 2012/01/18 08:39:53 2012/01/19 08:39:53 2012/01/20 08:39:53 2012/01/21 08:39:53 2012/01/22 08:39:53 2012/01/23 08:39:53 2012/01/24 08:39:53 2012/01/25 08:39:53 2012/01/26 08:39:53 2012/01/27 08:39:53											
ASK - Main Unit 001 <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"/>											
ASK - Subunit - JCB01 <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"/>											
ASK - Subunit - JCB02 <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"/>											
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AMP - JCB04 <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"/>											
BBL JCB - MSC1 <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"/>											
BBL JCB - MSC2 <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"/>											
BBL JCB - MSC3 <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"/>											
BBL JCB - MSC4 <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"/>											
Previous 1-10 of 213 Next 10											

- Identify open Pireps and MEL or CDL maintenance items.
 - The planner can use the Planning Workbench to search for open UMP requirements in the context of an aircraft unit and down time.
- Navigation:** Planning > Planning Workbench > Planning Workbench > Unit Down Times > Unit Down Times results

ORACLE Complex MRO

Unit Maintenance Plan | Visit Work Package | Long Term Planning | **Planning Workbench** | Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Logged in As: TSM07

Planning Workbench

Unit Maintenance Plan

Hide UMP Search Region

Simple Search

Unit Name: AMP-UC001
 Item:
 Title:
 Due From:
 Program Type:
 Due Within: UOM
 Arrival Organization:
 Non Routine Type:
 Fleet:
 Serial Number:
 Scheduled Status: Unscheduled
 Due To:
 Program Sub Type:
 Implement Status:
 On Wing:
 Include Tolerance Date:
 Show Dependent Requirements:
 Go Clear

Select Requirements: Search Unit Downtimes Create Visit

Select	Details	Unit	Program Type	Title	Item Number	Serial Number	View All UOMs	Cnt Name	Cnt UOM	UOM	Earlier Due	Due Date	Latest Date	Schedule Date	Service Visit/Request
<input type="checkbox"/>	Show	AMP-UC001	Block	RegMaintenance	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	-40		27-May-2011			
<input type="checkbox"/>	Show	AMP-UC001	Non-routine	Stop11201461492-54982	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	0		28-Sep-2011			14982
<input type="checkbox"/>	Show	AMP-UC001	Engine Overhaul	SR-MRO001	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	150		03-Oct-2011			
<input type="checkbox"/>	Show	AMP-UC001	Engine Overhaul	AMP-MRO002	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	150					
<input type="checkbox"/>	Show	AMP-UC001	Corrosion	AMP-MRO003	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	150					
<input type="checkbox"/>	Show	AMP-UC001	Engine Overhaul	AMP-SR-MRO	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	50					
<input type="checkbox"/>	Show	AMP-UC001	Corrosion	AMP-FL-MRO2	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	150					
<input type="checkbox"/>	Show	AMP-UC001	Block	RegMaintenance2	AMP-PT001	AMP-PT001-SH001	oo								
<input type="checkbox"/>	Show	AMP-UC001	Engine Overhaul	SR-AMP-MRO001	AMP-PT001	AMP-PT001-SH001	oo								
<input type="checkbox"/>	Show	AMP-UC001	Block	RegMaintenance3	AMP-PT001	AMP-PT001-SH001	oo	AMP-CT001	UHR	50					

Select Requirements: Search Unit Downtimes Create Visit

Maintenance Schedule

Unit Down Time | Organization Schedule | Fleet Schedule

Search Unit Schedule

Arrival Organization: SFA
 Department:
 Arrival From: 18-Jan-2011 12:00:43
 Service Category: >=
 Fleet:
 Unit:
 Departure To:
 Minimum Duration: UOM
 Go Clear

Select Unit Downtime: View Organization Schedule Go

Select	Details	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/>	Show	AMP-UC001	FL001	San Francisco Maintenance Center US	Line Maintenance, SPM		12-Jul-2011 14:00:00								oo
<input type="radio"/>	Show	MBUCL	FL002	San Francisco Maintenance Center US	Line Maintenance, SPM		14-Jul-2011 15:00:00								oo
<input type="radio"/>	Show	AMP-UC006	AMP-FL001	San Francisco Maintenance Center US	Engine Shop, SPM	2	16-Sep-2011 10:00:00								oo
<input type="radio"/>	Show	AMP-UC002	FS002	San Francisco Maintenance Center US	Base Maintenance, SPM-B		16-Sep-2011 11:00:00		233	Hours	FS001	JFK Maintenance Center US	26-Sep-2011 04:00:00		oo
<input type="radio"/>	Show	KM-AMP-UC004	AMP-FG003	San Francisco Maintenance Center US	Engine Shop, SPM	2	29-Sep-2011 12:00:00		72	Hours	AMP-FG004	JFK Maintenance Center US	02-Oct-2011 12:00:00		oo
<input type="radio"/>	Show	SR-AMP-UC002	FS001	San Francisco Maintenance Center US	Engine Shop, SPM	2	30-Sep-2011 04:00:00		70	Hours	FS002	JFK Maintenance Center US	03-Oct-2011 02:00:00		oo
<input type="radio"/>	Show	AMP-UC002	FS002	San Francisco Maintenance Center US	Base Maintenance, SPM-B		01-Oct-2011 11:00:00								oo
<input type="radio"/>	Show	KM-AMP-UC006	KM-FL001	San Francisco Maintenance Center US	Engine Shop, SPM	2	02-Oct-2011 21:00:00		34	Hours	KM-FL002	JFK Maintenance Center US	04-Oct-2011 07:00:00		oo
<input type="radio"/>	Show	SR-AMP-UC002	FS003	San Francisco Maintenance Center US	Engine Shop, SPM	2	06-Oct-2011 03:00:00		46	Hours	FS004	JFK Maintenance Center US	08-Oct-2011 01:00:00		oo
<input type="radio"/>	Show	KM-AMP-UC004	AMP-FG006	San Francisco Maintenance Center US	Engine Shop, SPM	2	10-Oct-2011 14:00:00								oo

Select Unit Downtime: View Organization Schedule Go

Maintenance Capacity

Apply Revert

Unit Maintenance Plan | Visit Work Package | Long Term Planning | **Planning Workbench** | Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning | Home | CMRO Home | Engineering | Configuration | Planning | Administration | Execution | Profile | Sign Out

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The planner can locate a down time and click the Search UMP icon. The default value for the UMP search criteria will consider the service category for the arrival organization, and the duration of the scheduled down time. The planner can then search for open requirements.

The planner can select one or more requirements and add to an existing visit during the down time, or create a new visit in context of the down time.

This workbench provides the best method to identify a requirement for a unit and assign it to an existing visit or create a new visit to resolve it.

- The planner can search for open UMP requirements in the context of an arriving organization and date range.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

ORACLE[®] Complex MRO

Navigator

Favorites

CMRO

Home Home

Engineering Configuration

Planning Administration

Execution Profile Out

Help

Unit Maintenance Plan

Visit Work Package

Planning Workbench

Fleet Forecasting

Component Maintenance

Assembly Maintenance

Auto Visit Planning

Overview | Utilization Forecast | Unit Schedule | Flight Schedules | Non-routines

Logged In As TSMITH

Search Unit Maintenance Plan

Unit Name

C70-1%

Item

Sort by

Due Date

Title

Non Routine Type

Due from

01-APR-2012

Visit Organization

Show Dependent Components

Show Replicate

Go

Clear

Search For

All

Serial Number

Status

Unscheduled

Program Type

Non Routine Num

Due to

Visit Department

Visit Number

Include Tolerance Dates

Show Child Maintenance Requirements

ⓘ + against Version denotes the Maintenance Requirement version is not latest or the version is terminated

Select Unit Maintenance Plan: Associate to Visit

Go

Previous 1-10 of 46 Next

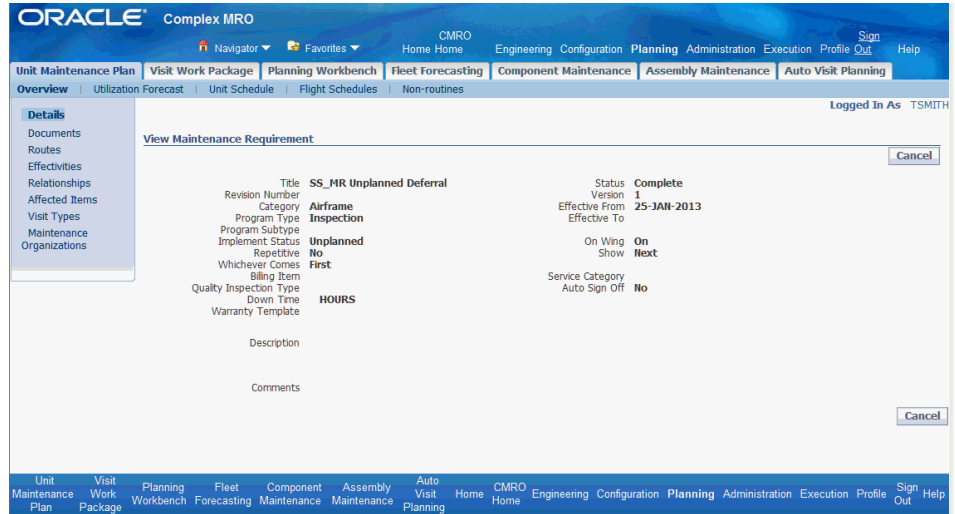
Select	Program Type	Title	Version	Item	Serial Num	UOM	Remain	Cat Name	Earlier Due	Due Date	Latest Due	Tolerance	Status	Sched. Date	Visit Title	Originator Title	Dependent Title	Trigger Type	Deferred From	Deferred To	Manually Planned
<input type="radio"/>	Line Maintenance	Replace First Aid Kit	1		C70-3111		-185	TSN		01-NOV-2012		Yes									
<input type="radio"/>	Line Maintenance	Replace O2 Generator	1		C70-3111		-185	TSN		01-NOV-2012		Yes									
<input type="radio"/>	Line Maintenance	Replace Skidraft	1		C70-3111		-185	TSN		01-NOV-2012		Yes									
<input type="radio"/>	Inspection	SS_MR Unplanned Deferral	1		C70-3111					30-JAN-2013		Yes									<input checked="" type="checkbox"/>
<input type="radio"/>	Line Maintenance	Replace O2 Generator	1		C70-3131		-65	TSN		21-MAR-2013		Yes									

The system will search the flight schedule and return results rows that are in the context of units that will arrive in the organization during the date range provided.

- The planner can search the accomplishment parameters for the requirement, such as Program Type, Subtype, minimum Service Category, duration, and maintenance organization within the Details results.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan > Select a MR > Select View Maintenance Requirements in the Select Unit Maintenance Plan drop-down > View Maintenance Requirement

3-56 Oracle Complex Maintenance, Repair, and Overhaul Process Guide



3. Confirm capability, resources, and parts availability, if applicable.

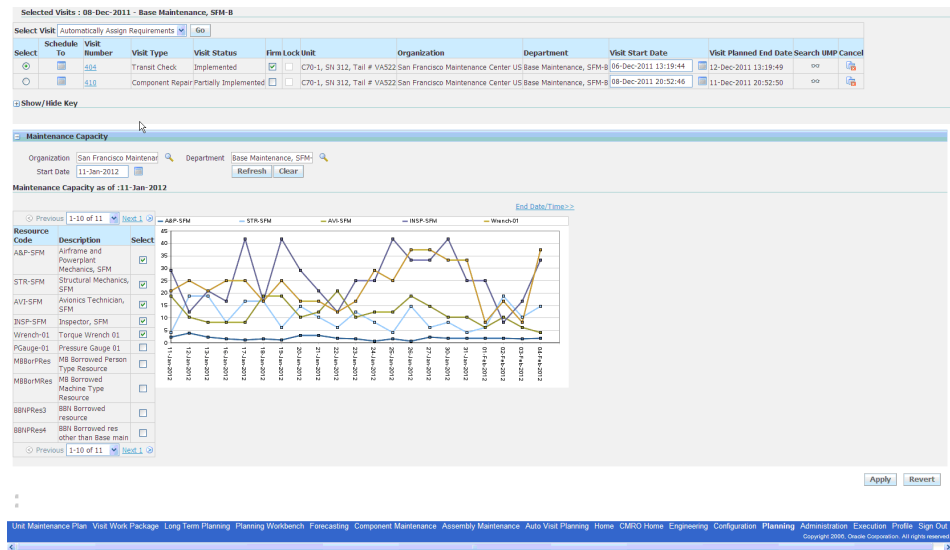
The planner can click the title of the requirement to search other attributes based on the source maintenance requirement definition, including material requirements.

- The planner can filter the unit downtime results by Organization, Department, Date Range, Duration or Maximum Service Category.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Unit Down Times results

- The planner can evaluate the resource capacity for an organization and department.

Navigation: Planning > Planning Workbench > Planning Workbench > Maintenance Capacity - Show/Hide region



The planner can select a visit in context of the organization and department, or manually create a visit. Up to five resources can be selected and compared on the graph at one time.

- The planner can search inventory at a downtime location to determine availability, prior to scheduling the requirement to a visit at the location.

Navigation: Oracle Inventory

4. Create a new service request, non-routine, or deferral of an MEL or CDL maintenance item, if applicable.

- The planner can create a new service request or non-routine to document the aircraft discrepancy.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Create

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Overview Utilization Forecast Unit Schedule Flight Schedules Non-routines

Logged In As TSMITH

Create Non-routine

* Indicates required field

Cancel Apply

Unit / Component Details

Unit Flight Number
Log Series Log Number
* Item * Serial
* Instance

Non-Routine Details

Request Date 11-Apr-2013
* Type stype11202463402
Customer Type Organization
Contact Type
Urgency
Problem Code
* Problem Summary

Incident Date
(example: 27-Mar-2013)
Status Open
* Customer Name
Contact Name
Severity Medium
Quality Inspection Type

Descriptive Flexfields

- The planner will then update the non-routine, define the resolution criteria, and initialize the non-routine.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Search Non-routine > Update

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Overview Utilization Forecast Unit Schedule Flight Schedules Non-routines

Logged In As TSMITH

Update Non-routine: 77382

* Indicates required field

Initialize Cancel Apply

Unit / Component Details

Unit C70-1, SN 311, Tail # V4
Log Series A
Item C70-1
Instance 644123
Quantity 1
Visit Number 1926
Visit Start Date Time 04-Apr-2013 01:18:00
Task Name stype11202463402-77382
Associated Work Order SMPW0434364
Firm Work order Yes

Next Higher Assembly
Flight Number
Log Number 658564
Serial 311
UOM Ea
Visit Name SS_V_QA Plan
Visit End Date Time 30-Apr-2013 01:20:54
Originating Work Order
Work Order Scheduled Start 04-Apr-2013 01:18:00
Estimated Duration

Non-Routine Details

Request Date 08-Apr-2013
Type stype11202463402
Customer Type Organization
Contact Type
Urgency
Problem Code
Problem Summary test mel

Incident Date 08-Apr-2013
Status Planned
Customer Name General Technologies
Contact Name
Severity Medium
Service Type Administration
Quality Inspection Type

Descriptive Flexfields

- The planner will coordinate the deferral of the non-routine or service request with a maintenance planner.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Search Non-routine > Update

- Locate an existing visit or create a new visit to add requirements.

- The planner can drill into the downtime results rows to locate existing visits.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The screenshot shows the 'Maintenance Schedule' interface. At the top, there are tabs for 'Unit Down Times', 'Organization Schedule', and 'Fleet Schedule'. Below these is a 'Search Unit Schedule' section with various filters: 'Arrival Organization' (set to '5%'), 'Department', 'Arrival From' (set to '18-Jan-2011 10:42:47'), 'Service Category', 'Fleet', 'Unit', 'Departure To', and 'Minimum Duration'. There is an 'Advanced Search' section with 'Go' and 'Close' buttons. Below the search section is a 'Select Unit Downtime:' section with a 'View Organization Schedule' button and a 'Go' button. The main part of the interface is a table with columns: 'Select', 'Details', 'Create', 'Unit', 'Arrival Flight', 'Arrival Org.', 'Dept.', 'Service Category', 'Estimated Arrival Time', 'Actual Arrival Time', 'Down Duration', 'Down UOM', 'Departure Flight', 'Next Org.', 'Estimated Departure Time', 'Actual Departure Time', and 'Search UMP'. The table contains one row of data for 'AMP-UC001 FL001' with an arrival time of '12-Jul-2011 14:00:00'. Below the table is a 'Visit' section with a 'Select Visit' button and a 'Go' button. The 'Visit' section contains a table with columns: 'Schedule', 'Visit Number', 'Visit Type', 'Visit Status', 'Visit Start Date', 'Visit Planned End Date', 'Visit Space', 'Firm', 'Lock', and 'Cancel'. The table contains two rows of data for 'Component Repair Planning' with start dates of '13-Jul-2011 00:00:00' and '02-Aug-2011 05:14:00'.

- The planner can select additional requirements in the UMP results and add the requirements to an existing visit using the Schedule To icon.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The planner can click the Visit ID in the downtime results row to navigate to the Update Visit UI.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

The planner can search and add planned and unplanned requirements in the Visit Details - Maintenance Requirements tab.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit > Maintenance Requirements

- The planner can use an existing visit as the basis to add requirements to the work scope of the visit.

The planner can then select a visit and click the search UMP icon, which will default the UMP search criteria.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The planner can select additional requirements in the UMP results and add the requirements to the visit using the Schedule To icon.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

6. Request movement of required materials to the visit location.

- Once a visit is created, the planner can research the availability of materials in the Visit Details - Maintenance Requirements tab.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit > Material Requirements

The planner can identify materials that have an availability exception date greater than the required date.

- The planner can then use the Materials workbench to secure material that is not available in time by breaking an existing reservation, transferring from another location, or through cannibalization.

7. Ensure that maintenance activity is accomplished and on time.

- The planner can monitor visits and ensure that maintenance is accomplished. Delays will be communicated with the Maintenance Planner either through an electronic message or a verbal communication.
- The planner can defer a time compliant maintenance item if it will not be able to be accomplished during the downtime visit due to parts, reproducibility or time constraints.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Deferrals can be communicated to the maintenance planner through an electronic message or verbal communication.

8. Ensure that materials are issued and returned.

- The planner will ensure that materials are properly issued to visits.

Navigation: Execution > Material Transactions > Issues > Material Issue

- The planner will ensure that materials are properly returned from visits.

Navigation: Execution > Material Transactions > Returns > Material Returns

9. Communicate aircraft serviceability to maintenance control, if applicable.

- The planner will provide notification to a maintenance planner that the required maintenance of an aircraft has been completed.

This notification would most likely be an exception-based process, for only those required visits which exceed the planned downtime window. This could be through verbal communication, electronic message, or similar method.

10. Confirm that system is updated and that the visit is completed and closed.

- The planner can search for the unit and confirm that the visit is completed and closed out, with the scheduler requirements signoff and accomplished.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

- The planner may also be required to document third-party maintenance, which can include recording work order accomplishment.

Navigation: Planning > Production Planning > Work Orders > Work Order Overview > Work Order Operations

- The planner can close visits and include the signoff of the MRs.

Navigation: Planning > Production Planning > Visits > Search Visit

Role 4.0 - Reliability Engineer

This role is responsible for the necessary data collection and analysis to support internal reliability and continuous improvement initiatives. Additionally, regulatory bodies may require certain operators to create and submit an official Reliability Program to be followed with regulatory oversight. This role will also be responsible for the reporting and interfacing with the regulatory agency requiring such a program.

Associated Major Business Types:

Aircraft Operator, page 2-3

Complex Assembly Maintenance, page 2-5

4.1. Major Task - Monitor the performance of the aircraft and the associated equipment, and call attention to any need for corrective actions:

1. Create the reliability program for the item and position.
2. Collect and analyze relevant data using statistical methods to monitor and identify the areas of concern and alert engineering for possible corrective action.

This involves data collection, problem area alerting, data display and data analysis.

4.2. Major Task - Monitor the effectiveness of the corrective actions:

Reliability department should follow up on all the actions taken to verify the effectiveness of the action taken.

If there is no improvement, an alert is resubmitted for further analysis.

4.3. Major Task - Perform reporting for effective monitoring and compliance with regulatory bodies:

Reporting mechanism based on the Reliability Program must be in place for the program to be more effective. Also, certain reports must be presented to regulatory authorities as required by the operator certificate.

Role 5.0 - Technical Services - Document Manager

This role is responsible for maintaining and distributing the OEM documents such as an Illustrated Parts Catalog (IPC), Aircraft Maintenance Manual, Engine Maintenance Manual, Component Maintenance Manual, Service Bulletin, and so on, in electronic form within the CMRO system. The distribution is handled by the distribution list associated to each document.

The latest version is controlled by retrieving new copies of the relevant document. This is achieved with the help of subscription and supplier information associated with each

document in the document index.

Aircraft Operator, page 2-3

5.1. Major Task - Receive, distribute and control (within organization) all documents issued by outside sources:

Task Description: Receive, distribute and control (within the airline) all those publications issued by outside sources.

1. **Navigation:** Engineering > Document Index > Search > Create (B) > Create Document

The screenshot shows the Oracle Complex MRO web application interface. The top navigation bar includes 'ORACLE Complex MRO' and various menu items like 'Navigator', 'Favorites', 'Home', 'CMRO', 'Engineering', 'Configuration', 'Planning', 'Administration', 'Execution', 'Profile', 'Out', and 'Help'. Below this is a sub-navigation bar with 'MEL/CDL', 'Document Index', 'Route Management', 'Fleet Maintenance Program', and 'Reliability'. The 'Document Index' tab is active, and the 'Search' sub-tab is selected. The main content area is titled 'Create Document' and contains a form with the following fields: 'Document Number' (text input), 'Type' (dropdown), 'Sub Type' (dropdown), 'Operator' (text input with a search icon), 'Item Type' (text input with a search icon), 'Source' (text input with a search icon), 'Title' (text input), and 'Subscription Available' (dropdown set to 'No'). There is also a 'Descriptive Flexfields' section with a 'Context Value' (text input) and a note: 'Select Context Value and click 'Go' to show relevant fields.' The form has 'Cancel' and 'Apply' buttons at the bottom right. The bottom of the page shows a copyright notice: 'Copyright 2006, Oracle Corporation. All rights reserved.'

2. Add subscription and supplier information, if required.
If a subscription exists for the document, then add subscription and supplier details.
3. Add distribution information, if required.
4. Click the **Apply** button.
5. Navigate to the Search Document page, and query for the document that you just created.
6. **Navigation** > Engineering > Document Index > Search > Create (B)
Click the **Create New Revision** button to create revision of the previously created document, thereby enabling the document to be a reference in other engineering entities such as an operation, route, and maintenance requirement.

ORACLE Complex MRO

Navigator Favorites Home Home CMRO Engineering Configuration Planning Administration Execution Profile Out Sign Help

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability

Search Associate Type Logged In As TSMITH

Create New Revision

Indicates required field

Cancel Apply

Title	Documentation	Source	World of Business
Document Number	Material Catalog	Sub Type	
Operator		Item Type	
Subscription Available	No	Subscribed To	No

Document Descriptive Flexfield

Context Value

Revision No		Revision Type	Temporary Revision
Revision Date		Status	Current
Volume		Issue	
Issue Number		Issue Date	
Date Received		Obsolete Date	
Effective Date		Approved Date	
Approved By		Location	
Media Type		(If the media type is ON-LINE, enter the location starting with http:// followed by the URL)	
Enigma Doc ID			
Model			
Remarks			

Cancel Apply

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

7. If there is a subscription for the document, then add subscription and supplier details.

Note: Subscription can be YES even if the source is Internal.

8. Revise the existing document.

9. Edit the subscription information as required.

Navigation: Engineering > Document Index > Search for a document > Subscription
 Notify the distribution list that there is a revised document available.

10. Click the **Apply** button.

5.2. Major Task - Print and distribute all publications generated by various agencies within the airline:

1. Navigate to the Search Document page.

Navigation > Engineering > Document Index > Search

You can search for documents by date range, source type, and so on, to retrieve the

list of document revisions created.

2. Print a report or notification to required people in the organization.

Print a report or generate a notification to the appropriate individuals (distribution list) in the organization.

5.3. Major Task - Establish and maintain a complete, up-to-date library system for all such documents as needed for the operation in M and E:

1. Assign a physical location to each document.

Establish a physical location for the created document and maintain a hard or physical copy of the created document.

2. Print revision details or other required notes on the document.

The details of a document revision must be maintained along with the physical copy of the document.

Role 6.0 - Technical Services - Configuration Engineer

This role is responsible for maintaining the configurations of aircraft, engines and all subassemblies. This role must possess a detailed understanding of OEM data about parts, assemblies, and subassemblies that make up aircraft, engines, major assemblies, and components. This OEM data is then used to maintain traceability and airworthiness as required to be reported to regulatory bodies. Many individual parts are required to be tracked for their life in service, and these parts are interchanged between other assemblies which makes tracking and accountability extremely detailed. Therefore, configurations are created to represent groupings of parts and assemblies, and all individual conditions and associated life history. A configuration engineer is responsible for the initial translation and creation of these configurations, the revisions and updates to the OEM data over time, and the verification that the service life data is correctly represented.

Associated Major Business Types:

Aircraft Operator, page 2-3

Heavy Maintenance, page 2-4

Complex Assembly Maintenance, page 2-5

Component Shop, page 2-6

Prerequisites for Master Configurations

- ☐ Perform the following tasks before creating master configurations:
 - Define items, including Oracle Installed Base counters.

See Setting Up Oracle Inventory, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*. and Setting Up Counters, *Oracle Installed Base User's Guide*.

- Define item groups.

See Setting Up Oracle Inventory, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*.

- Define positions.

See Creating Positions in a Master Configuration, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*.

- Define system lookups for Position and ATA Code.

See Setting Up Master Configurations, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*.

6.1. Major Task - Create initial logical aircraft configuration based on the illustrated parts catalog (IPC):

Task Description: Create master configurations. Master configurations are used as templates to hold setups and rules that will be used to govern the creation of unit configurations.

1. Create master configurations.

Navigation: Configuration > Master Configuration > Search Master Configuration > Create (B)

The engineer will create a master configuration root node, which will be used to associate the logical aircraft configuration to lower level positions.

2. Create other positions and some with sub-configurations.

Navigation: Configuration > Master Configuration > Search Master Configuration > Edit Master Configuration > Add Position

1. Retrieve a master configuration.

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Master Configuration Unit Configuration Product Classification Supplier Warranty

Overview Alternate Parts Composition List

Actions Add Go

Edit Master Configuration

* Indicates required field

Name **C80 Aircraft** Revision **1**

Description **C80 Aircraft** Version **1**

Status **Draft** Model

Sourced From Enigma **No**

Edit Position

* Position **Airframe** Position Description **Airframe**

ATA Code Description

Position Key **10100** UOM **Ea**

Quantity **1**

Start Date **28-APR-2005** Description **C80 Airframe**

Item Group **C80** Necessity **Mandatory**

Display Order **1**

Cancel Alternate Items Go Apply

2. Select the top (root) node, and add positions.

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Master Configuration Unit Configuration Product Classification Supplier Warranty

Overview Alternate Parts Composition List

Actions Add Go

Edit Master Configuration

Name **C80 Aircraft** Revision **1**

Description **C80 Aircraft** Version **1**

Status **Draft** Sourced From Enigma **No**

* Indicates required field

Create Position

* Position Position Description

ATA Code Description

* Quantity **1** * UOM **Ea**

Start Date **01-APR-2013** Description

* Display Order **1** Necessity **Mandatory**

Cancel Apply

3. (Optional) Add sub-configurations to the position.

Edit Master Configuration

Name **C80 Aircraft** Revision **1**
Description **C80 Aircraft** Version **1**
Status **Draft** Sourced From **No**
Enigma

* Indicates required field

Edit Position

* Position **32-02, Nose Landing Gear** Position Description **Nose Landing Gear, 32-02**
ATA Code Description
Position Key **10143**
* Quantity **1** * UOM **Ea**
Start Date **28-APR-2005**
Item Group Description
* Display Order **7** Necessity **Mandatory**

Alternate Subconfigurations

Select	Name	Revision	Focus	Description	Status	Priority	Start Date	End Date	Remove
<input type="radio"/>	NLG 74316-1	2		NLG 74316-1	Complete	1	29-APR-2005		
<input type="radio"/>	NLG 74316-2	1		NLG 74316-2	Complete	2	28-APR-2005		
<input type="radio"/>	NLG 74316-3	1		NLG 74316-3	Complete	3	28-APR-2005		

Add More Rows

- Define position ratios for counter cascade.

Navigation: Configuration > Master Configuration > Search Master Configuration > Edit Master Configuration > Action Items pull-down > Position Ratio > Edit Position Ratio

- Define position rules for detailed allowable parts control.

Navigation: Configuration > Master Configuration > Search Master Configuration > Edit Master Configuration > Action Items pull-down > Rules > Edit Rules

- Complete the master configuration.

Navigation: Configuration > Master Configuration > Search Master Configuration > Edit Master Configuration > Action Items pull-down > Submit for Approval

After the master configuration definition is complete, it will be submitted for approval.

Task Description: Create unit configurations.

Unit configuration (UCs) are used to represent actual assemblies with real serial numbers and service history. These UCs are created from a master configuration (MC) used as a template, and contains the rules and validations that will govern the usage of the UCs in the system.

The engineer must repeat the following steps to create each unit configuration:

- Create master configuration prerequisites.
See Prerequisites for Master Configurations, page 3-67.
- Define MC nodes with referenced positions and optional sub-configurations..

3. Define position ratios.
4. Define position rules.

The following process steps must be performed to create all the units being tracked, such as all aircraft in the fleet:

1. An item instance is created in Oracle Installed Base using the actual OEM serial number for the item.

Navigation: Configuration > Unit Configuration > Create Product

ORACLE Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Master Configuration Unit Configuration Product Classification Supplier Warranty

Search Unit Create From Master Search Product Create Product

Logged In As TSMITH

Create Item Instance

* Organization Name Vision Project Mfg Go

* Item C80 Go

Revision

* Item Description Airframe, C80 Go

External Reference

* Serial Number Go

* Status CREATED Go

Lot Number : Item not lot controlled.

Quantity: 1

System : Please first select an owner account.

*UOM: Each

Owner

Party Type Party

* Party Name Go

* Party Number Go

* Account Number Go

Account Name

Account is not mandatory for the internal party as defined in Install Base parameters.

Current Location

* Type Party Site Go

Party Name Please first select an owner party.

* Address

Installed At

Installed Date 01-APR-2013

Installed Time 14:02

☐ Same as Current Location

Type Go

* Indicates required field.

Submit Clear

2. The engineer will create a new unit configuration (UC) from an existing master configuration (MC), while using the unique instance for the item and serial number for the unit.

Navigation: Configuration > Unit Configuration > Create from Master > Search Master Configuration > Create Unit Configuration

The existing MC must be in the Complete status.

ORACLE Complex MRO

Navigator Favorites Home Home CMRO Engineering Configuration Planning Administration Execution Profile Out Sign Help

Master Configuration Unit Configuration Product Classification Supplier Warranty

Search Unit Create From Master Search Product Create Product

Logged In As TSMITH

Create Unit Configuration

* Unit Config Name Unit Config Status Draft

Master Config Name FCV5 Future Combat Vehicle Master Config Revision 1

Master Config Description FCV5 Future Combat Vehicle Master Config Position FCV-FCV5 Future Combat Veh

Select Item Instance For Top Position

* Instance Number Item

Serial Number Lot Number

Owner Owner Name

Location Location Address

Description Party Type

* Indicates required field

Cancel Apply

Master Configuration Unit Configuration Product Classification Supplier Warranty Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

1. Navigate to the Search Master Configuration page and click the **Go** button.
 2. Select a master configuration.
 3. Click the **Create Unit Configuration** button, and the Create Unit Configuration page appears.
 4. Enter required information and save your work.
3. Navigate to the Edit Unit Configuration page and search for a UC.

Navigation: Configuration > Unit Configuration > Search Unit Configuration > Edit Unit Configuration

Build the unit configuration by associating the item instance or sub-unit configuration to each position.

Note: Sub-unit configurations must have a status of Complete or Incomplete to be associated to a position.

ORACLE Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Master Configuration Unit Configuration Product Classification Supplier Warranty

Search Unit Create From Master Search Product Create Product

Logged In As TSMITH

Edit Unit Configuration

Unit Configuration: FCV5000, Hull # 1020
 Master Configuration: FCV5 Future Combat Vehicle
 Description: FCV5 Future Combat Vehicle
 Model: FCV5 Future Combat Vehicle

Unit Config Status: Incomplete Unapproved
 Master Config Revision: 1

Position Details

Position: FCV-FCV5 Future Combat Veh
 ATA Code: FCV5000
 Item: FCV5000
 Serial Number: 5002 From Inventory
 Lot Number:
 Revision:
 Quantity: 1
 Owner: 8330
 Install Date: 03-JUN-2005
 Status: Out of the Enterprise

Necessity: Mandatory
 Description: FCV5 Future Combat Vehicle
 Mfg Date:
 Instance Number: 705119
 UOM: Ea
 Owner Name: Department of Defence
 Location: 1234 Independence Ave; Fairfax; 20198; VAUS
 Condition:

Descriptive Flexfields

Create New Item Instance (Unassigned)

* Item:
 Lot Number:
 Serial Number: Actual
 Revision:
 Mfg Date:
 Quantity:

* Indicates required field

Enigma Documents

Illustrated Parts Catalog Wiring Diagram Manual

4. Approve the unit configuration.

Navigation: Configuration > Unit Configuration > Search Unit Configuration > Edit Unit Configuration > Select top Node > Submit for approval

After the unit configuration definition is complete, it will be submitted for approval.

5. Repeat Steps 1-4 to create a UC for each aircraft in the fleet.

6.2. Major Task - Maintaining configurations:

Task Description: Modify or change logical aircraft configuration based on the incorporation of Service Bulletins (SBs), Service Letters (SLs), or Airworthiness Directives (ADs), as applicable.

1. The item group associated with a configuration position in an MC can be updated.

Navigation: Configuration > Master Configuration > Overview > Search Master Configuration

1. The engineer will identify the master configuration requiring revision.

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Master Configuration Unit Configuration Product Classification Supplier Warranty

Overview Alternate Parts Composition List

Logged In As TSMITH

Search Master Configuration

Name Revision
 Description Status Complete
 Position Item
 Sourced From Enigma Go Clear

Create

Select Master Configuration: Re-Open Go Previous 51-60 of 189 Next

SelectName	Revision	Version	Edit	Description	Status	Sourced From Enigma	Close
<input type="radio"/> EN-5000 Engine Assembly	1	1		EN-5000 Engine Assembly	Complete	No	
<input type="radio"/> F15	1	1		F-15	Complete	No	
<input type="radio"/> F16-C	1	1		F-16-C	Complete	No	
<input type="radio"/> F16-C	2	2		F-16-C	Complete	No	
<input type="radio"/> FA-5000 Fuel Air System Assembly	1	1		FA-5000 Fuel Air System Assembly	Complete	No	
<input checked="" type="radio"/> FCV5 Future Combat Vehicle	1	1		FCV5 Future Combat Vehicle	Complete	No	
<input type="radio"/> FP-5000 Fuel Pump Assembly and Drive	1	1		FP-5000 Fuel Pump Assembly and Drive	Complete	No	
<input type="radio"/> GA-MC-BOJ777	1	1		Master config BOJN777	Complete	No	
<input type="radio"/> GA-MC-BOJ888	1	1		Master config BOJN888	Complete	No	
<input type="radio"/> GP-SVMC	1	1		MC created for SW by Ganesh	Complete	No	

Select Master Configuration: Re-Open Go Previous 51-60 of 189 Next

Master Configuration Unit Configuration Product Classification Supplier Home CMRO Engineering Configuration Planning Administration Execution Profile Sign Help

- Alternate items for a position may be viewed and updated through the revision process.

Navigation: Configuration > Master Configuration > Overview > Search Master Configuration

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Master Configuration Unit Configuration Product Classification Supplier Warranty

Overview Alternate Parts Composition List

FCV-FCV5 Future Combat Veh

FCV-HU-5000 Hull Assy

FCV-TU-5000 Turret

View Alternates

Cancel Create Revision

Master Configuration Details

Name FCV5 Future Combat Vehicle Revision 1
 Description FCV5 Future Combat Vehicle Version 1
 Status Complete Sourced From Enigma No

Item Group Details

Group Name FCV5 Future Combat Veh Description FCV5 Future Combat Vehicle
 Type Tracked Status Complete
 Sourced From Enigma No

Item List

Item	Organization	Description	Revision	UOM	Quantity	Priority	Interchangeability	Type	Reason	Composition
FCV5000PM		FCV5 Future Combat Vehicle	Ea	1	1		2-WAY INTERCHANGEABLE			

Cancel Create Revision

- Configuration updates can be accomplished by creating a revision to an existing master configuration.

Navigation: Configuration > Master Configuration > Overview > Search Master Configuration

- After a master configuration revision has been completed and approved, all the related unit configurations must be migrated to the new revision.

Navigation: Configuration > Unit Configuration > Search Unit

The engineer will search for each individual unit configuration and migrate to the latest master configuration revision.

Role 7.0 - Engineering - Engineer

This role is responsible for creating and maintaining the Approved Maintenance Program (AMP) for the aircraft within the system. This AMP is developed from manuals issued by the manufacturers and approved by the regulatory bodies that oversee an operation. This role has expertise with interpretation and translation of the AMP into an electronic system. The electronic representation is critical to the operation of the business, and must also include ways to update and revise the AMP when new or revised information is received from OEMs and regulatory agencies.

Associated Major Business Types:

Aircraft Operator, page 2-3

Heavy Maintenance, page 2-4

Complex Assembly Maintenance, page 2-5

Component Shop, page 2-6

Prerequisites

- ☐ The following tasks must be performed before you can define a maintenance program in the system.
 - Create documents. (See Defining Reference Documents, Managing Maintenance

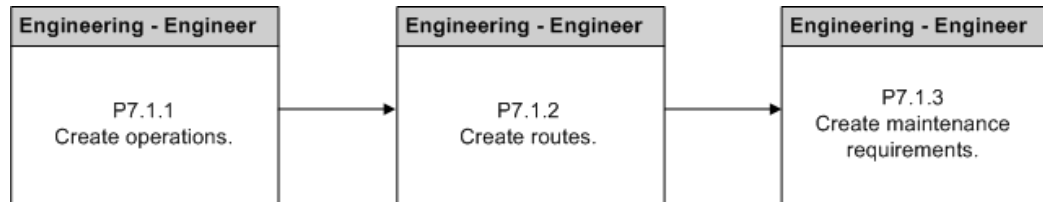
Routes, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*)

- Define CMRO resources. (See Defining Resource Requirements, Managing Maintenance Routes, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*)
- Define access panels. (See Defining Access Panels, Managing Maintenance Routes, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*)
- Complete item definitions. (See Defining Items, *Oracle Inventory User's Guide*)

7.1. Major Task - Develop initial maintenance program:

Task Description: Create operations, routes and maintenance requirements.

Task Flow



1. Create operations.

Navigation: Engineering > Route Management > Operations > Create (B)

1. Navigate to the Create Operation page.

Enter the required information for the operation, and click the **Apply** button.

2. Navigate to the Edit Operation page and retrieve an operation with a status of Draft or Approval Rejected.

Navigation: Engineering > Route Management > Operations > Search Operation

1. You can optionally click the following links to add these operation attributes:

- Reference Documents - Associate documents to the operation.
- Resource Requirements - Associate the resources required to perform the operation.

- Material Requirements - Add material required to complete the operation.
 - Access Panels - Edit the access panels.
2. Click the **Apply** button to save your work.
 3. Submit the operation for approval.

To do this, click the **Approve** button on the Edit Operation page. This will launch the approval workflow.
 3. Complete the operation using the Operations page.

Navigation: Engineering > Route Management > Operations > Search Operation

 1. Search for an operation with a status of Uncomplete, and click the **Go** button.
 2. Select the operation that you want to complete.
 3. Select Complete Operation from the Select Operation drop-down.
 4. Click the **Go** button.
 2. Create routes.

Navigation: Engineering > Route Management > Routes > Search Route > Create

 1. Create the route header by entering information in the required fields.

2. Edit the route.

Navigation: Engineering > Route Management > Routes > Search Route > Edit Route

Search for a route with a status of Draft or Approval Rejected, and click the **Go** button. The Edit Route - Details page appears.

You can optionally click the following links to add additional route attributes:

- Reference Documents - Associate documents to the route.
- Resource Requirements - Associate the resources required to perform the routing.
- Material Requirements - Add material required to complete the route.
- Associate Operations - Associate operations to the route.

Navigation: Engineering > Route Management > Routes > Search Route > Edit Route > Associate Operations

Associate Operations

Route Number: CMRO Route1, Revision: 1, Title: CMRO Route1, Status: Draft

Remove Step	Standard	Operation	Description	Start Date	Check Point
<input type="checkbox"/> 10	Yes	TM.ACA.05-00-00.010.003	With resource at def department	17-JUN-2009	No
<input type="checkbox"/> 20	No	TM.Tooling.100.100.001	Operation Created by Ganesh for USAF Testing31-JAN-2012		No
<input type="checkbox"/> 30	No	TO.C80.05-51-18.100.002	TEST	29-MAR-2012	No

- Operation Dependencies - Define operation dependencies.

Navigation: Engineering > Route Management > Routes > Search Route > Edit Route > Operation Dependencies

Operation Dependencies

Route Number: CMRO Route1, Revision: 1, Title: CMRO Route1, Status: Draft

Remove Step	Sequence From Operation	Status	Dependency	Step	Sequence To Operation	Status
<input type="checkbox"/> 10	TM.ACA.05-00-00.010.003 Complete		Executes After(1)	20	TM.Tooling.100.100.001 Complete	

- Disposition Associations - Define disposition associations
- Access Panels - Edit the access panels.

3. Create maintenance requirements (MRs) based on various manuals.

Navigation: Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirements > Create

1. Navigate to the Create Maintenance Requirement page.
2. Create the MR header.

Note: The Program Types, (M) and (O) Procedure and Service

Bulletin are applicable for specific cases and must be selected appropriately.

3. Click the following links to define additional attributes for the MR:
 - (Optional) Documents - Associate relevant documents to the MR.
 - (Required) Routes - Associate a minimum of one route to the MR.
 - (Optional) Route Dependencies - Define any route dependencies by clicking the Dependencies icon on the Update Attached Routes page.
 - (Optional) Effectivities - Define the effectivity of the MR to relevant items.
 - (Optional) Relationships - Create the MR in a modular way by defining relationships.
 - (Optional) Accomplishment Triggers - Define accomplishment triggers, if required.

The relationship allows for MRs to be set up as initiating, terminating, or following after another MR. One or more MRs can be referenced by: Initiates, Is Initiated By, Terminates, Is Terminated By, Follows, Is Followed By.

See Service Bulletin Effectivity, page 1-9 for more information regarding accomplishment triggers.

- (Optional) Visit Types - Associate visit types for Transit Maintenance

(recommended).

- Maintenance Organization

4. (Optional) Define accomplishment triggers.
5. Define the Maintenance Organization (required).

Important: This is required for the identification of Maintenance Organization for the UMP to create the UMP BOM.

6. Define loops and chains for maintenance requirements.

Loops and chains are relationships used to control and plan the maintenance in cycles or in sequential order.

Important: You cannot add unplanned MRs to a chain or loop.

1. Navigate to the Define Loops and Chains page.

Navigation: Engineering > Fleet Maintenance Program > Define Loops and Chains

ORACLE[®] Complex MRO

Navigator Favorites Home Home CMRO Engineering Configuration Planning Administration Execution Profile Out Sign Help

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability

Overview Program Type Associations Define Loops & Chains Service Bulletin Rules

Logged In As TSMITH

Define Loops & Chains

Create Chain Calculate Due Date View Chain Affected Items Revert Apply

Maintenance Requirements for Chain

Sequence	Maintenance Requirement	Description	Revision	Version	Status	Start Date	End Date	Remove
No Records Found								
Add Rows								

Calculate Due Date View Chain Affected Items Revert Apply

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

Click the **Add Rows** button.

Select the maintenance requirement.

Click the **Apply** button to save your work.

7. Complete the MR.

7.2. Major Task - Evaluate Service Bulletins and Service Letters, and define in CMRO:

1. Evaluate Service Bulletins (SBs) and Service Letters (SLs), and determine if they are applicable to the airline equipment.

Service bulletins apply to a specific item and serial numbers.

1. Determine whether the SB, AD, or SL is applicable to the aircraft in the fleet.

Navigation: Configuration > Master Configuration > Service Bulletin Rules

1. Navigate to the Edit Master Configuration page.

Select a MC, choose Service Bulletin Rules from the Search Master Configuration drop-down, and then click the **Go** button. The Service Bulletin Rules page displays any applicable SB rules.

Oracle Complex MRO

Master Configuration | Unit Configuration | Product Classification | Supplier Warranty

Service Bulletin Effectivity Rules

Simple Search

Rule Name: Maintenance Requirement: Master Configuration: Revision:

Go Clear

Results

Rule Name	Rule Sequence	Edit	Maintenance Requirement	Master Configuration	Revision	Position	Start Date	End Date	Workbench
No results found.									

2. If the service bulletin is applicable for units in the fleet, then check if the service bulletin is a duplicate or if a revision exists.

Navigation: Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirement

1. Navigate to the Search Maintenance Requirements page and search for MRs with a Program Type of Service Bulletin. Click the **Go** button to retrieve the results.
2. Highlight the MR row, and click the View Affected Items icon to view the item that are impacted by the SB.

Oracle Complex MRO

MEL/CDL | Document Index | Route Management | Fleet Maintenance Program | Reliability

View Affected Items

Item	Serial Number	Location	Status	Owner	Condition	Unit
MBSLccCvTtkMBBSLccCvTtk001	Avenue de la Grande Armée 145/75008 PARIS;PARIS;75008FR	Out of the Enterprise	Business World	MBSBSLccCvTtk001		
MBSLccCvTtkMBBSLccCvTtk002	Avenue de la Grande Armée 145/75008 PARIS;PARIS;75008FR	In Relationship	Business World	MBSBSLccCvTtk002		

2. Define the SB of SL in the system by creating a new MR.

Navigation: Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirement > Create

1. Navigate to the Create Maintenance Requirement page.
2. Enter values in the required fields:

- Title: Name of MR
- Category
- Program Type: Service Bulletin
- Implement Status: Mandatory
- Repetitive
- Whichever Comes
- Effective From date
- On Wing
- (Optional) Select values for Program Sub Type to differentiate various types of SBs.

Create Program Types and Sub-Type associations by using the Create Program Type/ Sub Type page.

3. You can also define the SB effectivity by navigating to the Service Bulletin Effectivity Rules Workbench.

You can access the workbench from the Fleet Maintenance Program menu or through a MR.

Navigation: Engineering > Fleet Maintenance Program > Service Bulletin Rules

ORACLE Complex MRO

MEI/CDL Document Index Route Management Fleet Maintenance Program Reliability

Overview Program Type Associations Define Loops & Chains Service Bulletin Rules

Logged In As TSMITH

Service Bulletin Effectivity Rules Workbench

Maintenance Requirement Revision **Comp_MR_Example** Program Type **Service Bulletin** Program Sub Type

Effective Master Configurations

Select Name	Revision	Description	Affected Position	SB Rules
No results found.				
Add Row				

Service Bulletin Rules

[Apply](#)

Rule Name	Edit Rule Sequence	Maintenance Requirement	Workbench	Start Date	End Date	Remove
No search conducted.						

[Cancel](#)

MEI/CDL Document Index Route Management Fleet Maintenance Program Reliability Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

1. Click the **Add Rows** button.
2. Select the master configuration in the Name field.
3. Select the Affected Position.
4. Click the SB Rules icon, and the Create Service Bulletin Rule page appears.
Use this page to create the service bulletin rule.

Oracle Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability

Overview Program Type Associations Define Loops & Chains Service Bulletin Rules

Logged In As TSMITH

Create Service Bulletin Rule

Maintenance Requirement MBSMainUCMR1 Revision Master Configuration MBSMainMC Revision First

Program Type Service Bulletin Position 72-01, #1 Engine

Program Sub Type

Details

* Rule Name

* Rule Sequence Current Max Sequence No: 1

* Start Date (example: 20-Mar-2013)

End Date (example: 20-Mar-2013)

Allowed Items in the position are

Hide Item Group Details

Item Group	Edit	Position	Master Configuration	Revision	Sub Configuration
MBTrackedPartGroup		72-01, #1 Engine	MBSMainMC	First	

Add Items

Item	Item Description	Quantity	UOM	Priority	Interchangeability	Type	Item Group	Sub Configuration	Position	Remove
No results found.										

Cancel Apply

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

4. Define accomplishment triggers as required.
5. Define SB Rules for appropriate the MC position by using the Service Bulletin Effectivity Rules page (Engineering > Fleet Management Program > Service Bulletin Rules).
6. Complete the MR.

3. Revise the SB.

Use the standard revision process used for maintenance requirements.

7.3. Major Task - Propose and define solutions for problems:

Follow these steps to define solutions for problems raised by technicians and the reliability team:

1. Study and evaluate the problems raised.
2. Consult with relevant agencies inside and outside of organization.
3. Create a MR as a solution by using the Search Maintenance Requirement page.
4. Inform the appropriate team about the solution.

Role 8.0 - Warranty Administrator/Analyst

This role is responsible for maintaining and administering the supplier warranty program for both internal and external customer assets within CMRO. This includes

managing warranty information in the form of vendor-based warranty templates, asset-based warranty contracts, activity-based warranty entitlements, and vendor-based warranty claims.

The warranty administrator will flag vendors in CMRO as being warranty enabled, which will enable the vendor to be properly identified in the item-service relationships, vendor-based warranty templates to be created, enhanced vendor and service item association during OSP processing, and the creation of vendor-based warranty claims. This role will then create warranty templates, which transforms the warranty terms and conditions and commitment letters for the supplier into a reusable set of parameters. These parameters can be used to evaluate an asset for warranty eligibility and assignment. These templates can then be used to define individual warranty contracts at the item asset level (for serialized instances) for a period of time or asset utilization. The warranty administrator can then monitor the warranty entitlements as work orders that are used to install, remove, and repair these assets during their serviceable lives. This role will also monitor the expiration notifications for assets and advise maintenance planning to properly ensure warranty inspection and recovery.

The warranty administrator will analyze warranty entitlements while supporting post visit audits, non-routine maintenance, service bulletins and front line warranty queries. This role will create new warranty claims by vendor and logical grouping of warranty entitlements. These claims will be submitted to the suppliers and the warranty administrator will monitor the claims while negotiating any settlements, updating and taking notes regarding claim status, updating any reimbursement information, and eventually closing claims.

For more information, see *Working with Supplier Warranty, Oracle Complex Maintenance, Repair and Overhaul User's Guide*.

Associated Major Business Types:

Aircraft Operator, page 2-3

Heavy Maintenance, page 2-4

Complex Assembly Maintenance, page 2-5

Component Shop, page 2-6

Prerequisites

- ☐ The following setup tasks must be performed before you can define and administer supplier warranties in CMRO.

Prerequisite Setup Task	Role Performing Task	Navigation
1. Define AHL lookups for warranty types.	Warranty Administrator CMRO Super User	Application Developer > Application > Lookups > Application Object Library
2. Define CMRO vendors.	Warranty Administrator CMRO Super User	Administration > Vendor Sourcing > Vendors
3. Enable vendors by organization.	Warranty Administrator CMRO Super User	Administration > Vendor Sourcing > Vendors

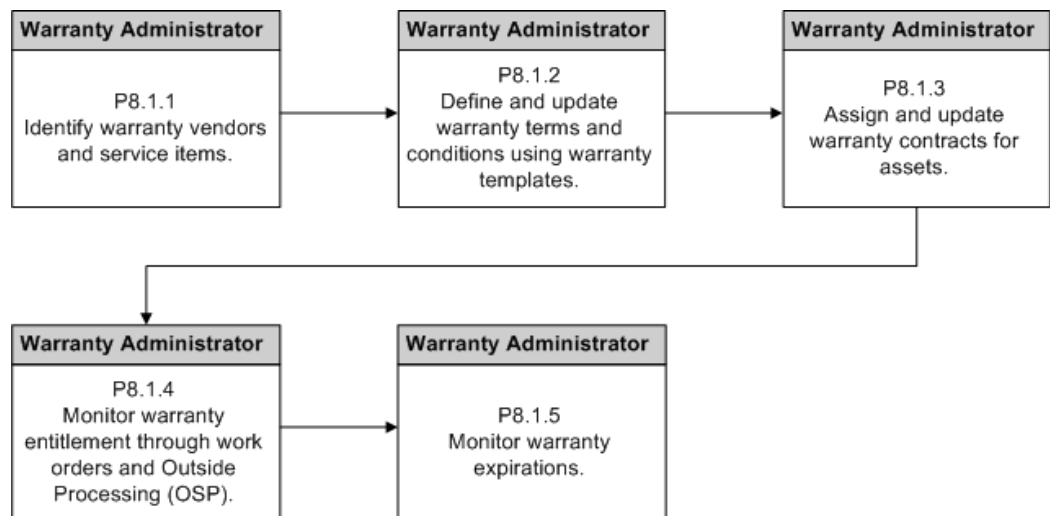
Prerequisite Setup Task	Role Performing Task	Navigation
<p>4. Enable CMRO warranty notifications:</p> <ul style="list-style-type: none"> Change to Warranty Entitlement Acceptance/Rejection: When a technician makes changes to a warranty entitlement record on a work order, the warranty administrator will receive a notification of the changes. The warranty administrator can then accept or reject the changes using the Warranty Entitlements UI. Warranty Review: When a technician requests review of the Warranty Entitlement on a Workorder, the warranty administrator will receive a notification. The Administrator can manage the review by using the Warranty Entitlements UI. Warranty Expirations: A scheduled concurrent program will generate a report of all warranty contracts that are expiring in a user-defined time period, such as within 60 days from the system date. This report will be sent to selected users through a notification. 	CMRO Super User	Administration > Workflow > Workflow Process Mapping

Prerequisite Setup Task	Role Performing Task	Navigation
5. Schedule CMRO concurrent process: Autocreation of Warranty Contracts: A scheduled concurrent program will generate warranty contracts for any applicable item instances that are introduced into CMRO. An accompanying report will be sent via notification to selected users.	CMRO Super User	Administration > Workflow > Workflow Process Mapping

8.1. Major Task - Create and manage asset warranty:

Task Description: Identify warranty vendors, define warranty templates, assign warranty contracts, and monitor warranty entitlements for customer assets.

Task Flow



1. Identify warranty vendors and service items.

1. **Navigation:** Administration > Vendor Sourcing > Vendors

The warranty administrator will select the Warranty option on each vendor record in CMRO.

ORACLE® Complex MRO

Home CMRO Home Engineering Configuration Planning Administration

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance

Vendors Item Service Relationships Customer Relationships

Logged In As TSMITH

Vendors

* Indicates required field

Save Revert

Search Vendor

Note that the search is case insensitive

Vendor Name

Vendor Location

Primary Contact

Go Clear

*Vendor Name	*Vendor Location	Primary Contact	*Start Date	End Date	Warranty
Advanced Network Devices	SANTA CLARA	Mr Martin Rapp	19-Jul-2006		<input checked="" type="checkbox"/>
American Telephone and Telegraph NY			05-Mar-2012		<input checked="" type="checkbox"/>
Eastern Industrial Products	EIP-PM		22-Mar-2012		<input checked="" type="checkbox"/>

Add Another Row

Save Revert

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance

- The Warranty check box appears and can be evaluated in the item service relationships for an item, location and vendor.

Navigation: Administration > Vendor Sourcing > Item Service Relationships

Item Service Relationships

ORACLE Complex MRO

Home CMRO Home Engineering Configuration Planning Administration

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance

Vendors Item Service Relationships Customer Relationships

Logged In As TSMITH

Item Service Relationships

* Indicates required field

Save Revert

Search

Please note that the search is case insensitive.

Inventory Organization Service Item

Inventory Item

Go Clear

Service Item Sourcing

Create Relationship

Select Item Number	Description	Inventory Organization	Service Item	Start Date	End Date	Rank	Edit	Delete
<input checked="" type="radio"/> 75484-5	Assy, Turbine, HP	DFW Maintenance Center US	75484-OVHL	21-Jul-2006		1		
<input type="radio"/> 75484-5	Assy, Turbine, HP	JFK Maintenance Center US	75484-OVHL	21-Jul-2006		1		
<input type="radio"/> 75484-5	Assy, Turbine, HP	San Francisco Maintenance Center US	75484-OVHL	21-Jul-2006		1		
<input type="radio"/> 75484-5	Assy, Turbine, HP	Vision Project Manufacturing USD	75484-OVHL	21-Jul-2006		1		

75484-5/DFW Maintenance Center US/75484-OVHL: Vendors

*Vendor Name	*Vendor Location	Primary Contact	*Start Date	End Date	Warranty	*Rank	Service Duration	Delete
Advanced Network Devices	SANTA CLARA	Mr Martin Rapp	21-Jul-2006 <small>(example: 21-Mar-2013)</small>	 <small>(example: 21-Mar-2013)</small>	<input checked="" type="checkbox"/>	1	10	

Add Another Row

Save Revert

2. Define warranty terms and conditions using warranty templates.

Navigation: Configuration > Supplier Warranty > Warranty Templates > Search Warranty Template

The screenshot shows the Oracle Complex MRO interface for creating a warranty template. The top navigation bar includes 'ORACLE Complex MRO' and links for 'Home', 'CMRO Home', 'Engineering', 'Configuration', 'Planning', 'Administration', 'Execution', 'Profile', and 'Sign Out'. Below this is a sub-navigation bar with 'Master Configuration', 'Unit Configuration', 'Product Classification', and 'Supplier Warranty'. The 'Supplier Warranty' section is active, showing 'Warranty Contracts', 'Search Warranty Instance', 'Warranty Template', 'Warranty Entitlements', and 'Claim Management'. The user is logged in as 'TSMITH'.

The main form is titled 'Create Warranty Template' and has 'Cancel' and 'Apply' buttons. The 'Warranty Template' section includes the following fields:

- * Template Name (text input)
- * Vendor (dropdown menu)
- * Type (dropdown menu)
- ☐ Enabled (checkbox)
- Contract Date Calculation (dropdown menu, currently set to 'Forecast')
- Template Description (text input)
- Terms and Conditions (text input)
- Reaction and Resolution Time (text input)
- Service Level Agreement (text input)
- * Template Start Date (calendar icon)
- Template End Date (calendar icon)
- Claim Labor Hours (text input)
- Remarks (text input)
- Attachments (None | Add... button)

At the bottom of the form are 'Cancel' and 'Apply' buttons.

- The warranty administrator will then create warranty templates, which transforms supplier warranty terms and conditions and commitment letters into a reusable set of parameters for which an asset can be evaluated for warranty eligibility and assignment.

The warranty administrator can then define the header attributes, including the contract date calculation method, and fill out the details tab. Attachments can also be added.

See *Creating Warranty Templates, Oracle Complex Maintenance, Repair and Overhaul User's Guide*, for additional information.

- Associate applicable items to the template and enable the template to be used.

Navigation: Configuration > Supplier Warranty > Warranty Templates > Search Warranty Template

The OSP claim and auto-assignment options can be evaluated and checked for each item.

Oracle Complex MRO

Master Configuration | Unit Configuration | Product Classification | **Supplier Warranty** | Home | CMRO Home | Engineering | Configuration | Planning | Administration | Execution | Profile | Sign Out

Warranty Contracts | Search Warranty Instance | **Warranty Template** | Warranty Entitlements | Claim Management

Update Warranty Template: GD-SWDate001

Cancel Apply

Warranty Template

Template Name: GD-SWDate001

* Vendor: Advanced Network Device

Contract Date Calculation: Date

* Start Date: 12-Apr-2012

* End Date: 12-May-2012

* Type: Limited Warranty

Enabled ☒

Details Counters Items

View by Item Status: All Go

Add Warranty Item

*Item	Item Description	Enabled	Auto Assign	OSP Claim
GDSWSrCtrTrk	Serial Controlled Tracked Item	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Add Rows

Cancel Apply

Master Configuration | Unit Configuration | Product Classification | **Supplier Warranty** | Home | CMRO Home | Engineering | Configuration | Planning | Administration | Execution | Profile | Sign Out

See Associating Supplier Warranties to Item Instances,, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*

- The warranty administrator can coordinate with the Engineering group to reference the warranty template in an associated MR, such as a service bulletin.

Navigation: Engineering > Fleet Maintenance Plan > Overview > Search Maintenance Requirement > Update Maintenance Requirement

Oracle Complex MRO

MEL/CDL | Document Index | Route Management | **Fleet Maintenance Program** | Reliability | Home | CMRO Home | Engineering | Configuration | Planning | Administration | Execution | Profile | Sign Out | Help

Overview | Program Type Associations | Define Loops & Chains | Service Bulletin Rules

Update Maintenance Requirement

Cancel Revert Apply

* Indicates required field

Title: VA-C70-A-Chk

Revision Number:

* Category: Airframe

* Program Type: Block

* Implement Status: Mandatory

* Repetitive: Yes

* Whichever Comes First: First

Quality Inspection Type: UOM

Down Time: HOURS

Warranty Template: PAtemp1

Copy First Due: Yes

Description: VA-C70-1/2/3 A Check

Comments:

Status: Complete

Version: 3

* Effective From: 06-MAR-2012

Program Subtype:

* On Wing: On

Show: All

Service Category: No

Auto Sign Off: Yes

Copy Accomplishments: Yes

Copy Deferral Data: Yes

Cancel Revert Apply

MEL/CDL | Document Index | Route Management | **Fleet Maintenance Program** | Reliability | Home | CMRO Home | Engineering | Configuration | Planning | Administration | Execution | Profile | Sign Out | Help

Select a value in the Warranty Template field to associate the warranty template to the MR.

3. Assign and update warranty contracts for assets.

The warranty administrator can then use the templates to define individual

warranty contracts at the item asset level (for serialized instances) for a period of time or asset utilization.

- The warranty administrator can search by Item Instance and create new warranty contracts by clicking the Define Warranty icon.

Navigation: Configuration > Supplier Warranty > Search Warranty Instance

Search Warranty Instance

Search

Unit Configuration:

☐ Include Child Instances

Item: C70-1

Instance Number:

Serial Number:

Lot Number:

Template Name:

Template Assigned:

☒ No Active Contract

☐ Show Only Enabled Templates

☐ Show Only Enabled Items

Results

Select Warranty Instance:

Previous 1-10 Next 10

Select Details	Item Number	Serial Number	Item Description	Unit Configuration	Instance Number	Lot Number	Warranty Contracts
<input type="radio"/> Show	C70-1	311	Airframe, C70-1	C70-1, SN 311, Tail # VAS21	644123		
<input type="radio"/> Hide	C70-1	312	Airframe, C70-1	C70-1, SN 312, Tail # VAS22	644142		

Template Name	Template Enabled	Item Enabled	Template Start Date	Template End Date	Contract Date Calculations	Contract Start Date	Contract End Date	Period UOM	Define Warranty
Test Template	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	05-Mar-2012		Forecast				<input checked="" type="checkbox"/>

- The contract template will be pre-populated by the warranty template.

Navigation: Configuration > Supplier Warranty > Search Warranty Instance > Edit Warranty (B) > Create Contract

The warranty administrator will then select the Start From method and choose the applicable warranty start date.

Create Warranty Contract
 * Indicates required field

Cancel Revert Apply

Instance Details

Item	C70-1	Instance	3078037
Serial Number	3988	Lot	

Contract Details

Contract Number	41002	Start From	Date
Vendor	American Telephone and Telegraph	* Contract Start Date	<input type="text"/> (example: 12-Mar-2013)
Type	Limited Warranty		
* Status	Pending		
Contract Date Calculation	Forecast		

Details Contract Counters

Warranty Template Name	J Test Template 1
Contract Description	<input type="text"/>
Terms and Conditions	<input type="text"/>
Reaction and Resolution Time	<input type="text"/>
Service Level Agreement	<input type="text"/>
Claim Labor Hours	<input type="text"/>
	<input type="checkbox"/> OSP Claim

Attachments None Add...

Cancel Revert Apply

- The warranty administrator can also verify that the Oracle Installed Base counters for the instances have been automatically associated, and adjust the counter start and threshold values as needed to update the expiration dates.

Navigation: Configuration > Supplier Warranty > Search Warranty Instance > Create Contract > Contract Counters

ORACLE® Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Master Configuration Unit Configuration Product Classification **Supplier Warranty**

Warranty Contracts Search Warranty Instance Warranty Template Warranty Entitlements Claim Management

Logged In As TSMITH

Update Warranty Contract: 25001

* Indicates required field

Warranty Workbench Cancel Revert Apply

Instance Details

Item **SS_ENGINE** Instance **2985099**
 Serial Number **547459** Lot

Contract Details

Contract Number **25001** Start From Date
 * Vendor Advanced Network Device * Contract Start Date 25-Jun-2012
 * Type Repair Warranty (example: 22-Mar-2013)
 * Status Active
 * Contract Date Calculation Forecast

Details Contract Counters

Details	Counter Name	UOM	Start	Stop	Threshold	Expiration Date	Delete
Show	TSO-413546	Util Hour	0	10000	10000		
Show	CSO-413548	Util Cyc	0	6000	6000		

Add a Row

Warranty Workbench Cancel Revert Apply

Master Configuration Unit Configuration Product Classification Supplier Warranty Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

- The warranty administrator can search by item or item instance number, and then click the Edit Warranty or View Warranty buttons.

Navigation: Configuration > Supplier Warranty > Search Warranty Instance

This action will take the user to the Warranty Workbench with the instance in context.

ORACLE® Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Master Configuration Unit Configuration Product Classification **Supplier Warranty**

Warranty Contracts **Search Warranty Instance** Warranty Template Warranty Entitlements Claim Management

Logged In As TSMITH

Search Warranty Instance

Search

Unit Configuration Include Child Instances
 Item
 Instance Number 2948037
 Serial Number
 Lot Number
 Go Clear

Template Name
 Template Assigned
☐ No Active Contract
☐ Show Only Enabled Templates
☐ Show Only Enabled Items

Results

Select Warranty Instance: Edit Warranty View Warranty

Select Details	Item Number	Serial Number	Item Description	Unit Configuration	Instance Number	Lot Number	Warranty Contracts
Show	GDSrCtrTrk	GDSrCtrTrk001	Serial Controlled Tracked Item	GDUC001	2948037		✓

Master Configuration Unit Configuration Product Classification Supplier Warranty Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Warranty Workbench

ORACLE Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Master Configuration Unit Configuration Product Classification **Supplier Warranty**

Warranty Contracts Search Warranty Instance Warranty Template Warranty Entitlements Claim Management

Logged In As TSMITH

Warranty Workbench

Calculate Expiration Date For All Cancel

Item Instance Details

Item	GDSrCtrTrk	Description	Serial Controlled Tracked Item
Serial Number	GDSrCtrTrk001	Lot Number	
Instance Number	2948037	Status	Out of the Enterprise
Quantity	1	UOM	Each
Unit Configuration	GDUC001	Unit Config Status	Complete

Warranty Contracts Define Warranty Instance Counters Warranty Providers Warranty Claims

Contract Status All Go Create Manual Contract

Select Item Calculate Expiration Date

Select Warranty Contract	Edit	Status	Warranty Type	Warranty Template	Expiration Date	Vendor Name
<input type="radio"/> 14000		Active	Service Warranty	GD-SWTemplateDate001	01-May-2012	Advanced Network Devices
<input type="radio"/> 14002		Active	Limited Warranty	GD-SWTemplateForecast001	15-Apr-2012	Advanced Network Devices
<input type="radio"/> 14003		Active	Limited Warranty	GD-SWTemplateForecast001	06-Apr-2012	Advanced Network Devices
<input type="radio"/> 14004		Active	Limited Warranty	GD-SWTemplateForecast001	06-Apr-2012	Advanced Network Devices
<input type="radio"/> 14005		Active	Limited Warranty	GD-SWTemplateForecast001	15-Apr-2012	Advanced Network Devices

Calculate Expiration Date For All Cancel

Master Configuration Unit Configuration Product Classification Supplier Warranty Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

- The warranty administrator can view all the active, pending and expired warranty contracts on the Warranty Contracts tab.

The warranty administrator can edit an existing warranty contract including certain fields on the contract header, Details, and Contract Counters tabs.

Update Warranty Contract: 25001

* Indicates required field

Cancel Revert Apply

Instance Details

Item **SS_ENGINE** Instance **2985099**
 Serial Number **547459** Lot

Contract Details

Contract Number **25001** Start From Date
 * Vendor **Advanced Network Device** * Contract Start Date **25-Jun-2012**
 * Type **Repair Warranty** (example: 22-Mar-2013)
 * Status **Active**
 * Contract Date Calculation **Forecast**

Details **Contract Counters**

Warranty Template Name
 Contract Description **Repair warranty**

Terms and Conditions **Covered for normal use, 10000 hours, 6000 cycles, whichever comes first**

Reaction and Resolution Time

Service Level Agreement

Claim Labor Hours ☐ OSP Claim

Attachments **None** [Add...](#)

Cancel Revert Apply

This role can also view the current Oracle Installed Base counters for the instance, the flagged warranty vendors and warranty claim history.

Use the Define Warranty tab to create new contracts for enabled warranty templates.

Warranty Workbench - Instance Counters

ORACLE Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Master Configuration Unit Configuration Product Classification Supplier Warranty

Warranty Contracts Search Warranty Instance Warranty Template Warranty Entitlements Claim Management

Logged In As TSMITH

Warranty Workbench

Calculate Expiration Date For All Cancel

Item Instance Details

Item **SS_ENGINE** Description **Pratt & Whitney F100**
 Serial Number **547459** Lot Number
 Instance Number **2985099** Status **In Inventory**
 Quantity **1** UOM
 Unit Configuration **SS_ENGINE 547459** Unit Config Status **Complete**

Warranty Contracts Define Warranty **Instance Counters** Warranty Providers Warranty Claims

Counter Name	Counter Type	UOM	Current Reading
TSN-413545	Regular	Util Hour	9825
TSO-413546	Regular	Util Hour	0
CSN-413547	Regular	Util Cyc	5458
CSO-413548	Regular	Util Cyc	0
DSN-413549	Regular	Day	0
DSO-413550	Regular	Day	0

Calculate Expiration Date For All Cancel

Master Configuration Unit Configuration Product Classification Supplier Warranty Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

The administrator can also manually define a warranty contract which is not based on an existing warranty template.

4. Monitor warranty entitlement through work orders and OSP.

The warranty administrator can monitor the warranty entitlements and work

orders used to install, remove and repair the assets during their serviceable lives.

- Maintenance planners will add MRs and create tasks which may include warranty references from engineering definitions, and auto-referencing matching warranty contracts at the task level.

Navigation: Planning > Visit Work Package > Visits > Search Visit

Select a visit to view tasks that may have warranty entitlements and work orders.

Update Visit

* Indicates required field

[Hide Visit Details](#)

Visit Number: 1394
Unit: GD-SWUC001
Item: GDSWSrCtrTrk
Organization: San Francisco Maintenance Center US
* Start Date: 29-Jun-2012 06:15:00
* Planned End Date: 11-Jul-2012 06:15:49
Visit Status: Implemented
Past Dated Visit: Yes

Visit Name: PASW
Visit Type: SS_FD_Mod
Serial Number: GDSWSrCtrTrk001
Department: Outside Processing SFM-B
End Date: 11-Jul-2012 06:15:49
Due By Date:
Work Order Number: 1394 - PASW
Build Goal Set up: No

[Cancel](#) [Revert](#) [Close](#) [Go](#) [Apply](#)

[Details](#) [Visit Tasks](#) [Task Dependencies](#) [Stages](#) [Maintenance Requirements](#) [Material Requirements](#) [Repair Workscope](#)

Task Search

Task Number:
Task Type:
Task Name:
Maintenance Requirement:
Department:
[Show more search options](#)
[Go](#) [Clear](#)

Item:
Unit:
Serial Number:
Task Status:

Select Task: Create Summary Task [Go](#)

[Select All](#) [Select None](#)

Select Details	Task Number	Task Name	Item	Unit Configuration	Serial Number	Maintenance Requirement	Department	Stage	Task Type	Task Status	Task Warranty	Instance Warranty	Warranty Contract	Warranty Status	Cost / Price
<input type="checkbox"/> Show	2	PAMRSW	GDSWSrCtrTrk	GD-SWUC001	GDSWSrCtrTrk001	PAMRSW			Summary	In Shop Floor		✓		Review	
<input type="checkbox"/> Show	3	SW	GDSWSrCtrTrk	GD-SWUC001	GDSWSrCtrTrk001	PAMRSW			Unplanned	In Shop Floor	✓	✓	28032	Approved	

- The planner or maintenance supervisor can further review the warranty of a work order in execution.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview > Work Order Operations

Edit the applicable contract, and view warranty eligibility for the work order being performed.

Work Orders | Operations | Resources | Materials | Maintenance Requirements | My Work Orders | Visits

Logged In As: T

Operations

Materials
Workorder Materials
Resources
Assignments
Resource
Transactions
Dispositions

Work Order Operations

* Indicates required field

Cancel Revert Apply Defer/Cancel

Work Order Num SFMPW0324378 Organization San Francisco Maintenance Center US

Work Order Description PASW.SW Department Outside Processing SFM-

All Operations Completed PAMRSW Project 1394

Maintenance Requirement PASW Project Task PASW

Route GDSWSrCtrTrk Serial Number 2998037

Item GD-SWUC001 Instance Number 3

Unit Name Visit Task 3

Quantity 1

Visit Number 1394

Work Order Status Released(1)

Hold Reason

AOG No

Completion Sub Inventory

Lot Number

* Scheduled Work Order Start Date 29-JUN-2012 * Scheduled Work Order End Date 11-JUL-2012

Scheduled Work Order Start Time Hrs 06 Mins 15 Scheduled Work Order End Time Hrs 06 Mins 15

Actual Job Start Date

Actual Job Start Time

Originating Work Order

Firm Plan Flag ☒ Firm

Completed Date

Service Type

Work Card Progress No Print request fired.

Accounting Class Maintenc

Priority

☐ Set Maintenance Requirement Pri

☐ Hold Reason is required when workorder is put on hold otherwise this value will be ignored.

Reserved for Work Order

Locator

Confirmed Failure

Warranty Details

Task Warranty ☒

Instance Warranty ☒

Warranty Contract 28032

Warranty Claim

Claim Status

Warranty Status Approved

- Warranty administrators can assist the technicians who request a warranty review.

If the technician updates the warranty contract, then a notification will be sent to the warranty administrator to review, and approve or deny the change.

Navigation: CMRO Technician > Technician > Technician Workbench > My Work Orders

ORACLE® Complex MRO

Navigator Favorites Home Profile Sign Out Help

My Work Orders

Logged In As: TSMITH

Update Work Orders

Show Icon Legend

Select Work Order Request Warranty Review Go

Select Number	Description	Start Date	Status	Complete Quality	Change Parts	Non-Routine	Task Card	Work Card	Work Card Progress	Visit Title	Quality	Sign Off	Check Unit Complete
SFMPW0324378	PASW.SW	29-Jun-2012 06:15:00	Released (1)							1394 PAMRSW			

Details: SFMPW0324378

Revert Apply

Details Operations Materials Documents Dependencies Warranty

Task Warranty ☒

Instance Warranty ☒

Warranty Contract 28032

Warranty Status Approved

Warranty Claim

Claim Status

Cancel

My Work Orders Home Profile Sign Out Help

The technician can update a work order and request a warranty review. A notification will be sent to the warranty administrator to review the warranty contract.

- Warranty administrators can view the Warranty Entitlement row for the work order and accept or deny the change to the warranty contract, including setting

the row to Null (not applicable).

Navigation: Configuration > Supplier Warranty > Warranty Entitlements

Search Entitlements

RevertApply

Simple Search

Work Order Number

Visit Number

Work Order Status

Non Routine

Warranty Contract

Warranty Status

Warranty Vendor Name

Visit Name

Work Order Description

OSP Order Number

Item

Serial Number

Unit

Go

Clear

Results

Select Object: Warranty Not ApplicableAcceptRejectPrevious1-10Next

Select AllSelect None

Claim	Work Order	Work Order Description	End Date	Non Routine	OSP Order Number	OSP Unit	Item	Serial Number	Warranty Contract	Old Warranty Contract	Warranty Status	Warranty Expiry Date	War Ven
Select Number	Visit Number				Line Name								Ham
<input checked="" type="checkbox"/>	241	SFMPW034379	SS_Airframe_SB_Route1	SS_Airframe_SB_Route1			SS_P100 SS_Airframe S/N 111	SS00001	10020	10020	Approved	22-Mar-2013	Ame Tele and Tele
<input type="checkbox"/>	1915	SFMPW0426365	21-150-00-00.Cabin Temp Sensor Filters				RRUC1 RRSrCbrTrk	RR1000	16001	16001	Approved	30-Apr-2012	Adv Netv Devi
<input type="checkbox"/>	1869	SFMPW0418842	22-1-2-1-3.Warranty_Repair_Route				RRUC1 RRSrCbrTrk	RR1000	16001	16001	Approved	30-Apr-2012	Adv Netv Devi

- View warranty eligibility for OSP item for an organization.

Navigation: Execution > Outside Processing > Inventory Items

ORACLE® Complex MRO

NavigatorFavoritesCMRO Home HomeEngineering Configuration Planning Administration Execution Profile OutHelp

Production PlanningOutside ProcessingService HistoryMaterial Transactions

OSP OrdersInventory Items

Logged In As TSMITH

Inventory Items

* Indicates required field
Indicates that one or more active OSP Orders exist for the Item

Simple Search

You must fill out the following field before starting your search: Inventory Organization.

* Inventory Organization

San Francisco Maintenan

Sub Inventory

Item Number

SS_CA_S_OC

Serial Number

2003

Go

Clear

Advanced Search

Results

Select Items: Create Service OrderCreate Exchange Order

Select AllSelect None

Select Details	Inventory Organization	Sub Inventory	Item Number	Serial Number	Lot	Warranty Hand	On Hand	Non Routine	*Service Quantity	Service Item	Ship
<input type="checkbox"/>	Show	San Francisco Maintenance Center US	In_Rpr-CP	SS_CA_S_OC	2003	✓	1Ea		1	SS_CA_S_OC-OVHL	<input checked="" type="checkbox"/>

Production PlanningOutside ProcessingService HistoryMaterial TransactionsHomeCMRO HomeEngineering Configuration Planning Administration Execution Profile Sign OutHelp

- View any applicable warranty at the vendor level and for the shipping lines at the item instance level.

Navigation: Execution > Outside Processing > Inventory Items

The warranty administrator can also request a warranty review using this UI.

ORACLE Complex MRO

Navigator Favorites Home Home CMRO Engineering Configuration Planning Administration Execution Profile Out Sign Help

Production Planning Outside Processing Service History Material Transactions

OSP Orders Inventory Items

General
Shipment
PO Details

Edit OSP Order 15000: General

* Indicates required field

Order Number 15000 Order Date 22-Mar-2012
 Order Status PO Created Buyer Name Smith, Mr. Tom
 Description Vendor Location NY
 Vendor Name American Telephone and Telegraph Shipment Number 80048
 Vendor Contact Vendor Warranty Yes
 Order Type Service
 OSP Attachments None Add...

Cancel Convert To Exchange

Order Lines

Details	Line Number	Status	Job Number	Item Number	Service Item	Quantity	UOM	Need By Date	Change Item
Hide	1	PO Created		SS_CA_S_OC	SS_CA_S_OC-OVHL	1	Ea	31-May-2012	
Item Description		Compressor		Sub-Inventory	STORES	UOM		Service Item Description	
Blades		Lot Number		Quantity	1	Visit Name		MBItemSS_C	
Inventory Organization		San Francisco		Item Warranty	✓	Task Name			
Maintenance Center US		Warranty Contract		Warranty Contract	10007	Warranty Warranty			
Serial Number		2005		Warranty Status	Approved	Warranty Claim			
				Claim Status					

Cancel Convert To Exchange

Production Planning Outside Processing Service History Material Transactions Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

5. Monitor warranty expirations.

The warranty administrator will also monitor the expiration notifications for assets and advise maintenance planning to ensure appropriate warranty inspection and recovery.

Navigation: Administration > Workflow > Workflow Process Mapping

A concurrent program can be scheduled which provides a notification and report of all warranty contracts expiring within "x" days. This notification can be sent to the warranty administrator, who can discuss it with the maintenance planner.

ORACLE Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance

Logged In As TSMITH

Workflow Process Mapping

Select any Workflow Mapping for removing Remove Previous 1-10 of 22 Next

Select	Process Name	Application Usage	Object	Active
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Warranty Workorder Completion	No
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Warranty Expiration	No
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Warranty Entitlement	No
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Removal Non-Routine	No
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Visit UE's Service Category Exception	No
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Visit Deletion	No
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Visit Disconnect	No
<input type="checkbox"/>	AHL Generic OA Notification Process	Complex Maintenance Repair and Overhaul	Visit Duration	No
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Production Deferral	Yes
<input type="checkbox"/>	ASO Generic Approval Process	Complex Maintenance Repair and Overhaul	Unit Configuration- Access Control List	No

Add More Rows

Select any Workflow Mapping for removing Remove Previous 1-10 of 22 Next

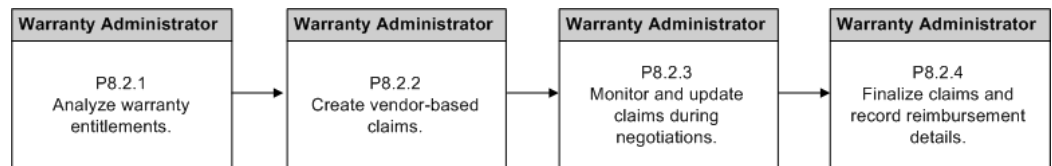
Cancel Apply

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance Reports Home CMRO Home Engineering Configuration Planning Administration

8.2. Major Task - Administer warranty claims:

Task Description: Analyze warranty entitlements, create, monitor and finalize claims after negotiations, and record any warranty recovery.

Task Flow



1. Analyze warranty entitlements.

The warranty administrator will analyze warranty entitlements while supporting post visit audits, non-routine maintenance, service bulletins and front line warranty queries.

Navigation: Configuration > Supplier Warranty > Warranty Entitlements

The warranty administrator can analyze the Warranty Entitlement rows by vendor, unit, item, visit, and so on, and confirm which work orders and OSP line entitlements are warranty eligible. The warranty administrator will verify that each entitlement record has the correct contract reference and the appropriate warranty status is selected.

ORACLE Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Master Configuration Unit Configuration Product Classification Supplier Warranty

Warranty Contracts Search Warranty Instance Warranty Template Warranty Entitlements Claim Management

Logged In As TSMITH

Search Entitlements

Revert Apply

Simple Search

Work Order Number Visit Name

Work Order Status Work Order Description

Visit Number OSP Order Number 25001

Non Routine Item

Warranty Contract Serial Number

Warranty Status Approved Unit

Warranty Vendor Name

Go Clear

Results

Select Object: Warranty Not Applicable Accept Reject

Select All Select None

Claim Select Number	Work Order Visit Number	Work Order Description	End Date	Non Routine	OSP Order Number	OSP Line	Unit Name	Item	Serial Number	Warranty Contract	Old Warranty Contract	Warranty Status	Expiry Date	Warranty Vendor Name
62					25001	1		GDsrCtrTrk	GDsrCtrTrk101	17007	17007	Approved		Advanced Network Devices

Revert Apply

2. Create new vendor-based claims.

Navigation: Configuration > Supplier Warranty > Claims Management > Search Warranty Claim > Create

ORACLE Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Master Configuration Unit Configuration Product Classification Supplier Warranty

Warranty Contracts Search Warranty Instance Warranty Template Warranty Entitlements Claim Management

Logged In As TSMITH

Create Warranty Claim

Cancel Revert Apply

Warranty Claim Header

Claim Number 322 Claim Name

Claim Status Unissued Claim Vendor

Claim Date 12-Apr-2013 Created By OSP

Warranty Claim Details

Details Work Orders Reimbursement Turnover Notes

Amount UOM USD

Total Order Amount 0 Notes

Detail Attachments None Add...

Cancel Revert Apply

Master Configuration Unit Configuration Product Classification Supplier Warranty Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

1. Enter the claim header attributes.
2. Update the information on the Details tab and add attachments.
3. Add work orders or OSP lines to the claim by selecting the Work Orders tab.

Navigation: Configuration > Supplier Warranty > Claims Management > Search Warranty Claim > Create

Update Warranty Claim: 1

Warranty Claim Header

Claim Number 1
Claim Status Unissued

Claim Name OSPClaim1
Claim Date 23-Mar-2012
Claim Vendor American Telephone and Telegraph
Created By OSP

Warranty Claim Details

Details | Work Orders | Reimbursement | Turnover Notes

Select All | Select None

Select	Work Order	End Date	Item	Serial Number	Warranty Contract	Claim Amount
<input type="checkbox"/>	16000		SS_CA_S_OC2009	11000	11000	11000

The warranty administrator can add claim notes for tracking by using the Turnover Notes tab.

Navigation: Configuration > Supplier Warranty > Claims Management > Search Warranty Claim > Update Warranty Claim > Turnover Notes

Update Warranty Claim: 302

Warranty Claim Header

Claim Number 302
Claim Status Unissued

Claim Name OSPClaim302
Claim Date 12-Sep-2012
Claim Vendor Advanced Network Device
Created By OSP

Warranty Claim Details

Details | Work Orders | Reimbursement | Turnover Notes

Turnover Notes

✓ TIP Notes is a mandatory column and describes the work performed

*Date/Time	*Employee	*Notes
06-Apr-2013 17:01:25	Smith, Mr. Tom	

Add Row

4. Finalize claims and record reimbursement details.

Navigation: Configuration > Supplier Warranty > Claims Management > Search Warranty Claim > Update Warranty Claim > Reimbursement

The warranty administrator will add reimbursement details on the Reimbursement tab, including any reference documents and attachments, such as a credit letter.

See *Working with Supplier Warranty, Oracle Complex Maintenance, Repair and Overhaul User's Guide* for more information regarding supplier warranties.

Role 9.0 - Maintenance Records - Data Clerk

This role is responsible for updating records of maintenance performed. This role is usually required in businesses that do not enable the technicians (or persons performing the work) to update the system directly. Updates can be performed when the work associated with an operation is captured on paper and then transferred to the system. There is normally up to a one work shift lag when a data clerk is involved. This role can also be responsible for inserting omitted work after it is discovered, or making corrections to erroneous data.

Associated Major Business Types:

Aircraft Operator, page 2-3

Heavy Maintenance, page 2-4

Complex Assembly Maintenance, page 2-5

Component Shop, page 2-6

9.1. Major Task - Create required records manually or as system reports:

Prepare aircraft records (Summary Documents) for certification by an FAA Designated Airworthiness Representative (DAR). The following table includes a list of documents with a brief explanation of each. The FAA DAR will review these documents as applicable.

SI Number	Document Name	Document Description
1	A completed FAA Form 8130-6 or FAA Form 8130-1	The 8130-6 form is used to apply for a standard and special airworthiness certification. The 8130-1 form is used to apply for an export certification.
2	Type Certificate Data Sheet	<p>The Type Certificate Data Sheet (TCDS) is like a birth certificate, and provides a formal description of the aircraft, engine or propeller that has received type certification by the FAA. It lists limitations and information required for type certification including airspeed limits, weight limits, thrust limitations, and so on.</p> <p>The FAA DAR will check this document for any specific notes related to the airworthiness certification and confirm that the aircraft serial number is listed.</p>
3	Copies of Previous Certifications	Aircraft records showing previous certification history is useful to determine a baseline for the current certification. If the aircraft has been registered outside the United States, this information is useful in determining what records the FAA DAR will begin reviewing first.

SI Number	Document Name	Document Description
4	Export Certificate of Airworthiness	<p>If the aircraft was purchased from someone in another country or it is returning to the U.S. after being leased to an operator in a foreign country, there will usually be an export certificate of airworthiness issued by the foreign civil aviation authority.</p> <p>The foreign export airworthiness certificate should indicate that the aircraft meets the FAA requirements. However, some countries are not as knowledgeable about current FAA requirements, and often these documents are not helpful to the FAA DAR. In this case, for an aircraft manufactured in the United States, the original export certificate from the manufacturer would be used as the baseline. There are increasingly more bilateral agreements being formed between the United States and foreign countries for the reciprocal acceptance of export airworthiness certificates. Your FAA DAR will be familiar with these agreements and will advise accordingly.</p>

SI Number	Document Name	Document Description
5	Proof of De-Registration	<p>If the aircraft was previously registered in a foreign country, the FAA DAR must see proof in the aircraft records of de-registration. This is typically in the form of a telex or fax message from the foreign civil aviation authority to the FAA. An aircraft cannot be registered in two countries at the same time.</p>
6	Proof of U.S. Registration	<p>In the United States, the pink copy of the FAA Form 8050-1 can be used for this purpose. If the aircraft is located outside the United States, an official document (referred to as a fly-wire) issued by the FAA registration branch is usually needed to prove registration.</p> <p>Another acceptable method would be to search the FAA registration database.</p> <p>If you find your aircraft registration information listed, you can print that page and this can be considered proof of registration until you receive the official registration form in the mail.</p>

SI Number	Document Name	Document Description
7	Noise Standards	Typically these requirements are applicable to turbine engine powered or large reciprocating engine powered aircraft. If the aircraft has a U.S. type certificate and has not been substantially modified to the extent that there is an acoustical change, it meets the noise requirements of FAR 36. If the aircraft has been substantially modified or is foreign manufactured, a FAA DAR may need to involve FAA engineering in making a determination if it meets the requirements of FAR 36.
8	Fuel Venting Requirements	The fuel venting requirements of FAR 34 apply to aircraft with turbine engines. If an aircraft has a U.S. type certificate, it complies with this requirement. If the aircraft fuel system has been modified or the aircraft was not manufactured in the U.S., this requirement may need to be addressed before a certificate can be issued.

SI Number	Document Name	Document Description
9	Interior Arrangement and Emergency Equipment List	<p>During the life of a larger aircraft, the interior configuration can be changed many times. Smaller aircraft will rarely see a seating configuration change.</p> <p>Aircraft records should exist that show the change to the configuration and that change must be FAA approved. If the interior has been altered since the aircraft was produced, a Supplemental Type Certificate (STC) or FAA Form 8110-3 is the usual form of approval. A drawing, entitled "Layout of Passenger Accommodation" (LOPA), is referenced in the approval document.</p> <p>Usually as part of the LOPA is a drawing entitled, "Emergency Equipment Drawing". This document shows the location and part number of all the emergency equipment required (by regulation) to be installed on the aircraft. The DAR will be looking for the approval document and conformity to the drawings as part of the aircraft records audit.</p>

SI Number	Document Name	Document Description
10	Material Flammability Certification	<p>When an aircraft is built, the materials used in the interior and cargo compartments must meet the flammability requirements of FAR 25.853 (for large aircraft) or FAR 23.853 (for small aircraft). These regulations require materials to be fire resistant, which would allow passengers sufficient time to exit an aircraft in the event of a fire during an accident.</p> <p>If any of the seat covers, cushions, carpet, curtains, side wall panels, cargo liners, and so on, have been changed, it is important that you obtain paperwork attesting to the materials compliance with the applicable regulations.</p>
11	Summary of Aircraft Time in Service	<p>From a review of the aircraft records, the FAA DAR must be able to determine the total time and cycles of the aircraft. There should be a record (computer print out, or log book) that shows the times and cycles in chronological order from zero hours and cycles until the current hours and cycles.</p>

SI Number	Document Name	Document Description
12	Airworthiness Directives Status	<p>A critical item in the aircraft records is the summary of airworthiness directives (ADs).</p> <p>The FAA issues ADs when a specific condition has been discovered to exist on an aircraft. If this condition is not corrected, the safety of the aircraft could be jeopardized.</p> <p>New ADs are published regularly, and aircraft owners should be aware of the ADs that are applicable to their aircraft.</p> <p>There should be a summary sheet showing the status of all ADs in chronological order by AD number. An example of a summary sheet format can be found in advisory circular (AC) 43.9C Appendix 1.</p> <p>In addition to the status summary, you should also have a copy of the actual document used to record the accomplishment of the AD as part of the aircraft records. This document will include the date, method of compliance, and the name and signature of the person who performed the AD.</p>

SI Number	Document Name	Document Description
13	Service Bulletin Status	There should be a summary sheet showing the status of all manufacturers service bulletins (SBs) incorporated on the aircraft. SBs should be listed in chronological order by SB number. In addition to the status summary, you should have the actual document used to record the accomplishment of the SB.
14	Structural Inspections Item Status	<p>Supplemental Structural Inspections were mandated by the FAA for older large aircraft. This was done through the issuance of airworthiness directives that target certain principal structural elements of the aircraft. Most smaller aircraft do not have this requirement.</p> <p>Newer large aircraft include special structural inspections as part of their maintenance program. Aircraft records reflecting the status as to when the inspections were last done and when they are next due would be all that is required for certification.</p>

SI Number	Document Name	Document Description
15	Certification Maintenance Requirements	<p>A Certification Maintenance Requirement (CMR) is a required periodic task, established during the design certification of the airplane as an operating limitation of the type certificate.</p> <p>CMRs usually result from a formal, numerical analysis conducted to show compliance with catastrophic and hazardous failure conditions.</p> <p>A list of CMRs required can be found in the manufacturer's maintenance planning document, or other documentation referenced on the type certificate data sheet (TCDS). A summary sheet should be prepared and kept with the aircraft records that show when the CMR's were accomplished and when they are next due.</p> <p>CMRs may not be applicable to small aircraft.</p>

SI Number	Document Name	Document Description
16	Airworthiness Limitations	<p>Airworthiness Limitations (AWLs) are an FAA approved means of introducing certain inspections or maintenance practices to prevent problems with certain systems. They can be in the form of an Airworthiness Limitation Instruction (ALI) or Critical Design Configuration Control Limitation (CDCCL). A list of required AWLs can be found in the maintenance planning document from the manufacturer or other documentation referenced on the type certificate data sheet (TCDS). A summary sheet should be prepared and kept with the aircraft records that reflect when the CMRs were accomplished and when they are next due. AWLs may not be applicable to small aircraft.</p>

SI Number	Document Name	Document Description
17	Installed Component List with Certification Tags	<p>Each component that is installed on an aircraft after manufacture should be from a known manufacturing source. The only way to prove this is to keep a copy of the airworthiness certification for that part in the aircraft records.</p> <p>This is typically FAA Form 8130-3 or EASA Form One with a "dual release". The certification of compliance (C of C) from the aircraft manufacturer for a new part being installed is also acceptable.</p> <p>If the part was installed prior to the aircraft being on the U.S. registry, the certification from the country of an International Civil Aviation Organization (ICAO) member is acceptable to include in the aircraft records.</p> <p>You should keep a list of all components changed and a copy of the certification document with the records.</p>

SI Number	Document Name	Document Description
18	Hard Time Components Status with Certification Tags	<p>The aircraft manufacturer will identify certain components that require a specific maintenance action (overhaul, inspection, test, and so on) at specified intervals. These components are referred to as hard time components.</p> <p>The recommended actions must be documented and a summary status of these components maintained in the aircraft records to track the date and time when the required action was last done and when it is next due.</p>
19	Landing Gear Overhaul Data and Life Limited Parts (LLP) Status	<p>If the landing gear on your aircraft is required to be overhauled periodically, you must provide a copy of the last overhaul records.</p> <p>If there are life limited parts (parts requiring replacement at a certain time interval) installed in the landing gear, you must provide a summary of the life limited parts installed as part of the aircraft records. The summary must include the total cycles on the part and the cycles remaining until replacement.</p>

SI Number	Document Name	Document Description
20	Engine Summary Data	You should have engine maintenance records to indicate the last overhaul of the engine, a summary status of airworthiness directives accomplished, and a summary status of any life limited parts installed in each engine. This summary must include the total hours and cycles and hours or cycles remaining until replacement.
21	Auxiliary Power Unit (APU) Summary Data	If your aircraft has an APU installed, you should have maintenance records to show the last overhaul of the APU, a summary status of airworthiness directives accomplished, and a summary status of any life limited parts installed in the APU, if applicable. This summary must include the total hours and cycles and hours or cycles remaining until replacement.

SI Number	Document Name	Document Description
22	Repair Records	<p>The aircraft records must reflect that any repairs performed were accomplished in compliance with FAA-approved data and that the aircraft conforms to its type design requirements. The published repair data (structural repair manual) from a manufacturer is considered FAA-approved data.</p> <p>If the repair is not a manufacturer published repair, it will require FAA approval. This is typically achieved by a Designated Engineering Representative (DER) on FAA Form 8110-3. For example, large transport category aircraft being operated by an airline are surrounded by ground support equipment. This can result in dents and damage to the aircraft. A dent map is useful in showing the location and dimensions of each dent.</p> <p>Depending on the number of repairs that result from this damage, a repair map is useful in showing the location of each repair and makes it easier for the DAR to identify and review the supporting documentation.</p>

SI Number	Document Name	Document Description
23	Alteration Records	<p>You must show that any major alterations or modifications were accomplished in compliance with FAA-approved data and that the aircraft conforms to its type design requirements. Supplemental type certificates (STC), manufacturer service bulletins, or other data approved by the FAA on an FAA Form 8110-3 are examples of FAA-approved data. Note: You must have a right to use letter from the owner of the STC before it can be installed.</p>
24	Flight Manual	<p>Before an aircraft can be certificated, it must have an up-to-date approved flight manual (AM) on-board. The aircraft manufacturer can inform you of the latest revision level. In addition, some modifications (for example, avionics upgrades, Sects, and so on) affecting aircraft performance or flight characteristics will have flight manual supplements issued.</p> <p>Verify that all flight manual supplements are inserted in the AM.</p>

SI Number	Document Name	Document Description
25	Weight and Balance and Equipment List	<p>As part of the original airworthiness certification, the aircraft is weighed to determine that the ranges of weight and center of gravity are within the approved limits, as specified in the appropriate aircraft specification or type certificate data sheet.</p> <p>There must be a current weight and balance report available for the aircraft which includes an updated equipment list. The original equipment list produced by the aircraft manufacturer lists those items of equipment which are replaceable on the aircraft to include the weights and moment arms.</p> <p>This list should be amended as components are changed and kept current during the life of the aircraft.</p>

SI Number	Document Name	Document Description
26	Inspection Program Status	<p>Each inspection accomplished must be recorded in the aircraft records. A summary showing when each inspection was performed and when it is next due makes it easy to determine the status of the inspection program. Provide a copy of each record entry (release to service) for each major inspection.</p> <p>A recent inspection is required for standard and export airworthiness certification. The inspection should meet the requirements of FAR 43, Appendix D in scope and detail.</p> <p>Credit may be given for recent inspections performed in accordance with a continuous airworthiness maintenance program. This at the discretion of the FAA DAR.</p>

Role 10.0 - Line Maintenance Supervisor

This role is responsible for coordinating and monitoring work assigned to line maintenance, which includes both transit and overnight jobs. The Line Maintenance Supervisor (LMS) will also oversee the technicians who are assigned to execute jobs in these areas. Because the major focus in line maintenance is to ensure the on time dispatch of aircraft and airworthiness status, this supervisor will update the Maintenance Control Center (MCC) of the ongoing maintenance status and potential delays derived from transit or overnight visits. The MCC will then use the LMS advice to inform the Operational Control Center (OCC) of the Estimated Time of Repair (ETR), to properly plan and adjust the flight schedules.

Associated Major Business Type: Aircraft Operator, page 2-3

10.1. Major Task - Monitor work load:

1. Oversee daily flight plan.

Navigation: Planning > Planning Workbench > Planning Workbench > Search Unit Downtimes

1. Navigate to the Search Unit Downtimes page and enter values in the search criteria to retrieve flight schedules.

Maintenance Schedule

[Unit Down Times](#) | [Organization Schedule](#) | [Fleet Schedule](#)

Search Unit Schedule

Arrival Organization: San Francisco Maintenance
 Department:
 Arrival From:
 Service Category >=:

Fleet:
 Unit: C70-1, SN 313, Tail # VA523
 Departure To: 24-Jun-2013 00:00:00
 Minimum Duration: 0 UOM Hours

Advanced Search

Select Unit Downtime: View Organization Schedule

[Show All Details](#) | [Hide All Details](#)

Select Details	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/>	<input type="button" value="Hide"/>	C70-1, 2000 SN 313, Tail # VA523	San Francisco Maintenance Center US	Base Maintenance, SFM-8	1	22-Aug-2012 23:18:00		23.02	Hours	2000	San Francisco Maintenance Center US	23-Aug-2012 22:19:00			

Visit

Select Visit: Automatically Assign Requirements

Select	Schedule To	Visit Number	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Space	Firm Lock	AOG	Cancel
<input type="radio"/>	<input type="button" value="Calendar"/>	1664	Transit Check Old	Planning	22-Aug-2012 22:18:00	23-Aug-2012 22:19:00		<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Calendar"/>

2. Coordinate aircraft moving and logistics for both transit and overnight maintenance.
3. Plan overnight maintenance.

Navigation: Planning > Planning Workbench > Planning Workbench > Search Unit Maintenance Plan

Unit Maintenance Plan | Visit Work Package | **Planning Workbench** | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Planning Workbench Logged In As TSMITH

[Apply](#) [Revert](#)

Unit Maintenance Plan

[Hide UMP Search Region](#)

Simple Search

Unit Name

Item

Title

Due From 24-Jun-2013

Program Type Line Maintenance

Due Within UOM

Arrival Organization San Francisco Maintenance

Non Routine Type

Fleet

Serial Number

Scheduled Status

Due To

Program Sub Type

Implement Status

☒ Include Tolerance Date

☒ Show Dependent Requirements

On Wing

Advanced Search

[Go](#) [Clear](#)

Select Requirements: [Search Unit Downtimes](#) [Create Visit](#) Previous 1-10 Next 10

[Select All](#) [Select None](#) [Show All Details](#) [Hide All Details](#)

Select Details	Unit	Program Type	Title	Item Number	Serial Number	View All UOMs	Cnt Name	Cnt UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Visit Request	Service
<input type="checkbox"/> Show	C70-1, SN 313, Tail # VAS23	Line Maintenance	Replace O2 Generator	C70-1	313	∞	TSN	UHR	240		24-Jun-2013				
<input type="checkbox"/> Show	C70-1, SN 313, Tail # VAS23	Line Maintenance	Replace First Aid Kit	C70-1	313	∞	TSN	UHR	240		24-Jun-2013				
<input type="checkbox"/> Show	C70-1, SN 313, Tail # VAS23	Line Maintenance	Replace Slideraft	C70-1	313	∞	TSN	UHR	240		24-Jun-2013				

4. Advise and coordinate solutions for any unresolved discrepancies.

10.2. Major Task - Support job completions:

1. Provide in-progress technical support.
2. Verify job completions and Return to Service (RTS) documentation.
3. Communicate any maintenance delays to corresponding departments.
4. Verify that no mandatory requirements are due prior to aircraft dispatch.

10.3. Major Task - Oversee personnel administrative tasks:

1. Consider crew qualifications and training requirements.
2. Oversee technician training program.
3. Manage attendance roster.

10.4. Major Task - Oversee workplace administrative tasks:

1. Coordinate emergency corrective actions required as a result of a critical condition.
2. Ensure that safe work conditions and tooling are available.

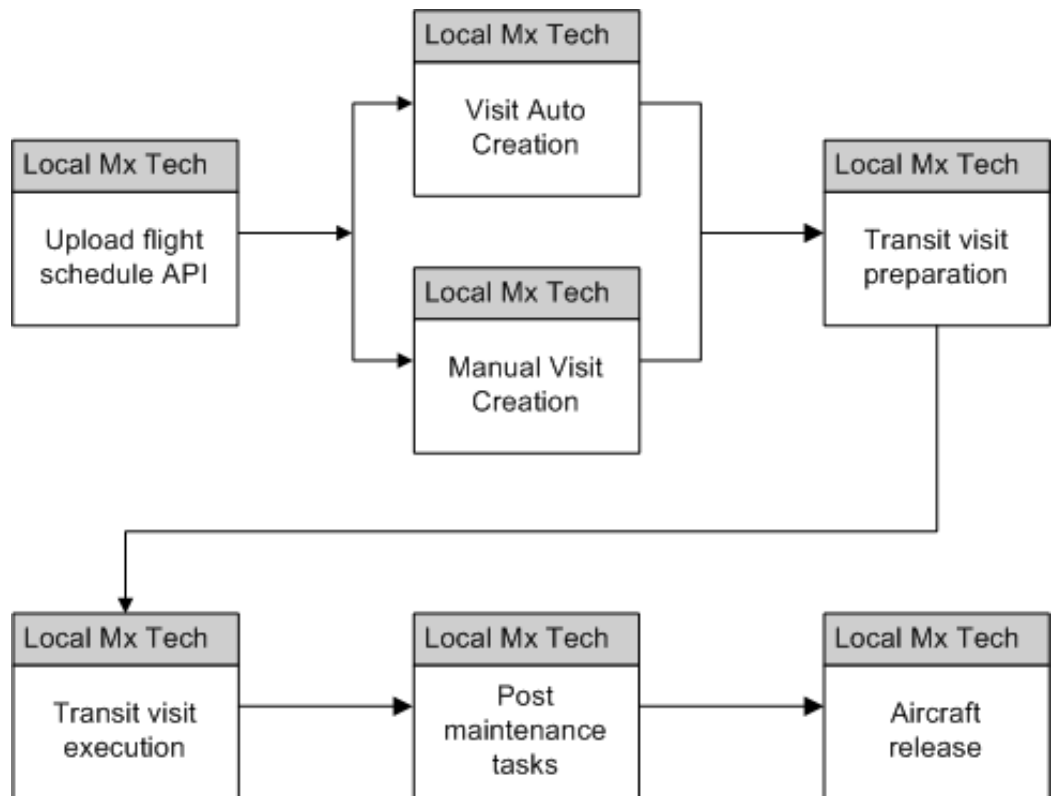
Role 11.0 - Line Maintenance Technician

This role is primarily involved in the execution of the work scope associated with aircraft transits and overnight checks. The Line Maintenance Technician is assigned tasks which are required for an aircraft release (return to service) within short periods of time, such as transit stops or a first flight of the day (overnight release). In addition, this role may also be responsible for preparing execution requirements prior to aircraft arrival including materials, tools, and documentation.

Depending upon the line station size, this role may also be responsible for tasks that belong to a Line Maintenance Supervisor.

Associated Major Business Type: Aircraft Operator, page 2-3

Task Flow



11.1. Major Task - Prepare jobs:

Task Description: Planned jobs to be performed within a transit or overnight time frame. These jobs could include tasks prior to aircraft landing, transit maintenance and all the way down to aircraft dispatch.

When visits are auto-created, line maintenance technicians are released from this duty, and visits are created based on operation down time definitions. The combined view of

UMP and unit down times tabs will reflect over-scheduled and unscheduled requirements. To avoid maintenance delays, priorities for the MRs based on due date and unit down time (transit-overnight times) combinations will outline jobs to be accomplished. Overnight flows in UMP and unit down times will also be used to outline hangar space conflicts in overcrowded maintenance facilities.

1. Oversee daily flight plans.

2. Review maintenance and crew log books for open discrepancies.

Requirements from previous flight legs (MEL and transit tasks) are entered through non-routines prior to being executed. Post log book maintenance entries to be followed by APIs to enable task creation prior to aircraft landings. Turnover notes can be used to advise of ongoing job or special work order completions needs. Engineering specific setup tasks for aircraft configuration are outlined as preliminary jobs such as de-fueling and washing. Overnight maintenance is followed by open UMP requirements along with unit down times. VWP details can be used to assign units to hangar areas based on special scheduled requirements (engine run up, cabin pressurization, and so on).

3. Review ongoing maintenance.

Navigation: Planning > Planning Workbench > Planning Workbench > Search Unit Downtimes

Search for a visit and review visit maintenance information.

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Search Flight Schedules

Unit: Flight Number:
Item Number: Serial Number:
Departure Organization: Arrival Organization:
Start Date: End Date:
(example: 26-Mar-2013 19:45:00)

Unit	Flight Number	Segment Organization	Arrival Organization	Estimated Departure Time	Estimated Arrival Time	Actual Departure Time	Actual Arrival Time	View/Edit Remove
C70-1, SN 313, Tail # VA523	SS301	SFM-DFW SFM	DFW	06-Nov-2013 06:00:00	06-Nov-2013 07:45:00			
C70-1, SN 313, Tail # VA523	SS302	DFW-SFM DFW	SFM	06-Nov-2013 09:00:00	06-Nov-2013 11:00:00			

4. Prepare materials, tools, and resources.

Material and resources requirements for ongoing jobs are manually added. Material and resources associated to routes and operations are requested when adding requirements to visits.

11.2. Major Task - Execute jobs:

1. Receive aircraft.

Towing, parking and cone signal activities are performed by user based on MR conditions, along with ground support equipment, and connection and access panels opening. Perform assigned or unassigned jobs included in planned or unplanned maintenance.

2. **Navigation:** Complex MRO > Technician > Technician Workbench > My Work Orders

Execute work cope such as:

- Update and complete operations and work orders.
- Record QA results for operations, work orders, and MRs.
- Enter DFF requested values, if any.
- Perform part changes, if applicable.
- Create non-routine work orders.
- Update material and resource requirements.
- Perform material issues and returns.
- Perform resource transactions.
- Cancel work orders, if applicable.
- Defer maintenance requirements.

My Work Orders Logged In As: TSMITH

Update Work Orders Cancel

Show Icon Legend

Select	Number	Description	Start Date	Status	Complete Quality	Change Parts	Non-Routine	Task Card	Visit Title	Maintenance Requirement Quality	Sign Off	Check Unit Complete
<input type="radio"/>	SFM60314	VA-C70-53-340-00 Corrosion Prevention - Inspect Flight compartment floor structure	22-Sep-2011 00:25:38	Released (1)					266 VA-C70-53-340-00		<input type="button" value="Go"/>	<input type="button" value="Go"/>

Details: SFM60314 Revert Apply

Details Operations Materials Documents Dependencies Warranty

Number: SFM60314
 Description: VA-C70-53-340-00 Corrosion Prevention - Inspect flight compartment floor structure
 Scheduled Start Time: 22-Sep-2011 00:25:38
 Scheduled End Time: 27-Sep-2011 00:27:48
 All Operations Complete: ☒
 Confirmed Failure: ☐
 Released Date: 22-Sep-2011 00:25:38

Status: Released(1)
 Hold Reason:
 Hold Reason is required when workorder is put on hold otherwise this value will be ignored.

Actual Start Time:
 Actual End Time:
 Completed Date:
 Closed Date:

Show Other Details

Turnover Notes

TIP Notes is a mandatory column and describes the work performed

Date/Time	Employee	Notes
22-Sep-2011 23:06:07	Smith, Mr. Tom	Status Change Event: Status changed from 'Unreleased' to 'Released(1)'.
22-Sep-2011 00:29:50	Smith, Mr. Tom	Status Change Event: Status changed from 'Draft' to 'Unreleased'.

Cancel

11.3. Major Task - Perform post maintenance tasks:

1. Complete open jobs.

Requirements are signed off after jobs are completed and non-routines referrals are addressed.

Unserviceable or excess materials and ground support equipment are returned to subinventories.

2. Complete additional required maintenance procedures.

11.4. Major Task - Release aircraft:

Close open visits.

1. Clear gate area.
2. Check that all jobs are complete (or deferred).
3. Close visit.

1. Navigate to the Search Visit page, and query for the visit that you want to close.

Navigation: Execution > Production Planning > Visits > Search Visit

2. Select the radiobutton for the visit that you want to close, select Close from the Select Action drop-down, and click the **Go** button.

4. Report aircraft status (maintenance and operational limitations).
5. Release aircraft.

Role 12.0 - AOG Planner

This role is responsible for locating and securing materials that cannot be fulfilled by the standard supply chain plan. These unresolved material shortages will affect scheduled flights if left unattended. The AOG Planner works in a fast-paced environment and looks across multiple supply sources to immediately resolve last minute demands. This role requires the understanding of all material requirements, organization and inventory structures, priorities of ongoing and planned work, and flight operation impact. An AOG planner will work diligently to minimize the impacts to line maintenance and flight schedules, while balancing the material allocation against other known material demands within the business.

This role focuses on demand dates and procuring items, with little consideration of build goals.

Note: A minimum of one AOG item identifies the visit as AOG.

Associated Major Business Type: Aircraft Operator, page 2-3

12.1. Major Task: Monitor AOG aircraft material requirements

Task Description: Review required AOG parts shortages, review location of AOG material, and identify AOG material shortages.

1. Search for an AOG maintenance visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

The screenshot displays the Oracle Complex MRO Planning Workbench interface. The top navigation bar includes links for Unit Maintenance Plan, Visit Work Package, Planning Workbench, Fleet Forecasting, Component Maintenance, Assembly Maintenance, and Auto Visit Planning. The main content area is titled "Unit Maintenance Plan" and features a "Simple Search" section with various input fields and dropdown menus. The "Simple Search" section includes fields for Unit Name, Item, Title, Due From, Program Type, Due Within, Arrival Organization, Non Routine Type, Fleet, Serial Number, Scheduled Status, Due To, Program Sub Type, Implement Status, and On Wing. There are also checkboxes for "Include Tolerance Date" and "Show Dependent Requirements". Below the "Simple Search" section is an "Advanced Search" section with fields for Operating Organization, Primary Visit Type, Visit Number, Max Duration, Service Category, Engineering Organization, Scheduled Visit Type, and Visit Organization. There are checkboxes for "Show Only Non Routine Requirements" and "Show Only Visit Date - Due Date Violations". The interface also includes "Go" and "Clear" buttons at the bottom of the search sections.

2. Identify AOG material requirement shortages.

Navigation: Material Marshalling User > Demand and Supply Management > Work Order Material Demand

ORACLE Complex MRO

Navigator Favorites Home Profile Sign Out

Demand and Supply Management Visit Management

Logged In As TSMITH

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Work Order Material Demand
[Show Icon Legend](#)

Search

Organization: Item: SS_EC_E_HT Department: Work Order Number: SFMPWO282390 Operation Sequence:

Visit Number: Owner: Priority: Scheduled Start: Scheduled End: (example: 23-Mar-2013)

Show material with reserved Items: AOG: Show material v: ☐ Show material v: ☐

Go Clear

Select Requirement: Check Availability Go Apply

Select	View Max Counter	Item	Organization	Department	Work Order Number	Op Seq	Visit	Goal	Owner	Required AOG	Reserved Quantity	Issued Quantity	Shipped Quantity	Locator	Visit Available	Priority	Required Date
<input checked="" type="radio"/>	<input type="radio"/>	SS_EC_E_HT	San Francisco Maintenance Center US	Engine Shop, SFM	SFMPWO282390	10	1310		General Technologies	10	2						29-Jun-2012

Hover over the View Max Counter Values icon to view counter information.

View Max Counter Values					
Counter Name	Counter Description	UOM	Max Counter Value	Mr Title	Implement Status
TSO	TIME SINCE OVERHAUL	Util Hour	-100	SS_EC_E_S_HT	Mandatory
CSO	CYCLES SINCE OVERHAUL	Util Cyc	-100	SS_EC_E_S_HT	Mandatory
TSO	TIME SINCE OVERHAUL	Util Hour	0	KAL_SS_EC_E_HT_MR_01	Mandatory
CSO	CYCLES SINCE OVERHAUL	Util Cyc	-300	KAL_SS_EC_E_HT_MR_01	Mandatory
TSO	TIME SINCE OVERHAUL	Util Hour	-100	SS_EC_E_S_HT	Mandatory
CSO	CYCLES	Util	-100	SS EC E S HT	Mandatory

3. Search global supply.

- Navigation:** Material Marshalling User > Demand and Supply Management > Work Order Material Demand > Inventory

Search Supply for Item SS_EC_E_HT

[Inventory](#) [Existing Reservations](#) [Work Orders](#) [Cannibalization](#)

Search Inventory Onhand

Serial Number Locator
 * Search Organization San Francisco Maintenance Owner
 Sub Inventory ☐ Search material with reserved items

☐ Include Build Goal hard limits
☐ Include Build Goal soft limits
☐ Show Alternate Items

Select Organization Onhand: Create Reservation [Previous 10](#) 11-11 of 11 [Next](#)

[Select All](#) [Select None](#)

Select	Counters	Item	Instance Number	Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order Number	Status	Is Shipped	Move Order Number	Status
<input type="checkbox"/>		SS_EC_E_HT	2996038	hh547	STORES	1.1.1..	Vision Corporation	SFMPW062383					

Demand and Supply Management Visit Management Home Profile Sign Out
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- **Navigation:** Material Marshalling User > Demand and Supply Management > Work Order Material Demand > Inventory

Search Supply for Item SS_EC_E_HT

[Inventory](#) [Existing Reservations](#) [Work Orders](#) [Cannibalization](#)

Reservation Type Supply Work Order Status
 Serial Number Non-Routine Number
 Supply Organization San Francisco Maintenance Supply Visit
 Supply Work Order Demand Organization San Francisco Maintenance Demand Work Order

Operation Sequence Available By

☐ Include Build Goal
☐ Include Build Goal
☐ Show Alternate Items

Existing Reservations

Select Reservation Cancel Reservation

[Select All](#) [Select None](#)

Select	Counters	Item	Item Instance	Part Condition	Reservation Type	Reservation Serial No	Sub Organization	Inventory	Work Order	Non-Routine	Visit	Demand Organization	Work Order	Internal Order Number	Status	Process
<input type="checkbox"/>		SS_EC_E_HT	2996037		Inventory	hh546	San Francisco Maintenance Center US	STORES				San Francisco Maintenance Center US	SFMPW062383	04-Apr-2012		
<input type="checkbox"/>		SS_EC_E_HT	2996038		Inventory	hh547	San Francisco Maintenance Center US	STORES				San Francisco Maintenance Center US	SFMPW062383	04-Apr-2012		

Demand and Supply Management Visit Management Home Profile Sign Out
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- **Navigation:** Material Marshalling User > Demand and Supply Management > Work Order Material Demand > Work Orders

Search Supply for Item SS_EC_E_HT

Inventory Existing Reservations Work Orders Cannibalization

Search Work Orders

Work Order Number Non-Routine Number Serial Number Available By Go Clear

Work Order Status * Supply Organization Owner Reservation Work Order Number

☐ Include Build Goal hard limits
☐ Include Build Goal soft limits
☒ Search material with reserved items
☐ Show Alternate Items

Select	Counters	Item	Item Work Order Instance Number	Serial Number	Non Routine Number	Available Date	Supply Organization	Repair Batch	Work Order Status	Reservation Work Order Number	Start Date
	No results found.										

Demand and Supply Management Visit Management Home Profile Sign Out

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- **Navigation:** Material Marshalling User > Demand and Supply Management > Work Order Material Demand > Cannibalization

Search Supply for Item SS_EC_E_HT

Inventory Existing Reservations Work Orders Cannibalization

Organization **San Francisco Maintenance Center US** Position Unit

Visit Number Visit Start Date <= 29-Jun-2012 Go Clear

☐ Include Build Goal hard limits
☐ Include Build Goal soft limits
☐ Show Alternate Items

Select	Counter	Item	Serial Number	Item Instance	Visit Number	Visit Priority	Visit Type	Visit Status	Visit Start Date	Unit Master	Configuration	Position
	No results found.											

Demand and Supply Management Visit Management Home Profile Sign Out

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12.2. Major Task - Allocate and move AOG material requirements:

Task Description: Route supply to AOG demand.

Process: Route supply within the same organization (inter-organization transfer).

1. Search for an AOG maintenance visit from any of these UIs:

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Maintenance Schedule

Unit Down Times | **Organization Schedule** | Fleet Schedule

Search Organization Schedule

* Organization: San Francisco Maintenan
 Start From: 18-Jun-2012
 Visit Number: 1310
 Department: Engine Shop, SFM
 Start Before:
 Space:
 Display Days Window: 7

Go Clear

Start Day | Start Week | Filter By: All | Go | End Week | End Day

Department	Space	[18-Jun]	[19-Jun]	[20-Jun]	[21-Jun]	[22-Jun]	[23-Jun]	[24-Jun]
Engine Shop, SFM	ENGINE SHOP 1							
Engine Shop, SFM	Eng_Shop_01							
Engine Shop, SFM	Eng_Shop_03							
Engine Shop, SFM	Eng_shop_02							
Engine Shop, SFM	KM_DEMO_SPACE_001							
Engine Shop, SFM	KM_SPACE_001							
Engine Shop, SFM	RR_Test							
Engine Shop, SFM	SFO, Eng Shop 1							
Engine Shop, SFM	SFO, Eng Shop 2							
Engine Shop, SFM								

Start Day | Start Week | Filter By: All | Go | End Week | End Day

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

Maintenance Schedule

Unit Down Times | Organization Schedule | **Fleet Schedule**

Search Fleet Schedule

* Fleet: KAL Demo Fleet
 Master Configuration:
 Start From: 01-Jun-2013
 Unit:
 Minimum Duration: UOM Days
 Start Before:
 Display Days Window: 14

Go Clear

Start Day | Start Week | End Week | End Day

Unit	[01-Jun]	[02-Jun]	[03-Jun]	[04-Jun]	[05-Jun]	[06-Jun]	[07-Jun]	[08-Jun]	[09-Jun]	[10-Jun]	[11-Jun]	[12-Jun]	[13-Jun]	[14-Jun]
SS_P100_RD1														

2. Identify AOG material requirement shortages for the visit.

The AOG Planner can search for AOG items.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

ORACLE Complex MRO

Navigator Favorites Home Profile Sign Out

Demand and Supply Management Visit Management

Logged In As TSMITH

Work Order Material Demand

Show Icon Legend

Search

Organization [] Visit Number 1310 [] Show material with reserved Items []

Item [] Owner [] AOG Yes []

Department [] Priority []

Work Order Number [] Scheduled Start []

Operation Sequence [] Scheduled End []

Go Clear

(example: 24-Apr-2013)

Select	View Max Counter	Item	Organization	Department	Work Order Number	Op Seq	Build Item	Required Quantity	Reserved Quantity	Issued Quantity	Shipped Quantity	Locator	Available	Priority	Required Date	Available Date	Exception Date
No search conducted.																	

Demand and Supply Management Visit Management Home Profile Sign Out

3. Identify demand with exception dates for the AOG items.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management

Create an inter-organization transfer using one of these pages:

- CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Material Demand > Inventory
- CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Material Demand > Existing Reservations

4. Search global supply using these UIs:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Work Orders
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Cannibalization

5. Create inter organization transfers.

The planner can create inter organization transfers from the following UIs:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations

Task Description: Route supply to AOG demand.

Process: Route supply within the same organization (Move Order).

1. Search for an AOG maintenance visit using one of these UIs:

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

2. Identify AOG material requirement shortages for the AOG visit.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

3. Identify demand with exception dates.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

4. Search global supply using these UIs:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Work Orders
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Cannibalization

5. Create a move order transfer.

The planner can create a move order transfer using one of these UIs:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
- CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations

- CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Cannibalization

Task Description: Route supply to AOG demand.

Process: Route supply across organizations (internal order).

1. Search for an AOG maintenance visit from one of these UIs:
 - **Navigation:** Planning > Planning Workbench > Planning Workbench > Unit Downtimes
 - **Navigation:** Planning > Planning Workbench > Planning Workbench > Organization Schedule
 - **Navigation:** Planning > Planning Workbench > Planning Workbench > Fleet Schedule

2. Identify AOG material requirement shortages.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management

Search for AOG items.

3. Identify demand with exception dates.

CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

4. Search global supply using one of these UIs:
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Work Orders
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Cannibalization

5. Create a internal order for AOG items.

Planner can create internal orders for AOG material located across organizations using one of these UIs:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Material Demand > Inventory
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Material Demand > Existing Reservations

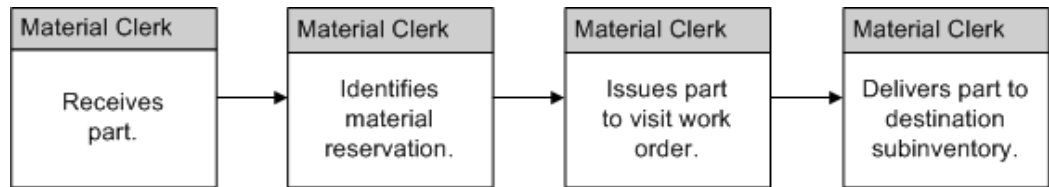
Role 13.0 - Material Clerk (Issues/Returns)

This role is responsible for the oversight of an inventory store location. Material is either issued out to support maintenance jobs or received as unused, in need of repair, or scrapped (red tagged) from an inventory store location. The Material Clerk represents the interface between the work performed and the inventory locations. This role will receive the job-bound materials and place them on the shelves and initiate the routing of the post-job materials to the next appropriate location. This role will also be responsible for the common tools and equipment that will be checked in and checked out by technicians to perform work.

Associated Major Business Types:

- Aircraft Operator, page 2-3
- Heavy Maintenance, page 2-4
- Complex Assembly Maintenance, page 2-5
- Component Shop, page 2-6

Task Flow



13.1. Major Task - Stock shelves:

Task Description: Material clerk will receive and stock parts.

1. Material clerk receives parts and stock parts.
2. Stock shelves, physical action to follow receipt of items in the system.

13.2. Major Task - Pre-pull materials:

Task Description: Planned materials can be located and staged for standard issue (respectful of reservations) to technicians performing a job or delivered to technicians at a remote location.

1. Identify material demand.
2. Identify available supply.
3. Stage material to the appropriate subinventory (subinventory transfer).
4. Issue part to the technician.
5. Issue part to work order and deliver to technicians.

13.3. Major Task - Perform on-hand issues:

Task Description: Planned materials can be located and staged for standard issue to technician performing a job (respecting reservations)

Unplanned materials can be requested, located, and issued to the technicians.

1. Receive parts request.
2. Identify available supply, including alternates.
3. Issue part to technicians.
4. Transfer part to another subinventory, if applicable.
5. Create the part requisition.

13.4. Major Task - Receive and return materials:

Task Description: Removed and extra materials will be received and returned with proper routing.

Process: Receive and return materials.

1. Receive parts.
2. Route parts: serviceable and unserviceable (stores, inspection, OSP).

13.5. Major Task - Manage tooling:

Task Description: Manage necessary tools.

Process: Check out tools.

1. Receive tool request.
2. Locate tool.
3. Issue tool.

Process: Check in tools.

1. Receive tool.
2. Verify tool condition.
3. Return tool.

Role 14.0 - Heavy Maintenance Planner

This role is focused on projecting the aircraft heavy maintenance forecast for a period of one to three years into the future, managing the heavy maintenance visit plan for a period of less than one year, as well as supporting the current and next due repair visits.

The Heavy Maintenance Planner will create the heavy maintenance forecast by evaluating the impact of required inspections and servicing, service bulletins, modifications and reliability improvement programs, and the historical analysis of non-routine maintenance. The planner can also create a simulated heavy maintenance forecast by evaluating the impact of different operational scenarios; which can involve different mixes of fleet types, number of aircraft, fleet utilization rates, aircraft ages, engineering effectivity, operating locations or areas. The output will be a maintenance forecast that can be used to determine aircraft availability, maintenance capacity and resource requirements, and to evaluate in-sourcing opportunities and outsourcing requirements. Fleet downtime goals, fleet size and makeup changes can be evaluated for their impact on aircraft availability during the forecast period. The forecast will also be used to create supply chain plans, which can be further analyzed to determine the

costs for budgeting purposes. The planner can also work with customers to evaluate the impact of the planned heavy maintenance schedule on the forecast.

The planner will manage the aircraft heavy maintenance plan, which represents the transition from a forecast to a schedule of repair visits at the asset level. The planner is responsible for creating and revising the overhaul and repair visits, defining and updating the repair work scope, and reviewing the facility and resource requirements. The planner can resolve facility conflicts as the plan is updated, including managing the outsourcing to a third-party vendor, and in-sourcing of customer aircraft visits. The aircraft heavy maintenance plan will be provided to operations to manage the schedule based on planned aircraft availability.

The planner will coordinate with other users (engineer, maintenance supervisor, local planner, third-party vendor, and so on) to manage the aircraft that are next due or currently in production. Facility, resource and material issues, delays in processing, and so on will be monitored and the aircraft heavy maintenance visit schedule can be updated as needed. Customer visits will be scheduled according to priority, contractual agreements, and resource availability. Changes to visit schedules will be provided to operations to manage the schedule based on planned aircraft availability.

Associated Major Business Type: Heavy Maintenance, page 2-4

Prerequisites

- ☐ The following prerequisite setup tasks must be performed before the heavy maintenance forecast can be created.

Prerequisite Setup Task	Role Performing Task	Navigation
1. Define AHL lookups for: <ul style="list-style-type: none">• Visit Types• Service Category• Program Type• Program Subtype	Engineering	Application Developer > Application > Lookups > Application Object Library
2. Define Visit Type profiles. <ul style="list-style-type: none">• Define duration for the visit.	Engineering	Administration > Visit Types

Prerequisite Setup Task	Role Performing Task	Navigation
3. Define maintenance organization.	Engineering	Engineering > Fleet Maintenance Program > Overview > Update Maintenance Requirement > Maintenance Organizations
4. Define maintenance department and space capabilities.	Engineering	Administration > Department Location > Create (B)
<ul style="list-style-type: none"> Define the Max Service Category values. Define department spaces. 		Administration > Department Location > Edit Department Location Administration > Spaces
Define space capabilities by adding master configurations and visit types.		
5. Create master configurations, unit configurations, and product classifications.	Engineering	Configuration > Master Configuration > Overview > Search Master Configuration > Create (B) Configuration > Unit Configuration > Search Unit > Search Unit Configuration > Create (B) Configuration > Product Classification > Overview > Search Product Classification > Create (B)
6. Define primary fleets, unit composition and utilization.	Engineering	Planning > Fleet Forecasting
7. Define department spaces.	Engineering	Administration > Spaces > Search Spaces > Create (B)
<ul style="list-style-type: none"> Add the Master Configuration item and Visit Type. 		

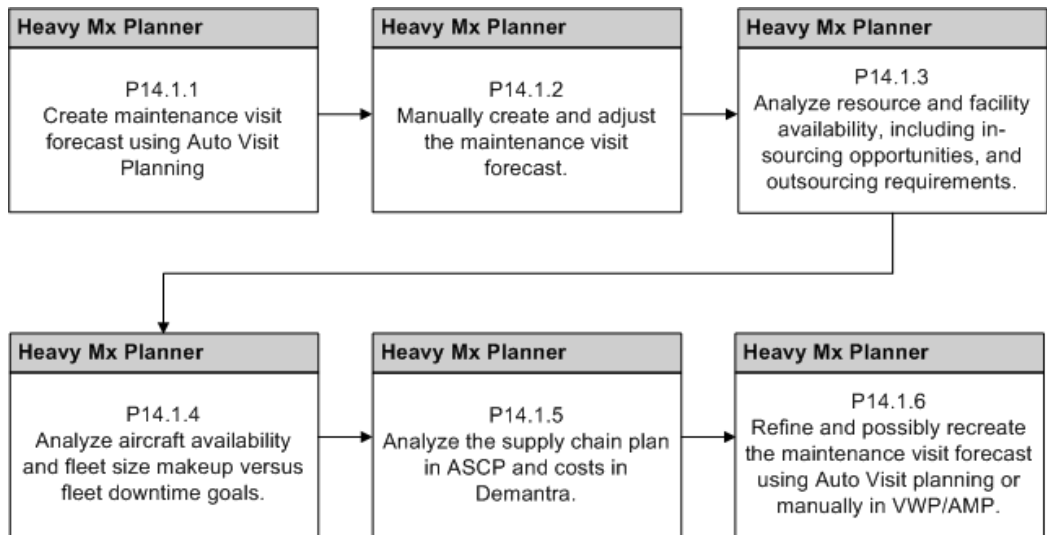
Prerequisite Setup Task	Role Performing Task	Navigation
<p>8. Create the fleet maintenance program and define maintenance requirements.</p> <ul style="list-style-type: none"> • Define tolerance before and after thresholds. • Define Min Service Category. • Set up Primary visit MRs and define: <ul style="list-style-type: none"> • Single visit type for mandatory MRs. • Operating organization or maintenance organization and department. • Program Type and Program Subtype 	Engineering	Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirement > Create (B)
<p>9. Create maintenance forecast.</p> <ul style="list-style-type: none"> • Initialize MRs. • Run the Build Unit Effectivities (BUE) program. 	Engineering	
<p>10. Analyze maintenance history using Demantra to generate non-routine estimates.</p>	Reliability Engineer	

Prerequisite Setup Task	Role Performing Task	Navigation
11. Update MR NR Profile using the latest non-routine estimates.	Reliability Engineer	Planning > Unit Maintenance Plan > Non-routines > Search Non-routine > Update (icon) Update Non-Routine
12. Update the BOM calculations in ASCP to include the latest non-routine estimates.	Reliability Engineer	
14. Consider customer non-routine removal analysis and planned removal forecast as input.	Customer	Planning > Unit Maintenance Plan > Non-routines > Search Non-routine > Update (icon) Update Non-Routine

14.1. Create and refine the heavy maintenance forecast:

Task Description: Create the aircraft heavy maintenance forecast by evaluating the impact of required inspections and servicing, service bulletins, modifications and reliability improvement programs, and the historical analysis of non-routine maintenance and customer planned repair streams.

Task Flow



1. Create the maintenance visit forecast using Auto Visit Planning.

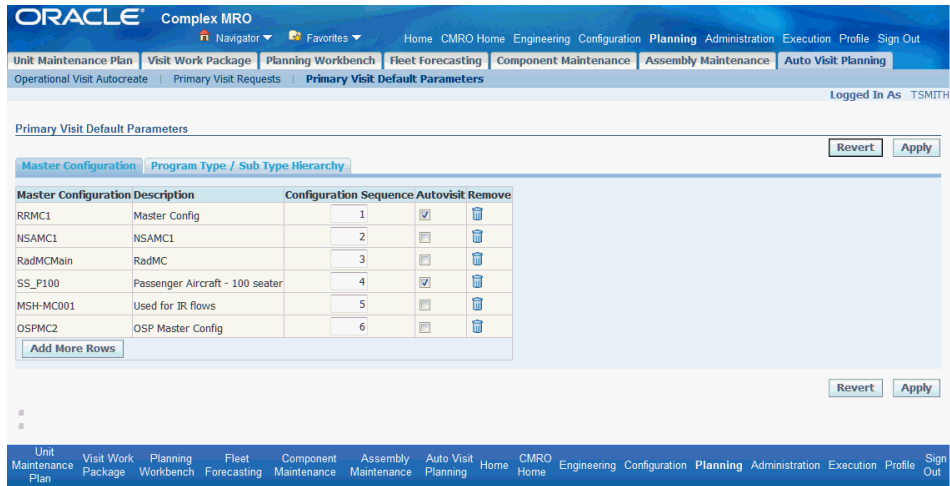
- The planner should confirm that UEs exist in the UMP for primary visit MRs. Search by fleet, program type and subtype to filter results.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

- The planner will define the default parameters and sequence which will be used for Auto Visit Planning.

Navigation: Planning > Auto Visit Planning > Primary Visit Default Parameters > Primary Visit Default Parameters > Master Configuration

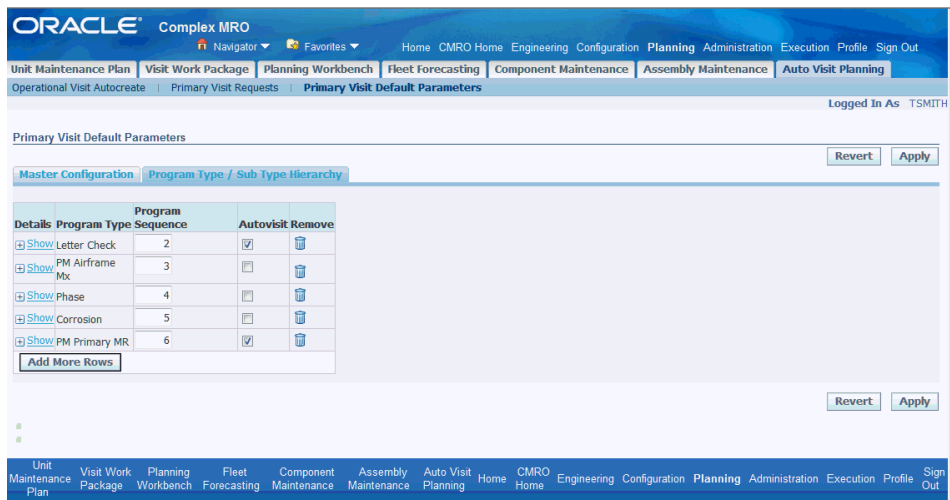
The first parameters to define are the master configurations.



- Then, the applicable program types and subtypes should be defined.

Navigation: Planning > Auto Visit Planning > Primary Visit Default Parameters > Primary Visit Default Parameters > Program Type/ Sub Type Hierarchy

The sequence will be defined for each to assign the priority during the processing. This default parameter set can then be edited during the creation of an individual primary visit request.



- The planner can search for existing or create new primary visit requests.

A new request can also be created by copying an existing request.

Navigation: Planning > Auto Visit Planning > Primary Visit Requests > Search Primary Visit Requests

Oracle Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Search Primary Visit Requests

Request Number: [] Request Title: []
 Created From: [] Created To: []
 Request Status: [] Created By: []

[Go] [Clear] [Create]

Details	Concurrent Request	Request Title	From Date	To Date	Cancel Visit	Create Visit	Add Planned Requirements	Date Created	Created By	Phase	Status	Copy	Remove
No search conducted.													

- The planner can edit the new request, prior to submittal for processing.

Navigation: Planning > Auto Visit Planning > Primary Visit Requests > Search Primary Visit Requests > Create Primary Visit Request

Oracle Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Create Primary Visit Request

* Request Title: []
 * From Date: []
 * To Date: []

☐ Cancel Existing Visits
☐ Create Primary Visits
☐ Add Planned Requirements

Request Parameters

Updates to the request parameters will only be saved for this request and will not affect the default parameters

Master Configuration | Program Type / Sub Type Hierarchy

Master Configuration Description	Configuration Sequence	Autovisit
RRMCI Master Config	1	<input checked="" type="checkbox"/>
NSAMCI NSAMCI	2	<input type="checkbox"/>
RadMCMain RadMC	3	<input type="checkbox"/>
SS_P100 Passenger Aircraft - 100 seater	4	<input checked="" type="checkbox"/>
MSH-MC001 Used for IR flows	5	<input type="checkbox"/>
OSPMC2 OSP Master Config	6	<input type="checkbox"/>

[Add More Rows]

[Submit] [Cancel]

The planner will define a name, date range, and select the processing actions to be completed.

Navigation: Planning > Auto Visit Planning > Primary Visit Requests > Search Primary Visit Requests

The planner can also edit the final parameter set which will be used by this request only, based on the default parameters set up. When ready, the planner will click the Submit button and a concurrent request will be launched.

ORACLE Complex MRO

Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Operational Visit Autocreate Primary Visit Requests Primary Visit Default Parameters

Logged In As TSMITH

Search Primary Visit Requests

Request Number 4% Request Title
Created From Created To
Request Status Created By

Go Clear

Concurrent	Request Title	From Date	To Date	Cancel Visit	Create Visit	Add Planned Requirements	Date Created	Created By	Phase	Status	Copy Remove
Show 40064994	RR_Test_AVF_Create	20-Apr-2012	30-Aug-2012		✓		19-Apr-2012 03:31:10	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40067114	May Add PI Req	01-May-2012	03-Jun-2012			✓	20-Apr-2012 09:26:44	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40106626	RD_Primary_New1	01-Jun-2012	30-Jun-2012		✓		16-May-2012 14:05:46	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40106627	RD_Primary_Cancel1	01-Jun-2012	30-Jun-2012	✓			16-May-2012 14:09:09	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40107903	RD_Primary_New4	01-Jul-2012	30-Jul-2012		✓		17-May-2012 08:59:59	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40108536	tch test cancel	01-Jun-2012	30-Jun-2012	✓			17-May-2012 23:13:59	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40152350	Remove Visits	22-Jun-2012	31-Aug-2012	✓			22-Jun-2012 14:40:28	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40065571	RD_Auto1	19-Apr-2012	02-Jun-2012		✓		19-Apr-2012 15:15:17	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40098935	RD_Test_AV_104	11-May-2012	30-Jun-2012		✓		10-May-2012 11:08:48	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show 40107541	PAcancel	20-May-2012	22-May-2012	✓			17-May-2012 02:41:39	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove

Previous 1-10 Next 10

The system will provide a unique concurrent request number in which to track its progress.

- When a primary visit request has been submitted, the planner can track the progress of the concurrent process and refresh the results until the request finishes.

The Phase and Status columns will reflect the progress of the request.

2. Manually create and adjust the maintenance visit forecast.

- The planner can view visits that have been created by Auto Visit Planning in VWP.

Navigation: Planning > Visit Work Package > Search Visits

The visit name will be prefixed by "Auto-Visit" and can be searched using a wildcard in the criteria. The planner can also search for visits that have been manually created through VWP.

ORACLE® Complex MRO

Unit Maintenance Plan | **Visit Work Package** | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Logged In As TSMITH

Search Visits

Simple Search

Note that the search is case insensitive

Item

Serial Number

Organization

Visit Number

Start From Date (example: 28-Mar-2013)

Visit Status

Service Category

Display Only

Unit

Service Request

Department

Visit Name Auto-Visit%

Start To Date (example: 28-Mar-2013)

Visit Type

Priority

☐ Show Only Past Dated Visits

☐ Show Only Component Visits

Search Results

Select Visit: Cost and Price Information

Select	Visit Number	Visit Name	Item	Unit	Serial Number	Visit Type	Priority	Organization	Department	Start Date	Planned End Date	Scheduled End Date	Visit Status	Request	Concurrent	Cost Structure	Cancel
<input type="radio"/>	57	Auto-Visit-57	RRSrCtTrk	RRUC1	RR1000	Engine Overhaul		San Francisco Maintenance Center US	Engine Shop, SFM	29-Feb-2012	16-Mar-2012	16-Mar-2012	Implemented				<input type="button" value="Cancel"/>
<input type="radio"/>	58	Auto-Visit-58	RRSrCtTrk	RRUC1	RR1000	Engine Overhaul		San Francisco Maintenance Center US	Engine Shop, SFM	17-Mar-2012	17-Mar-2012	17-Mar-2012	Implemented				<input type="button" value="Cancel"/>
<input type="radio"/>	59	Auto-Visit-59	RRSrCtTrk	RRUC1	RR1000	Engine Overhaul		San Francisco Maintenance Center US	Engine Shop, SFM	18-Mar-2012	18-Mar-2012	18-Mar-2012	Implemented				<input type="button" value="Cancel"/>

- The planner can view, edit or cancel visits.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit

ORACLE® Complex MRO

Unit Maintenance Plan | **Visit Work Package** | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Logged In As TSMITH

Update Visit

* Indicates required field

Background Push to Production (Jobs Released)

Visit Number **65**

Unit **NSAUC1**

Item **NSASerialItem1**

* Organization **San Francisco Maintenance Center US**

* Start Date **19-Mar-2012 00:00:00** (example: 28-Mar-2013 19:45:00)

* Planned End Date **19-Mar-2012 10:00:00** (example: 28-Mar-2013 19:45:00)

Visit Status **Planning**

Past Dated Visit **No**

* Visit Name **Auto-Visit-65**

Visit Type **Engine Overhaul**

Serial Number **NSA1**

* Department **Engine Shop, SFM**

End Date **19-Mar-2012 10:00:00**

Due By Date **13-Dec-2012 00:00:00**

Work Order Number **65 - Auto-Visit-65**

Build Goal Set up **No**

Details | **Visit Tasks** | **Task Dependencies** | **Stages** | **Maintenance Requirements** | **Material Requirements** | **Repair Workscope**

Additional Header Details

Sub Inventory

Service Request

Project Template **AHLT1202463224**

Priority

Cost/Price

Description

Physical Locator

Service Category

Project

☐ Firm visit ☐ Lock visit

Work Card Progress

Item Owner **Business World**

☐ Flag Item Owner

The planner can update the visit details to adjust and refine the forecast. Primary MR based visits will be created in a status of Planning, but will be in a Non-Firmed and Non-Locked status. The planner must check and apply the firm or locked check boxes to prevent the auto planning process from possibly canceling the visits during further auto visit planning.

- Visits can be individually scheduled by navigating to the AMP Workbench.

Navigation: Planning > Planning Workbench > Planning Workbench > Visits > Update Visit

The screenshot shows the 'Update Visit' form in the Oracle Complex MRO system. The form is titled 'Update Visit' and includes a 'Cancel' button, a 'Revert' button, a 'Close' button, and 'Go' and 'Apply' buttons. The form displays the following information:

- Visit Number:** 1394
- Unit:** GD-SWUC001
- Item:** GDSWSrCtrTrk
- Organization:** San Francisco Maintenance Center US
- * Start Date:** 29-Jun-2012 06:15:00 (example: 13-Apr-2013 19:45:00)
- * Planned End Date:** 11-Jul-2012 06:15:49 (example: 13-Apr-2013 19:45:00)
- Visit Status:** Implemented
- Past Dated Visit:** Yes
- Visit Name:** PASW
- Visit Type:** SS_ID_Mod
- Serial Number:** GDSWSrCtrTrk001
- Department:** Outside Processing SFM-B
- End Date:** 11-Jul-2012 06:15:49
- Due By Date:**
- Work Order Number:** 1394 - PASW
- Build Goal Set up:** No

The form also includes a section for 'Additional Header Details' with the following information:

- Sub Inventory:**
- Service Request:**
- Project Template:** AHL Aircraft Commercial US
- Priority:**
- Cost/Price:**
- Description:**
- Item Owner:** Business World
- Physical Locator:**
- Service Category:**
- Project:**
- Work Card Progress:**
- Lock visit:** (checkbox)
- Flag Item Owner:** (checkbox)

The 'Assign Spaces' section at the bottom shows 'No results found.' and an 'Add Another Space' button.

The planner can validate the Organization, Start and End Date, and Department values for the visit, and add a space assignment in the context of the organization and other visits that have been created. Date conflicts will be identified by specific icons and can be resolved by adjusting visit start and end dates and times, and adjusting Department and Space assignments.

- The Space assignment for the visit can be updated in the Visit Details section of the Update Visit UI.

Navigation: Planning > Planning Workbench > Planning Workbench > Visits > Update Visit

The visit can occupy multiple spaces during the scheduled duration of the visit. Do not leave any gaps between spaces.

Note: Auto visit planning will not assign a space during visit creation.

3. Analyze resource and facility availability, including in-sourcing opportunities and outsourcing requirements.

The planner will evaluate and analyze the visit schedule that has been developed for the maintenance forecast from an organization, department and resource perspective.

- The planner can navigate directly to the Planning Workbench to evaluate the visit forecast at the maintenance organization level and not only in the context of a single visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

- The planner can view the schedule for an organization over a period of time. Filters for Department, Space, Visit and Display Days can be used to filter the Organization Schedule table results.

The screenshot shows the 'Maintenance Schedule' interface. It has tabs for 'Unit Down Times', 'Organization Schedule', and 'Fleet Schedule'. The 'Organization Schedule' tab is active. Below the tabs is a search section titled 'Search Organization Schedule'. It includes fields for 'Organization', 'Start From', 'Visit Number', 'Department', 'Start Before', 'Space', and 'Display Days Window'. There are 'Go' and 'Clear' buttons. Below the search section is a table with columns: 'Department', 'Space', 'Selected Visits', 'Select', 'Schedule To', 'Visit Number', 'Visit Type', 'Visit Status', 'Firm Lock Unit', 'Organization', 'Department', 'Visit Start Date', 'Visit Planned End Date', 'AOG Search', 'UMP', and 'Cancel'. The table shows 'No search conducted.' and 'No results found.'

- The planner can click a Visit icon in the table and view the applicable visits for a specific day.

Selected Visits : 01-Jan-2012 - Base Maintenance, SFM												
Select Visit: Automatically Assign Requirements [Go]												
Select	Schedule To	Visit Number	Visit Type	Visit Status	Firm Lock Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOG Search	UMP	Cancel
<input type="radio"/>	26	Engine Overhaul/Implemented	<input type="checkbox"/>		C70-1, SN 312, Tail # VA522	San Francisco Maintenance Center US Base Maintenance, SFM		09-Sep-2011 02:00:00	13-Dec-2012 07:43:52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	28	Engine Overhaul/Partially Implemented	<input type="checkbox"/>		C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US Base Maintenance, SFM		09-Sep-2011 06:22:00	09-Sep-2012 06:22:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	27	Engine Overhaul/Partially Implemented	<input type="checkbox"/>		C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US Base Maintenance, SFM		22-Sep-2011 00:23:00	16-Oct-2012 00:35:30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	40	SS_Test	Partially Implemented		SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SFM		27-Sep-2011 04:58:50	01-Nov-2012 08:52:31	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	43	SS_Test	Implemented		SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SFM		27-Sep-2011 22:59:33	30-Nov-2012 22:59:43	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	68	Engine Overhaul/Planning	<input type="checkbox"/>		C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US Base Maintenance, SFM		10-Sep-2011 02:00:00	30-Dec-2012 02:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	79	Engine Overhaul/Implemented	<input type="checkbox"/>		C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US Base Maintenance, SFM		28-Nov-2011 11:16:09	28-Nov-2012 12:16:09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	83	Engine Overhaul/Planning	<input type="checkbox"/>		C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US Base Maintenance, SFM		25-Oct-2011 01:00:00	25-Oct-2012 18:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	89	Engine Overhaul/Partially Implemented	<input type="checkbox"/>		C70-3, SN 513, Tail # VA763	San Francisco Maintenance Center US Base Maintenance, SFM		18-Dec-2011 23:43:00	18-Dec-2012 23:43:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	90	Engine Overhaul/Partially Implemented	<input type="checkbox"/>		C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US Base Maintenance, SFM		18-Dec-2011 23:43:00	04-Aug-2012 03:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Select Visit: Automatically Assign Requirements [Go]												

The planner can interact and edit key visit criteria such as visit start date and firmed visit flag. The planner can also cancel the visit.

- The planner can evaluate the resource capacity for an Organization and Department.

The planner can either select a visit in which to base the Organization and Department, or they can be manually selected by the user. Up to five resources can be selected and compared on the graph at one time. The planner can then adjust the visit start dates and refresh the capacity graph to see the impact.

no search conducted.

Maintenance Schedule

Unit Down Times | Organization Schedule | **Fleet Schedule**

Search Fleet Schedule

* Fleet: AMP-FL010

Master Configuration

Start From: 11-Jan-2012

Go Clear

Unit: C70-1, SN 311, Tail # VAS21

Minimum Duration: UOM Days

Start Before: 14

Display Days Window: 14

Start Day | Start Week | End Week | End Day

Unit: C70-1, SN 311, Tail # VAS21

Selected Visits : 11-Jan-2012 - C70-1, SN 311, Tail # VAS21

Select Visit Automatically Assign Requirements Go

Select	To	Visit Number	Visit Type	Visit Status	Firm	Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	Search	UMP	Cancel
<input type="radio"/>	122	Component Repair	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		11-Aug-2011 13:15:00	11-Aug-2012 13:15:00	oo		
<input type="radio"/>	130	Component Overhaul	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		16-Aug-2011 00:00:00	16-Aug-2012 00:00:00	oo		
<input type="radio"/>	131	R_VISIT_TYPE	Planning	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		16-Aug-2011 14:11:00	16-Aug-2012 14:11:00	oo		
<input type="radio"/>	146	R_VISIT_TYPE	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		18-Aug-2011 11:30:00	18-Aug-2012 11:30:00	oo		
<input type="radio"/>	183	RD Visit Type	Planning	<input checked="" type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Base Maintenance, SPM-8		11-Jan-2012 00:00:00	11-Feb-2012 00:00:00	oo		

Show/Hide Key

Maintenance Capacity

Apply Revert

Unit Maintenance Plan Visit Work Package Long Term Planning Planning Workbench Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

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- The planner can view visit details and resolve any conflicts.

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule tab

Selected Visits : 11-Jan-2012 - C70-1, SN 311, Tail # VAS21

Select Visit Automatically Assign Requirements Go

Select	To	Visit Number	Visit Type	Visit Status	Firm	Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	Search	UMP	Cancel
<input type="radio"/>	122	Component Repair	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		11-Aug-2011 13:15:00	11-Aug-2012 13:15:00	oo		
<input type="radio"/>	130	Component Overhaul	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		16-Aug-2011 00:00:00	16-Aug-2012 00:00:00	oo		
<input type="radio"/>	131	R_VISIT_TYPE	Planning	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		16-Aug-2011 14:11:00	16-Aug-2012 14:11:00	oo		
<input type="radio"/>	146	R_VISIT_TYPE	Implemented	<input type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Outside Processing SPM-8		18-Aug-2011 11:30:00	18-Aug-2012 11:30:00	oo		
<input type="radio"/>	183	RD Visit Type	Planning	<input checked="" type="checkbox"/>			C70-1, SN 311, Tail # VAS21	San Francisco Maintenance Center US Base Maintenance, SPM-8		11-Jan-2012 00:00:00	11-Feb-2012 00:00:00	oo		

- The planner can also run a Fleet Downtime Percentage Report. The planner can export the report and analyze in Microsoft® Excel.

Navigation: Administration > Maintenance Requirement Status Reports > Fleet Downtime Percentage Report

ORACLE Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance Requirement Status

Fleet Downtime Percentage Report Component Maintenance Status Aircraft Maintenance Status Maintenance Requirement Information and Status

Logged In As TSMITH

Fleet Downtime Percentage Report

* Indicates required field

Printable Page Export

Fleet Downtime Percentage Report

Fleet Unit * Simulation Plan Primary Plan

* From Date * To Date

Service Category <= Service Category >=

Minimum Duration Maximum Duration

Go Clear

☐ Show only primary visit requirements

Fleet	Period Start	Period End	Max Downtime %
No search conducted.			

Fleet	Fleet Start Date	Fleet End Date	Unit	Requirement	Service Category	Duration	Due Date	Visit	Visit Start Date	Visit End Date
No search conducted.										

Printable Page Export

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance Requirement Status Reports Home CMRO Home Engineering Configuration Planning Administration Execution Profile

- The planner can adjust visit start times to increase or decrease fleet availability during specific time periods.

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule tab

Selected Visits : 11-Jan-2012 : C70-1, SN 311, Tail # VA521

Select Visit Automatically Assign Requirements Go

Select	To	Visit Number	Visit Type	Visit Status	Firm	Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	Search	UMP	Cancel
<input type="radio"/>	<input type="checkbox"/>	112	Component Repair	Implemented	<input type="checkbox"/>	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US	Outside Processing SPM-8	11-Aug-2011 13:15:00	11-Aug-2012 13:15:51	oo		
<input type="radio"/>	<input type="checkbox"/>	130	Component Overhaul	Implemented	<input type="checkbox"/>	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US	Outside Processing SPM-8	16-Aug-2011 00:00:00	16-Aug-2012 00:00:00	oo		
<input type="radio"/>	<input type="checkbox"/>	131	R_VISIT_TYPE	Planning	<input type="checkbox"/>	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US	Outside Processing SPM-8	16-Aug-2011 14:11:00	16-Aug-2012 14:11:00	oo		
<input type="radio"/>	<input type="checkbox"/>	146	R_VISIT_TYPE	Implemented	<input type="checkbox"/>	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US	Outside Processing SPM-8	18-Aug-2011 11:30:00	18-Aug-2012 11:30:00	oo		
<input type="radio"/>	<input type="checkbox"/>	583	RD Visit Type	Planning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US	Base Maintenance, SPM-8	11-Jan-2012 00:00:00	11-Feb-2012 00:00:00	oo		

- Analyze the supply chain plan in ASCP and visit costs in Demantra.

The planner will work with the inventory planning group to evaluate the costs of the visit.

- Refine and possibly recreate the maintenance visit forecast using Auto Visit planning or manually in VWP and AMP.

The planner can modify parts of the maintenance forecast using the Auto Visit Planning functionality or manually using the visit Planning Workbench.

Selected Visits : 01-Jan-2012 - Base Maintenance, SFM												
Select Visit		Automatically Assign Requirements <input type="button" value="Go"/>										
Select	Schedule To	Visit Number	Visit Type	Visit Status	Firm Lock Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOG	Search	UMP Cancel
<input type="radio"/>	<input type="button" value="26"/>	26	Engine Overhaul	Implemented	<input type="checkbox"/>	C70-1, SN 312, Tail # VA522 San Francisco Maintenance Center US Base Maintenance, SFM	09-Sep-2011 02:00:00	<input type="button" value="26"/>	13-Dec-2012 07:43:52	<input type="checkbox"/>	<input type="button" value="26"/>	<input type="button" value="26"/>
<input type="radio"/>	<input type="button" value="28"/>	28	Engine Overhaul	Partially Implemented	<input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SFM	09-Sep-2011 06:22:00	<input type="button" value="28"/>	09-Sep-2012 06:22:00	<input type="checkbox"/>	<input type="button" value="28"/>	<input type="button" value="28"/>
<input type="radio"/>	<input type="button" value="27"/>	27	Engine Overhaul	Partially Implemented	<input checked="" type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SFM	22-Sep-2011 00:30:00	<input type="button" value="27"/>	30-Oct-2012 00:30:30	<input type="checkbox"/>	<input type="button" value="27"/>	<input type="button" value="27"/>
<input type="radio"/>	<input type="button" value="40"/>	40	SS_Test	Partially Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001 San Francisco Maintenance Center US Base Maintenance, SFM	27-Sep-2011 04:58:50	<input type="button" value="40"/>	01-Nov-2012 00:52:31	<input type="checkbox"/>	<input type="button" value="40"/>	<input type="button" value="40"/>
<input type="radio"/>	<input type="button" value="43"/>	43	SS_Test	Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001 San Francisco Maintenance Center US Base Maintenance, SFM	27-Sep-2011 22:59:33	<input type="button" value="43"/>	30-Nov-2012 22:59:43	<input type="checkbox"/>	<input type="button" value="43"/>	<input type="button" value="43"/>
<input type="radio"/>	<input type="button" value="68"/>	68	Engine Overhaul	Planning	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SFM	10-Sep-2011 02:00:00	<input type="button" value="68"/>	30-Dec-2012 02:00:00	<input type="checkbox"/>	<input type="button" value="68"/>	<input type="button" value="68"/>
<input type="radio"/>	<input type="button" value="79"/>	79	Engine Overhaul	Implemented	<input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SFM	28-Nov-2011 11:16:09	<input type="button" value="79"/>	28-Nov-2012 12:16:09	<input type="checkbox"/>	<input type="button" value="79"/>	<input type="button" value="79"/>
<input type="radio"/>	<input type="button" value="83"/>	83	Engine Overhaul	Planning	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SFM	25-Oct-2011 01:00:00	<input type="button" value="83"/>	25-Oct-2012 18:00:00	<input type="checkbox"/>	<input type="button" value="83"/>	<input type="button" value="83"/>
<input type="radio"/>	<input type="button" value="89"/>	89	Engine Overhaul	Partially Implemented	<input type="checkbox"/>	C70-3, SN 513, Tail # VA763 San Francisco Maintenance Center US Base Maintenance, SFM	18-Dec-2011 23:43:00	<input type="button" value="89"/>	18-Dec-2012 23:43:00	<input checked="" type="checkbox"/>	<input type="button" value="89"/>	<input type="button" value="89"/>
<input type="radio"/>	<input type="button" value="90"/>	90	Engine Overhaul	Partially Implemented	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SFM	18-Dec-2011 23:43:00	<input type="button" value="90"/>	04-Aug-2012 03:00:00	<input checked="" type="checkbox"/>	<input type="button" value="90"/>	<input type="button" value="90"/>
Select Visit		Automatically Assign Requirements <input type="button" value="Go"/>										

- Based on the fleet availability analysis and supply chain plan, the planner can edit key visit criteria, such as visit start date and firmed visit flag. The planner can also cancel a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Selected Visits : 01-Jan-2012 - Base Maintenance, SFM												
Select Visit		Automatically Assign Requirements <input type="button" value="Go"/>										
Select	Schedule To	Visit Number	Visit Type	Visit Status	Firm Lock Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOG	Search	UMP Cancel
<input type="radio"/>	<input type="button" value="26"/>	26	Engine Overhaul	Implemented	<input type="checkbox"/>	C70-1, SN 312, Tail # VA522 San Francisco Maintenance Center US Base Maintenance, SFM	09-Sep-2011 02:00:00	13-Dec-2012 07:43:52	00	<input type="button" value="26"/>	<input type="button" value="26"/>	
<input type="radio"/>	<input type="button" value="28"/>	28	Engine Overhaul	Partially Implemented	<input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SFM	09-Sep-2011 06:22:00	09-Sep-2012 06:22:00	00	<input type="button" value="28"/>	<input type="button" value="28"/>	
<input type="radio"/>	<input type="button" value="27"/>	27	Engine Overhaul	Partially Implemented	<input checked="" type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SFM	22-Sep-2011 00:23:00	30-Oct-2012 00:23:30	00	<input type="button" value="27"/>	<input type="button" value="27"/>	
<input type="radio"/>	<input type="button" value="40"/>	40	SS_Test	Partially Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001 San Francisco Maintenance Center US Base Maintenance, SFM	27-Sep-2011 04:58:50	01-Nov-2012 00:52:31	00	<input type="button" value="40"/>	<input type="button" value="40"/>	
<input type="radio"/>	<input type="button" value="43"/>	43	SS_Test	Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001 San Francisco Maintenance Center US Base Maintenance, SFM	27-Sep-2011 22:59:33	30-Nov-2012 22:59:43	00	<input type="button" value="43"/>	<input type="button" value="43"/>	
<input type="radio"/>	<input type="button" value="68"/>	68	Engine Overhaul	Planning	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SFM	10-Sep-2011 02:00:00	30-Dec-2012 02:00:00	00	<input type="button" value="68"/>	<input type="button" value="68"/>	
<input type="radio"/>	<input type="button" value="79"/>	79	Engine Overhaul	Implemented	<input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SFM	28-Nov-2011 11:16:09	28-Nov-2012 12:16:09	00	<input type="button" value="79"/>	<input type="button" value="79"/>	
<input type="radio"/>	<input type="button" value="83"/>	83	Engine Overhaul	Planning	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SFM	25-Oct-2011 01:00:00	25-Oct-2012 18:00:00	00	<input type="button" value="83"/>	<input type="button" value="83"/>	
<input type="radio"/>	<input type="button" value="89"/>	89	Engine Overhaul	Partially Implemented	<input type="checkbox"/>	C70-3, SN 513, Tail # VA763 San Francisco Maintenance Center US Base Maintenance, SFM	18-Dec-2011 23:43:00	18-Dec-2012 23:43:00	00	<input type="button" value="89"/>	<input type="button" value="89"/>	
<input type="radio"/>	<input type="button" value="90"/>	90	Engine Overhaul	Partially Implemented	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SFM	18-Dec-2011 23:43:00	04-Aug-2012 03:00:00	00	<input type="button" value="90"/>	<input type="button" value="90"/>	
Select Visit		Automatically Assign Requirements <input type="button" value="Go"/>										

- The planner can create a new request (or copy and edit an existing request), prior to submittal for processing. The planner will can cancel any unfirmed visits or create new primary MR based visits.

Navigation: Planning > Auto Visit Planning Primary Visit Requests > Search Primary Visit Requests > Create Primary Visit Request

ORACLE Complex MRO

Unit Maintenance Plan | Visit Work Package | **Planning Workbench** | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Operational Visit Autocreate | Primary Visit Requests | Primary Visit Default Parameters

Logged In As TSMITH

Create Primary Visit Request

* Request Title

* From Date

* To Date

☐ Cancel Existing Visits
☐ Create Primary Visits
☐ Add Planned Requirements

Request Parameters

Updates to the request parameters will only be saved for this request and will not affect the default parameters

Master Configuration | Program Type / Sub Type Hierarchy

Master Configuration	Description	Configuration Sequence	Auto Visit
RRMC1	Master Config	1	<input checked="" type="checkbox"/>
NSAMC1	NSAMC1	2	<input type="checkbox"/>
RadMCM	RadMCM	3	<input type="checkbox"/>
SS_P100	Passenger Aircraft - 100 seater	4	<input checked="" type="checkbox"/>
MSH-MC001	Used for IR flows	5	<input type="checkbox"/>
OSPMC2	OSP Master Config	6	<input type="checkbox"/>

- The planner can search and view visits that have been created by Auto Visit Planning in VWP. The visit name will be prefixed by "Auto-Visit" and can be searched using a wildcard in the criteria. The planner can also search for visits that have been manually created through VWP.

Navigation: Planning > Visit Work Package > Visits > Search Visits

ORACLE Complex MRO

Unit Maintenance Plan | Visit Work Package | **Planning Workbench** | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Visits

Logged In As TSMITH

Search Visits

Simple Search

Note that the search is case insensitive

Item

Serial Number

Organization

Visit Number

Start From Date

Visit Status

Service Category

Display Only

Unit

Service Request

Department

Visit Name

Start To Date

Visit Type

Priority

☐ Show Only Past Dated Visits
☐ Show Only Component Visits

Search Results

Select	Visit Number	Name	Item	Unit	Number	Visit Type	Priority	Organization	Department	Date	Start Date	Planned End Date	Scheduled End Date	Visit Status	Concurrent Request	Cost Structure	Cancel
No search conducted.																	

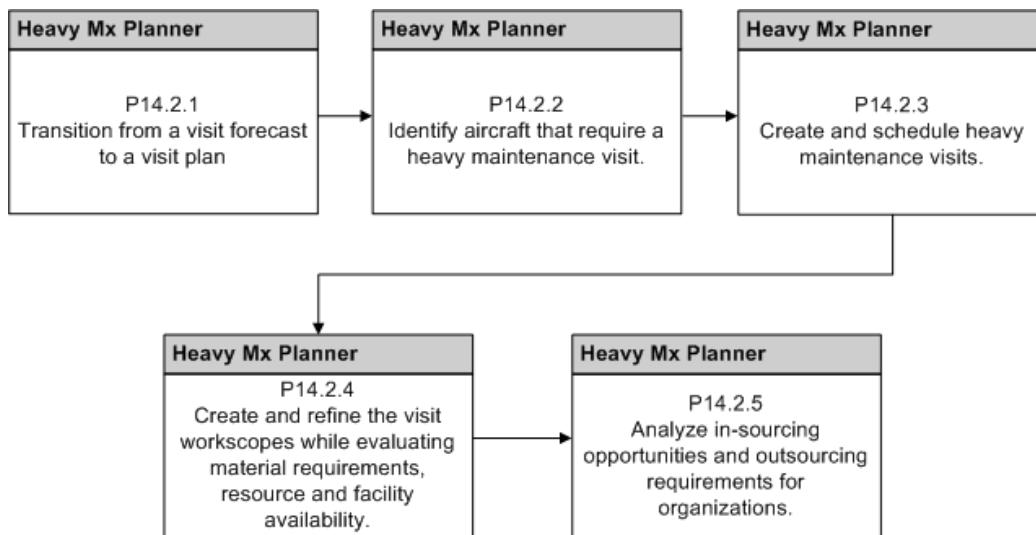
- The planner can navigate directly to the Planning Workbench to evaluate the visit forecast at the maintenance organization level and not just in the context of a single visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

14.2. Major Task - Manage the aircraft visit plan:

Task Description: The planner will create and schedule the overhaul and repair visits, define and update the repair work scope, and review the facility, resource, and material requirements.

Task Flow



1. Transition from a visit forecast to a visit plan.

- The planner will search for existing visits during the planning window that were created for the heavy maintenance visit forecast and are ready to transition to the heavy maintenance visit plan.

Navigation: Planning > Visit Work Package > Visits > Search Visits

- The planner will confirm that the visits are firmed or locked in VWP to prevent the visits being canceled by the Auto Visit Planning process.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

- The planner can also firm the visits in the Planning Workbench by searching for visits by the flight schedule for the unit and update the Firmed flag in the selected visits results.

The planner can also navigate from the AMP workbench to VWP in the context of a visit to update the firmed or locked indicators.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Search Unit Schedule

Maintenance Schedule

Unit Down Time | Organization Schedule | Fleet Schedule

Search Unit Schedule

Arrival Organization: San Francisco Maintenance
 Department:
 Arrival From: 12-Jan-2011 07:21:02
 Service Category: >=

Fleet:
 Unit:
 Departure To:
 Minimum Duration: UOM

Advanced Search

Go Clear

Select Unit DownTime: View Organization Schedule Go

Show All Details Hide All Details

Select	Details	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UWP	
<input type="radio"/>			AMP-UC001	FL001	San Francisco Maintenance Center US	Line Maintenance, SPM		12-Jul-2011 14:00:00									oo

Visit

Select Visit Automatically Assign Requirements Go

Select	Schedule	Visit To	Visit Number	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Space Firm Lock Cancel
<input type="radio"/>		55	55	Component Repair Planning		13-Jul-2011 00:00:00	30-Jul-2011 21:21:06	<input type="checkbox"/>
<input type="radio"/>		52	52	Component Repair Planning		02-Aug-2011 05:14:00	20-Aug-2011 05:14:00	<input type="checkbox"/>

Select	To	Unit	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Space Firm Lock Cancel
<input type="radio"/>		MBUC1	FL002	San Francisco Maintenance Center US	Line Maintenance, SPM	14-Jul-2011 15:00:00	
<input type="radio"/>		AMP-UC005	FL001	San Francisco Maintenance Center US	Engine Shop, SPM	16-Sep-2011 10:00:00	
<input type="radio"/>		AMP-UC002	FS002	San Francisco Maintenance Center US	Base Maintenance, SPM-B	16-Sep-2011 11:00:00	233 Hours F5001 Jfk Maintenance Center US 26-Sep-2011 04:00:00 oo
<input type="radio"/>		KM-AMP-UC004	FS000	San Francisco Maintenance Center US	Engine Shop, SPM	29-Sep-2011 12:00:00	72 Hours AMP-FG204 Jfk Maintenance Center US 02-Oct-2011 12:00:00 oo
<input type="radio"/>		SR-AMP-UC002	FS001	San Francisco Maintenance Center US	Engine Shop, SPM	30-Sep-2011 04:00:00	70 Hours F5002 Jfk Maintenance Center US 03-Oct-2011 02:00:00 oo
<input type="radio"/>		AMP-UC002	FS002	San Francisco Maintenance Center US	Base Maintenance, SPM-B	01-Oct-2011 11:00:00	
<input type="radio"/>		KM-AMP-UC005	JM-FL001	San Francisco Maintenance Center US	Engine Shop, SPM	02-Oct-2011 21:00:00	34 Hours KM-FL002 Jfk Maintenance Center US 04-Oct-2011 07:00:00 oo
<input type="radio"/>		SR-AMP-UC002	FS003	San Francisco Maintenance Center US	Engine Shop, SPM	06-Oct-2011 03:00:00	46 Hours F5004 Jfk Maintenance Center US 08-Oct-2011 01:00:00 oo
<input type="radio"/>		KM-AMP-UC004	AMP-FG200	San Francisco Maintenance Center US	Engine Shop, SPM	10-Oct-2011 14:00:00	

Select Unit DownTime: View Organization Schedule Go

Maintenance Capacity

Apply Revert

- The planner can also edit visits using the Organizational Schedule tab.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Selected Visits - 01-Jan-2012 - Base Maintenance, SPM

Select Visit Automatically Assign Requirements Go

Select	To	Unit	Visit Type	Visit Status	Firm Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOC Search	UWP	Cancel
<input type="radio"/>		26	Engine Overhaul Implemented		<input type="checkbox"/>	C70-1, SN 312, Tail # VA522	San Francisco Maintenance Center US	Base Maintenance, SPM	09-Sep-2011 02:00:00	13-Dec-2012 07:43:52	oo		
<input type="radio"/>		28	Engine Overhaul Partially Implemented		<input type="checkbox"/>	C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US	Base Maintenance, SPM	09-Sep-2011 06:22:00	09-Sep-2012 06:22:00		oo	
<input type="radio"/>		27	Engine Overhaul Partially Implemented		<input checked="" type="checkbox"/>	C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US	Base Maintenance, SPM	22-Sep-2011 00:33:00	30-Oct-2012 00:35:30	oo		
<input type="radio"/>		40	SS_Test	Partially Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001	San Francisco Maintenance Center US	Base Maintenance, SPM	27-Sep-2011 04:58:50	01-Nov-2012 00:52:31		oo	
<input type="radio"/>		43	SS_Test	Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001	San Francisco Maintenance Center US	Base Maintenance, SPM	27-Sep-2011 22:59:33	30-Nov-2012 22:59:43	oo		
<input type="radio"/>		68	Engine Overhaul Planning		<input type="checkbox"/>	C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US	Base Maintenance, SPM	10-Sep-2011 02:00:00	30-Dec-2012 02:00:00	oo		
<input type="radio"/>		29	Engine Overhaul Implemented		<input type="checkbox"/>	C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US	Base Maintenance, SPM	28-Nov-2011 11:16:09	28-Nov-2012 12:16:09	oo		
<input type="radio"/>		63	Engine Overhaul Planning		<input type="checkbox"/>	C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US	Base Maintenance, SPM	25-Oct-2011 01:00:00	25-Oct-2012 18:00:00	oo		
<input type="radio"/>		60	Engine Overhaul Partially Implemented		<input type="checkbox"/>	C70-3, SN 513, Tail # VA763	San Francisco Maintenance Center US	Base Maintenance, SPM	18-Dec-2011 23:43:00	18-Dec-2012 23:43:00		oo	
<input type="radio"/>		60	Engine Overhaul Partially Implemented		<input type="checkbox"/>	C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US	Base Maintenance, SPM	18-Dec-2011 23:43:00	04-Aug-2012 03:00:00		oo	

Select Visit Automatically Assign Requirements Go

- The planner can also edit visits using the Fleet Schedule tab.

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

Selected Visits : 01-Jan-2012 - Base Maintenance, SFM											
Select Visit		Automatically Assign Requirements <input type="button" value="Go"/>									
Select	Schedule To	Visit Number	Visit Type	Visit Status	Firm Lock Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOC Search	UMP Cancel
<input type="radio"/>		26	Engine Overhaul/Implemented	<input type="checkbox"/>	C70-1, SN 312, Tail # VAS22	San Francisco Maintenance Center US Base Maintenance, SFM		09-Sep-2011 02:00:00	13-Dec-2012 07:43:52	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		28	Engine Overhaul/Partially Implemented	<input type="checkbox"/>	C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US Base Maintenance, SFM		09-Sep-2011 06:22:00	09-Sep-2012 06:22:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		27	Engine Overhaul/Partially Implemented	<input checked="" type="checkbox"/>	C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US Base Maintenance, SFM		22-Sep-2011 00:33:00	30-Oct-2012 00:35:30	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		40	SS_Test	Partially Implemented	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SFM		27-Sep-2011 04:58:50	01-Nov-2012 00:52:31	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		43	SS_Test	Implemented	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SFM		27-Sep-2011 22:59:33	30-Nov-2012 22:59:43	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		68	Engine Overhaul/Planning	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US Base Maintenance, SFM		10-Sep-2011 02:00:00	30-Dec-2012 02:00:00	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		29	Engine Overhaul/Implemented	<input type="checkbox"/>	C70-3, SN 511, Tail # VA761	San Francisco Maintenance Center US Base Maintenance, SFM		28-Sep-2011 11:16:09	28-Dec-2012 12:16:09	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		62	Engine Overhaul/Planning	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US Base Maintenance, SFM		25-Oct-2011 01:00:00	25-Oct-2012 18:00:00	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		69	Engine Overhaul/Partially Implemented	<input type="checkbox"/>	C70-3, SN 513, Tail # VA763	San Francisco Maintenance Center US Base Maintenance, SFM		18-Dec-2011 23:43:00	18-Dec-2012 23:43:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>		60	Engine Overhaul/Partially Implemented	<input type="checkbox"/>	C70-3, SN 512, Tail # VA762	San Francisco Maintenance Center US Base Maintenance, SFM		18-Dec-2011 23:43:00	04-Aug-2012 03:00:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Select Visit		Automatically Assign Requirements <input type="button" value="Go"/>									

- Identify aircraft that require or are available for an aircraft heavy maintenance visit.

The planner will also identify requirements to create additional visits not created as part of the heavy maintenance visit forecast.

- The planner can search UMP for outstanding UEs that require accomplishment through a heavy maintenance visit.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

Search by Fleet, Program Type and Subtype to filter results. MR Tolerance criteria and MEL and CDL considerations can also impact the due dates.

- The planner can also use the AMP workbench to search the UMP for outstanding UEs that require accomplishment through a heavy maintenance visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Search by Fleet, Unit, Program Type, Subtype, Due From or Due Within to filter results. The MR Tolerance criteria and MEL and CDL considerations can also impact the due dates. This workbench provides the best method to identify a requirement for a unit, assign it to a visit or create a visit in which to resolve it.

- Create and schedule heavy maintenance visits.

The planner can create a new visit in which to accomplish the unscheduled maintenance requirements which require a heavy maintenance visit, and also adjust the schedule of existing visits.

- The visit can be created in VWP by clicking the **Create** button.

Navigation: Planning > Visit Work Package > Visits > Search Visits

- The planner can also create visits within the AMP workbench.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan > Search Unit Maintenance Plan

A new visit can be created in the context of a unit effectivity that appears in the Unit Maintenance Plan search results.

- The planner can also create a new visit for a downtime period between flights.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Downtimes

- The planner can also create a new visit for an open day in the Organization Schedule.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

- The planner can also create a new visit for an open day in the Fleet Schedule.

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

- The planner can view all the visits in the Heavy Maintenance Plan window.

Navigation: Planning > Visit Work Package > Visits > Search Visits

The planner can then further refine the visit schedule by editing the visits directly or by using the Planning Workbench to edit the visits in the context of the organization.

- The planner can select an individual visit and adjust the start dates and times of the visit.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

- The planner can also search for visits using the Planning Workbench - Organization Schedule tab.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

The planner can select an individual visit and adjust the start dates and times of the visit. This workbench will be the best tool to search visits and refine the visit schedule for an organization, department and space because all visits will appear.

- Create and refine the visit work scopes while evaluating material requirements, resources, and facility availability.

The planner will create and refine the work scope based on the required maintenance that is due or being scheduled for the visit.

- The planner can update the visit work scope directly using the Planning Workbench to search and add individual requirements to a visit.

The planner can also search the UMP for open requirements, and then search for visits that are available to accomplish them.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

- The planner directly updates the visit work scope, and then adds planned and unplanned maintenance requirements to the visit.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit > Maintenance Requirements

ORACLE Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits Logged in As TSMITH

Update Visit

* Indicates required field

Cancel Revert Background Push to Production (Jobs Released) Go Apply

Hide Visit Details

Visit Number 65

Unit NSAUIC1

Item NSASerialItem1

* Organization San Francisco Maintenance

* Start Date 19-Mar-2012 00:00:00

* Planned End Date 19-Mar-2012 10:00:00

Visit Status Planning

Past Dated Visit No

* Visit Name Auto-Visit-65

Visit Type Engine Overhaul

Serial Number NSA1

* Department Engine Shop, SFM

End Date 19-Mar-2012 10:00:00

Due By Date 13-Dec-2012 00:00:00

Work Order Number 65 - Auto-Visit-65

Build Goal Set up No

Details Visit Tasks Task Dependencies Stages Maintenance Requirements Material Requirements Repair Workscope

Maintenance Requirement

Item

Unit

Service Request

Go Clear

Description

Serial Number

Position

Program Type

Status

On Wing

Show requirements for instances not associated to visit

Show only Service Category Exceptions

Highest Requirement Service Category 0.

Add Unplanned Requirement Go

Program Type	Title	Description	Service Category	Exception	Service Request Summary	Item	Unit	Position	Serial Number	Instance Number	Quantity	UOM	Tasks	Cost/Price	MR Status	Remove
Letter Check	RR Primary Visit MR		0			NSASerialItem1	NSAUIC1	21-22-01, Indicator, Rate of Climb, #1	NSA1	2962090	1	Ea			In Planning	

Cancel Revert Background Push to Production (Jobs Released) Go Apply

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

- The planner will search and add planned requirements from the Unit Maintenance Plan.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- The planner will search and add unplanned requirements from the Fleet Maintenance Program.

Navigation: Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirements

- The planner can use the Planning Workbench to search and identify planned requirements that are unscheduled to visits.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

Unit Maintenance Plan | Visit Work Package | **Planning Workbench** | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Planning Workbench

Unit Maintenance Plan

Hide UMP Search Region

Simple Search

Unit Name: Item: Title:

Due From: 13-Apr-2013 Due To: Include Tolerance Date: ☒

Program Type: Due Within: UOM:

Arrival Organization: Non Routine Type:

Fleet: Serial Number: Scheduled Status: Due To: Include Tolerance Date: ☒

Program Sub Type: Implement Status: Show Dependent Requirements: ☒

On Wing:

Advanced Search

Go Clear

Select Requirements: Search Unit Downtimes Create Visit

Select All Select None Show All Details Hide All Details

Select	Details	Unit	Program Type	Title	Item Number	Serial Number	View All	Cnt	UOMs	Name	Cnt	UOM	Remain	Earlier	Due Date	Latest Date	Schedule Date	Service Visit	Request
<input type="checkbox"/>	Show	SS_P100_1717	PM Airframe	SS_MR_NP_Estimates	SS_Airframe	1717	00	TSN							13-Apr-2013				
<input type="checkbox"/>	Show	MBS8SrLocCrTrkUC	Corrosion	MBS8TestMR3	MBSrLocCrTrk	MBS8SrLocCrTrk001	00	MBCTR							13-Apr-2013				
<input type="checkbox"/>	Show	SS_P100_1717	Service Bulletin	SS_Airframe_SB_MR1	SS_Airframe	1717	00	TSN							13-Apr-2013				
<input type="checkbox"/>	Show	MBS8SrLocCrTrkUC	Service Bulletin	MBS8InitatesDeferralMR2	MBSrLocCrTrk	MBS8SrLocCrTrk002	00	MBCTR							13-Apr-2013				
<input type="checkbox"/>	Show	SS_P100_1717	Modification	SS_Chain MR1	SS_Airframe	1717	00	TSN							13-Apr-2013				
<input type="checkbox"/>	Show	C70-1-MEL-01	Special	skr-mr-w-AIG	C70-1	C70-1-MEL-01	00	CSN							13-Apr-2013				
<input type="checkbox"/>	Show	SS_MEL_05	Special	skr-mr-w-AIG	C70-1	SS_MEL_05	00	CSN							13-Apr-2013				

- The planner can select a requirement row and locate a existing visit in which to schedule it.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- The planner can search the flight schedule for a unit. The planner can drill into the down times between flights and schedule to existing visits.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Search Unit Schedule

- The planner can search the visit schedule for an organization. The planner can drill into the department and space results table and schedule to existing visits.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- The planner can search the fleet schedule for the unit, and can schedule to existing visits.

Navigation: Planning > Planning Workbench > Fleet Schedule Tab > Selected Visits

- The planner can evaluate the material requirements for the visit in the Materials Requirements tab. The planner can reserve items by clicking the **Reserve** button and navigating to the Materials Management workbench.
- When new maintenance requirements are added to a visit, the planer has

an option to run the Update Material Requirements process. This process will update the Material Requirements tab.

- Visits may be individually evaluated for resource and facility availability by navigating to the AMP Workbench using the Schedule action in the visit details.

The planner can validate the organization, start and end date, department of the visit, and add a space assignment in the context of the organization and to other existing visits. Date conflicts will be identified by specific icons and can be resolved by adjusting the visit start and end dates and times, and by adjusting the department and space assignments.

- The planner can also evaluate the resource capacity for an organization and department.

The planner can select a visit in which to base the organization and department, or they can be manually selected. Up to five resources can be selected and compared on the graph at one time. The planner can then adjust the visit start dates and refresh the capacity graph to see the impact.

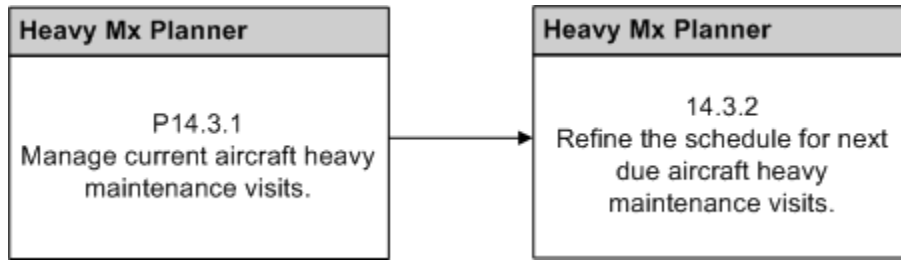
- The planner can identify outsourcing requirements when an organization is out of capacity and a visit cannot be scheduled in time to complete a time-driven requirement.

- Analyze in-sourcing opportunities and outsourcing requirements for organizations.
 - The planner can identify openings in an Organization Schedule for in-sourcing opportunities.
 - The planner can create visits in which to hold production positions for customer complex assembly visits based on the anticipated visit type.

14.3. Major Task - Support in-process and next due visits:

The planner will coordinate with multiple users to manage the aircraft that are next due or currently in production.

Task Flow



1. Support ongoing and upcoming heavy maintenance visits.

- Manage current aircraft heavy maintenance visits.
 - The planner can edit the work scope of a visit either in planning or in production. The planner will search for the visit and then add additional maintenance requirements in the visit details.
Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit
 - The planner can also add requirements to a visit from the Planning Workbench.
Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan
 - The planner can monitor the visit schedules and adjust visits that are creating scheduling conflicts within the Planning Workbench.
Navigation: Planning > Planning Workbench > Organization Schedule > Selected Visits
- Refine the schedule of upcoming heavy maintenance visits.
 - The planner will monitor the visit progress of current visits and push next due visits to production when planning has finished. The planner can search for visits and then release directly from the search results.
Navigation: Planning > Visit Work Package > Visits > Search Visits
 - The planner can push a next due visit to production from the visit details.
Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit
 - The planner can push a next due visit to production from the Unit Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Search Unit Schedule

- The planner can push a next due visit to production from the Organizational Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule > Selected Visits

- The planner can push a next due visit to production from the Fleet Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Fleet Schedule

Role 15.0 - Heavy Maintenance Supervisor

This role is responsible for coordinating aircraft work scope in heavy maintenance visits from an execution perspective. Examples of these heavy visits include major checks (C and D checks) and overhauls. This role also coordinates scheduling jobs with other departments and shops participating in the scheduled maintenance, such as sheet metals, composite materials, inspection, and painting.

Associated Major Business Type: Heavy Maintenance, page 2-4

15.1. Major Task - Approve and commit to upcoming work load:

Task Description: Monitor heavy maintenance work load to include physical hangar space, coordination between departments, overall visit capability, aircraft configuration changes, and visit completion dates.

1. Plan for upcoming visits.
2. Coordinate and communicate visit commitment.

15.2. Major Task - Execute on-going visits:

- Ensure timely visit progress.

Identify problems and act to resolve material, resource, and unexpected work conflicts that may affect completion of visit.

- Coordinate internal (heavy maintenance) communication.

Ensure hangar crews are engaged in necessary communication to keep all interactions efficient and timely.

- Coordinate external (operations) communication.

Provide two-way communication with operations about aircraft operation commitments and availability.

- Release aircraft.
 - Verify aircraft release status considering configuration and special operations allowances or restrictions (ETOPS, operating limitations, and so on).
 - Complete necessary documentation (log book entries, regulatory forms, and so on).
 - Communicate release status to flight operations for scheduling.

Role 16.0 - Crew Lead

This role is responsible for the work cards, required materials, and paperwork preparation prior to the assignment to technicians or inspectors. This role acts as a supervisory entity over a set of resources and work scope. The crew lead will ensure that the scheduled jobs are worked in a timely and effective manner. This role also verifies that the latest job status (on time, late, waiting for materials, and so on) is reported, so that appropriate scheduling can be adjusted and the best visit completion date is understood by all. In addition, this role will plan for jobs across shifts and with other Crew Leads, ensuring the accuracy of the materials and notes transferred.

Associated Major Business Type: Heavy Maintenance, page 2-4

16.1. Major Task - Prepare work cards:

1. Prioritize work cards.
2. Check material availability for scheduled and unscheduled maintenance.
3. Coordinate with other leads.
4. Coordinate with engineering for liaison support.
5. Coordinate with foreman.

16.2. Major Task - Assign jobs:

1. Assign resources.
2. Delegate work cards to technicians.

16.3. Major Task - Conduct handover briefing with the next shift crew leader:

Transfer and handoff between shifts.

Role 17.0 - Heavy Maintenance Technician

This role is responsible for execution of hangar jobs planned according to an approved maintenance plan, usually termed *major checks*. This type of work is likely performed across all shifts for multiple days. Typical heavy maintenance planned activities include the staging of aircraft for engine runs, cleaning and washing, and other pre-visit checks to detect abnormal conditions (fluid leaks, engine parameters, cabin pressurization, and so on) which would be logged as non-routines to be corrected once the heavy maintenance is underway. Aircraft will be maneuvered into the appropriate spaces based on planned work, and may be adjusted according to findings upon aircraft receipt (such as painting hangars, jacking, or specific equipment needed). This role will handle the logistics and physical moves of the aircraft in addition to the execution of the jobs that make up the visit.

Associated Major Business Type: Heavy Maintenance, page 2-4

17.1. Major Task - Prepare jobs:

Navigation: Complex MRO > Technician > Technician Workbench > My Work Orders

The screenshot displays the 'My Work Orders' application. At the top, it shows 'Update Work Orders' and a 'Cancel' button. Below this is a 'Select Work Order' section with a dropdown menu set to 'Create Non-routine' and a 'Go' button. A table lists work orders, with the selected one being SFM60314: 'VA-C70-53-340-00 Corrosion Prevention - Inspect flight compartment floor structure'. The table includes columns for Number, Description, Start Date, Status, Complete Quality, Change Parts, Non-Routine, Task Card, Visit Title, Maintenance Requirement, Sign Off, and Check Unit Complete. Below the table, the 'Details' tab for SFM60314 is active, showing fields for Number, Description, Status (Released(1)), Hold Reason, Scheduled Start Time, Scheduled End Time, All Operations Complete, Confirmed Failure, Released Date, Actual Start Time, Actual End Time, Completed Date, and Closed Date. A 'Turnover Notes' section at the bottom contains a table with columns for Date/Time, Employee, and Notes, showing two entries for status changes from 'Unreleased' to 'Released(1)'.

Execute work scope such as:

- Update and complete operations and work orders.
- Record QA results for operations, work orders, and MRs.
- Enter DFF requested values, if any.

- Perform part changes, if applicable.
- Create non-routine work orders.
- Update material and resource requirements.
- Perform material issues and returns.
- Perform resource transactions.
- Cancel work orders, if applicable.
- Defer maintenance requirements.

17.2. Major Task - Execute jobs:

1. Receive aircraft (if new visit).
2. Execute work scope.
3. Follow up approved maintenance procedure to perform the assigned job.

17.3. Major Task - Perform post maintenance duties:

Complete open jobs. This could include sign off requirements, access panel closure, final inspections, equipment returns, and so on.

17.4. Major Task - Release aircraft:

In heavy maintenance, an aircraft release happens much less frequently than in a line maintenance environment; however, the same release into service is required after a visit.

- Close open visit.
 1. Clear ramp area.
 2. Check that all jobs are complete (or deferred).
 3. Close visit.
 4. Report aircraft status.

Role 18.0 - Aircraft Inspector

This role supports both heavy and line maintenance work. In general, aircraft inspectors are assigned to specific work tasks, which require additional approval based on certified skills. Some examples are skin tap testing, NDT (non-destructive testing)

requirements testing, engine on-wing boroscope inspections, and so on. Additionally, some routine work or repairs also require this role as a second approval before the job is completed. This role requires a tight coordination within Heavy and Line Maintenance to guarantee access in the areas to be inspected. In most cases, inspection requirements are planned and scheduled as integral parts of the associated work performed by a technician, and the aircraft inspector follows this schedule to perform their duties. This role also plays a part in continuous improvement programs, collecting and recording information for specific analysis, such as reliability programs, workplace safety programs, and so on.

Associated Major Business Types:

Aircraft Operator, page 2-3

Heavy Maintenance, page 2-4

18.1. Major Task - Job preparation:

Task Description: Planned jobs to be done within transit time frame. Planned jobs may include tasks prior to aircraft landing, transit maintenance, and all the way down to aircraft dispatch.

Process: Oversee daily flight plan

1. Operation control center: Visit could be automatically or manually created. In the auto visit creation flow, the system will create visits along with basic visit attributes based upon flight schedules.

1. Review required inspection jobs.

Inspector will review the work load for their shift and gather paper work as required.

2. Plan corrective actions:

Use the combined view of the UMP and Unit Down Times tab to assess the over-scheduled and unscheduled requirements.

To avoid any maintenance delays, the requirements due date and unit down time (transit time) combination for the requirements will be outlined in the job to be accomplished.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Downtimes

Planning Workbench

Unit Maintenance Plan | Visit Work Package | **Planning Workbench** | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Planning Workbench Logged In As TSMITH

Unit Maintenance Plan

☐ Hide UMP Search Region

☐ Simple Search

Unit Name

Item

Title

Due From

Program Type

Due Within

Arrival Organization

Non Routine Type

Fleet

Serial Number

Scheduled Status

Due To ☐ Include Tolerance Date

Program Sub Type

Implement Status

☒ Show Dependent Requirements

On Wing

☐ Advanced Search

Select Requirements:

Select Details	Unit	Program Type	Title	Item Number	Serial Number	View All	Cnt Name	Cnt UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Visit Request
<input type="checkbox"/>	Show C70-2, SN 412, Tail # VA682	Block	VA-C70-A-CHK	C70-2	412	oo	TSN	UHR	2484		04-Apr-2013			
<input type="checkbox"/>	Show C70-2, SN 412, Tail # VA682	Routine Check	VA-C70-29-030-01	C70-2	412	oo	TSN	UHR	2484		04-Apr-2013			
<input type="checkbox"/>	Show C70-2, SN 412, Tail # VA682	Routine Check	VA-C70-24-020-01	C70-2	412	oo	TSN	UHR	2484		04-Apr-2013			

Unit Maintenance Plan - Unit Downtimes tab

Unit Down Times | Organization Schedule | **Fleet Schedule**

☐ Search Unit Schedule

Arrival Organization

Department

Arrival From

Service Category

Fleet

Unit

Departure To

Minimum Duration

☐ Advanced Search

Select Unit Downtime:

Select Details	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down Hours	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UPM
<input type="radio"/>	<input type="checkbox"/>	C70-3, SN 513, Tail # VA703	115	San Francisco Maintenance Center US	Base Maintenance, 2		25-Jul-2011 08:24:08		72:02	Hours	115	San Francisco Maintenance Center US	28-Jul-2011 08:25:35		oo

Visit

Select Visit:

Select Schedule:

Select	Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down Hours	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UPM
<input type="radio"/>	<input type="checkbox"/>	105	Component Repair Planning	25-Jul-2011 08:25:00	28-Jul-2011 08:25:00										
<input type="radio"/>	<input type="checkbox"/>	101	Component Repair Planning	25-Jul-2011 08:25:00	28-Jul-2011 08:25:00										
<input type="radio"/>	<input type="checkbox"/>	103	Component Repair Planning	25-Jul-2011 08:25:00	27-Aug-2011 23:49:36										
<input type="radio"/>	<input type="checkbox"/>	105	Component Repair Planning	25-Jul-2011 08:25:00	28-Oct-2012 23:33:07										
<input type="radio"/>	<input type="checkbox"/>	104	Component Repair Planning	25-Jul-2011 08:25:00	28-Jul-2011 08:25:00										
<input type="radio"/>	<input type="checkbox"/>	105	Component Repair Implemented	25-Jul-2011 08:25:00	30-Jul-2011 08:25:00										
<input type="radio"/>	<input type="checkbox"/>	300x C70-2, SN 411, Tail # VA681	115	San Francisco Maintenance Center US	Base Maintenance, 2		27-Jul-2011 05:26:30		264:05	Hours	115	San Francisco Maintenance Center US	07-Aug-2011 05:29:30		oo
<input type="radio"/>	<input type="checkbox"/>	300x C-180B, Tail # 101	115	San Francisco Maintenance Center US	Base Maintenance, 2		28-Jul-2011 05:37:58								oo
<input type="radio"/>	<input type="checkbox"/>	300x C70-3, SN 512, Tail # VA702	115	San Francisco Maintenance Center US	Base Maintenance, 2		30-Jul-2011 07:39:59		696:09	Hours	115	CPW Maintenance Center US	28-Aug-2011 07:45:21		oo

2. Process: Review on-going maintenance

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- Maintenance and crew log checks.
- MEL/CDL open item list:
 - Requirements from previous flight legs to be entered throughout.

- Execute prior non-routines.
- Follow flow to post log book maintenance entries.

Unit Maintenance Plan | Visit Work Package | **Planning Workbench** | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Planning Workbench Logged In As TSMITH

Apply Revert

Unit Maintenance Plan

☐ Hide UMP Search Region

☒ Simple Search

Unit Name

Item

Title

Due From 01-Apr-2013

Program Type

Due Within UOM

Arrival Organization

Non Routine Type

Fleet

Serial Number 412

Scheduled Status

Due To 04-Apr-2013 ☒ Include Tolerance Date

Program Sub Type

Implement Status

☒ Show Dependent Requirements

On Wing

☐ Advanced Search

Go Clear

Select Requirements:

Select Details	Unit	Program Type	Title	Item Number	Serial Number	View All UOMs	Cnt Name	Cnt UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Visit Request
<input type="checkbox"/> Show	C70-2, SN 412, Tail # VA682	Block	VA-C70-A-CHK	C70-2	412	00	TSN	UHR	2484		04-Apr-2013			
<input type="checkbox"/> Show	C70-2, SN 412, Tail # VA682	Routine Check	VA-C70-29-030-01	C70-2	412	00	TSN	UHR	2484		04-Apr-2013			
<input type="checkbox"/> Show	C70-2, SN 412, Tail # VA682	Routine Check	VA-C70-24-020-01	C70-2	412	00	TSN	UHR	2484		04-Apr-2013			

3. Process: Review planned material and resource requirements

Review material and resources to be associated to routes and operations, and to be requested upon adding requirements to visit. Material and resources requirements for on-going jobs can be manually added. View requested materials at a visit level to allocate expected demand prior to the transit event.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview

Update Material Requirements

Work Order Number: SFMPW0102405
 Work Order Status: Released(1)
 Department: BASE Maintenance Department for MARS
 Maintenance Requirement: Engine Inspection.Engine Inspection
 Route: Engine Inspection
 Item: LH-C130-Hercules
 Unit Name: M-LH-C130-UC4
 Quantity: 1
 Visit Number: 512
 Accounting Class: Maintenanc
 Completion Sub Inventory: STORES
 Scheduled Start Date: 21-APR-2012 00:00
 Actual Start Date:

Organization: San Francisco Maintenance Center US
 All Operations Completed

Project: 512
 Project Task: Engine Inspecti
 Serial Number: C130-4
 Instance Number: 2938064
 UOM: Ea
 Visit Task: 10
 Priority: 1.1.1..
 Locator: 1.1.1..
 Scheduled End Date: 25-APR-2012 00:00
 Actual End Date:

Material Requirements

Illustrated Parts Catalog

Cancel Revert Apply

Select Operation: Remove Go

Select Operation	Seq	Config	Description	Scheduled Quantity	UOM	Repair Item	Required Date	Available Exception Quantity	Net Quantity	Reserved Quantity	AOG	Details
20			Schedule Material Requirement	120	Gallon		21-APR-2012	20-JUN-2012	0			
			Schedule Visit Material Requirements									

Add More Rows

Select Operation: Remove Go

18.2. Major Task - Job execution:

Task Description: Actual jobs executed within visit time frame.

1. **Process:** : Aircraft maneuver to gate or platform
 - Towing, parking and cone signals.
 - Outline activities performed by user due to requested maintenance conditions.
2. **Process:** Areas and zones access
 - Stairs accessing.
 - Connect ground support equipment to aircraft port.
 - Access panels opening.
 - Aircraft fueling: Defined on operation or routes from engineering.
3. **Process:** Perform jobs

Navigation: Execution > Production Planning > My Work Orders

Use the My Work Orders page to perform tasks such as:

- Update and complete operations and work orders.
- Record QA results for operations, work orders, and maintenance requirements.

- Perform part changes.
- Create non-routine work orders.
- Update material and resource requirements.
- Material issues and returns.
- Perform resource transactions.
- Release work orders for visits and MRs.
- Cancel work orders.
- Defer maintenance requirements.

My Work Orders Logged In As: TSMITH

Update Work Orders Cancel

[Show Icon Legend](#)

Select Work Order:

Select	Number	Description	Work Order Start Date	Status	Complete	Quality	Change Parts	Non-Routine Task	Card	Visit Title	Maintenance Requirement	Quality Sign Off	Check Unit	Complete
<input type="radio"/>	SPM137	VA-C70-21-40-00: Replace the electrical and electronic supply fan filter	18-Jun-2009 07:00:00	Released(1)						21	VA-C70-21-40-00			

Details: SPM137 Revert Apply

Details | Operations | Materials | Documents | Dependencies | Warranty

Select	Details	Seq Code	Status	Total Hours	Hours Worked	Scheduled / Assigned	Start Time	Scheduled End Time	Actual Start Time	Actual End Time	Quality
<input type="radio"/>	Show	1 VA-C70-21-27-01.420.801	Uncomplete	0:0:0	0:0:0			18-Jun-2009 11:00:00			
<input type="radio"/>	Show	2 VA-C70-21-27-01.720.801	Uncomplete	0:0:0	0:0:0			18-Jun-2009 11:00:00			

Operation 1: Perform Resource Transactions

Details Type	Resource	Charge Department	Serial Number	Start Time	End Time	Qty UOM	Clear
No results found.							

Login Information

Sequence Code	Employee	Login Date/Time	Logout Date/Time
No results found.			

18.3. Major Task - Aircraft release:

Task Description: Perform jobs immediately after maintenance has been accomplished.

Process: Close jobs

1. Perform maintenance requirement signoffs, and defer non-routines and MRs if required.

Navigation: Execution > Production Planning > Work Orders

1. Search for a work order, and click the **Go** button.
2. Select the work order, and then select Signoff Maintenance Requirement from the Select Work Order drop-down.
3. Click the **Go** button, and the Signoff Maintenance Requirement page appears.

2. Return material and ground equipment.

Navigation: Execution > Material Transactions > Returns

Use the Material Returns page to return unserviceable or excess material and ground support equipment. You can perform mass materials returns and follow-up on daily operation KPIs using this page.

- Enter search criteria and click the **Go** button.
- Enter the following information for the work orders to which you want to return material:
 - Operation Sequence - the step where the return should occur
 - Condition - the reason why return is occurring
 - Return quantity - amount being returned
 - Received From - the employee making the return

Note: Select multiple rows to perform mass material returns.

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Navigator Favorites Home Home CMRO Engineering Configuration Planning Administration Execution Profile Out Sign Help

Production Planning Outside Processing Service History Material Transactions

Issues Returns View Material Transactions

Logged In As TSMITH

Material Returns

Work order: Priority:

Organization: Item:

Service Request: Visit Number:

Department: Disposition:

Select Material(s):

Select	Work Order	Operation Seq	Item	Description	Disposition	Condition	Serial Number	Net Quantity	Return	UOM	Move To Project	Received From	Quality Details
<input checked="" type="checkbox"/>	JFKPW0157885		Engine Oil	Synthetic Engine Oil				20	20	Ea	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	DFWPW0157881		Engine Oil	Synthetic Engine Oil				2	2	Ea	<input type="checkbox"/>		
<input type="checkbox"/>	DFWPW0157935		Engine Oil	Synthetic Engine Oil				1.5	2	Ea	<input type="checkbox"/>		
<input type="checkbox"/>	SFMPW0308366		Hydraulic Filter 111-1	Hydraulic Filter				3	3	Ea	<input type="checkbox"/>		
<input type="checkbox"/>	SFM175		DEM Engine-Oil	Engine-Oil				100	100	GAL	<input type="checkbox"/>		
<input type="checkbox"/>	DFWPW0337		DEM Engine-Oil	Engine-Oil				12	12	GAL	<input type="checkbox"/>		
<input type="checkbox"/>	SFMPW0275		DEM Engine-Oil	Engine-Oil				45	45	GAL	<input type="checkbox"/>		
<input type="checkbox"/>	SFM48		671250-17	Antenna, VHF	Non-Conformance	Unserviceable	6337H12	0	1	Ea	<input type="checkbox"/>		
<input type="checkbox"/>	DFWPW0337		671250-17	Antenna, VHF	Non-Conformance	Unserviceable	812	0	1	Ea	<input type="checkbox"/>		
<input type="checkbox"/>	SFMPW06368		RRSrCtTrik	RR serial tracked item	Use As Is	Active	RR3000	0	1	Ea	<input type="checkbox"/>		

3. Check unit as complete and close visit.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview

1. Retrieve the work order that you want to close.
2. Select the radiobutton for the work order.
3. Select Close Visit from the Select Work Order drop-down list.

Role 19.0 - Marshaller

This role is responsible for the support of the engine build process to ensure that the right parts are in the right location at the right time. As parts are located, the Marshaller can reserve and route these parts to the location of the build to ensure that the intended configuration is assembled to desired specifications.

Associated Major Business Types: Heavy Maintenance, page 2-4

Complex Assembly Maintenance, page 2-5

19.1. Major Task - Allocate material requirements:

Task Description: Marshaller fulfills material shortages, checks configurations, build goals and engine build goals, and creates reservations.

Process: Monitor visit material shortages and create reservations.

1. Search for a maintenance visit, and click the Details icon.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Marshalling Workbench

Visit Number: Organization: San Francisco Maintenance
Unit: Department:
Visit Status: Start Date: Sub Inventory:
Locator: End Date:

Results

Visit Number	Visit Name	Unit	Status	Start Date	End Date	% Complete	Organization	Department	Subinventory	Locator	Details
16	VA761-C	C70-3, SN 511, Tail # VA761	Partially Implemented	30-May-2005 00:00:00	28-Jul-2005 00:00:00	0	San Francisco Maintenance Center US	Base Maintenance, SFM-B			
18	Pilot Report-01	C70-3, SN 511, Tail # VA761	Implemented	24-May-2005 00:00:00	25-May-2005 00:00:00	8	San Francisco Maintenance Center US	Line Maintenance, SFM			
19	RA Part Changes	C80-1, SN811 Tail# VA636	Partially Implemented	21-Sep-2006 02:00:00	31-Oct-2006 02:00:00	0	San Francisco Maintenance Center US	Line Maintenance, SFM			
20	RA Part Changes 1	C80-1, SN811 Tail# VA636	Implemented	07-Feb-2007 02:00:00	28-Feb-2007 02:00:00	0	San Francisco Maintenance Center US	Line Maintenance, SFM			

2. Identify any visit material requirement shortages.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench > Search for a visit > Details icon

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Navigator Favorites Home Profile Sign Out Help

Demand and Supply Management Visit Management

Logged In As TSMITH

Visit Details

Visit Number **16** Organization **San Francisco Maintenance Center US**
Unit **C70-3, SN 511, Tail # VA761** Department **Base Maintenance, SFM-8**
Sub Inventory Visit Start Date **30-May-2005 00:00:00**
Locator Visit End Date **28-Jul-2005 00:00:00**

Related Information

Required Items **12**
Issued Items **1**
Available Items **0**
Not Available Items **11**
Completed Work Orders **2**
Total Work Orders **15**

List Of Units

Select Unit	Unit Status	Item	Serial Number	Item Instance Number
<input checked="" type="radio"/> C70-3, SN 511, Tail # VA761	Incomplete	C70-3	511	643067

Unit Configuration Details

Expand All Collapse All

Focus Position	Allowed Quantity	Installed Quantity	Required Items	Issued Items	Available Items	Not Available Items	Work Orders Complete/Total
<input checked="" type="checkbox"/> Airframe (C70-3\511)	1	1	12	1	0	11	2/14
21-24-22, Relief Valve, Positive Pressure (8720737-6\7549K32)	1	1	0	0	0	0	0/0
23-16-10, Antenna, VHF	1	0	0	0	0	0	0/0
24-08-01, Main Battery (17C35-01\170149)	1	1	0	0	0	0	0/0

Demand and Supply Management Visit Management Home Profile Sign Out Help

Click a link in the Not Available Items column to access the Unavailable Items page to view additional material shortage information.

Demand and Supply Management Visit Management

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Warning
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Unavailable Items

Visit Number **16** Unit **C70-3, SN 511, Tail # VA761**
Sub Inventory Position **Airframe (C70-3\511)**
Locator Total Work Orders **14**
Not Available Items **11** Completed Work Orders **2**

Related Information

Required Items **12**
Issued Items **1**
Visit Locator Available Items **0**

Search Items

Work Order Item Description Go Clear

List Of Items Not Available in Marshalling Area

Select Items: Issue Item Go Clear

Select All Select None Show All Details Hide All Details

Select Details	Required Item	Source Work Order	Op Seq	Required Qty UOM Date	Required Qty	Inventory Qty	Reserved Qty	Issued Qty	Available Exception Qty Date	AOG	Issue Allowed
<input checked="" type="checkbox"/>	Show Compressor Fan Blade	SFM48	2	10 Each 30-Apr-2012	10	540		0	06-Nov-2013		✓

List Of Items Not Available in Inventory

Select Items: Check Availability Go

Select All Select None Show All Details Hide All Details

Select Details	Required Item	Source Work Order	Op Seq	Required Qty UOM Date	Reserved Qty	Required Qty	Issued Qty	Available Exception Qty Date	AOG
<input checked="" type="checkbox"/>	Show 93242-5	SFM48	2	1 Each 30-May-2005		1	0	05-Feb-2014	

- Identify demand with exception dates.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

Demand and Supply Management **Visit Management** Logged In As TSMITH

Warning
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Work Order Material Demand
[Show Icon Legend](#)

Search

Organization: San Francisco Maintenance Center US
 Item:
 Department:
 Work Order Number:
 Operation Sequence:
 Visit Number: 370
 Owner:
 Priority:
 Scheduled Start:
 Scheduled End: (example: 27-Mar-2013)
 Show material with reserved items: ☐
 AOG:
 Show material: ☐
 Show material: ☐
 Go Clear

Select Requirement: Check Availability

Select	View	Max	Item	Organization	Department	Work Order Number	Op Seq	Visit Goal	Build Item Owner	Required AOG	Reserved Quantity	Issued Quantity	Shipped Quantity	Locator Available	Visit	Priority	Requires Date
<input type="radio"/>	∞		AHL-KMIT001	San Francisco Maintenance Center US	Engine Shop, SFM	SFMPWO70517	10	370	General Technologies	6	1						03-Apr-2012
<input type="radio"/>	∞		SS_EC_E_HT	San Francisco Maintenance Center US	Engine Shop, SFM	SFMPWO70517	10	370	General Technologies	2	1			1			04-Apr-2012
<input type="radio"/>	∞		SS_EA_S_MOD1	San Francisco Maintenance Center US	Engine Shop, SFM	SFMPWO70514	10	370	General Technologies	1		1		1			03-Apr-2012

4. Review build goals.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Click the Build Goals icon

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Demand and Supply Management **Visit Management** Logged In As TSMITH

Warning
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Visit Header Details

Visit Number	370	Organization	San Francisco	Planned End Date	30-Jun-2012
Visit Name	VISIT IN TESTING	Department	Maintenance Center US	Unit	7070-1
Visit Type	SS_ENGINE_OVERHAUL	Start Date	Engine Shop, SFM	Serial Number	7070-1

Build Goals

UOM Reading

UCY	300
UHR	300

Demand and Supply Management Visit Management Home Profile Sign Out

5. Search global supply using one of these Work Order Material Demand tabs:

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

- Inventory
- Existing Reservations
- Work Orders

- Cannibalization

Search Supply for Item AHL-KMIT001

Inventory Existing Reservations Work Orders Cannibalization

Search Inventory Onhand

Serial Number Locator

* Search Organization San Francisco Maintenance Owner

Sub Inventory ☐ Search material with reserved items

☐ Include Build Goal hard limits
☐ Include Build Goal soft limits
☐ Show Alternate items

Go Clear

Select Organization Onhand: Create Reservation

Previous 1-10 Next 10

Select All Select None

Select	Counters	Item	Instance Number	Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order		Move Order	
									Number	Status	Shipped	Number
<input type="checkbox"/>	100	AHL-KMIT001	2981044	AHL-KMIT001-SFM-SN010	STORES	1.1.1..	Vision Corporation	SFMPWO70517				
<input type="checkbox"/>	100	AHL-KMIT001	2981046	AHL-KMIT001-SFM-SN012	STORES	1.1.1..	Vision Corporation	SFMPWO62383				
<input type="checkbox"/>	100	AHL-KMIT001	2981048	AHL-KMIT001-SFM-SN014	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
<input type="checkbox"/>	100	AHL-KMIT001	2981049	AHL-KMIT001-SFM-SN015	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
<input type="checkbox"/>	100	AHL-KMIT001	2981050	AHL-KMIT001-SFM-SN016	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
<input type="checkbox"/>	100	AHL-KMIT001	2981051	AHL-KMIT001-SFM-SN017	STORES	1.1.1..	Vision Corporation	SFMPWO54385				
<input type="checkbox"/>	100	AHL-KMIT001	2981052	AHL-KMIT001-SFM-SN018	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
<input type="checkbox"/>	100	AHL-KMIT001	2981053	AHL-KMIT001-SFM-SN019	In-Plant-CP	3.3.3.1062.325	Vision Corporation	SFMPWO48402				

6. Create a reservation for serialized items from the Work Order Material Demand - Inventory tab.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

The marshaller can create a reservation from the CMRO Supply Inventory tabs. Reservations will be created for items that are serialized.

Task Description: Issue staged materials.

Process: Issue work order materials from Visit Locator

1. Search for a maintenance visit.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

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Navigator Favorites Home Profile Sign Out Help

Demand and Supply Management Visit Management

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Marshalling Workbench

Visit Number 370 Organization Sub Inventory
Unit Department Locator
Visit Status Start Date End Date
(example: 27-Mar-2013 19:45:00)

Go Clear

Results

Visit Number	Visit Name	Unit	Status	Start Date	End Date	% Complete	Organization	Department	Subinventory	Locator	Details
370	VISIT IN TESTING	7070-1	Partially Implemented	03-Apr-2012 20:24:00	30-Jun-2012 20:25:49	7	San Francisco Maintenance Center US	Engine Shop, SFM	VISIT01	30.30.1..	

Demand and Supply Management Visit Management Home Profile Sign Out Help

2. Identify visit material requirements.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

Identify available items by clicking a number in the Available Items column on the Visit Details page.

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Navigator Favorites Home Profile Sign Out Help

Demand and Supply Management Visit Management

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Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Available Items

Visit Number 370 Unit 7070-1
Sub Inventory VISIT01 Position SS_ENGINE (SS_ENGINE\7070-1)
Locator 30.30.1.. Total Work Orders 15
Visit Locator Available Items 1 Completed Work Orders 5

Related Information

Required Items	10
Reserved Items	2
Issued Items	2
Not Available Items	2

Search Items

Work Order Item Description Go Clear

Items Available in Visit Marshalling Area

Select Items: Issue Item Go Clear

Select All Select None Show All Details Hide All Details

Select Details	Item	Required Qty	Source Work Order	Op Seq	Qty UOM Date	Required Qty	Visit Locator Qty	Reserved Qty	Issued Qty	Available Exception Qty Date	AOG	Issue Allowed
Show	SS_EC_E_HT	SFMPW070517	10	1	Each 04-Apr-2012	2	1	1	0	20-Jun-2012		

Cancel

3. Issue materials located in the Visit Locator from one of these UIs:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench > Visit Details > Available Items
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
- **Navigation:** CMRO Material Marshalling User > Material Marshalling >

Demand and Supply Management > Work Order Material Demand > Existing Reservations

Search Supply for Item SS_EC_E_HT

Inventory

Existing Reservations

Work Orders

Cannibalization

Search Inventory Onhand

Serial Number

Locator

Include Build Goal hard limits

* Search Organization

Owner

Include Build Goal soft limits

Sub Inventory

Search material with reserved items

Show Alternate Items

Go

Clear

Select Organization Onhand: Issue

Go

Previous 1-10 Next 10

Select All | Select None

Select	Counters	Item	Instance Number	Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order Number	Is Shipped	Move Order Number	Status
<input type="checkbox"/>	100	SS_EC_E_HT	2996042	HH8347	VISIT01	30.30.1..	Vision Corporation					
<input checked="" type="checkbox"/>	100	SS_EC_E_HT	2996043	HH8348	STAGNG	10.10.10..	Vision Corporation					
<input checked="" type="checkbox"/>	100	SS_EC_E_HT	2996044	HH8349	STAGNG	10.10.10..	Vision Corporation					

Select the items that you want to issue, select Issue from the Select Organization Onhand drop-down, and then click the **Go** button.

19.2. Major Task - Allocate and move material requirements:

Task Description: Route supply to demand

Process: Route supply within the same organization (inter-organization transfer)

- 1. Search for a maintenance visit, and click the Details icon for the visit.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

- 2. Identify visit material shortages.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

Search for a visit, and then click the Details icon. Click the number link in the Unavailable Items column to drill further into material shortages.

ORACLE Complex MRO

Navigator Favorites Home Profile Sign Out Help

Demand and Supply Management Visit Management

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Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Available Items

Visit Number **370** Unit **7070-1**
 Sub Inventory **VISIT01** Position **SS_ENGINE (SS_ENGINE\7070-1)**
 Locator **30.30.1..** Total Work Orders **15**
 Visit Locator Available Items **1** Completed Work Orders **5**

Related Information

Required Items **10**
 Reserved Items **2**
 Issued Items **2**
 Not Available Items **7**

Search Items

Work Order Item Description Go Clear

Items Available in Visit Marshalling Area

Select Items: Issue Item Go Clear

Select All Select None Show All Details Hide All Details

Select Details	Item	Required Source Work Order	Op Seq	Qty UOM Date	Required Qty	Visit Locator Qty	Reserved Qty	Issued Qty	Available Exception Qty Date	AOG	Issue Allowed
<input type="checkbox"/>	Show SS_EC_E_HT	SFMPW070517	10	1 Each 04-Apr-2012	2	1	1	0	20-Jun-2012	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Cancel

- Identify demand with exception dates.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

- Review build goals using the Work Order Material Demand page.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

Search for a visit and click the Details icon. Hover the mouse over the View Max Counter Values.

You can also navigate to Planning > Visit Work Package > Visits > Search Visits, search for a visit and click the Build Goals icon.

5. Search global supply.
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations
6. Create an inter-organization transfer.
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
 - **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations

Select the items for which you want to create an inter-organization transfer.

Select Create Inter Org Transfer from the Select Organization Onhand drop-down.

Search Supply for Item SS_EC_E_HT

Inventory Existing Reservations Work Orders Cannibalization

Search Inventory Onhand

Serial Number: Locator:

* Search Organization: DFW Maintenance Center Owner:

Sub Inventory:

Go Clear

☐ Include Build Goal hard limits

☐ Include Build Goal soft limits

☐ Search material with reserved items

☐ Show Alternate Items

Select Organization Onhand: Create Inter Org Transfer Go

Select All Select None

Select Counters	Item	Instance Number	Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order Number	Status	Is Shipped	Move Order Number	Status
<input checked="" type="checkbox"/>	SS_EC_E_HT	3083037	SS_EC_E_HT-150	STORES	1.1.1..	Vision Corporation						
<input checked="" type="checkbox"/>	SS_EC_E_HT	3083038	SS_EC_E_HT-151	STORES	1.1.1..	Vision Corporation						
<input type="checkbox"/>	SS_EC_E_HT	3083039	SS_EC_E_HT-152	STORES	1.1.1..	Vision Corporation						

Task Description: Route supply to demand.

Process: Route supply within the same organization using a Move Order

1. Search for a maintenance visit, and click the Details icon for the visit.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

2. Identify visit material shortages.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

Search for a maintenance visit, and click the Details icon for the visit. Click the number link in the Unavailable Items columns to drill further into material shortages.

3. Identify demand with exception dates.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

Search for a visit, click the visit link and select the Material Requirements tab.

4. Review build goals.

Hover the mouse over the View Max Counter Values or navigate to the VWP - Visit Details page by clicking the Build Goals icon.

5. Search global supply.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations

6. Create a move order from:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations

Select the items for which you want to create a move order.

Select Create Move Order from the Select Organization Onhand drop-down.

Task Description: Route supply to demand.

Process: Route supply within the across organizations - Internal Order

1. Search for a maintenance visit and click the Details icon for the visit.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

2. Identify visit material requirement shortages.

Navigation: CMRO Material Marshalling User > Material Marshalling > Visit Management > Marshalling Workbench

Search for a maintenance visit and click the Details icon for the visit. Click the number link in the Unavailable Items columns to drill further into material shortages.

3. Identify demand with exception dates.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

4. Review build goals.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

Hover the mouse over the View Max Counter Values or navigate to the VWP - Visit Details page by clicking the Build Goals icon.

5. Search global supply using the Work Order Material Demand - Inventory or Existing Reservations tabs.

Navigation: CMRO Marshalling User > Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory

Navigation: CMRO Marshalling User > Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations

6. Create an internal order from:

- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Inventory
- **Navigation:** CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand > Existing Reservations

Select the items for which you want to create an internal order.

Select Create Internal Order from the Select Organization Onhand drop-down.

Role 20.0 - OSP Planner/Clerk

The CMRO OSP Planner/Clerk is responsible for the shipping and receiving transactions associated with material maintenance provided by third-party vendors and the correct routing of material. The OSP Planner/Clerk also ensures that the warranty for items are tracked and processed.

OSP work provides an avenue for a maintenance organization to handle either a shortage of time and resources or a lack of specific capabilities. In most organizations, it can be either a last minute decision or a mandatory process. The decision is made based on multiple constraints such as the work needed, service vendors available, warranty status, costs involved, turnaround time required, the internal capabilities of an organization, and if there is a supplier warranty contract from an OEM or service vendor.

Once the decision is made to outsource work on an item or assembly, the item must be shipped to the location with instructions for repair, the vendor must be paid the servicing fee, the returned item must be inspected for correctness, and then the item must be received back into the standard material supply chain. All of the processes belonging to this flow are intricate and dependent upon each other.

OSP Lifecycle

Unserviceable items can be stored in an inventory until a serviceable item is needed. At this time, a maintenance organization can decide to repair the item internally or externally.

A maintenance visit may have work orders that were initially planned within the organization until time, material, costs, or other constraints are encountered. When this occurs, a maintenance organization may decide to have the work performed by an external vendor.

Once the decision is made to outsource work, an OSP order can be used to track the shipping of the necessary items, the work definition for the vendor to perform, the expected cost and billing information, and the expected return receipt of the serviced item. After all the approvals are obtained for the OSP order, the components (items), associated paperwork, warranty identification and required materials are shipped to the service vendor.

When the item is received at the vendor site, all repairs are made and its paperwork is updated to reflect the details for the serviceable item. The vendor will review any warranty coverage and may work with a warranty administrator to discuss the coverage of repair changes or exchange fees. The changes to the item can include new and used parts installed in the configuration, changes to part or serial numbers, specific maintenance requirements, service bulletins, Airworthiness Directives or modifications performed, and even updates to the counter values for the item or its subcomponents. When finished, the repaired item and associated updated paperwork are shipped back to the original maintenance organization.

The item is then received with the associated paperwork at the original maintenance organization. After physical receipt, the item may be inspected for correctness and its paperwork must be interpreted and entered into the system. The configuration changes must be noted, new counter values entered, part and serial number changes noted, and all maintenance performed must be updated for the received item. The warranty contracts will then be reviewed, updated, and any new warranty contracts can be added.

Once the item has been received and associated paperwork has been processed successfully, the OSP order can be completed and closed. The item can then be placed back into the supply chain or inventory for consumption.

Associated Major Business Types:

Heavy Maintenance, page 2-4

Complex Assembly Maintenance, page 2-5

Used with CMRO Feature: OSP Receiving

20.1. Major Task - OSP shipping:

Task Description: Performs the OSP order creation, identifies applicable warranty contracts for the OSP vendor to claim during OSP processing, and ships items for OSP.

Process: Create OSP order and route unserviceable material

1. Identify unserviceable material requiring third-party maintenance.
2. Assign production jobs for third-party service.
3. Determine the supplier for outside purchasing.
Verify items that are under warranty contract.
4. Create OSP order.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Create (B) > Create Work Order Lines: Select Work Orders

ORACLE Complex MRO

Navigator Favorites Home CMRO Engineering Configuration Planning Administration Execution Profile Out Help

Production Planning Outside Processing Service History Material Transactions

OSP Orders Inventory Items

Logged In As TSMITH

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Create Work Order Lines: Select Work Orders

Cancel Service Exchange

Search Workorder

Note that the search is case insensitive

Workorder Number Item

Visit Number Instance Number

Visit Task Number Serial Number

Service Item Department

Go Clear

Workorder Select Number	Instance Item Number	Serial Number	Service Item	Service Item Description	Suggested Department Vendor	Ship Flag
No search conducted.						

Cancel Service Exchange

Production Planning Outside Processing Service History Material Transactions Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

- Submit OSP order for buyer approval.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Search for the OSP work order, and Edit OSP Order - General page appears.

ORACLE Complex MRO

Navigator Favorites Home CMRO Engineering Configuration Planning Administration Execution Profile Out Help

Production Planning Outside Processing Service History Material Transactions

OSP Orders Inventory Items

Logged In As TSMITH

General
Shipment

Edit OSP Order 51001: General

* Indicates required field

Order Number **51001** Order Date **14-Sep-2012**

Order Status **Entered**

Description

* Vendor Name **Advanced Network Device**

Vendor Contact **Mr Martin Rapp**

Order Type **Service**

OSP Attachments **None** [Add...](#)

* Buyer Name **Smith, Mr. Tom**

* Vendor Location **SANTA CLARA**

Shipment Number **80173**

Vendor Warranty **Yes**

Cancel Submit OSP Go Apply

Order Lines

Create Item Order Line Create Work Order Line

Line	Details	Number	Status	Job Number	Item Number	Service Item	Quantity	UOM	Need By Date	Delete	Change Warranty	Review
Show 1	Entered	SFMPWO382381	MBNonSrLotCtyTrk			43722-OVHL	5	Ea	15-Sep-2012			

Cancel Submit OSP Go Apply

Production Planning Outside Processing Service History Material Transactions Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

Select Submit OSP from the drop-down list, and then click Go.

- Create a purchase order.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Search for the OSP work order, and Edit OSP Order - General page appears. Select Submit OSP from the drop-down and click Go.

7. Create a shipping order.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Search for the OSP work order, and Edit OSP Order - General page appears.

Select Create Shipment in the drop-down and then click Go.

8. Route part to vendor.

Pick, pack and ship material to the third-party vendor.

Process: Edit the OSP order and route unserviceable material

1. Identify unserviceable material requiring third-party maintenance.
2. Assign production jobs for third-party service.
3. Determine the supplier for outside purchasing, and verify items under a warranty contract.
4. Edit the OSP order.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Search for the OSP work order, and Edit OSP Order - General page appears.

5. Submit the OSP order for approval using the Edit OSP Order page.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Search for the OSP work order, and Edit OSP Order - General page appears.

Select Submit OSP from the drop-down and click Go.

6. Create a purchase order using the Edit OSP Order page.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Search for the OSP work order, and Edit OSP Order - General page appears.

Select Submit OSP and click the **Go** button.

7. Create a shipping order.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Search for the OSP work order, and Edit OSP Order - General page appears.
Select Create Shipment in the drop-down and then click Go.

8. Route part to vendor.

Pick, pack and ship material to the third-party vendor.

Process: Inventory service order outside processing

1. Identify unserviceable material requiring third-party maintenance.
2. Set up a service order.

Inventory service orders enable you to create orders for items directly from an inventory location, without creating a visit and work order. This process is automated using default data. The service item is an inventory master item with specific attributes such as non transactable and non-stockable. The service item is derived from the setup of the item and vendor association. Service items are set up primarily to track costs, and outside processing orders can be created for shipment purposes.

1. Navigate to the Inventory Items page.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Inventory Items

Inventory Items

* Indicates required field
Indicates that one or more active OSP Orders exist for the Item

Simple Search

You must fill out the following field before starting your search: Inventory Organization.

* Inventory Organization Item Number
Sub Inventory Serial Number

Results

Select Items: Previous 1-10 Next 10

Select All | Select None

Select Details	Inventory Organization	Sub Inventory	Item Number	Serial Number	Lot	Warranty	Hand	On Routine	Non Routine	Service Quantity	Service Item	Ship
<input type="checkbox"/> Show	San Francisco Maintenance Center US	Def-01	Allison-T56-Engine-A	T56-ENGA01			1Ea			1		<input type="checkbox"/>
<input type="checkbox"/> Show	San Francisco Maintenance Center US	Def-01	Allison-T56-Engine-A	T56-ENGA02			1Ea			1		<input type="checkbox"/>
<input type="checkbox"/> Show	San Francisco Maintenance Center US	Def-01	Allison-T56-Engine-A	T56-ENGA03			1Ea			1		<input type="checkbox"/>

2. Search for records using criteria such as Inventory Organization (required), Sub Inventory, Item Number, or Serial Number.
3. Select Go to display the results of your query.
4. Select items for which you want to create service orders.

5. Ensure that the Ship check box is enabled to use default shipping information to create the service order.

This includes shipping method, freight terms, FOB, and payment terms.

6. Click the **Create Service Order** button to create your inventory service order record.

Task Description: Review existing purchase orders and edit accordingly.

Process: Review purchase order information

1. Navigate to Edit OSP Work Order, and retrieve the OSP work order.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

ORACLE Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Production Planning Outside Processing Service History Material Transactions

OSP Orders Inventory Items

General
Shipment
PO Details

Edit OSP Order 62000: General

* Indicates required field

Order Number **62000** Order Date **20-Dec-2012**
Order Status **PO Created** Buyer Name **Smith, Mr. Tom**
Description **MBSrLotCtrTrkELot1-003** Vendor Location **SANTA CLARA**
Vendor Name **Advanced Network Devices** Shipment Number **80200**
Vendor Contact **Mr Martin Rapp** Vendor Warranty **Yes**
Order Type **Exchange**

OSP Attachments **None** Add...

Order Lines

Details Line Number	Status	Job Number	Item Number	Service Item	Quantity	UOM	Exchange Instance	Need By D
Hide 1	PO Created		MBSrLotCtrTrk	75484-OVHL	1	Ea		22-Dec-201
<p>Item Description Serial and Lot Controlled Tracked Item Sub-Inventory Lot Number STORES MBLot1 UOM Ea Service Item Description MBItemMBSrLotCtrTrk</p> <p>Inventory Organization San Francisco Item Warranty 1 Visit Name Task Name Exchange Item Number Exchange Serial Number</p> <p>Serial Number MBSrLotCtrTrkELot1-003 Warranty Contract Warranty Status Not Applicable Warranty Claim Claim Status</p>								

Cancel Convert

Production Planning Outside Processing Service History Material Transactions Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

2. Select PO Details to display PO information.
3. Select line item to view PO shipping and receiving details.
4. Select a shipment number and click Accounting Distribution to view account distribution details.
5. Click Receipts in PO Details page to view receipts associated with the PO line item.
6. Click QA Results to view quality information.

20.2. Major Task - OSP receiving:

Task Description: Performs the receipt transaction, including counter updates, MR accomplishments, and supplier warranty updates to receive material into serviceable inventory

Process: Receive OSP material and route material

1. Receive serviceable material.
2. Verify that third-party maintenance documents are included (Form 8130).
3. Verify that the part number and serial number match (part and paperwork).
4. Verify warranty updates.
5. Perform receiving transactions.
6. Route part to serviceable inventory, and perform inspection of part.
7. Close OSP work order.

Navigation: Execution > OSP Processing > OSP Orders > Outside Processing Orders > Search Workorder

Select the OSP order that you want to close, and click the **Close** button.

Production Planning | Outside Processing | Service History | Material Transactions

OSP Orders | Inventory Items

Logged In As TSMITH

Outside Processing Orders

Synchronize POs

Advanced Search

Simple Search

Order Number
Order Type
Order Status
Description
PO Number
☐ Include requisition PO numbers
Requisition Number
Shipment Number
Vendor Name: advanc
Go Clear

Has New PO Lines
Work Order Number
Project Name
Task Name
Item
Serial Number
Department
☐ Ready for Receipt

Results

Select Object: Close Submit OSP Order Delete Shipment Create

Previous 10 41-50 Next 10

Order Select Number	Description	Date	Order Type	Status	Requisition Number	PO Number	Shipment Order Number	Update	Delete
50000	12-Sep-2012 Service	PO Created		214	80166				
49002	05-Sep-2012 Exchange	PO Created		211	80165				

Role 21.0 - Complex Assembly Maintenance Planner

This role is focused on projecting the complex assembly maintenance forecast for a period that is greater than one year into the future, managing the maintenance plan for

a period of less than one year, and supporting next due and currently in production repair visits.

The complex assembly maintenance forecast will be created by evaluating the impact of life limit, soft limit, optional and required modifications, and the historical analysis of non-routine removals. The output will be a forecast which can be used to create a supply chain plan and to determine costs for budgeting. The forecast will also be used to determine the maintenance capacity and resource requirements, and to evaluate the in-sourcing opportunities and outsourcing requirements. The planner will also work with in-sourced customers to evaluate the impact of planned and unplanned repair streams on the forecast.

The planner can also create a simulated complex assembly maintenance visit forecast by evaluating the impact of different operational scenarios such as different mixes of fleet types, number of aircraft, fleet utilization rates, aircraft ages, engineering effectivity, operating locations, or areas. The visit forecast will be used to create supply chain plans, which can be further analyzed to determine the costs for budgeting purposes. The planner may also work with customers to evaluate the impact of their planned heavy maintenance schedule on the forecast. The output will be a complex assembly maintenance visit forecast that can be used to determine aircraft availability, maintenance capacity and resource requirements, and for evaluating in-sourcing opportunities and outsourcing requirements.

The planner will manage the complex assembly maintenance plan, which represents the transition from a forecast to a scheduled plan of repair visits at the asset level. The planner will work with engineering to identify engines, auxiliary power units (APUs), and other complex assemblies that will require removal from operational aircraft during scheduled maintenance visits. The planner will assist in creating and scheduling the overhaul or repair visits, defining and updating the repair work scope and reviewing the resource requirements, including the facility, labor and materials. The planner may need to resolve resource conflicts as the plans are updated, including coordinating the outsourcing to a third-party vendor, and the in-sourcing of customer repairs. The planner may also coordinate the reservation of a completed assembly that is located in inventory or is currently under repair as a source of supply for a scheduled removal. The planner may also coordinate with the Maintenance Control Center to schedule the removal and return of engines and APUs that are removed from operational aircraft.

The planner will coordinate with multiple users (engineer, marshaller, supervisor, inspector, technician, and so on) to manage the units that are next due or currently in production. Resource requirements constraints, delays in processing, and so on will be monitored and the complex assembly visit schedule may be updated as necessary for an organization or department. Customer visits will be scheduled and processed according to priority, contractual agreements, and resource availability.

See Prerequisites for Complex Assembly Maintenance, Setting Up, Oracle CMRO Module Setup, *Oracle Complex Maintenance, Repair and Overhaul Implementation Guide*.

Associated Major Business Type: Complex Assembly Maintenance, page 2-5

21.1. Major Task - Create and refine the complex assembly repair forecast:

Task Description: Create a complex assembly maintenance forecast by evaluating the impact of life limit, soft limit, optional and required modifications, and the historical analysis of transit non-routine removals and customer planned and unplanned repair streams.

1. Identify the required (hard limit) and suggested soft limit assembly removals for modification, repair and overhaul of complex assemblies.

Navigation: Planning > Unit Maintenance Plan > Overview > Search Unit Maintenance Plan

- The planner will confirm that unit effectivities exist in the unit maintenance plan for the removal and repair of complex assemblies. Search by Fleet, Program Type and Subtype in the UMP UI to filter results.

Note: Due date tolerance criteria and MEL and CDL considerations may also impact the due dates.

The screenshot shows the Oracle Complex MRO web application interface. The top navigation bar includes 'ORACLE Complex MRO' and various menu items like 'Unit Maintenance Plan', 'Visit Work Package', 'Planning Workbench', 'Fleet Forecasting', 'Component Maintenance', 'Assembly Maintenance', and 'Auto Visit Planning'. The 'Planning Workbench' is currently selected. Below the navigation bar, there's a 'Search Unit Maintenance Plan' section with several search criteria: Unit Name, Item, Sort by (set to Due Date), Title, Non Routine Type, Due from, Visit Organization, Show Dependent Components, Show Replicate, Go, and Clear buttons. To the right, there are more search filters: Search For (set to All), Serial Number, Status (set to Open), Program Type, Non Routine Num, Due to, Include Tolerance Dates, Visit Department, Visit Number, and Show Child Maintenance Requirements. Below the search filters, a table header is visible with columns: Select, Program Type, Title, Version, Item, Serial Num, UOM, Remain, Cnt, Name, Earlier Due, Due Date, Latest Due, Tolerance, Status, Sched. Date, Visit Title, Originator Title, Dependent Title, Trigger Type, Deferred From, Deferred To, and Manually Planned. A message below the table states: 'No records were found matching the given criteria..'

- You can search by Fleet, Unit, Program Type, Subtype, Due From or Due Within, Arrival Organization and Service Category in the Planning Workbench UI to filter search results.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

2. Identify historical non-routine removal rates and customer repair estimates for assemblies that are not projected in the unit maintenance plan.

1. The planner will work with the reliability engineering to determine the non-routine removal rates (MTBUR).

Navigation: Oracle Demantra

2. The planner will apply these rates against the component usage projections for the forecasted period and will generate an anticipated removal schedule.
 3. The planner will evaluate customer repair estimates for the forecast period.
3. Create the maintenance visit forecast using Auto Visit Planning.

1. The planner should confirm that the primary MR based unit effectivities exist in the UMP for the removal and repair of complex assemblies.

Navigation: Planning > Unit Maintenance Plan > Overview > Search Unit Maintenance Plan

To forecast these into visits using the Auto Visit Planning process, the unit effectivities must be based on primary visit maintenance requirements.

2. The planner can also use the Planning Workbench to search the unit maintenance plan for primary maintenance requirements based on complex assemblies.

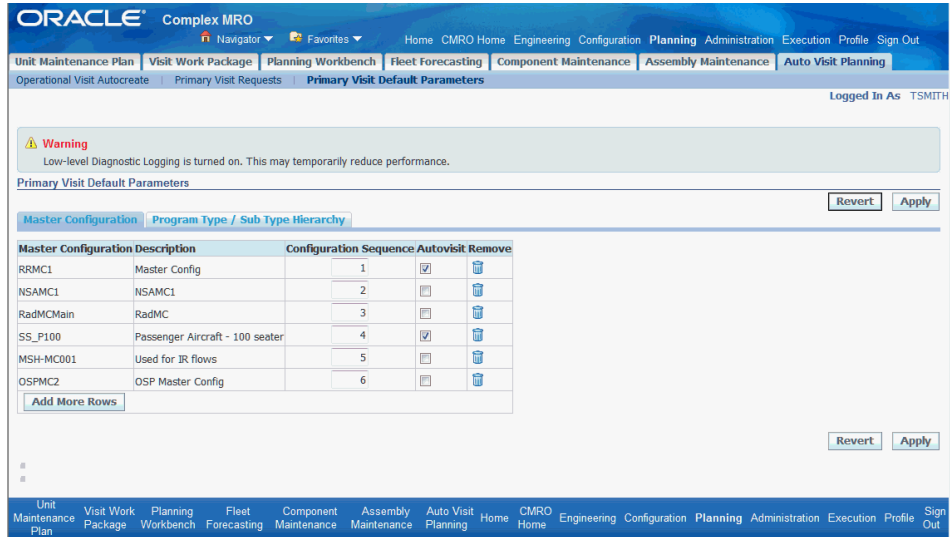
Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

3. The planner will define the default parameters and sequence which will be used for Auto Visit Planning.

Navigation Planning > Auto Visit Planning > Primary Visit Default Parameters > Primary Visit Default Parameters

The first parameter to define is the master configuration, and then define the applicable program types and subtypes. The sequence will be defined for each to define the priority during the processing.

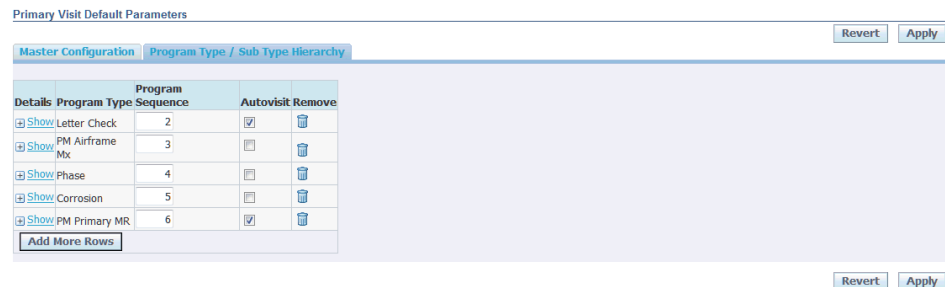
Navigation: Planning > Auto Visit Planning > Primary Visit Default Parameters > Primary Visit Default Parameters



4. Select the Program Type and Sub Type Hierarchy tab.

Navigation: Planning > Auto Visit Planning > Primary Visit Default Parameters > Primary Visit Default Parameters > Program Type./Sub Type Hierarchy

Enter default parameters such as Program Type, Program Sequence and indicate if the parameters will be included in the Autovisit process. The sequence will be defined for each to define the priority during the Auto Visit process.



Note: This default parameter set can be selectively edited during the creation of an individual primary visit request.

5. The planner can view existing primary visit requests.

Navigation: Planning > Auto Visit Planning > Primary Visit Requests > Search Primary Visit Requests

Request Title	From Date	To Date	Cancel Visit	Create Visit	Add Planned Requirements	Date Created	Created By	Phase	Status	Copy	Remove
RT_Primary_Visit1	06-Aug-2012	06-Aug-2012		✓	✓	17-Jul-2012 00:21:55	Smithy, Mr. Tom	Unknown - Purged	Unknown - Purged		

Master Configuration	Program Type	Program Subtype	Sequence
RRMC1			1
	Letter Check		1
	Letter Check	B	1
	Letter Check	D	2

The planner can also create a new request by clicking the Copy icon for an existing request.

- The planner can edit the new request, prior to submittal for processing.

The planner will define a name, date ranges, and select the processing actions to be completed.

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Create Primary Visit Request

* Request Title:

* From Date:

* To Date:

☐ Cancel Existing Visits
☐ Create Primary Visits
☐ Add Planned Requirements

Request Parameters

Updates to the request parameters will only be saved for this request and will not affect the default parameters

Master Configuration / Program Type / Sub Type Hierarchy

Master Configuration	Description	Configuration Sequence	Autovisit
RRMC1	Master Config	1	<input checked="" type="checkbox"/>
NSAMC1	NSAMC1	2	<input type="checkbox"/>
RadMCM	RadMC	3	<input type="checkbox"/>
SS_P100	Passenger Aircraft - 100 seater	4	<input checked="" type="checkbox"/>
MSH-MC001	Used for IR flows	5	<input type="checkbox"/>
OSPMC2	OSP Master Config	6	<input type="checkbox"/>

Add More Rows

The planner can also edit the final parameter set which will be used by this request only, based on the default parameters previously set up.

- The system generates a concurrent request number in which to track its progress.

After a primary visit request has been submitted, the planner can track the

progress of the unique concurrent process number and refresh the results until the concurrent request finishes. The Phase and Status columns will reflect the progress of the request.

Navigation: Planning > Auto Visit Planning > Primary Visit Requests > Search Primary Visit Requests

Search Primary Visit Requests

Request Number: Request Title:

Created From: 01-Jan-2013 Created To:

Request Status: Created By:

Concurrent	Request	Request Title	From Date	To Date	Cancel Visit	Create Visit	Add Planned Requirements	Date Created	Created By	Phase	Status	Copy Remove
Show	40367151	RD_AV4	01-Feb-2013	28-Feb-2013		✓		26-Dec-2012 11:43:24	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show	40367166	RD_AV6	01-Jan-2013	28-Feb-2013		✓		26-Dec-2012 11:54:00	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show	40367785	AVP-MC-02	01-Mar-2013	01-Mar-2014	✓			27-Dec-2012 02:25:57	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show	40353388	MC-01	01-Jan-2013	01-Mar-2013		✓	✓	13-Dec-2012 11:59:52	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove
Show	40367772	AVP-MC-01	01-Mar-2013	01-Mar-2014		✓		27-Dec-2012 02:07:05	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Copy Remove

4. Manually create or adjust the maintenance visit forecast.

1. Navigate to the Search Visits page, and search for existing visits that have been created by Auto Visit Planning in Visit Work Package (VWP). The visit name will be prefixed by 'Auto-Visit'; you can use a wildcard in the search criteria. You can also search for visits that were manually created through VWP.

Navigation: Planning > Visit Work Package > Visits > Search Visits

The Planning Status for primary MR-based visits is created with a status of Planning, but will be in a Non-Firmed and Non-Locked status.

ORACLE® Complex MRO

Home CMRO Home Engineering Configuration **Planning** Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package **Planning Workbench** Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits

Logged In As TSMITH

Search Visits

Simple Search

Note that the search is case insensitive

Item Service Request

Serial Number Department

Organization Visit Name

Visit Number Start To Date

Start From Date (example: 24-Mar-2013)

Visit Status

Service Category

Display Only

Unit

Visit Type

Priority

☐ Show Only Past Dated Visits

☐ Show Only Component Visits

Search Results

Select Visit: Cost and Price Information

Select	Visit Number	Visit Name	Item	Unit	Serial Number	Visit Type	Priority	Organization	Department	Start Date	Planned End Date	Scheduled End Date	Visit Status	Concurrent Request	Cost Structure	Cancel
<input type="radio"/>	1519	Auto-Visit-1519	RRSrCtrTrkRRUC1		RR1000	RR_TEST_AVF		San Francisco Maintenance Center US	Engine Shop, SFM	24-Jul-2013	25-Jul-2013	25-Jul-2013	Planning			
<input type="radio"/>	1542	Auto-Visit-1542	RRSrCtrTrkRRUC1		RR1000	RR_TEST_AVF		San Francisco Maintenance Center US	Engine Shop, SFM	24-Sep-2013	25-Sep-2013	25-Sep-2013	Planning			
<input type="radio"/>	1833	Auto-Visit-1833	C70-1	C70-1, SN 313, Tail # VAS23	313	Transit Check Old		San Francisco Maintenance Center US	Line Maintenance, SFM	05-Nov-2013	06-Nov-2013	06-Nov-2013	Planning			

- Visits can be viewed, edited or cancelled by the planner.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

ORACLE Complex MRO

Unit Maintenance Plan | **Visit Work Package** | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | **Auto Visit Planning**

Visits

Logged In As: TSMITH

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Update Visit
* Indicates required field

Schedule

☐ Hide Visit Details

Visit Number	1519	Visit Name	Auto-Visit-1519
Unit	RRUC1	Visit Type	RR_TEST_AVF
Item	RRSrCtTrk	Serial Number	RR1000
Organization	San Francisco Maintenance Center US	Department	Engine Shop, SFM
Start Date	24-Jul-2013 15:00:00	End Date	25-Jul-2013 01:00:00
Planned End Date	25-Jul-2013 01:00:00	Due By Date	1519 - Auto-Visit-1519
Visit Status	Planning	Work Order Number	1519 - Auto-Visit-1519
Past Dated Visit	No	Build Goal Set up	No

Details | Visit Tasks | Task Dependencies | Stages | Maintenance Requirements | Material Requirements | Repair Workscope

Additional Header Details

Sub Inventory		Physical Locator	
Service Request		Service Category	
Project Template	AHL Aircraft Commercial US	Project	
Priority		<input type="checkbox"/> Firm visit	<input checked="" type="checkbox"/> Lock visit
Cost/Price		Work Card Progress	
Description			
Item Owner	Business World	<input type="checkbox"/> Flag Item Owner	

Assign Spaces

Space	Start from End on Remove
No results found.	

The planner must select the Firm Visit or Lock Visit check boxes to prevent the auto planning process from possibly canceling the visits during further Auto Visit Planning processing.

- The planner can manually create visits for complex assemblies to represent the non-routine removals and the customer estimated repairs.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Create (B) > Create Visit

The planner can optionally schedule real units or set up dummy units to model organizational capacity analysis and planning.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Create (B) > Create Visit

4. Visits can be individually scheduled by navigating to the Planning Workbench.

Navigation: Planning > Visit Work Package > Visits > Organization Schedule

Planning Workbench

Apply Revert Cancel

Visit Details

Visit **364** Visit Status **Planning** Unit **CAMP-MDUC02A**
 Organization **San Francisco Maintenance** Department **Line Maintenance, SFM** Space **Component**
 Scheduled Start Date **02-Apr-2012 02:57:00** Scheduled End Date **23-Apr-2012 02:58:38** Visit Type **Repair**

Maintenance Schedule

Organization Schedule

Search Organization Schedule

* Organization **San Francisco Maintenance** Department **Line Maintenance, SFM**
 Start From **02-Apr-2012** Start Before
 Visit Number Space
 Selected 'Visit number' will only be used to default other search fields. 'Start Before' date is ignored when 'Start From' date is provided.
 Go Clear Display Days Window **21**

Start Day | Start Week Filter By All Go End Week End Day

Department	Space	[02-Apr]	[03-Apr]	[04-Apr]	[05-Apr]	[06-Apr]	[07-Apr]	[08-Apr]	[09-Apr]	[10-Apr]	[11-Apr]	[12-Apr]	[13-Apr]	[14-Apr]	[15-Apr]	[16-Apr]
Line Maintenance, SFM Gate 10																
Line Maintenance, SFM HANGAR 01																
Line Maintenance, SFM Hangar_04																
Line Maintenance, SFM SFO, Ramp 1																
Line Maintenance, SFM SFO, Ramp 2																
Line Maintenance, SFM Spot 01																
Line Maintenance, SFM																

The planner can validate organization start and end dates, department for the visit, and can also add a space assignment in the context of the organization and other visits that have been created.

Date conflicts will be identified by specific icons and can be resolved by adjusting the visit start and end dates and times, and by adjusting department and space assignments.

5. The space assignment for the visit can be updated in the Visit Details section of the Update Visit UI.

Navigation: Planning > Visit Work Package > Search Visits > Update Visit

The visit may occupy multiple spaces during the scheduled duration of the visit.

Important: Do not leave any gaps between spaces.

Update Visit

* Indicates required field

[Hide Visit Details](#)

Cancel Revert Background Push to Production (Jobs Released) Go Apply

Visit Number 55

Unit C70-1, SN 311, Tail # VA521

Item C70-1

* Organization San Francisco Maintenance

* Start Date 04-Mar-2012 11:01:00
(example: 25-Mar-2013 19:45:00)

* Planned End Date 03-Mar-2013 11:01:00
(example: 25-Mar-2013 19:45:00)

Visit Status Planning

Past Dated Visit Yes

* Visit Name test

Visit Type Component Overhaul

Serial Number 311

* Department Base Maintenance, SFM

End Date 04-Mar-2013 11:01:00

Due By Date 19-May-2013 00:00:00

Work Order Number 55 - test

Build Goal Set up No

Details Visit Tasks Task Dependencies Stages Maintenance Requirements Material Requirements Repair Workscope

Additional Header Details

Sub Inventory

Service Request

Project Template AHLT1202463224

Priority

Cost/Price

Description

Physical Locator

Service Category

Project

☐ Firm visit ☐ Lock visit

Work Card Progress

Item Owner General Technologies

☐ Flag Item Owner

Assign Spaces

Space Start from End on Remove

No results found.

Add Another Space

Note: Auto Visit Planning will not assign a space during visit creation.

5. Analyze resource and facility availability, including in-sourcing opportunities and outsourcing requirements.

1. The planner can navigate directly to the Planning Workbench to evaluate the visit forecast at the maintenance organization level and not just in the context of a single visit.

Navigation: Planning > Planning Workbench > Planning Workbench

2. The planner can view the organization schedule over a period of time.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Enter values for Department, Space, Visit and Display Days Window to filter the Organization Schedule table results.

Maintenance Schedule

Unit Down Times | **Organization Schedule** | Fleet Schedule

Search Organization Schedule

* Organization: San Francisco Maintenance
 Start From: 01-Jan-2013
 Visit Number:
 Department:
 Start Before:
 Space:
 Display Days Window: 14

Go Clear

Start Day | Start Week | Filter By: All | Go | End Week | End Day | Previous | 1-10 of

Department	Space	[01-Jan]	[02-Jan]	[03-Jan]	[04-Jan]	[05-Jan]	[06-Jan]	[07-Jan]	[08-Jan]	[09-Jan]	[10-Jan]	[11-Jan]	[12-Jan]
76 - F16 Repair													
76-F100 Repair													
AR department													
BASE Maintenance Department for MARS													
BASE Maintenance Department, SFM													
Base Maintenance, SFM-B	SFO, Hangar 1, Bay 1												
Base Maintenance, SFM-B	SFO, Hangar 1, Bay 2												
Base Maintenance, SFM-B													
Calibration Lab, SFM	SFO, Cal Lab 1												
Calibration Lab, SFM													

Start Day | Start Week | Filter By: All | Go | End Week | End Day | Previous | 1-10 of

- The planner can click in the table to view the applicable visits for that day.

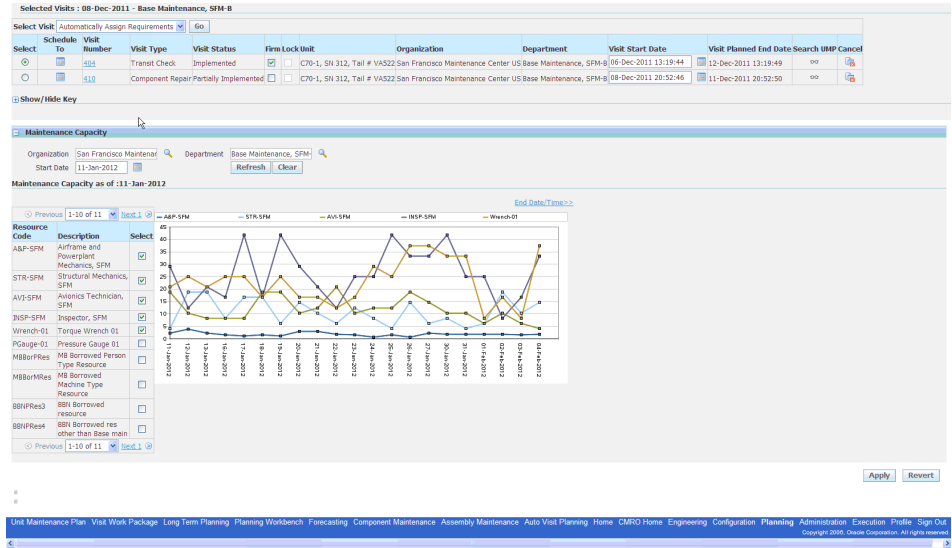
Selected Visits : 05-Apr-2012 - Line Maintenance, SFM HANGAR 01

Visit Select Number	Visit Type	Visit Status	Firm	Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date
295	SS_P100_A_CHECK	Planning	<input type="checkbox"/>	<input type="checkbox"/>	SS_P100_7777	San Francisco Maintenance Center US	Line Maintenance, SFM	02-Apr-2012 16:46:00	07-Apr-2012 16:46:00
394	SS_P100_A_CHECK	Implemented	<input type="checkbox"/>	<input type="checkbox"/>	SS_P100_7111	San Francisco Maintenance Center US	Line Maintenance, SFM	05-Apr-2012 10:48:33	07-Apr-2012 09:51:04

The planner can edit key visit criteria, such as visit start date and Firmed visit flag. The planner can also cancel the visit.

- The planner can evaluate the resource capacity for an organization and department.

The planner can select a visit in which to base the organization and department, or they can be manually selected. Up to five resources can be selected and compared on the graph at one time. The planner can then adjust the visit start dates and refresh the capacity graph to see the impact.



6. Analyze the supply chain plan in ASCP and costs in Demantra.

Navigation: Oracle ASCP and Oracle Demantra

The planner will work with the inventory planning group to evaluate the costs of the visit.

7. Refine and possibly recreate the maintenance visit forecast using Auto Visit Planning or manually in AMP.

- Based on the fleet availability analysis and the supply chain plan, the planner can interact and edit key visit criteria, such as the visit start date and Firm check box.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

The planner can also cancel a visit.

- The planner can create a new request (or copy and edit an existing request), prior to submittal for processing.

Navigation: Planning > Auto Visit Planning > Primary Visit Requests > Search Primary Visit Requests > Create (B) > Create Primary Visit Request

The planner can cancel any un-firmed visits or create new primary MR based visits.

- The planner can view visits that have been created by Auto Visit Planning in VWP.

Navigation: Planning > Visit Work Package > Search Visits

The visit name will be prefixed by 'Auto-Visit' and can be searched using a wildcard in the criteria. The planner can also search for visits that have been manually created through VWP.

- The planner can navigate directly to the Planning Workbench to evaluate the visit forecast at the maintenance organization level and not just in the context of a single visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Search for a visit > Select Schedule from the Select Visits drop-down > Go > Organization Schedule

21.2. Major Task - Manage the complex assembly visit plan:

Task Description: The planner will manage the complex assembly visit plan by creating and scheduling repair visits, defining repair work scopes and reviewing the facility, resource and material requirements. The planner may also schedule the removal and replacement from the next higher assembly (NHA).

1. Transition from a visit forecast to a visit plan for the repair of complex assemblies.
 - The planner will search for existing complex assembly repair visits during the planning window, which were created for the heavy maintenance visit forecast, and are ready to transition to the heavy maintenance visit plan.

Navigation: Planning > Visit Work Package > Visits > Search Visits

- The planner will confirm that the visits are firmed or locked in the VMP to prevent them from being canceled by the Auto Visit Planning process.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

- The planner can also firm the visits in the Planning Workbench and by searching for visits based on the flight schedule for the unit and updating the firmed flag in the selected visits results.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Down Times > Search Unit Schedule

The planner can also navigate from the Planning Workbench to VWP in the context of a visit to update the firmed or locked indicators.

Maintenance Schedule

Unit Down Times | **Organization Schedule** | Fleet Schedule

Search Unit Schedule

Arrival Organization: San Francisco Maintenance
 Department: Base Maintenance, SFM-B
 Arrival From: 11-Mar-2012 00:00:00
 Service Category >=: Category 1

Fleet:
 Unit:
 Departure To:
 Minimum Duration: UOM:

Advanced Search

Go Clear

Select Unit Downtime: View Organization Schedule Go Previous 1-10 of 28 Next

Show All Details Hide All Details

Select Details	Create Visit	Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Se
<input type="radio"/>	<input type="checkbox"/>	SS_P100 S/N 111	999	San Francisco Maintenance Center US	Base Maintenance, SFM-B	1	01-Apr-2012 22:30:00		19.5	Hours	1000	DFW Maintenance 2012 Center US	02-Apr-2012 18:00:00		

Visit

Select Visit: Automatically Assign Requirements Go

Select	Schedule To	Visit Number	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Space	Firm	Lock	AOG	Cancel
<input type="radio"/>	<input type="checkbox"/>	253	SS_P100_A_CHECK	Planning	01-Apr-2012 22:30:00	02-Apr-2012 10:00:00		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="checkbox"/>	254	SS_P100-_TRANSIT	Planning	02-Apr-2012 16:00:00	02-Apr-2012 18:01:00		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- The planner can also search for visits to edit in the Organization Schedule tab.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

The visits displayed will include both the planned removal visits of complex assemblies from their host next higher assembly (NHA) and the planned repair visits.

Maintenance Schedule

Unit Down Times | **Organization Schedule** | Fleet Schedule

Search Organization Schedule

* Organization: San Francisco Maintenance
 Start From: 01-Apr-2012
 Visit Number:
 Department:
 Start Before:
 Space:
 Display Days Window: 14

Go Clear

Start Day | Start Week | Filter By: All Go End Week | End Day Previous 1-1

Department	Space	[01-Apr]	[02-Apr]	[03-Apr]	[04-Apr]	[05-Apr]	[06-Apr]	[07-Apr]	[08-Apr]	[09-Apr]	[10-Apr]	[11-Apr]	[12-Apr]
76 - F16 Repair													
76-F100 Repair													
AR department													
BASE Maintenance Department for MARS													
BASE Maintenance Department, SFM													
Base Maintenance, SFM-B	SFO, Hangar 1, Bay 1												
Base Maintenance, SFM-B	SFO, Hangar 1, Bay 2												
Base Maintenance, SFM-B													
Calibration Lab, SFM	SFO, Cal Lab 1												
Calibration Lab, SFM													

Start Day | Start Week | Filter By: All Go End Week | End Day Previous 1-1

- Identify demand for the repair of a complex assembly.
 - The planner can view demand that has been requested by ASCP. This demand has been requested above and beyond the current planned repair of complex assemblies.

Navigation: Planning > Assembly Maintenance > Repair Forecast > Search Repair Forecast

Search Repair Forecast

Simple Search

Organization: San Francisco Maintenance
 Item:
 Item Description:
 Item Type:
 From Date: 25-Mar-2013
 To Date: 25-Sep-2013

Go Clear

Search Result from 25-Mar-2013 to 25-Sep-2013

Details	Item	Item Description	Item Type	Organization	Requested Quantity	Planned Quantity	Scheduled Quantity
Show	F100PW200 Pratt and Whitney F100 Engine Rebuildable	San Francisco Maintenance Center US			2	0	0

- The planner can use the Materials Management workbench to identify visit based material requirements that should be fulfilled by the repair of an unserviceable complex assembly.

Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

Work Order Material Demand

Show Icon Legend

Search

Organization:
 Item:
 Department:
 Work Order Number:
 Operation Sequence:
 Visit Number:
 Owner:
 Priority:
 Scheduled Start: 25-Mar-2013
 Scheduled End:
 Show material with reserved Items: AOG
 Show material with AOG:
 Show material with E:
 Go Clear

Select Requirement: Schedule Material Requirement Go Apply

Select	View Max Counter	Item	Organization	Department	Work Order Number	Op Seq	Visit Goal	Owner	Required AOG Quantity	Reserved Quantity	Issued Quantity	Shipped Quantity	Locator Available	Visit Available	Required Date	Avail Date
758R990G01	San Francisco Maintenance Center US	Line Maintenance, SFM	SFMPW0146402	10	638	Business World	14								29-Mar-2013	

The planner can create reservations against existing repair visits as a source of supply to fulfill material requirements in remove and replace visits.

- The planner can receive input from external sources, such as a reliability or engineering group, that a complex assembly will require repair.

A work scope may be created by these external groups then transitioned to a planner to finalize.

- The planner can receive a requested return date for the repair of a customer unit based.
- The planner can also directly create supply without a specific demand by

planning for the repair of an unserviceable unit that is located in an unserviceable inventory.

Navigation: Planning > Assembly Maintenance > Repair Forecast > Search Repair Forecast > Search Supply Items

Search Supply for Item 758R990G01

Inventory

Existing Reservations

Work Orders

Search Inventory Onhand

Serial Number

* Search Organization

Sub Inventory

Go

Clear

Locator

Owner

Search material with reserved items

☐ Include Build Goal hard limits

☐ Include Build Goal soft limits

☐ Show Alternate Items

Select Organization Onhand:

Create Reservation

Go

Select All

Select None

Select	Counters	Item	Instance Number	Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order Number	Status	Is Shipped	Move Order Number	Status
<input type="checkbox"/>	00	758R990G01	3004064	100	UNSERV	1.1.10..	Vision Corporation						
<input type="checkbox"/>	00	758R990G01	3004140	2	VISIT_01	5.5.1..	Vision Corporation	SFMPW0142361					

3. Identify units that require or are available for complex assembly repair.

- The planner can use the Planning Workbench to search the unit maintenance plan for outstanding unit effectivities that require accomplishment through a complex assembly repair visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

Search by Fleet, Unit, Program Type, Subtype, Due From or Due Within to filter criteria.

Maintenance requirement tolerance criteria and MEL and CDL considerations may also impact the due dates.

This workbench provides the best method to identify a requirement for a unit and assign it to or create a visit in which to resolve it.

- The planner can also search the unit maintenance plan for outstanding unit effectivities that require accomplishment through a complex assembly repair visit.

Search by Fleet, Unit, Program Type and Subtype to filter criteria.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

- The planner can search the system for units requiring advanced scheduling for planned repair.

Navigation: Planning > Assembly Maintenance > Repair Forecast > Search Repair Forecast > Search Supply Items

The planner may receive inputs on the specifics units that require repair. The planner can also search for units that are approaching soft life limits.

- The planner can also search for complex assemblies that are located in an unserviceable inventory.

This can include both owner and customer complex assemblies.

Navigation: Planning > Assembly Maintenance > Repair Forecast > Search Repair Forecast > Search Supply Items

4. Coordinate the removal and possibly replacement of the assembly from the next higher assembly (NHA).

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- The planner can create a removal non-routine from the host next higher assembly (NHA) using the complex assembly workbench.

Navigation: Planning > Assembly Maintenance > Repair Forecast > Search Repair Forecast > Search Supply Items

Creating a non-routine directly from the workbench will default a removal non-routine type.

- The planner can then update the non-routine to define the resolution criteria date and also initiate it.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

The non-routine MR can then be used as the basis to create a new visit and replace the complex assembly. The non-routine can also be added to an existing visit.

- The planner can search for existing visits in the VWP UI in which to schedule the removal and replacement non-routine.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Search Non-Routines > Update Non-routine

If a visit is not available, a new visit can be created for the removal and replacement.

Navigation: Planning > Unit Maintenance Plan > Non-routines > Search Non-Routines > Create Non-routine

The planner can coordinate with the maintenance controller for short-term planning.

- The planner can search for existing visits during unit down times in the Planning Workbench in which to schedule the removal and replacement non-routine.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Downtimes

If a visit is not available, a new visit can be created for the removal and replacement. The planner may coordinate with the maintenance controller for short term planning.

Search Supply Items

* Item Condition * From Scheduled end date
 Unit Earliest due from * To Scheduled end date
 Serial Number Earliest due to Filter by
 Instance Number ☐ Have Non Routine due > Assembly due

Search by Location

Organization Master Configuration ☒ In Inventory
 Sub Inventory Next Higher Assembly ☒ On Configuration
 Locator Position ☐ In Repair
☐ Out Of Enterprise

Elapsed Counters <

Select Details Unit	Serial Number	Master Instance Configuration	Condition	Organization	Inventory	Locator	Visit Assembly	Next Higher Position	Earliest Assembly Due	Non Routine Number	Due Date	View Maintenance Plan
No search conducted.												

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

- The planner can search for existing visits in the details section in the complex assembly workbench results rows table.

Navigation: Planning > Assembly Maintenance > Repair Forecast > Search Repair Forecast > Search Supply Items

Search Supply Items

* Item Condition * From Scheduled end date
 Unit Earliest due from * To Scheduled end date
 Serial Number Earliest due to Filter by
 Instance Number ☐ Have Non Routine due > Assembly due

Search by Location

Organization Master Configuration ☒ In Inventory
 Sub Inventory Next Higher Assembly ☒ On Configuration
 Locator Position ☐ In Repair
☐ Out Of Enterprise

Elapsed Counters <

Select Unit :

Show All Details | Hide All Details

Select Details Unit	Serial Number	Master Instance Configuration	Condition	Organization	Inventory	Locator	Visit Assembly	Next Higher Position	Earliest Assembly Due	Non Routine Number	Due Date	View Maintenance Plan
<input checked="" type="checkbox"/> Show E86-1, 789383	789383	3078041	E86-1 Jet Engine				N398AV - A320	72-02, #2 Engine				sg

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

If an existing visit has been created for the next higher assembly (NHA), it will be shown here.

- The planner can update the existing visit to add the removal non-routine.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

5. Create, define, and schedule the complex assembly repair visits.

- The planner can create a repair visit for the complex assembly directly in the assembly maintenance workbench in the context of the unit.

Navigation: Planning > Assembly Maintenance > Repair Forecast > Search Repair Forecast > Search Supply Items

- The planner can also create a new visit in the VWP UI by clicking the **Create** button.

Navigation: Planning > Visit Work Package > Visits > Search Visits

- The planner can also create visits within the AMP workbench.

A new visit can be created in the context of a unit effectivity that is displayed in the Unit Maintenance Plan search results.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan > Search

- The planners can then search and view all the visits in the complex assembly maintenance plan window.

Navigation: Planning > Visit Work Package > Visits > Search Visits

The planner can then further refine the visit schedule by editing the visits directly or using the Planning Workbench to search and edit the visits in the context of the organization.

- The planner can select an individual visit and adjust the visit start dates and times.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

- The planner can also search for visits using the Planning Workbench, Organization Schedule tab.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

The planner can select an individual visit and adjust visit start dates and times. This workbench is the best tool to search for and refine the visit schedule for an organization, department and space because all visits appear.

6. Set and refine visit work scopes while evaluating material requirements, resource and facility availability.

- The planner will then create and refine the workscope based on the required maintenance that is due or being scheduled for the visit.

Navigation: Planning > Visit Work Package > Visits > Search Visits

The planner can update the visit workscope directly, use the Planning Workbench to search for and add individual requirements to a visit or the planner can search the unit maintenance plan for open requirements and then search for visits that are available to accomplish them.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- If the planner directly updates the visit work scope, then they can add planned and unplanned maintenance requirements to the visit.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit > Maintenance Requirements

- The planner will add planned requirements from the Unit Maintenance Plan.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit > Maintenance Requirements > Select Add Planned Requirement from the drop-down > Go > Search Unit Maintenance Plan

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits Logged In As TSMITH

Search Unit Maintenance Plan

Unit Name C70-1, SN 311, Tail # VAE Search For All
 Item C70-1 Serial Number 311
 Alternate Item Group
 Sort by Due Date
 Title
 Non Routine Type
 Due from
 On Wing
 Service Category Category 1
☒ Show Dependent Components
☐ Show Replicate
 Go Clear

Status Unscheduled
 Program Type
 Non Routine Num
 Due to
 Implement Status
☐ Include Tolerance Dates

+ against Version denotes the Maintenance Requirement version is not latest or the version is terminated

Select	Program	Title	Version	Item	Serial	UOM	Remain	Cnt	Earlier	Due	Latest	Tolerance	Status	Sched.	Visit	Originator	Dependent	Trigger	Deferred	Deferred	Build	Manually
Type					Num			Name	Due	Date	Date			Date		Title	Title	Type	From	To	Goal %	Planned
No records were found matching the given criteria..																						

Cancel

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

- The planner will add unplanned requirements from the Fleet Maintenance Program.

Navigation: Planning > Visit Work Package > Visits> Search Visits > Update Visit > Maintenance Requirements > Select Add Unplanned Requirement from the drop-down > Go > Search Maintenance Requirements

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Visits Logged In As TSMITH

Search Maintenance Requirements

Title
 Originating Document
 Program Type
 Program Subtype
 Category
 Unit C70-1, SN 311, Tail # VA521
 Associated Item C70-1
 Alternate Item Group
 Instance Number 644123
 Warranty Template
 Service Category Category 1
 Go Clear

Revision
 Status Complete
 Parent Title
 Route Type
 Description
 Route Number
 Serial Number 311
 On Wing
☐ Show Accomplished Requirements
☐ Show Dependent Components

Associate To Visit Associate To Visit(Default Department) Cancel

Select	Title	Revision	Description	Program	Warranty	Template	Effective	From	Effective	To	Associated	Item	Serial	Number	Unit	Instance	Number	Qty	UOM	Actual	Qty
No records were found matching the given criteria..																					

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

- The planner can evaluate the material requirements for the visit in the Material Requirements tab.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit > Material Requirements

The planner can reserve items by selecting Reserve Items from the Select Material Requirement drop-down, clicking the Go button, and navigating to

the Materials Management workbench.

Update Visit

* Indicates required field

Cancel

Revert

Close

Go

Apply

Hide Visit Details

Visit Number310

UnitRRUC1

ItemRRSrCtrTrk

OrganizationSan Francisco Maintenance Center US

* Start Date01-Apr-2012 00:00:00

* Planned End Date30-Apr-2012 00:00:00

Visit StatusImplemented

Past Dated VisitNo

Visit NameRR_test_Task_dependencies

Visit TypeEngine Overhaul

Serial NumberRR1000

DepartmentEngine Shop, SFM

End Date30-Apr-2012 00:00:00

Due By Date

Work Order Number310 - RR_test_Task_dependencies

Build Goal Set upNo

Details

Visit Tasks

Task Dependencies

Stages

Maintenance Requirements

Material Requirements

Repair Workscope

Task

Item

Replace % >=

Rework % >=

Go

Clear

☐ View only requirements with exception dates

Materials

Select Material Requirement

Reserve Items

Go

Position	Sub	Item	Item	For Task	Task	Task	Schedule	Required	Reserved	Exception	Available
Select Path	Configuration	Group	Item	Description	Task Type	Status	Required Date	Quantity	Quantity	Quantity	UOM Date
			75HPT 75484-S	Assy, Turbine, HP	7 Unplanned	In Shop Floor	01-Apr-2012 (example: 24-Apr-2013)	3	3		Each 20-Jun-2012
			RRSrCtrTrk	RR serial tracked items	9 Unplanned	In Shop Floor	01-Apr-2012 (example: 24-Apr-2013)	1	1		Each 20-Jun-2012
			RRSrLocCtrTrk	Locator controlled serial item	9 Unplanned	In Shop Floor	01-Apr-2012 (example: 24-Apr-2013)	1	1		Each 20-Jun-2012

- When new maintenance requirements are added to a visit, the planner can run the Update Material Requirements procedure.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit > Material Requirements

This process will update the Material Requirements tab.

- Visits may be individually evaluated for resource and facility availability by navigating to the AMP Workbench using the Schedule action in the Visit Details.

3-222 Oracle Complex Maintenance, Repair, and Overhaul Process Guide

ORACLE® Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Visits

Update Visit

* Indicates required field

Cancel Revert Schedule Go Apply

Hide Visit Details

Visit Number 310
Unit RRUC1
Item RRSrCtrTrk
Organization San Francisco Maintenance Center US
* Start Date 01-Apr-2012 00:00:00
* Planned End Date 30-Apr-2012 00:00:00
Visit Status Implemented
Past Dated Visit No

Visit Name RR_test_Task_dependencies
Visit Type Engine Overhaul
Serial Number RR1000
Department Engine Shop, SFM
End Date 30-Apr-2012 00:00:00
Due By Date
Work Order Number 310 - RR_test_Task_dependencies
Build Goal Set up No

Details | Visit Tasks | Task Dependencies | Stages | Maintenance Requirements | Material Requirements | Repair Workscope

Additional Header Details

Sub Inventory
Service Request
Project Template AHLT1202463224
Priority
Cost/Price
Description
Item Owner Business World

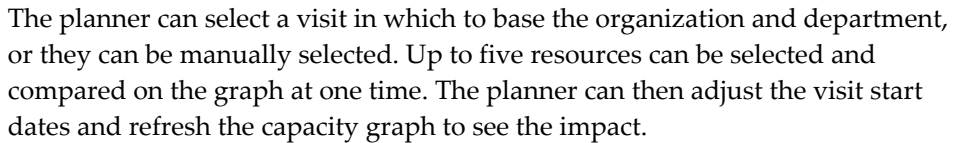
Physical Locator
Service Category
Project
Work Card Progress
Lock visit
Flag Item Owner

The planner can validate the Organization, Start and End Date, Department for the visit, and add a Space assignment in the context of the organization and other visits that have been created.

Date conflicts will be identified by specific icons and can be resolved by adjusting visit start and end dates and times, and by adjusting Department and Space assignments.

- The planner can also evaluate the resource capacity for an organization and department.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan > Maintenance Capacity



- Navigation:** Planning > Visit Work Package > Visits > Search Visits > Select Schedule action > Go > Planning Workbench

The screenshot displays the 'Planning Workbench' interface. At the top, there are tabs for 'Unit Maintenance Plan', 'Visit Work Package', 'Planning Workbench', 'Fleet Forecasting', 'Component Maintenance', 'Assembly Maintenance', and 'Auto Visit Planning'. The 'Planning Workbench' tab is active. Below the tabs, there's a 'Visits' section with a search bar and a 'Logged In As' field showing 'TSMITH'. The 'Visit Details' section shows fields for Visit (310), Organization (San Francisco Maintenance), Scheduled Start Date (01-Apr-2012 00:00:00), Visit Status (Implemented), Department (Engine Shop, SFM), Scheduled End Date (30-Apr-2012 00:00:00), Unit Space (RRUC1), and Visit Type (Engine Overhaul). Below this is the 'Maintenance Schedule' section, which includes a 'Search Organization Schedule' form. This form has fields for Organization (San Francisco Maintenance), Start From (01-Apr-2012), Visit Number, Department (Engine Shop, SFM), Start Before, Space, and Display Days Window (21). There are 'Go' and 'Clear' buttons. At the bottom, there's a table with columns for 'Start Day', 'Start Week', 'Filter By', 'All', 'Go', 'End Week', and 'End Day'. The table rows list various departments and spaces, including 'Engine Shop, SFM ENGINE SHOP 1', 'Engine Shop, SFM Eng_Shop_01', 'Engine Shop, SFM Eng_Shop_03', 'Engine Shop, SFM Eng_shop_02', and 'Engine Shop, SFM KM_DEMO_SPACE_001'. The table cells contain dates from 01-Apr to 14-Apr.

7. Analyze in-sourcing opportunities for organizations and departments.

- The planner can identify openings in an organization schedule for in-sourcing opportunities.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

- The planner can create visits in which to hold production positions for customer complex assembly visits based on the anticipated visit type.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule > Click in table > Create Visit

21.3. Major Task - Support in-process and next due complex assembly visits:

Task Description: The planner will coordinate with other users to manage the units that are next due or currently in production.

Prerequisites

Create complex assembly visits.

1. Manage current aircraft heavy maintenance visits.

- The planner can edit the work scope of a visit in planning or in production.

The planner will search for the visit and then add additional maintenance requirements in the Visit details section.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update

Visit

- The planner can also add visit requirements from the Planning Workbench.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

- The planner can monitor the visit schedules and adjust visits that are creating scheduling conflicts using the Planning Workbench.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

2. Refine the schedule for the next due aircraft heavy maintenance visits.

- The planner will monitor visit progress of current visits and push next due visits to production when planning has finished.

The planner can search for visits and then release them directly from the search results.

Navigation: Planning > Visit Work Package > Visits > Search Visits

- The planner can also push a next due visit to production from the visit details on the Update Visit page.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Update Visit

- The planner can also push a next due visit to production from the Unit Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Downtimes

Maintenance Schedule

Unit Down Times | Organization Schedule | Fleet Schedule

Search Unit Schedule

Arrival Organization: San Francisco Maintenance
 Department:
 Arrival From: 12-Jan-2011 07:21:02
 Service Category: >=

Fleet:
 Unit:
 Departure To:
 Minimum Duration: UCM

Advanced Search

Go Clear

Select Unit DownTime: View Organization Schedule Go

Previous 1-10 of 17 Next 7

Show All Details Hide All Details

Select	Details	Create Visit	Unit	Arrival Right	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UCM	Departure Right	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/>			AMP-UC003	FL003	San Francisco Maintenance Center US	Line Maintenance, SPM		12-Jul-2011 14:00:00								oo

Visit

Select Visit Automatically Assign Requirements Go

Select To Number Visit Type Visit Status Visit Start Date Visit Planned End Date Visit Space Firm Lock Cancel

<input type="radio"/>		55	Component Repair Planning		13-Jul-2011 00:00:00	30-Jul-2011 21:21:06										oo
<input type="radio"/>		52	Component Repair Planning		02-Aug-2011 05:14:00	20-Aug-2011 05:14:00										oo

		MBUC1	FL002	San Francisco Maintenance Center US	Line Maintenance, SPM		14-Jul-2011 15:00:00									oo
		AMP-UC006	AMP-FL001	San Francisco Maintenance Center US	Engine Shop, SPM	2	16-Sep-2011 10:00:00									oo
		AMP-UC002	FS002	San Francisco Maintenance Center US	Base Maintenance, SPM-B		16-Sep-2011 11:00:00		233	Hours	FS001	JFK Maintenance Center US	26-Sep-2011 04:00:00			oo
		AMP-FC003	AMP-FC003	San Francisco Maintenance Center US	Engine Shop, SPM	2	29-Sep-2011 12:00:00		72	Hours	AMP-FG004	JFK Maintenance Center US	02-Oct-2011 12:00:00			oo
		SR-AMP-UC002	FS003	San Francisco Maintenance Center US	Engine Shop, SPM	2	30-Sep-2011 04:00:00		70	Hours	FS002	JFK Maintenance Center US	03-Oct-2011 02:00:00			oo
		AMP-UC002	FS002	San Francisco Maintenance Center US	Base Maintenance, SPM-B		01-Oct-2011 11:00:00									oo
		KM-AMP-UC004	KM-FL001	San Francisco Maintenance Center US	Engine Shop, SPM	2	02-Oct-2011 21:00:00		34	Hours	KM-FL002	JFK Maintenance Center US	04-Oct-2011 07:00:00			oo
		SR-AMP-UC002	FS003	San Francisco Maintenance Center US	Engine Shop, SPM	2	06-Oct-2011 03:00:00		46	Hours	FS004	JFK Maintenance Center US	08-Oct-2011 01:00:00			oo
		AMP-FC003	AMP-FC003	San Francisco Maintenance Center US	Engine Shop, SPM	2	10-Oct-2011 14:00:00									oo

Select Unit DownTime: View Organization Schedule Go

Previous 1-10 of 17 Next 7

Maintenance Capacity

Apply Revert

- The planner can also push a next due visit to production from the Organization Schedule view, in the context of a visit.

Navigation: Planning > Planning Workbench > Planning Workbench > Organization Schedule

Unit Down Times | Organization Schedule | Fleet Schedule

Search Organization Schedule

* Organization: San Francisco Maintenance
 Start From: 01-Jan-2012
 Visit Number:
 Department:
 Start Before:
 Space:
 Display Days Window: 14

Go Clear

Selected Visit number will be used only to default other search fields.

Start Day | Start Week | Filter By: All | Go | End Week | End Day

Department: BASE Maintenance Department, SPM
 Space: [01-Jan] [02-Jan] [03-Jan] [04-Jan] [05-Jan] [06-Jan] [07-Jan] [08-Jan] [09-Jan] [10-Jan] [11-Jan] [12-Jan] [13-Jan] [14-Jan]

Base Maintenance, SPM	SFO, Hangar 1, Bay 1															
Base Maintenance, SPM	SFO, Hangar 1, Bay 2															
Base Maintenance, SPM																
Calibration Lab, SPM	SFO, Cal Lab 1															
Calibration Lab, SPM																
Component Shop, SPM																
Component Shop, SPM																
Engine Shop, SPM	SFO, Eng Shop 1															
Engine Shop, SPM	SFO, Eng Shop 2															

Start Day | Start Week | Filter By: All | Go | End Week | End Day

Previous 1-10 of 16 Next 6

Selected Visits : 01-Jan-2012 - Base Maintenance, SPM

Select	Details	Visit Number	Visit Type	Visit Status	Firm Lock	Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOG Search	UMP	Cancel
<input type="radio"/>		26	Engine Overhaul/Implemented		<input type="checkbox"/>	C70-1, SN 312, Tail # V4532	San Francisco Maintenance Center US	Base Maintenance, SPM	09-Sep-2011 02:00:00	13-Dec-2012 07:43:52		oo	
<input type="radio"/>		28	Engine Overhaul/Partially Implemented		<input type="checkbox"/>	C70-3, SN 511, Tail # V4761	San Francisco Maintenance Center US	Base Maintenance, SPM	09-Sep-2011 06:22:00	09-Sep-2012 06:22:00		oo	

Role 22.0 - Shop Maintenance Supervisor

The responsibilities for this role revolve around component and complex assembly repair shops, ensuring that part repairs are performed on a timely basis and follow approved OEM information. The Shop Maintenance Supervisor will oversee and

coordinate all activities, related components, and final assembly scheduling according to requirement due dates or shop commitment. This role can oversee maintenance activities for owned parts and third-party repairs, and will balance shop capacities and capabilities against part repair demands or commitments. In addition, this role is accountable to ensure that all personnel are trained and qualified under assigned jobs.

Associated Major Business Types: Complex Assembly Maintenance, page 2-5

Component Shop, page 2-6

22.1. Major Task - Monitor workload:

Process: Work load analysis

- Oversee shops and assign job workload to personnel.
- Set up job priorities based upon parts demand.
- Set up communication channels with others parties for direct involvement on components repair activities.
- Manage personnel availability (vacation, sickness, training, and so on).

22.2. Major Task - Support job completions including in-progress technical support and RTS documentation:

- **Technical Assistance**
 - Provide technical assistance to engineering regarding investigations for time adjustments, maintenance program changes or alert conditions.
 - Take prompt action as appropriate on system and component corrective action programs.
 - Alert appropriate personnel regarding any significant problem or warning for investigation.
- **Post Maintenance Status**

Advise appropriate areas regarding the post configuration status of ETOPS, cabin seats layout, configuration limitations.
- **Documentation Review**

Review maintenance compliance documents for:

 - Appropriate sign-off.
 - Appropriate completion of attachments requested by engineering or vendors.

- Calibration of tools used on job performed (random checks).
- **Communication with Hangar Supervisors regarding:**
 - Overall aircraft maintenance.
 - Aircraft accessibility to perform special jobs such as sheet metals jobs, special inspections (NDTs, X rays, fuel tanks), composite materials.
- **Communication with Engineering Departments regarding:**
 - Non-routine MR issues.
 - Out of manuals repair findings.
 - Special requirements accomplishing follow up such as service bulletins (SBs), airworthiness directives (ADs), and Airworthiness Limitation Instructions (ALIs).
 - Special technician skills to perform certain jobs.
 - Vendor communications.
 - Findings to be reported to authorities or vendors.

22.3. Major Task - Manage personnel:

- Consider crew qualifications and training requirements.
- Oversee technician training program.
- Maintain attendance roster.

22.4. Coordinate workplace safety program and support equipment:

- Coordinate emergency corrective actions required as a result of a critical condition.
- Ensure that safe work conditions and tooling are available.

Role 23.0 - Shop Inspector

This role supports engine and component shops. Generally, shop inspectors are assigned to specific work tasks which require additional approval based on certified skills such as NDT requirements testing, boroscope inspections, parts sandblast repairs, and so on. Shop repairs may also require this role as a second approval before the job is completed. Shop inspectors are assigned to jobs which require items to be double

checked: RII (required inspection items) dimensions to be measured or compared among OEM data, items to be weighed, wear to be checked or special devices to be used, special components tests (hydrostatic tests), and so on. This role requires coordination within engine or component shop processes and personnel to guarantee the least interruption in shop progress. In most cases, inspection requirements are planned and scheduled as integral parts of the associated work performed by a shop technician, and the shop inspector follows this schedule to perform their duties. This role also plays a part in continuous improvement programs, collecting and recording information for specific analysis (for example, reliability programs, workplace safety programs, and so on).

In addition, shop inspectors should also coordinate with hangar and warehouse supervisors to provide feedback regarding ongoing check status and overall maintenance critical paths.

Associated Major Business Type: Component Shop, page 2-6

23.1. Major Task - Inspect jobs:

1. Perform the assigned jobs along with overall maintenance schedule.

Navigation: Complex MRO Technician > Technician > My Work Orders > Technician Workbench

The screenshot displays the 'My Work Orders' interface. At the top, it shows 'Update Work Orders' and a 'Show Job Legend' button. Below this is a table of work orders. The selected work order is SFM60314, described as 'VA-C70-53-340-00 Corrosion Prevention - Inspect Flight compartment floor structure'. The status is 'Released (1)'. The interface includes tabs for 'Details', 'Operations', 'Materials', 'Documents', 'Dependencies', and 'Warranty'. The 'Details' tab is active, showing fields for Number, Description, Scheduled Start Time, Scheduled End Time, All Operations Complete, Confirmed Failure, and Released Date. Below this is a 'Turnover Notes' section with a table for recording tasks, including columns for Date/Time, Employee, and Notes. The table contains two entries for Smith, Mr. Tom, dated 22-Sep-2011, with notes about status changes from 'Unreleased' to 'Released(1)' and from 'Draft' to 'Unreleased'.

The Technician Workbench UI is used to record tasks assigned to the Shop Inspector. Typically, data entry is performed through collection plans or enabled DFFs (boroscope inspection, table inspection results, damage found reports, part measurements, NDT test results, and so on).

On going job status, tagged components or systems and significant findings to be reported are followed by turn over notes.

OEM affected items job cards are enabled along with the Enigma integration to facilitate jobs to be completed based on approved data, items identifications and follow up findings reports.

AMM and IPC information is available for additional considerations or materials to be requested. In addition, work order functionality is available to record transactions associated to tasks assigned (material requirements, complete operation or work orders, deferred MRs when applicable, record resources transactions, and so on).

2. Navigate to the Create Non-routines page, by selecting Create Non-routine from the Search Work Order drop-down, and then clicking the Go button.

Navigation: Execution > Planning > Production Planning > Work Orders

Non-routine work orders from the Technician Workbench can be created to allow shop inspectors to raise unmoral conditions resulting from performed jobs. Requirements can be added for already created non-routines to complete raised findings. In addition, a quality collection plan (QCP) can be added to the resolution non-routine requirements, or DFFs can be enabled to record additional information that could be used for reliability analysis after the fact.

3. Two flows are outlined for shop inspectors in the complex assembly repair process:
 - **Assembly tear down:** Analyze the engineering definitions data.
 Assembly tear down could be used by shop inspectors to identify tasks to be added or instances to be inspected. The following items should be considered to assess the final assembly repair definition.
 - Monitor the instances which do not meet the build goal definitions and route those which do not meet overall RTS criteria.

- Monitor instance non-routines history or accomplished requirements for any repairs trends
- Update work scope based on instance warranties
- Monitor part check histories and analyze rogue parts trends.
- Create visit and initiate repairs for unit removed from configuration.
- Check position based requirements, SB effectivities, rework and replace-rework percentages by engineering definitions if any.
Route removed instances from dispositions and perform return transactions to either unserviceable sub inventories or scrap parts.
- Move parts to final repair visits.
- Add requirements when applicable.
- **Assembly build-up**
This task takes place during the complex assembly final stages and the following activities could be considered to meet the overall process.
 - Check BG status on issued instances prior to be installed to configuration position.
 - Check the configuration completeness status.
 - Check the installed instance warranty status.
 - Check the final configuration status.
 - Check the instance reservation status.
 - Monitor final unit configuration status.

23.2. Major Task - Job completion feedback:

Task Description: State the job completeness and report significant issues.

1. Technical experience and alert events area provided to engineering by data entering throughout raised non-routines CQP, DFFs, and turnover notes.

My Work Orders Logged In As: TSMTTH

Update Work Orders Cancel

Show Icon Legend

Select Work Order: Create Non-routine Go

Select	Number	Description	Start Date	Status	Complete Quality	Change Parts	Non-Routine	Task Card	Maintenance Requirement	Sign Off	Check Unit Complete
<input type="radio"/>	SFM60314	VA-C70-53-340-00 Corrosion Prevention - Inspect Flight compartment floor structure	22-Sep-2011 00:25:38	Released (1)					266 VA-C70-53-340-00	<input type="checkbox"/>	<input type="checkbox"/>

Details: SFM60314 Revert Apply

Details Operations Materials Documents Dependencies Warranty

Number: SFM60314
 Description: VA-C70-53-340-00 Corrosion Prevention - Inspect flight compartment floor structure
 Scheduled Start Time: 22-Sep-2011 00:25:38
 Scheduled End Time: 27-Sep-2011 00:27:48
 All Operations Complete: ☐
 Confirmed Failure: ☐
 Released Date: 22-Sep-2011 00:25:38

Status: Released(1)
 Hold Reason:
 Hold Reason is required when workorder is put on hold otherwise this value will be ignored.

Actual Start Time
 Actual End Time
 Completed Date
 Closed Date

Show Other Details

Turnover Notes

TIP Notes is a mandatory column and describes the work performed

Date/Time	Employee	Notes
22-Sep-2011 23:06:07	Smith, Mr. Tom	Status Change Event: Status changed from 'Unreleased' to 'Released(1)'.
22-Sep-2011 00:29:50	Smith, Mr. Tom	Status Change Event: Status changed from 'Draft' to 'Unreleased'.

Add Row

Cancel

Role 24.0 - Component Shop Planner

This role is focused on projecting the component repair forecast for a period that is greater than one year into the future, managing the component repair plan for a period of less than one year, and supporting the next due and currently in production repair of components. The component repair forecast will be created by evaluating:

- Life limit and soft limits.
- Optional and required component modifications including Service Bulletins and Airworthiness Directives.
- Historical analysis of non-routine removal rates and their associated repair dispositions.
- Input of customer planned and unplanned repair streams.
- Outsourcing requirements for third-party repair providers.

The forecast will be used to evaluate internal maintenance capacity and resource requirements, including facility, labor and materials. The planner will work with in-sourced customers to evaluate the impact of their planned and unplanned repair streams on the repair forecast, and provide third-party providers with the forecasted (operator) removal rates by component. The output will be a forecast which can be used to create a supply chain plan for internal and external repairs and to determine costs for budgeting. The planner will coordinate with multiple users (engineer, reliability engineer, fleet manager, inventory analyst, and so on) to create this forecast.

The planner can also create a simulated component repair forecast by evaluating the impact of different operational scenarios, which can involve different mixes of fleet types, number of aircraft, fleet utilization rates, aircraft ages, engineering effectivity, operating locations, or areas. The planner will also take into consideration various

scenarios from in-sourced customers and evaluate the impact of outsourcing to third-party repair providers. The output will be a component repair forecast that can be used to determine aircraft availability, maintenance capacity and resource requirements, and to evaluate in-sourcing opportunities and outsourcing requirements.

The planner will manage the component repair plan, which represents the transition from a forecast to a scheduled plan of repairs at the asset level. This plan includes the repair of serialized and non-serialized assets. The planner will create and schedule the repair of components both internally and externally, define and update the repair work scopes and review the resource requirements such as facility, labor and materials. The planner can resolve resource conflicts as the repair plans are updated, including coordinate the outsourcing to a third-party vendor and the in-sourcing of customer repairs. The planner can also coordinate the reservation of a completed item that is located in inventory or is currently under repair as a source of supply for a scheduled removal.

The planner can also coordinate with the Maintenance Control Center to schedule the removal and return of components from operational aircraft during scheduled maintenance visits. Typically, these removals and returns will be for modification programs related to reliability, Service Bulletins, or Airworthiness Directives. These modification programs will be reflected in visits being created against the host aircraft or next higher assembly (NHA) in which a removal and replacement visit can be scheduled. The components will then be routed to internal or external repair shops for processing.

The planner will coordinate with multiple users (engineer, marshaller, supervisor, inspector, technician, and so on) to manage the units that are next due or currently in production. Constraints for resource requirements, scrap rates, delays in processing, and so on, will be monitored and the complex assembly visit schedule can be updated as needed for an organization or department. The planner can manage the local inventory of materials required to repair the components, and will work with the inventory group to ensure that proper stocking levels are maintained. Customer visits will be scheduled and processed according to priority, contractual agreements, and resource availability.

Associated Major Business Type: Component Shop, page 2-6

Prerequisites

- ☐ You must perform the following setup tasks before you can create a component removal and repair forecast:

Prerequisite Setup Task	Role Performing Task	Navigation
1. Define AHL lookups for: <ul style="list-style-type: none"> • Visit Types • Service Category • Program Type • Program Subtype 	Engineering	Application Developer > Application > Lookups > Application Object Library
2. Define Visit Type profiles. <ul style="list-style-type: none"> • Define duration for the visit. 	Engineering	Administration > Visit Types
3. Define maintenance organization.	Engineering	Engineering > Fleet Maintenance Program > Overview > Update Maintenance Requirement > Maintenance Organizations
4. Define maintenance department and space capabilities. <ul style="list-style-type: none"> • Define the Max Service Category values. • Define department spaces. Define space capabilities by adding master configurations and visit types.	Engineering	Administration > Department Location > Create (B) Administration > Department Location > Edit Department Location Administration > Spaces

Prerequisite Setup Task	Role Performing Task	Navigation
5. Create master configurations, unit configurations, and product classifications.	Engineering	<p>Configuration > Master Configuration > Overview > Search Master Configuration > Create (B)</p> <p>Configuration > Unit Configuration > Search Unit > Search Unit Configuration > Create (B)</p> <p>Configuration > Product Classification > Overview > Search Product Classification > Create (B)</p>
6. Define department spaces. <ul style="list-style-type: none"> • Add the Master Configuration item and Visit Type. 	Engineering	Administration > Spaces > Search Spaces > Create (B)
7. Define primary fleets, unit composition and utilization.	Engineering	Planning > Fleet Forecasting

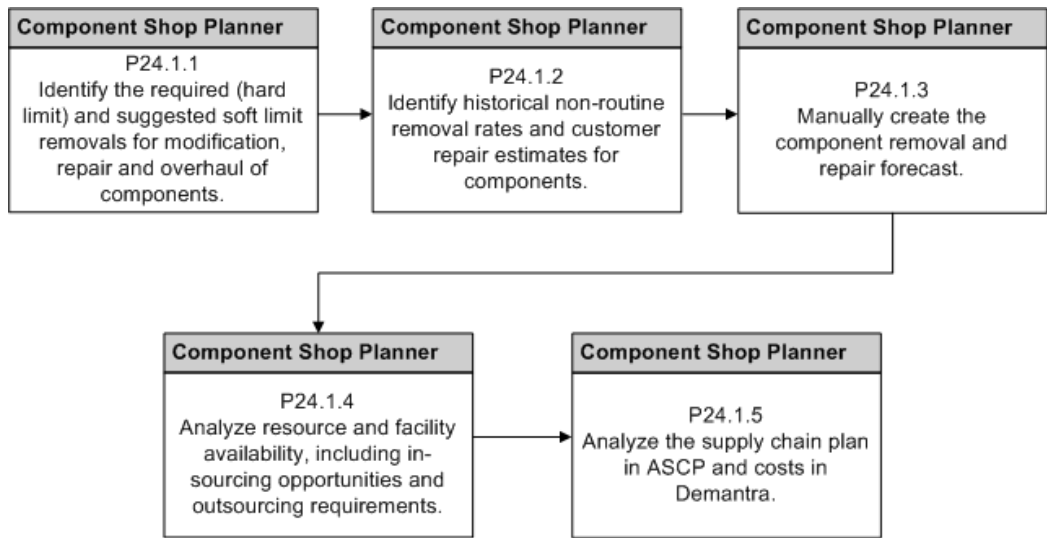
Prerequisite Setup Task	Role Performing Task	Navigation
<p>8. Create the fleet maintenance program and define maintenance requirements.</p> <ul style="list-style-type: none"> • Define tolerance before and after thresholds. • Define Min Service Category. • Setup Primary visit MRs and define: <ul style="list-style-type: none"> • Single visit type for mandatory MRs. • Operating organization or maintenance organization and department. • Program Type and Program Subtype 	Engineering	Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirement > Create (B)
<p>9. Create maintenance forecast.</p> <ul style="list-style-type: none"> • Initialize MRs. • Run the Build Unit Effectivities (BUE) program. 	Engineering	
<p>10. Analyze maintenance history using Demantra to generate non-routine estimates.</p>	Reliability Engineer	

Prerequisite Setup Task	Role Performing Task	Navigation
11. Update MR NR Profile using the latest non-routine estimates.	Reliability Engineer	Planning > Unit Maintenance Plan > Non-routines > Search Non-routine > Update (icon) Update Non-Routine
12. Update the BOM calculations in ASCP to include the latest non-routine estimates.	Reliability Engineer	
13. Generate non-routine removal rates (Mean Time Between Unscheduled Removal [MTBUR]) for complex assemblies.	Reliability Engineer	
14. Consider customer non-routine removal analysis and planned removal forecast as input.	Customer	Planning > Unit Maintenance Plan > Non-routines > Search Non-routine > Update (icon) > Update Non-Routine

24.1. Major Task - Create and refine the component removal and repair forecast:

Task Description: The planner will create a component repair forecast by evaluating the impact of life limit, soft limit, optional and required modifications, and the historical analysis of transit non-routine removals and customer planned and unplanned repair streams.

Task Flow



1. Identify the required (hard limit) and suggested soft limit removals for modification, repair, and overhaul of components.
 - The planner can confirm that unit effectivities exist in the UMP for the removal and repair of components.

Navigation: Planning > Unit Maintenance Plan > Overview > Search Unit Maintenance Plan

Search for a unit maintenance plan. Search by Fleet, Dependent Components, Program Type and Subtype to provide appropriate filter criteria.

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Sign Help

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Overview Utilization Forecast Unit Schedule Flight Schedules Non-routines

Logged In As TSMITH

Search Unit Maintenance Plan

Unit Name Search For All

Item Serial Number

Sort by Due Date Status Open

Title Program Type

Non Routine Type Non Routine Num

Due from Due to Include Tolerance Dates

Visit Organization Visit Department

Visit Number

☐ Show Dependent Components ☐ Show Child Maintenance Requirements

☐ Show Replicate

Go Clear

+ against Version denotes the Maintenance Requirement version is not latest or the version is terminated

Program Type	Title	Version	Item Num	Remain	Cnt	Earlier	Due	Latest	Tolerance	Status	Sched. Date	Visit Title	Originator Title	Dependent Title	Trigger Type	Deferred From	Deferred To	Manually Planned
No records were found matching the given criteria..																		

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out Help

- The planner can also use the Planning Workbench to search the UMP for outstanding requirements for dependent components for a unit configuration.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

ORACLE® Complex MRO

Navigator Favorites Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Planning Workbench

Logged In As TSMITH

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Planning Workbench

Apply Revert

Unit Maintenance Plan

☐ Hide UMP Search Region

☐ Simple Search

Unit Name Fleet

Item Serial Number

Title Scheduled Status Unscheduled

Due From 24-Mar-2013 Due To Include Tolerance Dates

Program Type Program Sub Type

Due Within UOM Implement Status

Arrival Organization On Wing

Non Routine Type

☒ Show Dependent Requirements

☐ Advanced Search

Go Clear

Select Details Unit	Program Type	Item Title Number	Serial Number	View All UOMs	Cnt Name	Cnt UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Visit Request
No search conducted.												

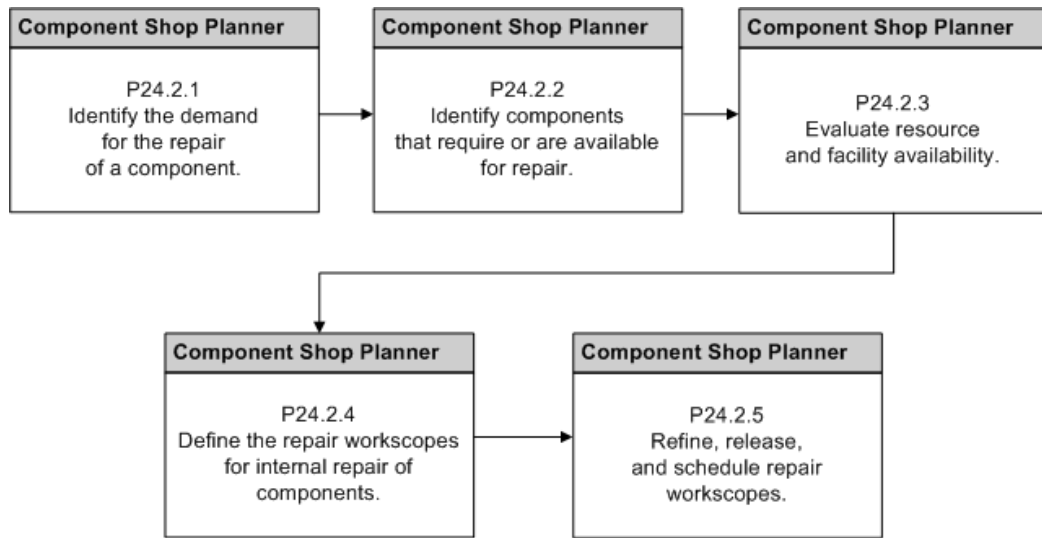
- Identify historical non-routine removal rates and customer unplanned repair estimates for components using Demantra.
 - The planner and engineer will use Demantra to analyze the historical non-routine removals of components in aircraft visits.
 - MTBUR rates will be applied against the usage projections for the components during the forecast period, and will generate anticipated non-routine removals.

- The planner will evaluate customer repair estimates for the forecast period. This includes both planned and unplanned repairs.
3. Manually create the component removal and repair forecast.
- The planner will combine the projected removals from the unit maintenance plan, unscheduled non-routine removals, and customer planned and unplanned removals to manually create a repair forecast.
4. Analyze resource and facility availability, including in-sourcing opportunities and outsourcing requirements.
- The planner will evaluate the repair forecast by organization, department and possibly space constraints.
 - The planner will calculate the resource capacity for an organization and department. Repair throughput capability will be evaluated against the forecasted demand.
 - The planner will identify and validate in-sourcing opportunities.
 - The planner will identify and validate outsourcing requirements.
5. Analyze the supply chain plan in Oracle ASCP and costs in Oracle Demantra.
- The planner will work with the inventory planning group to evaluate the costs of the supply chain plan, based on the unit maintenance plan, and the historical non-routine removal rates.
- Navigation:** Oracle ASCP and Oracle Demantra
- The planner will also determine the costs of in-sourcing and outsourcing repairs based on historical costs and contractual agreements.
- Navigation:** Oracle ASCP

24.2. Major Task - Manage the component repair plan:

Task Description: The planner will create and schedule the repair of components both internally and externally, define and update the repair work scopes, and review the resource requirements including facility, labor and materials.

Task Flow



1. Identify demand for the repair of a component.

The planner will search for system based demand as well as outside demand.

Navigation: Planning > Component Maintenance > Supply and Demand > Search Supply and Demand

- The planner can search demand that has been requested by ASCP. This demand has been requested over the current planned repair of components.

The planner can search demand that has been requested by ASCP. This demand has been requested above and beyond the current planned repair of components

- The planner can use the Materials Management Workbench to identify visit based material requirements that should be fulfilled by the repair of an unserviceable component.

The planner can create reservations against existing repair visits as a source of supply to fulfill material requirements in repair visits based on unit configurations.

- The planner can receive a requested return date for the repair of a customer component.
- The planner can also directly create supply without a specific demand by planning the repair of an unserviceable unit that is located in an unserviceable inventory.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

ORACLE® Complex MRO

Home CMRO Home Engineering Configuration **Planning** Administration Execution Profile Sign Out

Unit Maintenance Plan Visit Work Package **Planning Workbench** Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning

Supply and Demand Repair Items Repair Batches

Logged In As TSMITH

Search Repair Items

Simple Search

* Organization Sub Inventory Item Owner Party Name

Serial Number Lot Number Condition Instance Warranty Return To Supply

Repair Batch Repair Status

☐ Show Only Reserved Items

Go Clear

Results

Instance Details										Current Location		New Location		
Select Details	Item	Item Description	Instance Num	Serial Num	Lot Num	Qty	UOM	Warranty	Condition	Reserved Repair For Work Status Order	Subinv	Repair Batch	Return To Repair Supply Qty	Repair Batch
No search conducted.														

Unit Maintenance Plan Visit Work Package Planning Workbench Fleet Forecasting Component Maintenance Assembly Maintenance Auto Visit Planning Home CMRO Home Engineering Configuration **Planning** Administration Execution Profile Sign Out

2. Identify components that require or available for repair.

- The planner will search for components that are located in an unserviceable inventory, typically associated with the repair shop or staging area. This will be the main flow and can include customer components.

Navigation: Planning > Assembly Maintenance > Search Repair Forecast > Search Supply Items

Search Supply Items

* Item Unit Serial Number Instance Number

Condition

Earliest due from Earliest due to

☐ Have Non Routine due > Assembly due

* From Scheduled end date * To Scheduled end date

Filter by

Search by Location

Organization Sub Inventory Locator

Master Configuration Next Higher Assembly Position

☒ In Inventory ☒ On Configuration ☐ In Repair ☐ Out Of Enterprise

- The planner can also begin by searching in response to demand that has been requested by ASCP.

Navigation: Planning > Component Maintenance > Supply and Demand > Search Supply and Demand

Select an item row and click the **Search Repair Items** button.

ORACLE® Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Supply and Demand | Repair Items | Repair Batches

Logged In As TSMITH

Search Supply And Demand

Simple Search

Organization: San Francisco Maintenance Center
 Item:
 Date From: 01-Jan-2013
 Date To: 10-Apr-2013
 Demand Date Updated >=

☐ Enlist Only Unserviceable Items

☐ Show Only Requested Quantity Equal to Zero
☐ Show Only Component Visits
☐ Show Only Requested Quantity > Planning Quantity

Results

Select Item: Search Repair Items View Capacity

Show All Details Hide All Details

Select Details	Organization	Item	Item Description	Date Updated	Requested Quantity	Planning Quantity	Scheduled Quantity UOM
<input type="checkbox"/> Show	San Francisco Maintenance Center US	Compressor Fan Blade	Compressor Fan Blade	23-Apr-2012	8	0	0 Ea
<input type="checkbox"/> Show	San Francisco Maintenance Center US	F100PW200	Pratt and Whitney F100 Engine	06-Jun-2012	2	0	0 Ea

Maintenance Capacity

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning | Home | CMRO Home | Engineering | Configuration | Planning | Administration | Execution | Profile | Sign Out

- The planner can then search for repair items that are available for repair in the context of the requested demand from ASCP.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

ORACLE® Complex MRO

Unit Maintenance Plan | Visit Work Package | Planning Workbench | Fleet Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning

Supply and Demand | Repair Items | Repair Batches

Logged In As TSMITH

Search Repair Items

Requested Supply

Organization: San Francisco Maintenance Center US
 Item: Compressor Fan Blade
 Item Description: Compressor Fan Blade
 Requested Quantity: 8
 Planning Quantity: 0
 Date From: 01-Jan-2013
 Date To: 10-Apr-2013
 Scheduled Quantity: 0

Simple Search

Organization: San Francisco Maintenance Center US
 Sub Inventory:
 Item: Compressor Fan Blade
 Owner Party Name:

☐ Enlist Only Unserviceable Items

Serial Number:
 Lot Number:
 Condition:
 Instance Warranty:
 Return To Supply:

Repair Batch:
 Repair Status:
☐ Show Only Reserved Items

Results

Select Details	Item	Item Description	Instance Num	Serial Num	Lot Num	Qty	UOM	Warranty	Condition	Status	Reserved Repair For Work Order	Current Location	Return To Repair	New Location
No search conducted.														

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

- The planner can view the repair items results table and can drill into the instance to view the current counter readers.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

- The planner can also search the UMP for outstanding UEs which require accomplishment through a component repair.

Navigation: Planning > Unit Maintenance Plan > Search Unit Maintenance Plan

Search by Fleet, Dependent Components, Program Type, Subtype, Due From and Due Within fields to filter the results.

- The planner can also use the Planning Workbench to search the unit maintenance plan for outstanding unit effectivities that require accomplishment through a component repair.

Navigation: Planning > Planning Workbench > Planning Workbench > Unit Maintenance Plan

Search by Fleet, Dependent Components, Program Type, Subtype, Due From and Due Within fields to filter the results.

3. Evaluate resource and facility availability, analyze in-sourcing opportunities and outsourcing requirements, and route selected components to external repair.

- The planner can evaluate the resource capacity for the organization in the Supply and Demand UI.

Navigation: Planning > Component Maintenance > Supply and Demand > Search Supply and Demand

The planner can evaluate the capacity in the context of a specific row by selecting the row and then clicking the **View Capacity** button.

- The planner can also directly navigate to the Organization Capacity section and manually define the search parameters.
- The planner will identify and validate in-sourcing opportunities based on available resources.
- The planner will identify and validate outsourcing requirements based on

available resources. The planner will request the routing of components to third-party vendors, if applicable.

4. Define the repair work scopes for the internal repair of components.

- The planner will search for the repair items in demand or open search mode. Search by subinventory, item or repair status to filter the results.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

- The planner can then select an item instance and create a new repair work scope or add it to an existing work scope.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

The work scope that is created or modified is referred to a repair batch. A repair batch will be a unique event (similar to a visit) which will capture the repair of one or more instances and can be considered a traceable event in the service history for an instance.

- The planner will then edit and refine the work scope of a repair batch for each instance to return the unserviceable component back to supply.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Repair Batch Details

The Repair Batch Details section includes information about the repair batch, including the status of instances in the batch locators, target repair quantity, and a history of instance movement to and from the batch.

- The planner can view the maintenance tasks that have been added to the repair batch work scope from the Workscope Tasks tab.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Tasks

Define Repair Batch Workscope

Recalculate Repair Cost Cancel Revert Apply

Repair Batch Details

Repair Batch: 1439.MBSrCtrTrk.6	Instances in Planning: X	Instance: 2818971
Description: 1439.MBSrCtrTrk.6	Planning Sub Inventory: In-Plng-CP	Target Quantity: 1
Organization: San Francisco	Planning Locator: 3.3.3.CMR01418.1439-6	UOM: Each
Maintenance Center US	X	Repair Quantity: 1
Batch Status: In Shop Floor	Instances In-Repair: ✓	Batch Quantity: 1
Date Created: 12-Jul-2012	In-Repair Sub Inventory: In_Rpr-CP	Workorder Quantity: 0
Date Updated: 12-Jul-2012	In-Repair Locator: 4.4.4.CMR01418.1439-6	Returned as Serviceable Quantity: 0
Return To Supply: ✓	X	Returned as Unserviceable Quantity: 0
Multiple Instance: X	Item: MBSrCtrTrk	
Estimated Repair Cost: 0	Serial Number: MBSrCtrTrk029	

Workscope Tasks | Task Dependencies | Maintenance Requirements | Workscope Instances

Simple Search

Task Type: Return To Supply: Task Warranty:

Task Status: Route Type:

Work Order Status: Service Type:

Warranty Status: Instance Warranty:

Results

Select Task: Create Non-Routine

[Select All](#) | [Select None](#)

Select Details	Task Number	Task Name	Item	Serial Number	Instance Number	Quantity	UOM	Maintenance Requirement	Department	Task Type	Task Status	Task Warranty	Instance Warranty	Contract Status
<input type="checkbox"/> Show	7	RTVEERoute	MBSrCtrTrk	MBSrCtrTrk029	2818971	1	Each	RTVEERoute		Summary	In Shop Floor			
<input type="checkbox"/> Show	8	RT RoutewithUnitUpdate	MBSrCtrTrk	MBSrCtrTrk029	2818971	1	Each	RTVEERoute		Unplanned	In Shop Floor			

The Show or Hide section lists relevant task details, including a link to the route definition.

- The planner can sequence the tasks prior to the release to production from the Task Dependencies tab.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Task Dependencies

- The planner can view the maintenance requirements that have been added to the repair batch from the work scope Maintenance Requirements tab. The task title includes a link to the requirement definition.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Maintenance Requirements

Workscope Tasks | Task Dependencies | Maintenance Requirements | Workscope Instances

Simple Search

Maintenance Requirement:

Description: Service Request:

Status: Program Type:

Results

Program Type	Title	Description	Service Request	Service Request Summary	Item	Serial Number	Instance Number	Quantity	UOM	Cost/Price	Status	Remove
Corrosion	RTVEERoute				MBSrCtrTrk	MBSrCtrTrk029	2818971	1	Ea		In Shop Floor	<input type="button" value="Remove"/>

- The planner can view each instance that is located in the repair batch from the Workscope Instances tab.

Navigation: Planning > Component Maintenance > Repair Items > Search

Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Instances

Define Repair Batch Workscope

Recalculate Repair Cost

Cancel

Revert

Apply

Repair Batch Details

Repair Batch1439.MBSrCtrTrnk.6

Description1439.MBSrCtrTrnk.6

OrganizationSan Francisco

Batch StatusIn Shop Floor

Date Created12-Jul-2012

Date Updated12-Jul-2012

Return To Supply

Multiple Instance

Estimated Repair Cost0

Instances in Planning

Planning Sub Inventory

Planning Locator

Instances In-Repair

In-Repair Sub Inventory

In-Repair Locator

Item

Serial Number

In-Plng-CP

3.3.3.CMR01418.1439-6-

X

In_Rpr-CP

4.4.4.CMR01418.1439-6-

X

MBSrCtrTrnk

MBSrCtrTrnk029

Instance2818971

Target Quantity1

UOMEach

Repair Quantity1

Batch Quantity1

Workorder Quantity0

Returned as Serviceable Quantity0

Returned as Unserviceable Quantity0

Workscope Tasks

Task Dependencies

Maintenance Requirements

Workscope Instances

Select

Add Planned Requirement

Go

Select Item	Item Description	Instance Number	Serial Number	Lot	Quantity	UOM	Warranty	Condition	Planning	In-Work	Issued To	Return To	Work Orders	Reserved For Work	Return Quantity	Return Condition
<input type="radio"/>	MBSrCtrTrnk, Serial Controlled Tracked Item	2818971	MBSrCtrTrnk029	1	Each					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	

Recalculate Repair Cost

Cancel

Revert

Apply

The planner can also use the drop-down actions such as Search Part Changes, Search Service History, Add Planned Requirements, Add Unplanned Requirements, Edit Warranty, or Update Material Requirements in the context of a selected instance.

5. Refine, release and schedule repair work scopes.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batch

- The planner can search for repair batches directly by a unique ID; the Organization, Date From and Date To fields are required. Search by other criteria such as item, serial number, or batch status to filter results.

Search Repair Batch

Simple Search

* Organization: San Francisco Maintenance
 Item:
 Serial Number:
 Lot Number:

Owner Party Name:
 Repair Batch:
 Batch Status:
 Instance Warranty:
 Return To Supply:

Date Created From: 01-Apr-2012
 Date Created To: 30-Apr-2012

☐ Search By Last Updated Dates Instead
☐ Show Only Instances Issued to Work Orders
☐ Show Only Batch Quantity Equal to Zero
☐ All Work Orders Completed

Results

Select Repair Batch

Previous 1-10 Next 10

Select	Details	Repair Batch	Edit	Description	Batch Item	Batch Status	Date Created	Date Updated	Target Qty	Batch Qty	Returned as Serviceable Qty	UOM	All Work Orders Completed
<input type="radio"/>	Show	1000.SS_CA_NS_10.2		1000.SS_CA_NS_10.2	SS_CA_NS_10	In Shop Floor	25-Apr-2012	25-Apr-2012	3	0	3	Each	<input checked="" type="checkbox"/>
<input type="radio"/>	Show	1000.SS_CA_S_OC.1		1000.SS_CA_S_OC.1	SS_CA_S_OC	In Planning	25-Apr-2012	25-Apr-2012	1	1		Each	<input checked="" type="checkbox"/>
<input type="radio"/>	Show	1002.Compressor Fan Blade.2		1002.Compressor Fan Blade.2	Compressor Fan Blade	In Shop Floor	25-Apr-2012	25-Apr-2012	2	2		Each	<input checked="" type="checkbox"/>
<input type="radio"/>	Show	1002.SS_CA_S_OC.1		1002.SS_CA_S_OC.1	SS_CA_S_OC	In Planning	25-Apr-2012	25-Apr-2012	1	1		Each	<input checked="" type="checkbox"/>
<input type="radio"/>	Show	1002.SS_CA_S_OC.5		1002.SS_CA_S_OC.5	SS_CA_S_OC	In Planning	26-Apr-2012	26-Apr-2012	1	1		Each	<input checked="" type="checkbox"/>
<input type="radio"/>	Show	1060.MBSrCtrTrk.4		1060.MBSrCtrTrk.4	MBSrCtrTrk	In Planning	27-Apr-2012	27-Apr-2012	1	1		Each	<input checked="" type="checkbox"/>
<input type="radio"/>	Show	1060.RTNNonSerialItem.1		1060.RTNNonSerialItem.1	RTNNonSerialItem	In Shop Floor	27-Apr-2012	27-Apr-2012	20	1	20	Each	<input checked="" type="checkbox"/>

- The planner can conduct a broad search, review the search results and click the sortable columns to further refine the results.

- Navigate to the Search Repair Items page.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batch

The planner can also search for repair item instances. Search by organization, date range, item or repair status to filter results.

- The planner can drill into any batch results row to view the details of the instances issued to the batch.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batch

The planner can click the instance link to view the instance details or the Warranty icon to view the warranty details. The planner can view or edit a repair batch by clicking the linked batch number or the Edit icon for the results row.

- The planner can also click the Edit icon for a batch in which an instance has been issued.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

- The planner can edit the work scope of a repair batch for an instance prior to or after pushing the tasks to production.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Tasks

The editing of tasks before the push to production can include evaluating duplicate tasks (from route definitions), ensuring a return to supply flag is available for a single task to correctly identify the repair batch to ASCP, and updating warranty attributes for each applicable task.

The planner can also create non-routines based on inspection findings.

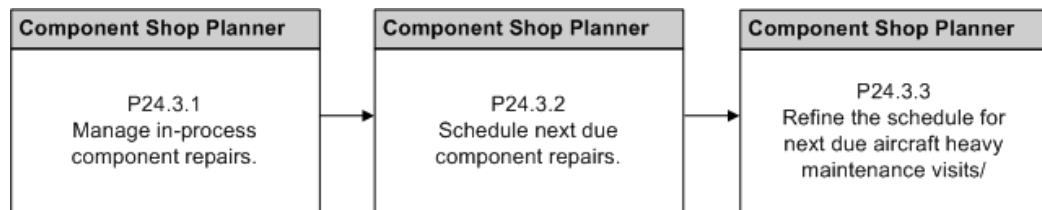
- The planner can then release the work scope tasks by pushing to production in Released or Unreleased status. The tasks will be assigned a work order start date equal to the system date. The work orders can be further scheduled by the Oracle Production Scheduling application.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Tasks

24.3. Major Task - Support in-process, next due, and completed component repairs:

Task Description: The planner will coordinate with multiple users to manage the components that are next due, currently in production, or have completed repair.

Task Flow



1. Manage in-process component repairs.

- The planner can search the active repair batches to monitor the component shop schedule, and identify conflicts with scheduled dates and times, capacity and resources. Search by organization, date range, item or batch status to filter results.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batch

- The planner can search for repair items in production to monitor the component shop schedule and identify conflicts with scheduled dates and times, capacity, and resources. Search by organization, date range, item or repair status to filter results.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

- The planner can drill into each repair batch and identify work order dates that may be creating scheduling conflicts.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Tasks

The screenshot shows the 'Workscope Tasks' interface. At the top, there are tabs for 'Workscope Tasks', 'Task Dependencies', 'Maintenance Requirements', and 'Workscope Instances'. Below the tabs is a 'Simple Search' section with various filters: Task Type, Task Status, Work Order Status, Warranty Status, Return To Supply, Route Type, Service Type, Instance Warranty, and Task Warranty. There are 'Go' and 'Clear' buttons. Below the search section is a 'Results' section with a 'Select Task' dropdown and a 'Go' button. The main part of the interface is a table with columns: Task Number, Task Name, Item, Serial Number, Instance Number, Quantity, UOM, Requirement, Department, Task Type, Task Status, Task Warranty, Instance Warranty, Warranty Contract, Warranty Status, Cost/Price, Return to Supply, and Remove. Two tasks are listed: Task 16 'RD_Test_MRL' and Task 17 'Left BDC Oil Level'. Task 17 is expanded, showing details like Service Type, Cost Percent, Route, Engine, Service Request, Start Time, End Time, Duration, Past Start Date, Past End Date, Work Order Status, and Task Off. Below the table is a 'Task Dependencies Rules' section with a 'Sequence To' dropdown and a table with columns: Dependency, Task Number, Task Name, Task Status. At the bottom right, there are buttons: 'Recalculate Repair Cost', 'Cancel', 'Revert', and 'Apply'.

- The planner can also search in the Execution menu and monitor the work orders that have been released to production and subsequently scheduled. Search by the active component visit for the organization, work order number, date range, item or work order status to filter results.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview

- The planner can update the individual work orders to adjust the start and end dates that are creating scheduling conflicts. The planner can also update the warranty attributes.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview > Select a work order > Select Update Work Order from the Select Tasks drop-down

ORACLE® Complex MRO

Navigator Favorites CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Production Planning Outside Processing Service History Material Transactions

Work Orders Operations Resources Materials Maintenance Requirements My Work Orders Visits

Operations
Materials
Workorder Materials
Resources
Assignments
Resource
Transactions
Dispositions

Work Order Operations

* Indicates required field

Work Order Num SFMPWO186527

Work Order Description MBCHPRTSRRoute.MBCHPRTSRRoute

Organization San Francisco Maintenance Center US

Department Line Maintenance, SFM

Project 993

Project Task MBCHPRTSRRoute

Serial Number 3043046

Instance Number Ea

UOM 5

Visit Task 5

Accounting Class Maintenance

Priority

Set Maintenance Requirement

Work Order Status Released(1)

Hold Reason

Hold Reason is required when workorder is put on hold otherwise this value will be ignored.

AOG No

Reserved for Work Order

Locator

Confirmed Failure

Scheduled Work Order Start Date 25-APR-2013

Scheduled Work Order End Date 25-APR-2013

Scheduled Work Order Start Time Hrs 05 Mins 01

Scheduled Work Order End Time Hrs 05 Mins 01

Changing start date will move the work order

Actual Job Start Date

Actual Job End Date

Actual Job Start Time Hrs Mins

Actual Job End Time Hrs Mins

Originating Work Order

Associated Non-Routine

Firm Plan Flag Firm

Released Date 25-APR-2012

Completed Date

Service Type

Work Card Progress No Print request fired.

- The Production Scheduling system can be used to monitor the component shop schedule from a higher level and identify exceptions caused by conflicts with dates, capacity, and resources.

Navigation: Oracle Production Scheduling > Work Order Editor

The planner can update the date attributes for the work order that are creating scheduling conflicts and rerun the model. Visit and work order dates will be published back to CMRO.

Model1 - RD Test Model 1

Work Orders

Production Orders

Maintenance Orders

Text01

0000001

Enterprise Asset Management

Maintenance Work Order

Number 0000001

Order Class Committed

Priority 1

Description test2212

Item Code A/C

Serial Number

Routing REMOVE ENGINE COWLING AND INTERIOR ACCESS PANELS

Original Routing

Unit Of Measure Required Completed Remaining Reserved Lot Multiple 1.00

Each 1 0 1 0 Routing Instances Required 1

Earliest Start Date

Start Date

Created Date 9/9/2011 1:01:29 PM

Target Completion Date

Completion Date

Status Planned

Request Date 9/16/2011 4:30:00 PM

Earliest Demand Date

On Hold

Maintenance Resource

Shutdown Type Required

Asset Number

Asset Group

Operations Precedence Constraints Bill of Resources Bill of Materials Produced Items Related Work Orders Maintenance Supply Reservation Demand Reservation Notes

Add Delete Properties

Name	Item	Serial Number	Quantity	Supply Type	Supply	Description
------	------	---------------	----------	-------------	--------	-------------

- The planner can update the work scope of an instance by adding or removing requirements in a repair batch.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope >

Workscope Instances

Workscope Instances													
Select	Search Part Changes	Go											
Select Item	Item Description	Item Instance	Serial Number	Lot	Quantity	UOM	Instance Warranty	Condition	Planning In-Repair	Issued To Work Order	Return To Supply	Work Orders Completed	Reserved For Work Order
<input type="radio"/>	MBS-CrTtk Serial Controlled Tracked Item	2818951	MBS-CrTtk009	1	Each			Unserviceable	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		

The editing of tasks before the push to production can include evaluating duplicate tasks (from route definitions), ensuring that a return to supply flag is available for a single task to correctly identify the repair batch to ASCP, and updating warranty attributes for each applicable task. The planner can also create non-routines based on inspection findings. The planner can then release the work scope tasks by pushing them to production in Released or Unreleased status.

- The planner can also adjust a repair batch to increase the quantity of a non-serialized item being repaired to meet the target quantity.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batch

The planner will search for the batch and validate the target against the batch and returned as serviceable quantities.

- The planner can search for repair items that are available to be added to the existing repair batch; a full or partial quantity of the instance can be added.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

Quick Maintenance Plan

Visit Work Package

Long Term Planning

Planning Workbench

Forecasting

Component Maintenance

Assembly Maintenance

Auto Visit Planning

Supply and Demand

Repair Items

Repair Batch

Logged In As TSMTH

Search Repair Items

Simple Search

* Organization

San Francisco Maintenance

Serial Number

Sub Inventory

Lot Number

Item

Condition

Owner Party Name

Instance Warranty

Return To Supply

Repair Batch

Repair Status

☐ Show Only Reserved Items

Go

Clear

Results

Select Instance Number

Edit Warranty

Go

Previous

<10

Next >10

Instance Details

Current Location

Return To Supply

Repair Qty

Repair Batch

Edit

Assign

Create

Subinv

Repair Batch

Item

To Supply

Repair Qty

Repair Batch

Assign

Create

Select	Details	Item	Item Description	Instance Num	Serial Num	Lot Num	Qty	UOM	Instance Warranty	Condition	Repair Status	Reserved For Work Order	Subinv	Repair Batch	Item	To Supply	Repair Qty	Repair Batch	Assign	Create
<input type="radio"/>	<input checked="" type="checkbox"/>	MBCPHongCrTtkChild	Non Serial Controlled Tracked Item - For Component - For Child Node	3013035			2	Each			Planning		In-Ap-CP	529-MBCPHongCrTtkChild.8		<input checked="" type="checkbox"/>	2		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	MBCPHongCrTtkChild	Non Serial Controlled Tracked Item - For Component - For Child Node	3013040			1	Each			Planning		In-Ap-CP	529-MBCPHongCrTtkChild.1		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	MBS-CrTtk	Serial Controlled Tracked Item	2818951	MBS-CrTtk009		1	Each		Unserviceable	Production		In-Ap-CP	451-MBS-CrTtk.2		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	RTS-CrTtk	Serial Controlled Tracked Item	2522350	RTS-CrTtk001		1	Each			Planning		In-Ap-CP	451-RTS-CrTtk.1		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	NSAItem2	NSAItem2	2522367	NSAItem2InCh-29		1	Each			Planning		In-Ping-CP	456-NSAItem2.1		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	CAM-VCP-AHL003	AHL Item VCP Integration Item, Serial Controlled.	2983027	AHL003-9H02		1	Each			Planning		In-Ping-CP	451-CAM-VCP-AHL003.5		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	RTS-CrTtk	Serial Controlled Tracked Item	2522372	RTS-CrTtk024		1	Each			Planning		In-Ping-CP	451-RTS-CrTtk.1		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	NSAMItem	NSAMItem - Created for Me	3003038	NSAMItem2		1	Each		Unserviceable	Planning		In-Ping-CP	529-NSAMItem.7		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	MBS-CrTtk	Serial Controlled Tracked Item	2818992	MBS-CrTtk050		1	Each			Planning		In-Ping-CP	509-MBS-CrTtk.1		<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>
<input type="radio"/>	<input checked="" type="checkbox"/>	MBS-RevCrTtk	Serial and Revision Controlled Tracked Item	2813121	MBS-RevCrTtk029		1	Each		Unplanned			STORES			<input checked="" type="checkbox"/>	1		<input type="text"/>	<input type="text"/>

Select Instance Number

Edit Warranty

Go

Previous

<10

Next >10

- The planner can also decrease the quantity of a non-serialized instance in a batch due to scrap.

Navigation: Planning > Component Maintenance > Repair Items > Search

Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Instances

The planner can perform this function by instance through a return function to a subinventory location.

2. Schedule next due component repairs.

- The planner will monitor the progress of current component repairs and push next due repairs to production when planning has finished. The planner can search for these batches and edit the repair batch work scope. Search by organization, date range, or batch status to filter results.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batches

- The planner can search by repair item, organization, date range, item or repair status to filter results.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

- The planner will then update the repair batch, while pushing the applicable tasks to production.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Instances

The tasks will be assigned a work order start date equal to the system date. They can be further scheduled by Oracle Production Scheduling.

Select	Details	Task Number	Task Name	Item	Serial Number	Instance Number	Quantity	UOM	Requirement	Department	Task Type	Task Status	Task Warranty	Instance Warranty	Warranty Contract Status	Cost/Price	Return to Supply	Remove
<input type="checkbox"/>	Details	16	RD_Test_MRL	MBSGLACDITK/MBSGLACDITK0322819024			1	Each	SO_Test_MRL		Summary	Planning						
<input type="checkbox"/>	Details	17	Left IDG Oil Level	MBSGLACDITK/MBSGLACDITK0322819024			1	Each	SO_Test_MRL		Unplanned	Planning						

- The planner can search in the Execution menu for the work orders that have been released to production and subsequently scheduled.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview

- The planner can update the individual work orders by adjusting the start and end dates.

The planner can also update any warranty attributes.

Navigation: Execution > Production Planning > Work Orders > Work Order Overview > Work Order Operations

Work Order Operations

Indicates required field

Work Order Num: **SFM192183**

Work Order Description: **24-030-01-00:Left IDG Oil Level**

All Operations Completed: **RD_Test_MH1**

Maintenance Requirement: **24-030-01-00**

Route: **MBS-CCTK1K**

Unit Name: **1**

Quantity: **1**

Visit Number: **529**

Work Order Status: **Released(1)**

Hold Reason: **1**

Completion Sub Inventory: **1**

Scheduled Work Order Start Date: **01-FEB-2012**

Scheduled Work Order End Date: **01-FEB-2012**

Actual Job Start Date: **01-FEB-2012**

Actual Job End Date: **01-FEB-2012**

Operating Work Order: **1**

Item Plan Flag: **1**

Completed Date: **01-FEB-2012**

Service Type: **1**

Warranty Details

Task Warranty: **1**

Instance Warranty: **1**

Warranty Contract: **1**

Warranty Claim: **1**

Claim Status: **1**

Warranty Status: **Not Applicable**

Operations

Select Operation: **Complete Operation** | **Details** | **Operation QA Results**

Select	Code	Description	Actual Start Date	Actual End Date	Status
<input type="radio"/>	10	12.13.200.801.00 Check generator oil level			Uncomplete

Select Operation: **Complete Operation** | **Details** | **Operation QA Results**

3. Manage completed component repairs.

- The planner must complete the processing of a component repair by returning the repair batch instances to the applicable subinventory and closing the repair batch.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batch

The planner will search for repair batches in which all the work orders are completed.

- The planner will then drill into the repair batch results rows to verify the work order completion status of each instance. The planner can click the Return icon to navigate to the Instances tab in the repair batch.

Navigation: Planning > Component Maintenance > Repair Batches > Search Repair Batch

Select Repair Batch		Close Repair Batch		Batch Item		Batch Status		Date Created		Date Updated		Target Qty		Batch Qty		Returned as Serviceable		UOM		All Work Orders Completed	
<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RTS-CCTK1K	RTS-CCTK1K	In Planning	29-Dec-2011	10-Jan-2012	8	2									Each		
Item	Item Description	Instance Number	Serial Number	Lot Revision	Qty UOM	Instance Warranty	Condition	Planning In	Repair Order	Issued To Work	Return To Supply	Work Orders Completed	Reserved for Work Order	Return							
RTS-CCTK1K	Serial Controlled Tracked Item	252225	RTS-CCTK1K001	1	Each																
RTS-CCTK1K	Serial Controlled Tracked Item	252227	RTS-CCTK1K024	1	Each																
<input type="radio"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>							
MBS-CCTK1K																					

- The planner can then perform a return transaction for each instance. A repair batch can be closed after all instances have been returned.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Workscope > Workscope Instances

Part 3

Administration

FAA Compliance Reports

This chapter covers the following topics:

- Using Compliance Reports

Using Compliance Reports

Reports tab

The Common Setup page enables you to set up parameters as per your selection for three dynamic counters: Counter 1, Counter 2 and Counter 3. Once you define the counters, these counter names are visible as labels on the following reports:

- Assembly Bill of Materials (for Remaining counters)
- Component Removal Forecast (for Remaining and Since Repair Counters)
- Unit Serial Number (for Spec Limit Counters)

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Home CMRO Home Engineering Configuration Planning **Administration** Execution Profile Sign Out

Approvals Workflow Department Shift Spaces Space Unavailability Reliability Vendor Sourcing Reports

Common Setup Assembly Bills of Material Component Removal Forecast Part Number Status Unit Serial Numbers Component Removal/Installation History

Logged In As TSMTH

Common Setup

Reset Apply

Reports

Report Name: Component Removal Forecast

Parameters

Remaining Counters

Counter Index	Counter Name
Counter 1	Previous_C2
Counter 2	C3
Counter 3	CSO

Since Repair Counters

Counter Index	Counter Name
Counter 1	TSO
Counter 2	C3
Counter 3	CSO

MR Program Subtype

MR Program Subtype

Reset Apply

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This page enables you to perform the following actions:

1. In the Reports region, select the appropriate report name from the list of values.
2. In the Remaining Counters region, select the three counters for the Remaining column.
3. In the Since Repair Counters region, select the three counters for the Since Repair column.
4. In the MR Program Subtype region, select the program subtype for the Component Removal Forecast page.
5. Click the **Apply** button to save your counter definitions.

The Reports tab lists the following compliance reports:

- Assembly Bills of Material Report, page 4-3
- Component Removal Forecast Report, page 4-6
- Part Number Status Report, page 4-8
- Unit Serial Numbers Report, page 4-11
- Component Removal/Installation History Report, page 4-13

Maintenance Requirement Status Reports tab

The Common Setup page enables you to configure the following parameters for Maintenance Requirement Status Reports:

- Aircraft Maintenance Status - Instance Counters
- Component Maintenance Status - Instance Counters
- Maintenance Requirement Information and Status Display - Accomplished Counters

The same functionality is applicable for all three Maintenance Requirement Status reports.

The screenshot shows the 'Common Setup' interface. At the top, there's a 'Reports' section with a 'Report Name' dropdown menu set to 'Aircraft Maintenance Status'. Below this is the 'Parameters' section, which includes an 'Instance Counters' table. The table has columns for 'Select Counters', 'Delete', and 'Select Counter Name'. There are three rows in the table: 'First_C1', 'C1', and 'CSN'. Each row has a checkbox in the 'Select Counters' column and a magnifying glass icon in the 'Select Counter Name' column. At the bottom of the table is an 'Add More Rows' button. The interface also includes 'Reset' and 'Apply' buttons at the top right and bottom right.

Follow these steps to define new parameters:

1. Select a report from the Report Name list of values (LOV). The parameter applicable for that report is displayed.
2. Click Add More Rows to add new parameters.
3. Select the appropriate value from the Counter LOV and click the **Apply** button to save the new parameters.

The Maintenance Requirement Status Reports tab lists the following compliance reports:

- Component Maintenance Status Report, page 4-15
- Aircraft Maintenance Status Report, page 4-18
- Maintenance Requirement Information and Status Report, page 4-20

Assembly Bills of Material Report

1. Click the Assembly Bills of Material sub tab.
2. Use the Simple Search region of the Assembly Bills of Material page to query existing records. Enter any of the following search criteria:
 - Item Group

- ORACLE

Complex MRO

[Home](#)
[CMRO Home](#)
[Engineering](#)
[Configuration](#)
[Planning](#)
[Administration](#)
[Execution](#)
[Profile](#)

[Approvals](#)
[Workflow](#)
[Department Location](#)
[Spaces](#)
[Space Unavailability](#)
[Reliability](#)
[Vendor Sourcing](#)
[Reports](#)

[Common Setup](#)
[Assembly Bills of Material](#)
[Component Removal Forecast](#)
[Part Number Status](#)
[Unit Serial Numbers](#)
[Component Removal/Installation History](#)

Assembly Bills of Material

Simple Search

Note that the search is case insensitive

Item Group

Unit Name

Item

Serial

Instance

MRI Sub Type

Go

Clear

Item Group	Item	Serial	Unit Name	Instance ^	Details
C70-3	C70-3	513	C70-3, SN 513, Tail # VA763	644107	oo
<Multiple>	C70-2	411	C70-2, SN 411, Tail # VA681	644111	oo
<Multiple>	C70-2	412	C70-2, SN 412, Tail # VA682	644115	oo
<Multiple>	C70-2	413	C70-2, SN 413, Tail # VA683	644119	oo
C70-1	C70-1	311	C70-1, SN 311, Tail # VA521	644123	oo
C70-1	C70-1	312	C70-1, SN 312, Tail # VA522	644142	oo
C70-1	C70-1	313	C70-1, SN 313, Tail # VA523	644156	oo

- ORACLE[®] Complex MRO

[Home](#)
[CMRO Home](#)
[Engineering](#)
[Configuration](#)
[Planning](#)
[Administration](#)
[Execution](#)
[Profile](#)
[Sign Out](#)

[Approvals](#)
[Workflow](#)
[Department Shift](#)
[Spaces](#)
[Space Unavailability](#)
[Reliability](#)
[Vendor Sourcing](#)
[Reports](#)

[Common Setup](#)
[Assembly Bills of Material](#)
[Component Removal Forecast](#)
[Part Number Status](#)
[Unit Serial Numbers](#)
[Component Removal/Installer History](#)

Logged In As: T3MTH

[Cancel](#)
[Print](#)
[Export](#)

Assembly Bill of Materials

Item: C70-2

Item Type: AC_C70

Top Unit: C70-2, SN 411, Tail # V4681

Serial Number: 411

Status: Out of the Enterprise

Item Description: Airframe, C70-2

Item Group: C70-2

Farent Unit: C70-2, SN 411, Tail # V4681

Ins: Pcs Airframe

Date: 15-July-2010

Time: 10:33 AM

Instance Hierarchy

[Show All Details](#)
[Hide All Details](#)

Details	Build Level	Item Group	Item Number	Item Description	Status	Type	Position	Serial	Remaining	TSO First	C14 Due Date
Hide	:	C70-2	C70-2	Airframe, C70-2	Out of the Enterprise	MISC.MISC	Airframe	411	1	04-Jul-2013	

Accumulated

Counter Name	Counter Value	Counter UOM
No Counters Eeet.		

Specification

Counter Name	Counter Value	Counter UOM	Triggered
No Counters Eeet.			

Show	2	2133ROC	5C18C21	Indicator, Rate of Climb In Relationship	MISC.MISC.21-22, Indicator, Rate of Climb 74396		
Show	2	21753CQF	74101054-1	Fan, Equipment Cooling In Relationship	MISC.MISC.21-23, Fan, Equipment Cooling 3759		
Show	2	243ME	17C35-01	Battery	In Relationship	MISC.MISC.24-08, Main Battery	254327

[Cancel](#)

[Print](#)

[Export](#)

- ## 4-4 Oracle Complex Maintenance, Repair, and Overhaul Process Guide

- Time: Current system time.
 - Item: The item selected on the Search page.
 - Item Type: Item type of the selected item.
 - Top Unit: Root unit of the selected instance.
 - Serial: Serial number associated to the selected item instance.
 - Status: Status of the selected instance.
 - Item Description: Description of the selected item.
 - Item Group: In accordance with selected Item Group in the Search page.
 - Parent Unit: Serial Parent unit of the selected instance.
 - Inst pos: In accordance with the selected instance.
 - Build Level: Gives the level of the instance in the hierarchy.
 - Item Group: In accordance with the instance position at the selected component master configuration.
 - Item Number.
 - Item Description.
 - Type: IAW ITEM ENGINEERING category.
 - Position: The position of item instance.
 - Due date: Indicates the due date for particular instance.
 - Remaining columns: Must be calculated, IAW the more restrictive applicable RST MR limits if any.
 - Accumulated: Displays the accumulated values for an instance.
 - Counter Name, Counter Value, Counter UOM: Counter Name, Value and Unit of Measure respectively
 - Triggered: Indicates if the counter has been triggered.
6. Click Print to print the search results.
 7. Click Export to download the data to your local drive.

Component Removal Forecast Report

1. Click the Component Removal Forecast sub tab.
2. Use the Simple Search to query for existing records.

Enter the mandatory field, MR Title, and other search criteria such as:

- Item Group
- Item
- MR Title
- Thru Date

The screenshot shows the Oracle Complex MRO web application interface. The top navigation bar includes links for Home, CMRO Home, Engineering, Configuration, Planning, Administration, and Execution. Below this, a secondary navigation bar contains tabs for Approvals, Workflow, Department Shift, Spaces, Space Unavailability, Reliability, Vendor Sourcing, and Reports. The 'Reports' tab is active, and the 'Component Removal Forecast' sub-tab is selected. The main content area is titled 'Component Removal Forecast' and contains a 'Simple Search' section. A note states: 'Note that the search is case insensitive'. The search criteria fields are: Item Group (C%), Item (), * MR Title (VA-C70-21-150-00), and Thru Date (). There are 'Go' and 'Clear' buttons. Below the search criteria, a table displays the search results. The table has two columns: 'Item Group' and 'Details'. The 'Item Group' column lists various components, and the 'Details' column shows a 'oo' icon for each item. The table is paginated with 'Previous', '1-10', and 'Next 10' buttons.

Item Group	Details
C70-3	oo
CRC-300 Transceiver Model 02	oo
CS-5000 Radiator Hose Assy	oo
CS-5000 Water Pump	oo
CAC-300 Adaptor Set	oo
CBE-862-50 Antenna Cable	oo
CS-5000 Radiator	oo
CS-5000 Water Manifold Assy	oo
CS-5000 Belt Set	oo
CAC-300 AC Pwr Supply Kit	oo

3. Click Go to display the results.
4. Click the Details icon of an item group to navigate to the corresponding Component Removal Forecast Details page.

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Complex MRO

Home

CMRO Home

Engineering

Configuration

Planning

Administration

Execution

Profile

Sign Out

Approvals

Workflow

Department Shift

Spaces

Space Unavailability

Reliability

Vendor Sourcing

Reports

Common Setup

Assembly Bills of Material

Component Removal Forecast

Part Number Status

Unit Serial Numbers

Component Removal/Installation History

Logged In As TSMITH

Warning

Low-level logging is currently enabled. Your application will not perform as well while low-level logging is on.

Component Removal Forecast

Cancel

Print

Export

Date15-JUN-2010

Time02:09:52 AM

Item GroupC70-3

Forecast Thru Date

Global buttons

Item Group DescriptionC70-3 Airframe

MR TitleVA-C70-21-150-00

From ACN	Removal Item	Removal Serial	Position	Removal Date	Remaining			Since Repair			View ABM
C70-3, SN 513, Tal # VA763	C70-3	513	21-24, Relief Valve, Positive Pressure	Overdue	T90	C3	C50	T90	C3	C50	oo
C70-3, SN 511, Tal # VA761	C70-3	511	23-16, Antenna, VHF	15-AUG-2010							oo
C70-3, SN 513, Tal # VA763	C70-3	513	23-16, Antenna, VHF	Overdue							oo
C70-3, SN 513, Tal # VA763	C70-3	513	24-08, Main Battery	Overdue							oo
C70-3, SN 512, Tal # VA762	C70-3	512	23-16, Antenna, VHF	15-AUG-2010							oo
C70-3, SN 511, Tal # VA761	C70-3	511	24-08, Main Battery	15-AUG-2010							oo
C70-3, SN 512, Tal # VA762	C70-3	512	21-24, Relief Valve, Positive Pressure	15-AUG-2010							oo
C70-3, SN 512, Tal # VA762	C70-3	512	24-08, Main Battery	15-AUG-2010							oo

Cancel

Print

Export

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5. The Component Removal Forecast Details page displays the following information:

- Date: Current system date.
- Time: Current system time.
- Item Group: Associated with the selected item group in the search page.
- Forecast Thru: Associated with the specified date in the search page.
- Item Group Description: Description associated with the selected item group in the search page.
- MR Title: Associated with the selected MR in the search page.
- From ACN: Unit name associated with the selected item instance in the table.
- Removal Item: Items belonging to the item group.
- Removal Serial: Serial number of the item instance in the table.
- Position: The position of that particular item instance.
- Removal Date: Due Date for the most restrictive unit effectivity for the specific item instance and MR.
- Remaining: Counter for the difference between the counter value for the most restrictive UE and the current value of the counter.
- Since Repair: Counter having the difference between the counter value of the last accomplished UE and the current value of the counter.

6. Click Print to print the results.

7. Click Export to download the data to your local drive.

Part Number Status Report

1. Click the Part Number Status sub tab.
2. Use the Simple Search region to query for the existing records. Enter any of the following search criteria:
 - Item Group
 - Item
 - MR. Title
 - MR Sub Type

The screenshot shows the Oracle Complex MRO application interface. The top navigation bar includes links for Home, CMRO Home, Engineering, Configuration, Planning, Administration (highlighted), Execution, Profile, and Sign Out. Below this is a sub-navigation bar with tabs for Approvals, Workflow, Department Location, Spaces, Space Unavailability, Reliability, Vendor Sourcing, and Reports (highlighted). The main content area is titled 'Part Number Status' and features a 'Simple Search' section. A note states 'Note that the search is case insensitive'. Search criteria fields are provided for Item Group (containing 'C70%'), Item, MR Title, and MR Sub type, each with a magnifying glass icon. Below these fields are 'Go' and 'Clear' buttons. A table displays the search results with columns: Item Group, Item, Item Details, Spec Limit, and Effectivities. The table contains four rows of data for Item Groups C70-3, C70-PH, C70-1, and C70-2. The bottom of the page features a footer with the same navigation links as the top bar and a copyright notice: 'Copyright 2006, Oracle Corporation. All rights reserved.'

Item Group	Item	Item Details	Spec Limit	Effectivities
C70-3	C70-3	00	00	00
C70-PH	C70-PH	00	00	00
C70-1	C70-1	00	00	00
C70-2	C70-2	00	00	00

3. Click Go to display the results.
4. Click the Item Details icon for an item group to navigate to the corresponding Part Number Status: Item Details page.

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Home CMRO Home Engineering Configuration Planning **Administration** Execution Profile Sign Out

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing Reports

Common Setup Assembly Bills of Material Component Removal Forecast **Part Number Status** Unit Serial Numbers Component Removal/Installation History

Logged In As TSMITH

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Part Number Status: Item Details

Cancel Print Export

Item Details

Item Group	C70-1	Date	15-Jun-2010
Item	C70-1	Time	07:51:24 AM
Item Type	AC_C70	Item Group Description	C70-1 Airframe
Necessity	Mandatory	Parent Item Group	
Low Level	1	Item Description	Airframe, C70-1
		Related MRs	

Descriptive Flexfields

Item Model	GT12
Tax Denomination	GT13

Cancel Print Export

5. The Part Number Status: Item Details page displays the following information:
 - Date: Current system date.
 - Time: Current system time.
 - Item Group: Item group name.
 - Item: Name of the item.
 - Item Type: Type of the item.
 - Necessity: Position Necessity from MC relationships.
 - Low level: Display order from MC relationships.
 - Item Group Description: Description of the item group.
 - Parent Item Group: Name of the parent item group.
 - Item Description: Description of the item.
 - Related MRs: Link to search associated MRs.
 - Item Model, Tax Denomination: Descriptive flexfield values, whose attributes and its values are dependent on the selected Item Group - Item.
6. Click Print to print the search results.
7. Click Export to download the data to your local drive.
8. Click Cancel to navigate back to the Part Number Status page.

9. Click the Spec Limit icon of an item group to navigate to the Part Number Status: Spec Limits page.

Part Number Status: Spec Limits

Item group: C70-1

Date: 15-Jun-2010
Time: 07:52:09 AM

Cancel Print Export

Spec Limits

Show All Details | Hide All Details

Details Item A/C Model

Hide C70-1 C70-1 Aircraft

Counter Name	Counter Value	Counter UOM
TSN	3000	Util Hour
TSN	500	Util Hour
TSN	1000	Util Hour

Hide C70-1 C70-1 Aircraft

Counter Name	Counter Value	Counter UOM
TSN	3000	Util Hour
TSN	500	Util Hour
TSN	1000	Util Hour

Cancel Print Export

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing Reports Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

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10. The Part Number Status: Spec Limits page displays the following information:
 - Date: Current system date.
 - Time: Current system time.
 - Item Group: Name of the item group.
 - Item: Associated Item.
 - A/C Model: Aircraft Model.
 - Counter Name, Counter Value, and Counter UOM: Refers to Counter Name, Value and Unit of Measure values.
11. Click Print to print the search results.
12. Click Export to download the data to your local drive.
13. Click Cancel to navigate back to the Part Number Status page.
14. Click the Effectivities icon of an item group to navigate to the Part Number Status: Component Effectivities page.

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Home CMRO Home Engineering Configuration Planning **Administration** Execution Profile Sign Out

Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing Reports

Common Setup Assembly Bills of Material Component Removal Forecast **Part Number Status** Unit Serial Numbers Component Removal/Installation History

Logged In As TSMITH

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Part Number Status: Component Effectivities

Cancel Print Export

Date 15-Jun-2010
Time 07:53:54 AM

Item Group C70-1

Component Effectivities

Unit	Position	Item	Serial
C70-1, SN 311, Tail # VA521	Airframe	C70-1	311
C70-1, SN 312, Tail # VA522	Airframe	C70-1	312
C70-1, SN 313, Tail # VA523	Airframe	C70-1	313

Cancel Print Export

15. The Part Number Status: Component Effectivities page displays the following information:

- Date: Current system date.
- Time: Current system time.
- Item Group: Name of the item group.
- Unit: Name of the unit, under the current item group.
- Position: Installed position of the instance.
- Item: Item name for this unit-position combination.
- Serial: Serial number for this unit-position combination.

16. Click Print to print the search results.

17. Click Export to download the data to your local drive.

Unit Serial Numbers Report

1. Click the Unit Serial Numbers sub tab.
2. Use the Simple Search region to query for the existing records. Enter the mandatory field, Instance Status, and any of the following search criteria:
 - Item Group
 - Item
 - Instance Status

- MR. Title

3. Click Go to display the results.
4. Click the Details icon of an Item Group to navigate to the Unit Serial Numbers Details page.

Num	Serial	Status	Item	Aircraft/Inventory	Position/Sub-Inventory	Work Order Number	Spec Limit	TS	SN	CSN	Show CMS
1	6836L7	In Work in Process	17C35-01		24-08-01, Main Battery	21 - Techdisp					ⓘ
2	6836L7	In Work in Process	17C35-01		24-08-01, Main Battery	SFM134					ⓘ
3	6836L7	In Work in Process	17C35-01		24-08-01, Main Battery	SFM135					ⓘ
4	6836L7	In Work in Process	17C35-01		24-08-01, Main Battery	SFM136					ⓘ
5	6836L7	In Work in Process	17C35-01		24-08-01, Main Battery	SFM137					ⓘ
6	6836L7	In Work in Process	17C35-01		24-08-01, Main Battery	SFM138					ⓘ

5. The Unit Serial Numbers Details page displays the following information:
 - Date: Current system date.
 - Time: Current system time.

- Item Group: Associated with the selected item group in the search page.
 - Item Group Desc: Associated with the selected item group in the search page.
 - Num: Line number.
 - Serial: Associated with the selected item group, search all items and then present all the serial numbers belonging to those items.
 - Item: Associated with the selected item group, search and present all the item names for the items belonging to that Item Group.
 - Aircraft/Inventory: Unit Configuration name or Organization name for the item instance depending on whether the instance status is installed or in inventory.
 - Position/Sub-Inventory: Master Configuration Position or Subinventory name for the item instance depending on whether the instance status is installed or in inventory.
 - Work Order Number: Associated with the item instance. This is the work order number if any work order is open whose department class is Comp M.
 - Spec Limit: MR interval value calculated associated with the item instance, thereby finding the restrictive unit effectivity ID and MR interval.
 - Show CMS: Click to access the Component Maintenance Status Report Details page.
6. Click Print to print the search results.
 7. Click Export to download the data to your local drive.

Component Removal/Installation History Report

1. Click the Component Removal/Installation History sub tab.
2. Use the Simple Search page to query for the existing records. Enter any of the following search criteria:
 - Item Group
 - Unit Name
 - Item
 - Serial

- Instance

ORACLE Complex MRO

Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Approvals Workflow Department Shift Spaces Space Unavailability Reliability Vendor Sourcing Reports

Common Setup Assembly Bills of Material Component Removal Forecast Part Number Status Unit Serial Numbers Component Removal/Installation History

Logged In As TSMITH

Component Removal/Installation History

Simple Search

Note that the search is case insensitive

Item Group C70-%

Unit Name

Item

Serial

Instance

Go Clear

Previous 1-10 Next 10

Item Group	Item	Serial	Instance	Unit	Details
C70-1	C70-1	311	644123	C70-1, SN 311, Tail # VA521	
C70-1	C70-1	311	644123	C70-1, SN 311, Tail # VA521	
C70-1	C70-1	311	644123	C70-1, SN 311, Tail # VA521	
C70-1	C70-1	311	644123	C70-1, SN 311, Tail # VA521	
C70-1	C70-1	311	644123	C70-1, SN 311, Tail # VA521	
C70-1	C70-1	311	644123	C70-1, SN 311, Tail # VA521	

3. Click Go to display the results.
4. Click the Details icon of an item group to navigate to the Component Removal/Installation History Details page.

ORACLE Complex MRO

Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

Approvals Workflow Department Shift Spaces Space Unavailability Reliability Vendor Sourcing Reports

Common Setup Assembly Bills of Material Component Removal Forecast Part Number Status Unit Serial Numbers Component Removal/Installation History

Logged In As TSMITH

Warning

Low-level logging is currently enabled. Your application will not perform as well while low-level logging is on.

Component Removal/Installation History

Cancel Print Export

Date: 15-Jun-2010
Time: 05:10 AM

Item Group: C70-1 Desc: Airframe, C70-1
Item: C70-1 Item Type: AC_C70
Serial: 311

Line	ACN Details	Special Position	Location	Date	Code	Removal Location	Date	Type	Repair Location	Date
No search conducted.										

Cancel Print Export

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5. The Component Removal/Installation History Details page displays the following information:
 - Date: Current system date.
 - Time: Current system time.

- Item Group: Associated with the selected item group in the search page.
 - Item: Associated with the selected item in the search page.
 - Serial: Serial number associated with the selected item instance.
 - Desc: Associated with the selected item group in the search page.
 - Item Type: Associated with the selected item in the search page.
 - Line: Line number.
6. Click Print to print the search results.
 7. Click Export to download the data to your local drive.

Component Maintenance Status Report

1. Click the Component Maintenance Status sub tab.
2. Use the Simple Search region to query for the existing records. Enter any of the following search criteria:
 - Item Group
 - Unit Name
 - Item
 - Serial
 - Instance

Component Maintenance Status

Simple Search

Note that the search is case insensitive

Item Group

Unit Name

Item

Serial

Instance

Go Clear

Advanced Search Views

Item Group	Item	Serial Number	Instance Number	Unit Name	Details
C70-1	C70-1	311	644123	C70-1, SN 311, Tail # VAS21	oo
C70-1	C70-1	312	644142	C70-1, SN 312, Tail # VAS22	oo
C70-1	C70-1	313	644156	C70-1, SN 313, Tail # VAS23	oo

Save Search

3. Click Go to display the search results.
4. Click the Details icon of an item group to navigate to the Component Maintenance

Status Details page.

Component Maintenance Status Details

Cancel Print Export

Date 08-OCT-2010
Time 03:49:42

Item C70-1
Item Group C70-1
Unit Status Out of the Enterprise
Unit Installed C70-1, SN 311, Tail # VA521
Location Installed

Serial Number 311
Unit C70-1, SN 311, Tail # VA521
Serial Status
Position Installed Airframe
Date Installed

Item Description Airframe, C70-1
Item Type AC_C70
Parent Unit

Maintenance Requirements Specifications

Search Maintenance Requirement Specifications

View V%, RC Go Personalize Simple Search

Show All Details Hide All Details

Details Title

- Show VA-C70-21-150-00
- Show VA-C70-24-020-01
- Show VA-C70-27-36-00
- Show VA-C70-27-73-00
- Show VA-C70-28-20-01
- Show VA-C70-29-030-01
- Show VA-C70-32-30-00
- Show VA-C70-53-340-00

Current Counter Readings

Counter Name	UOM	Value
CSN	Util Cyc	200
TSN	Util Hour	100

Remarks

Remarks

Test Notes

Test Notes1

5. The Component Maintenance Status Details page displays the following information:
- Date: Current system date.
 - Time: Current system time.
 - Item: Item name.
 - Item group: Item Group name associated with the item instance.
 - Unit Status: Unit status.
 - Unit Installed: Name of the unit installed. If not installed, displays the subinventory name.
 - Location Installed: Location to which the unit instance is installed.
 - Serial Number: Serial number of the selected item instance.
 - Unit: Unit name.
 - Serial Status: Status of the serial.
 - Position Installed: Position to which the unit instance is installed. If not installed, display the locator value.
 - Date Installed: Installation date.

- Item Description: Description of the item.
 - Item Type: Item type of the selected item.
 - Parent Unit: Next higher unit there is an IAW configuration tree.
 - Maintenance Requirements Specifications: Applicable MRs and their corresponding counter readings.
 - Current Counter Readings: Displays the current counter readings applicable for the item instance.
6. Click Print to print the search results.
 7. Click Export to download the data to your local drive.
 8. Click the **Simple Search** button on the Search Maintenance Requirement Specifications region.

9. Enter any of the following search criteria to query the required information:
 - MR Title
 - Program Type
 - Program Subtype
 - Category
 - Implementation Status
 - Service Type
10. Click Go to display your search results.
11. Click the **Save Search** button to save your search results. When you click this button, you can specify additional criteria and view name that uniquely identifies the search.
12. Click Apply to save the search criteria for future MR Counter reading search.

13. Once a view (set of search criteria) is saved, a Views drop-down appears in the Maintenance Requirement Specification search region. Select a view and click Go to view the filtered results.

Aircraft Maintenance Status Report

1. Click the Aircraft Maintenance Status sub tab.
2. Use the Simple Search region to query for the existing records. Enter any of the following search criteria:
 - Unit Name
 - Item
 - Serial Number
 - Instance Number

The screenshot displays the Oracle Complex MRO interface. The top navigation bar includes links for Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, and Sign Out. Below this, a secondary navigation bar shows tabs for Approvals, Workflow, Department Shift, Spaces, Space Unavailability, Reliability, Vendor Sourcing, Reports, and Maintenance Requirement Status Reports. The 'Aircraft Maintenance Status' sub-tab is selected. The main content area is titled 'Aircraft Maintenance Status' and features a 'Simple Search' section. This section includes a note: 'Note that the search is case insensitive.' Below the note are four input fields for 'Unit Name', 'Item', 'Serial Number', and 'Instance Number', each with a magnifying glass icon to its right. A 'Go' button and a 'Clear' button are positioned below the input fields. To the right of the input fields are buttons for 'Advanced Search' and 'Views'. Below the search fields is a table with columns: 'Unit Name', 'Item', 'Serial Number', 'Instance Number', and 'Details'. The 'Unit Name' column contains the text 'No search conducted.' At the bottom right of the table is a 'Save Search' button. The footer of the page contains the same navigation links as the top bar, along with a copyright notice: 'Copyright 2009, Oracle Corporation. All rights reserved.'

3. Click Go to display the search results.
4. Click the Details icon to navigate to the Aircraft Maintenance Status Details page.

Approvals | Workflow | Department Shift | Spaces | Space Unavailability | Reliability | Vendor Sourcing | Reports | Maintenance Requirement Status Reports

Component Maintenance Status | **Aircraft Maintenance Status** | Maintenance Requirement Information and Status

Logged In As: TSMITH

Aircraft Maintenance Status

Unit: C70-1, SN 311, Tail # VAS21
Instance Number: 644123
Item: C70-1
Serial Number: 311
Mfg Date: _____

Date: 05-Oct-2010
Time: 02:16:38

Cancel | Print | Export

Counter Details

Counter Name	Counter Value	Counter UOM
CSN		URI Cyl
TSN		URI Hour

Maintenance Requirement Details

Search Maintenance Requirements

View: Title V | Go | Personalize | Simple Search

Previous 1-10 Next 10

Details	Title	Last Accomplished Date	Next Due	Planned Date	Visit Number
Show	VA-C70-21-150-00				
Show	VA-C70-21-40-00				
Show	VA-C70-24-020-01	23-Oct-2009			
Show	VA-C70-27-36-00				
Show	VA-C70-27-73-00				
Show	VA-C70-28-20-01			20-Oct-2009	27
Show	VA-C70-28-20-01				
Show	VA-C70-29-030-01	23-Oct-2009			
Show	VA-C70-32-30-00				
Show	VA-C70-33-340-00			20-Oct-2009	29

Previous 1-10 Next 10

Notes
No record found.

Previous | Next | End

5. The Aircraft Maintenance Status Details page displays the following information:

- Date: Current system date.
- Time: Current system time.
- Unit: Unit Configuration name.
- Instance Number: Instance number of UC root node.
- Item: Name of Item.
- Serial Number: Serial number of UC root node.
- Mfg Date: Date of manufacture.
- Title: MR Title.
- Last Accomplished Date: Date when MR was last accomplished.
- Next Due: Next due date.
- Planned Due: Planned visit date.

6. Click Print to print the search results.

7. Click Export to download the data to your local drive.

8. Click the **Simple Search** button on the Search Maintenance Requirements region.

Maintenance Requirement Details

Simple Search

Note that the search is case insensitive

Views

Title

Program Type

Program Subtype

Category

Go Clear

Details Title	Last Accomplished Date	Next Due	Planned Date	Visit Number	Next Weight Check Due
No search conducted.					

9. Enter any of the following search criteria to query the required information:
 - Title
 - Program Type
 - Program Subtype
 - Category
10. Click Go to display your search results.
11. Click the **Save Search** button to save your search results. When you click this button, you can specify additional criteria and view name that uniquely identifies the search.
12. Click Apply to save the search criteria for future MR Counter reading search.
13. Once a view is saved, a Views drop down menu appears in the Maintenance Requirement Specification search region. Select a view and click Go to view the filtered results.

Maintenance Requirement Information Details and Status Report

1. Click the Maintenance Requirement Information Details and Status sub tab.
2. Use the Simple Search region to query for existing records. Enter search criteria such as:
 - Title
 - Program Type
 - Program Subtype
 - Category
 - Description

ORACLE Complex MRO

Home CMRO Home Engineering Configuration Planning **Administration** Execution Profile Sign Out

Approvals Workflow Department Shift Spaces Space Unavailability Reliability Vendor Sourcing Reports **Maintenance Requirement Status Reports**

Component Maintenance Status Aircraft Maintenance Status **Maintenance Requirement Information and Status**

Logged In As TSMITH

Maintenance Requirement Information and Status Display

Save Search

Simple Search

Note that the search is case insensitive

Advanced Search Views

Title test%
Program Type
Program Subtype
Category
Description

Go Clear

Title	Description	Revision	Version Number	Details	Status
test_sign			1	oo	oo
Test Parent MR			1	oo	oo
Test Child MR			1	oo	oo

Save Search

Approvals Workflow Department Shift Spaces Space Unavailability Reliability Vendor Sourcing Reports **Maintenance Requirement Status Reports** Home CMRO Home Engineering Configuration Planning **Administration** Execution Profile Sign Out

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- Click Go to display the search results.
- Click the Details icon to navigate to the Maintenance Requirement Information Details page.

Maintenance Requirement Information

Back Print Export

Date 05-OCT-2010
Time 02:23:31 AM

Number Text Parent MR
Program Type/Subtype Revision
Repetitive Category
Orig. Date 23-Jun-2010 Implement Status
Ch Date Mandatory
Last Rev. Date 23-Jun-2010

Affected Fleet

Item	Serial	Status	Owner	Condition	Unit
C70-2	411	Out of the Enterprise	General Technologies		C70-2, SN 411, Tail # VA661
C70-2	412	Out of the Enterprise	General Technologies		C70-2, SN 412, Tail # VA662
C70-2	413	Out of the Enterprise	General Technologies		C70-2, SN 413, Tail # VA663

Approved Data

Document Number	Description	Type	Sub Type	Revision
No results found.				

Reference Data

Route Number	Document Number	Description	Type	Sub Type	Revision
21-040-00-00	21-07-02	Equipment Cooling Fan	Aircraft	MAINTENANCE MANUAL	1

Routes

Show All Details Hide All Details

Details Route Number Title Revision Time Span

Hide 21-040-00-00 E/E cooling supply fan filter 1 2

Route Flexfields

Key Flex Field

14
System 1 System 2 System 3

Description
Comments
MOO Status Open
Last Rev By TSMITH

Down Time

Back Print Export

- The Maintenance Requirement Information Details page displays the following information:
 - Date: Current system date.
 - Time: Current system time.
 - Number: MR Title.
 - Revision: MR revision.

- Program Type/Subtype: Program Type/ Program Subtype of the MR.
- Category: Category of the MR.
- Repetitive: Flag to show if the MR is repetitive or not.
- Implement Status: Implement status of the MR.
- Orig. Date: Effective from date of the MR with version 1.
- Last Rev. Date: Effective from date of the oldest MR version with the same revision number.
- Cls. Date: Only for non-repetitive MR's. MR accomplished (or initial accomplishment) date for the last of the effectivities to be accomplished.
- Affected Fleet: The affected fleet for the MR.
- Item: The items affected for the MR.
- Serial: The serial number of the item instance.
- Status: Item status.
- Owner: The owner party of the Item instance.
- Condition: The condition of the item instance.
- Unit: The unit at which the item is installed.
- Approved Data Number: Document number of the documents attached to the MR.
- Approved Data Description: Document description of the documents attached to the MR.
- Approved Data Type: Document type of the documents attached to the MR.
- Approved Data Subtype: Document subtype of the documents attached to the MR.
- Approved Data Revision: Document revision of the documents attached to the MR.
- Reference Data Number: Document number of the documents attached to the routes of the MR.
- Reference Data Description: Document description of the documents attached

to the routes of the MR.

- Reference Data Type: Document type of the documents attached to the routes of the MR.
 - Reference Data Subtype: Document subtype of the documents attached to the routes of the MR.
 - Reference Data Revision: Document revision of the documents attached to the routes of the MR.
 - Route Number: Number of route attached to MR.
 - Title: Title of route attached to MR.
 - Revision: Revision of route attached to MR.
 - Time Span: Time span of the route.
 - Key Flexfield: Route key flexfields (KFFs).
 - Description: Description of the MR.
 - Comments: Comments for the MR.
 - Last Rev By: The user name that made the last modification to the current MR version.
6. Click Print to print the search results.
 7. Click Export to download the data to your local drive.
 8. Click Cancel to navigate back to the Maintenance Requirement Information Details and Status page.
 9. Click the Status icon to navigate to the Maintenance Requirement Information Status page.

ORACLE Complex MRO

Home CMRO Home Engineering Configuration Planning **Administration** Execution Profile Sign Out

Approvals Workflow Department Shift Spaces Space Unavailability Reliability Vendor Sourcing Reports **Maintenance Requirement Status Reports**

Component Maintenance Status Aircraft Maintenance Status **Maintenance Requirement Information and Status**

Logged In As TSMTH

Modification Unit Status

Number skr-test-8
Repetitive Yes
Revision
Category Ground Service Equipment

Implement Status **Mandatory**

Date 05-OCT-2010
Time 03:09:35 AM

[Show All Details](#) | [Hide All Details](#)

Details	Unit Name	Item	Serial Number	Status	Due Date	Position
Hide	C70-1, SN 311, Tail # VAS21	C70-1	311	Open	2010-06-02 00:00:00.0	Airframe

Counter Details

Counter Name	UOM	Specification Value	Accumulated Value	Remaining Value	Value Triggered
TSN	Unit Hour	100	100		<input checked="" type="checkbox"/>

Last Accomplishment Details

Date	Location	Revision
29-Jan-2010 SFM		
29-Jan-2010 SFM		

Show	C70-1, SN 312, Tail # VAS22	C70-1	312	Open	2010-06-02 00:00:00.0	Airframe
Show	C70-1, SN 313, Tail # VAS23	C70-1	313	Open	2010-06-01 00:00:00.0	Airframe

[Back](#) [Print](#) [Export](#)

Approvals Workflow Department Shift Spaces Space Unavailability Reliability Vendor Sourcing Reports Maintenance Requirement Status Reports Home CMRO Home Engineering Configuration Planning **Administration** Execution Profile Sign Out

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10. The Maintenance Requirement Information Status page displays the following information:

- Date: Current system date.
- Time: Current system time.
- Number: MR Title.
- Revision: MR revision.
- Category: Category of the MR.
- Repetitive: Indicates if the MR is repetitive or not.
- Implement Status: Implement status of the MR.
- Unit Name: IAW the affected Item-Serial and configurations.
- Item: The item number of the item associated with MR.
- Serial Number: The serial number of the Item.
- Status: Status is Open if repetitive or non-repetitive not yet accomplished. Status is Closed if not repetitive but already accomplished.
- Due Date: Date that the MR is due.
- Position: The current applicable unit configuration.
- Counter Name: Name of the counter associated.

- UOM: Unit of measure of the counter.
- Specification Value (HRS, CYC, DYS): Interval threshold value for the MR.
- Accumulated Value (HRS, CYC, DYS): Accumulated readings for the MR.
- Remaining Value (HRS, CYC, DYS): Calculated as accumulated reading less net counter reading.
- Date: The last accomplished date of the MR.
- Location: The organization where the MR is accomplished.
- Revision: Revision for the MR.

Windows and Navigation Paths

This appendix covers the following topics:

- Windows and Navigation Paths

Windows and Navigation Paths

This appendix provides the navigation paths for Oracle Complex Maintenance, Repair, and Overhaul:

- Brackets surrounding an entity in a path indicates a button selection.
- Braces surrounding an entity indicates a drop-down menu option.
- Tabs, Secondary tabs, Links, and Icons are noted for the related entity.

Window or Page Name	Navigation Path
Add Alternates	Configuration > Master Configuration (tab) > Alternate Parts (secondary tab) > [Create]
Add Availability Restriction	Administration > Space Unavailability (tab) > [Create]
Add Space	Administration > Spaces (tab) > [Create]
Add Units - Search Unit Configuration	Planning > Forecasting > Fleet -Unit Association > Search Fleet-Unit Associations > Applicable Units > Add Units
Aircraft Maintenance Status	Administration > Maintenance Requirement Status Reports > Aircraft Maintenance Status

Window or Page Name	Navigation Path
Assembly Bills of Material	Complex MRO > Administration > Reports > Assembly Bills of Material
Associate Document Sub Type To Document Type	Engineering > Document Index (tab) > Associate type (secondary tab)
Associate Major Zone To Item Type	Engineering > Route Management (tab) > Major Zones (secondary tab)
Associate Operations	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Associate Operations
Associate Sub Zone To Item Type	Engineering > Route Management (tab) > Sub Zones (secondary tab)
Attach Reference Documents (for an Operation)	Engineering > Route Management (tab) > Operations (secondary tab) > select record > Operation > Reference Documents
Attach Reference Documents (for a route)	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Reference Documents
Available Items	Marshalling Workbench > Visit Details > Available Items (link)
Bulk Part Installation	Execution > Production Planning > Work Orders > Perform Search > Update Work Orders (Action Item) > Work Order Operations > Bulk Part Install (Select Action Item)
Bulk Part Removal	Execution > Production Planning > Work Orders > Perform Search > Update Work Orders (Action Item) > Work Order Operations > Select Action Item, Bulk Part Removal
Cannibalization	Complex MRO Material Marshalling User > Demand and Supply Management > Select AOG in selection criteria > Select Material (line) > Click the AOG icon (line item)

Window or Page Name	Navigation Path
Common Setup	Administration > Reports > Common Setup
Component Maintenance Status	Administration > Reports > Component Maintenance Status
Component Removal Forecast	Administration > Reports > Component Removal Forecast
Component Removal/Installation History	Administration > Reports > Component Removal/Installation History
Component Technician Workbench	Complex MRO Component Technician > Component Technician > My Work Orders
Composition Selection	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Disposition Associations > Disposition Details > [Select from Composition]
Copy Product Classification	Configuration > Product Classification (tab) > [Copy]
Copy to a New Plan	Planning > Long Term Planning (tab) > Simulations (secondary tab) > select record > [View Plan] > select record > [Copy To a New Plan]
Cost Structure	Planning > Visit Work Package (tab) > select record > Cost structure
Counter Associations	Administration > Reliability (tab) > Counter Associations
Counters for Utilization History	Administration > Utilization History (tab) > Counter Setup
Create Composition List	Engineering > Route Management (tab) > Item Compositions (secondary tab) > [Create]
Create Department Shift	Administration > Department Shift (tab) > [Create]

Window or Page Name	Navigation Path
Create Document	Engineering > Document Index (tab) > [Create]
Create Exchange Order	Execution > Outside Processing (tab) > {Create OSP} > select job record > [Create Exchange]
Create Fleet	Planning > Fleet Forecasting > Fleets > [Create]
Create Forecast Association	Administration > Reliability (tab) > Forecast Associations > [Create]
Create Loan Order	Execution > Outside Processing (tab) > {Create OSP} > select job record > [Create Loan]
Create Maintenance Requirement	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > [Create]
Create Maintenance Requirement Non-routine Profiles	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > Non-routines
Create Master Configuration	Configuration > Master Configuration (tab) > Overview (secondary tab) > Create
Create MEL/CDL	Engineering > MEL/CDL (tab) > Overview > Search Product Classification > [Go] > [Tree] > [select Node] > Node Details > [Create]
Create New Revision	Engineering > Document Index (tab) > Search (secondary tab) > select record > [Create New Revision]
Create Non-routine	Planning > Unit Maintenance Plan > Non-routines > Search Non-routine > [Create]
Create Operation	Engineering > Route Management (tab) > Operations (secondary tab) > [Create]
Create OSP Line	Execution > Outside Processing (tab) > select record > Order Number > [Create Order Line]

Window or Page Name	Navigation Path
Create OSP Order	Execution > Outside Processing (tab) > {Create OSP} > select job record > [Create OSP]
Create Planned Task	Planning > Visit Work Package (tab) > select record > Visit number > Visit Tasks > [Create Planned Task] > select unit maintenance plan > {Associate to Visit} > [Go]
Create Primary Visit Request	Planning > Auto Visit Planning > Primary Visit Requests > [Create]
Create Product Classification	Configuration > Product Classification (tab) > [Create]
Create Relationship	Administration > Vendor Sourcing > Item Service Relationships > Create Relationship
Create Reliability Definition	Administration > Reliability (tab) > Reliability Definitions > [Create]
Create Resources	Engineering > Route Management (tab) > Resources (secondary tab) > [Create]
Create Route	Engineering > Route Management (tab) > Routes (secondary tab) > [Create]
Create Rule	Configuration > Master Configuration (tab) > Overview (secondary tab) > select record > Name > {Rules} > [Create Rule]
Create Service Request	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Create Service Request} > [Go]
Create Shipment Line	Execution > Outside Processing (tab) > select record > Order Number > Shipments > [Create Shipment Line]
Create Summary Task	Planning > Visit Work Package > Visits > Select visit (link) > Visit Tasks tab > {Create Summary Task} from Select Task drop-down

Window or Page Name	Navigation Path
Create Unassociated Task	Planning > Visit Work Package > Visits > Select visit (link) > Visit Tasks tab > Create Unassociated Task from Select Task drop-down)
Create Unit Configuration	Configuration > Unit Configuration (tab) > Create From Master (secondary tab) > [Create Unit configuration]
Create Unplanned Task	Planning > Visit Work Package (tab) > select record > {Search Task} > Create Unplanned Task > select maintenance requirement > [Associate to Visit]
Create Visit	Planning > Visit Work Package (tab) > [Create]
Create Visit Types	Administration > Visit Types > Visit Types > [Create]
Create Warranty Claim	Configuration > Supplier Warranty > Claim Management > Search Warranty Claim > [Create]
Create Warranty Template	Configuration > Supplier Warranty > Create Warranty Template > [Create]
Customer Relationships	Administration > Vendor Sourcing > Customer Relationships
Data Clerk Workbench	Complex MRO Data Clerk > Data Clerk > Work Orders
Define Disposition Associations	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Disposition Associations
Define Material Requirements (for an operation)	Engineering > Route Management (tab) > Operations (secondary tab) > select record > Operation > Material Requirements
Define Material Requirements (for a route)	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Material Requirements

Window or Page Name	Navigation Path
Define Repair Batch Workscope	Planning > Component Maintenance > Repair Batches > Edit icon for batch (line)
Define Resource Requirements (for an operation)	Engineering > Route Management (tab) > Operations (secondary tab) > select record > Operation > Resource Requirements
Define Resource Requirements (for a route)	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Resource Requirements
Disposition List Details	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Disposition Associations > Disposition Details
Distribution Information	Engineering > Document Index (tab) > Search (secondary tab) > select record > Document Num > Distribution
Edit Access Panels	Engineering > Route Management (tab) > Operations (secondary tab) > Access Panels Engineering > Route Management (tab) > Routes (secondary tab) > Access Panels
Edit Alternates	Configuration > Master Configuration (tab) > Alternate Parts (secondary tab) > select record > Group Name
Edit Associated Positions	Configuration > Master Configuration (tab) > Alternate Parts (secondary tab) > select record > {View Positions} > [Go]
Edit Availability Restriction	Administration > Space Unavailability (tab) > select record > Space
Edit Document	Engineering > Document Index (tab) > Search (secondary tab) > select record > Document Num

Window or Page Name	Navigation Path
Edit Document Associations	Configuration > Master Configuration (tab) > Overview (secondary tab) > select record > Name > {Documents}
Edit Exchange Order	Execution > Outside Processing (tab) > select record > order number
Edit Fleet	Planning > Fleet Forecasting > Fleets > Edit Fleet
Edit Maintenance Requirement Non-routine Profile	Engineering > Reliability > Nonroutine Profiles > Search for record
Edit Master Configuration	Configuration > Master Configuration (tab) > Overview (secondary tab) > select record > [Edit]
Edit Operation	Engineering > Route Management (tab) > Operations (secondary tab) > select record > Operation
Edit OSP Order	Execution > Outside Processing (tab) > select record > Order Number
Edit OSP Line	Execution > Outside Processing (tab) > select record > Order Number > Line Number
Edit Product Classification	Configuration > Product Classification (tab) > select record > Tree
Edit Reliability Definition	Administration > Reliability (tab) > Reliability Definitions > Select Position > [Associate]
Edit Revision	Engineering > Document Index (tab) > Search (secondary tab) > select record > [Edit Revision]
Edit Rules	Configuration > Master Configuration (tab) > Overview (secondary tab) > select record > Name > {Rules}

Window or Page Name	Navigation Path
Edit Shipment Header	Execution > Outside Processing (tab) > select record > Order Number > Shipments
Edit Shipment Line	Execution > Outside Processing (tab) > select record > Order Number > Shipments > select record > Line Number
Edit Space	Administration > Spaces (tab) > Space
Edit Subscription Information	Engineering > Document Index (tab) > Search (secondary tab) > select record > Document Num > Subscription
Edit Unit Configuration	Configuration > Unit Configuration (tab) > Search Unit (secondary tab) > select record > Edit
Electronic File Upload	Engineering > Document Index (tab) > Search (secondary tab) > select record > [Upload]
Fleet Downtime Percentage Report	Administration > Maintenance Requirement Status Reports > Fleet Downtime Percentage Report
Flight Schedules	Complex MRO Transit Technician > Transit Technician > Flight Schedule
Forecast Associations	Administration > Reliability (tab) > Forecast Associations
Group Maintenance Requirement	Planning > Unit Maintenance Plan (tab) > Overview (secondary tab) > select record > {View Group MR} > [Go]
Initialize Maintenance Requirement	Planning > Unit Maintenance Plan (tab) > Overview (secondary tab) > select record > {Initialize MR} > [Go]
Item Instance Details	Planning > Visit Work Package > Visits > Repair Workscope > Instances in Visit region

Window or Page Name	Navigation Path
Item Number/Serial Number Change	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > {Item/Serial Number Change} > [Go]
Item Service Relationships	Administration > Vendor Sourcing > Item Service Relationships
Items without Price	Planning > Visit Work Package (tab) > select record > {Cost and Price Information} > [Go] > Maintenance Requirements > select requirement > Cost/Price > [Items Without Price]
Maintenance Requirement Cost and Price	Planning > Visit Work Package (tab) > select record > {Cost and Price Information} > [Go] > Maintenance Requirements > select requirement > Cost/Price
Maintenance Requirement Deferral Details	Execution > Production Planning (tab) > Maintenance Requirements (secondary tab) > select record > [Defer]
Maintenance Requirement Information Details and Status	Complex MRO > Administration > Reports > Maintenance Requirement Information Details and Status
MR - Maintenance Organizations	Engineering > Fleet Maintenance Program > Maintenance Organizations
Maintenance Requirement Relationships	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title > Relationships
Marshalling Workbench	Complex MRO > Marshalling Workbench Complex MRO Material Marshalling User > Material Marshalling > Visit Management
Material Availability	Planning > Long Term Planning (tab) > Visits (secondary tab) > select record > [Plan Visit] > Material Availability

Window or Page Name	Navigation Path
Material Requirements	Planning > Long Term Planning (tab) > Material Requirements
MEL/CDL Associations	Engineering > MEL/CDL (tab) > Overview > [Go] > Tree
Migrate Unit Configuration	Configuration > Unit Configuration (tab) > Search Unit (secondary tab) > select record > [Migrate]
Job Operations	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go]
Job Overview	Execution > Production Planning (tab) > Work Orders (secondary tab)
Operation (Detail)	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > select operation record > [Details]
Operational Visit Autocreate	Planning > Auto Visit Planning > Operational Visit Autocreate
Part Changes	Administration > Reliability (tab) > Part Change History
Part Number Status	Administration > Reports > Part Number Status
Perform Material Transactions	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > Material Transactions
Perform Resource Transactions	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > Resource Transactions
Planning Workbench	Planning > Planning Workbench

Window or Page Name	Navigation Path
Primary Visit Default Parameters	Planning > Auto Visit Planning > Primary Visit Default Parameters
Purchase Order Details	Execution > Outside Processing (tab) > select record > Order Number > PO Details
Quick Removal and Installation	Execution > Production Planning > Work Orders > Perform Search > Update Work Orders (Action Item) > Work Order Operations Page > Item Bulk Part Install (Select Action Item)
Receive Shipment	Execution > Outside Processing (tab) > OSP Orders (secondary tab) > Receive Shipment
Reliability Definitions	Administration > Reliability (tab) > Reliability Definitions
Reliability Setup	Administration > Reliability (tab) > Setup
Repair Categories	Engineering > MEL/CDL (tab) > Repair Categories
Resource Assignments	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > Assignments
Resource Leveling	Planning > Long Term Planning (tab) > Resource Leveling
Resource Requirements	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > Resources
Resource Requirement Detail	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > Resources > select requirement > [Details]
Required Materials	Execution > Production Planning (tab) > Materials (secondary tab)

Window or Page Name	Navigation Path
Route Dependencies	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title > Routes > Dependency
Scheduled Materials	Planning > Long Term Planning (tab) > Visits (secondary tab) > select record > [Plan Visit] > Scheduled Materials
Schedule Visit	Planning > Long Term Planning (tab) > Visits (secondary tab) > [Plan Visit]
Schedule Visits	Planning > Long Term Planning (tab) > Visits (secondary tab) > [Plan Visit] > Schedule Visits
Search Alternate Items	Configuration > Master Configuration (tab) > Alternate Parts (secondary tab)
Search Availability Restrictions	Administration > Space Unavailability (tab)
Search BOM Resource	Engineering > Route Management (tab) > Resources (secondary tab) > [Create] > [Attach]
Search Department Location	Administration > Department Location (tab)
Search Department Shift	Administration > Department Shift (tab)
Search Document	Engineering > Document Index (tab)
Search Entitlements	Configuration > Supplier Warranty > Warranty Entitlements
Search Fleets	Planning > Fleet Forecasting > Fleets
Search Fleet-Unit Associations	Planning > Fleet Forecasting > Fleet-Unit Association
Search Item	Planning > Unit Maintenance Plan (tab) > Utilization Forecast (secondary tab)
Search Item Compositions	Engineering > Route Management (tab) > Item Compositions (secondary tab)

Window or Page Name	Navigation Path
Search Maintenance Requirements	Planning > Visit Work Package > Visits > Select visit (link) > Maintenance Requirements tab > {Add Unplanned Task}
Search Maintenance Requirements	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab)
Search Maintenance Requirements (for a visit)	Planning > Visit Work Package (tab) > select record > {Maintenance Requirements} > [Go]
Search Maintenance Requirements (in the Execution module)	Execution > Production Planning (tab) > Maintenance Requirements (secondary tab)
Search Master Configuration	Configuration > Master Configuration (tab) > Overview (secondary tab)
Search Non-routine	Planning > Unit Maintenance Plan > Non-routines
Search Non-routine Profiles	Engineering > Reliability > Non-Routine Profiles
Search Operation	Engineering > Route Management (tab) > Operations (secondary tab)
Search OSP Order	Execution > Outside Processing (tab)
Search Primary Visit Requests	Planning > Auto Visit Planning > Primary Visit Requests
Search Product Classification	Configuration > Product Classification (tab)
Search Repair Batch	Planning > Component Maintenance > Repair Batch
Search Repair Forecast	Planning > Assembly Maintenance > Repair Forecast
Search Repair Items	Planning > Component Maintenance > Repair Items

Window or Page Name	Navigation Path
Search Supply and Demand	Planning > Component Maintenance > Supply and Demand
Search Resources	Engineering > Route Management (tab) > Resources (secondary tab)
Search Route	Engineering > Route Management (tab) > Routes (secondary tab)
Search Spaces	Administration > Spaces (tab)
Search Unit Configuration	Configuration > Unit Configuration (tab) > Search Unit (secondary tab)
Search Unit Maintenance Plan	Planning > Unit Maintenance Plan (tab) > Overview (secondary tab)
Search Visit	Planning > Visit Work Package (tab)
Search Visits	Planning > Long Term Planning (tab) > Visits (secondary tab)
Search Visit Task	Planning > Visit Work Package (tab) > select record > {Search Tasks} > [Go]
Search Warranty Claim	Configuration > Supplier Warranty > Claim Management
Search Warranty Instance	Configuration > Supplier Warranty > Search Warranty Instance
Search Warranty Template	Configuration > Supplier Warranty > Search Warranty Template
Search Warranty Template	Configuration > Supplier Warranty > Search Warranty Template
Serial Number History	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > {Item/Serial Number Change} > [Go] > [View History]

Window or Page Name	Navigation Path
Service Bulletin Effectivity Rules	Engineering > Fleet Maintenance Program > Service Bulletin Rules
Service Bulletin Effectivity Rules Workbench	Engineering > Fleet Maintenance Program > Service Bulletin Rules > Workbench
Scheduled Materials	Planning > Long Term Planning (tab) > Visits (secondary tab) > Scheduled Materials
Simulation Plans	Planning > Long Term Planning (tab) > Simulations (secondary tab)
Simulations	Planning > Fleet Forecasting > Utilizations
Submit Quality Results (for a job)	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Record Job QA Results} > [Go]
Supplier Information	Engineering > Document Index (tab) > Search (secondary tab) > select record > Document Num > Supplier
Task Cost and Price	Planning > Visit Work Package (tab) > select record > {Search Tasks} > [Go] > select task > Cost/Price
Task Hierarchy	Planning > Visit Work Package (tab) > select record > {Search Tasks} > [Go] > select task > Task Number > Hierarchy
Unavailable Items	Material Marshalling User > Visit Management > Results > Details icon > Unavailable Items (link)
Unit Schedules	Complex MRO Transit Technician > Transit Technician > Unit Schedule
Unit Serial Numbers	Administration > Reports > Unit Serial Numbers

Window or Page Name	Navigation Path
Unit Configuration Parts Change/Item Instance Parts Change	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > {Perform Part Removal/Install} > [Go]
Unit Configuration Validation Results	Configuration > Unit Configuration (tab) > Search Unit (secondary tab) > select record > [Validate]
Unit Maintenance Forecast - MR Forecast	Planning > Fleet Forecasting > Unit Maintenance Forecast
Unit Maintenance Plan - View Threshold	Planning > Unit Maintenance Plan (tab) > Overview (secondary tab) > select record > {View Threshold} > [Go]
Update Attached Actions	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Actions
Update Attached Documents	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Documents
Update Attached Documents (for a product classification)	Configuration > Product Classification (tab) > select record > Tree > Documents
Update Attached Routes	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Routes
Update Attached Units	Configuration > Product Classification (tab) > select record > Tree > Units/Items
Update Composition List	Engineering > Route Management (tab) > Item Compositions (secondary tab) > select record > Item
Update Costing Parameters (for an operation)	Engineering > Route Management (tab) > Operations (secondary tab) > select record > Operation > Resource Requirements > Costing Parameters

Window or Page Name	Navigation Path
Update Costing Parameters (for a route)	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number > Resource Requirements > Costing Parameters
Update Effectivity	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Effectivities
Update Effectivity Details	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title > Effectivities > Effectivity Details
Update Item Utilization Forecast	Planning > Unit Maintenance Plan (tab) > Utilization Forecast (secondary tab) > select record > [Utilization Forecast]
Update Interval Threshold	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title > Effectivities > Interval Threshold
Update Maintenance Requirement	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title
Update Material Requirements	Execution > Production Panning (tab) > Work Orders (secondary tab) > select record > {Update Work Order} > [Go] > Materials
Update MEL/CDL	Engineering > MEL/CDL (tab) > Overview > [Go] > Tree
Update Resources	Engineering > Route Management (tab) > Resources (secondary tab) > select record > Resource
Update Route	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number

Window or Page Name	Navigation Path
Update Service Request (in the Execution module)	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {Update/View Service Request} > [Go]
Update Task Header	Planning > Visit Work Package (tab) > select record > {Search Tasks} > [Go] > select task > Task Number
Update Visit	Planning > Visit Work Package (tab) > select record > Visit number
Update Warranty Claim	Configuration > Supplier Warranty > Claim Management > Search Warranty Claims > [Edit] for the warranty line item
Update Warranty Template	Configuration > Supplier Warranty > Search Warranty Template > [Edit] for the template line item
Update Work Orders	Execution > My Work Orders > My Work Orders > Update Work Orders
Vendors	Administration > Vendor Sourcing > Vendors
Vendor Sourcing - Vendors	Administration > Vendor Sourcing > Vendors
View Affected Items	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title > Affected Items
View Item Instance Utilization	Configuration > Unit Configuration (tab) > Search Unit (secondary tab) > select record > Edit > [View Utilization]
View Maintenance Requirement (for a product classification)	Configuration > Product Classification (tab) > select record > Tree > Maintenance Requirements
View Maintenance Requirement Detail & History	Planning > Unit Maintenance Plan (tab) > Overview (secondary tab) > select record > {View Details & History}

Window or Page Name	Navigation Path
View Maintenance Requirement (for an Unit Maintenance Plan)	Planning > Unit Maintenance Plan (tab) > Overview (secondary tab) > select record > {View MR Details} > [Go]
View Composition Lists	Configuration > Master Configuration (tab) > Composition List (secondary tab)
View Documents	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {View Documents} > [Go]
View Maintenance Requirement	Execution > Production Planning (tab) > Maintenance Requirements (secondary tab) > select record > Maintenance Requirement
View Product Classifications	Engineering > MEL/CDL (tab) > Overview > [Go] > Tree > select unit configuration
View Purchase Accounting Distributions	Execution > Outside Processing (tab) > select record > Order Number > PO Details > select line item > [PO Shipments] > select Shipment Number > [Accounting Distributions]
View Purchase Order Shipments	Execution > Outside Processing (tab) > select record > Order Number > PO Details > select line item > [PO Shipments]
View Receipts	Execution > Outside Processing (tab) > select record > Order Number > PO Details > select line item > [Receipts]
View Simulation Plan	Planning > Long Term Planning (tab) > Simulations (secondary tab) > select record > [View Plan]
View Warranty Claim	Configuration > Supplier Warranty > Claim Management > Search Warranty Claims > Click the Claim Number
View Warranty Template	Configuration > Supplier Warranty > Search Warranty Template > Click the Template Name link

Window or Page Name	Navigation Path
View Warranty Contract	Configuration > Supplier Warranty > Warranty Contracts > Warranty Contracts > Click Warranty Contract Number link > View Warranty Contract > [View Warranty Workbench]
Visit Cost and Price	Planning > Visit Work Package (tab) > select record > {Cost and Price Information} > [Go]
Visit Details	Planning > Long Term Planning (tab) > Visits (secondary tab) > select record > [Plan Visit] > Scheduled Visits > View Material Marshalling User > Visit Management > Results > Details icon
Visit Types	Administration > Visit Types > Visit Types
Visit Details: Marshalling	Complex MRO > Marshalling Workbench > Visit Details
Visit Errors	Planning > Visit Work Package (tab) > select record > {Validate} > [Go]
WVP - Organization Schedule	Planning > Visit Work Package > Visits > Search Visits > Click Visit link > {Schedule option} Select Visit drop-down > [Go]
Visits	Complex MRO Transit Technician > Transit Technician > Visits
Warranty Contracts	Configuration > Supplier Warranty > Warranty Contracts
Warranty Workbench	Configuration > Supplier Warranty > Warranty Contracts > Warranty Contracts > {Edit} (for the warranty contract line item) > [Warranty Workbench]
Work Breakdown Structure Rules	Administration > WBS Rules

Window or Page Name	Navigation Path
Work Order Material Demand	Material Marshalling User > Material Marshalling > Demand and Supply Management > Demand and Supply Management (tab)
Work Order Material Demand	Material Marshalling User > Demand and Supply Management
Work Order Material Returns	Execution > Material Transactions > Returns
Work Order Materials Issue	Execution > Material Transactions > Issues
Work Order Overview	Execution > Production Planning (tab) > Work Orders (secondary tab)
Work Order Scheduling Hierarchy	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {View Scheduling Hierarchy} > [Go]

Index

Symbols

CMRO roles

Strategic Operations Planner, 3-3

A

Aircraft Inspector, 3-173

Aircraft Maintenance Planning, 1-5

Aircraft Operator, 2-3

definition, 2-3

AOG Planner, 3-133

Auto Visit Forecasting and Packaging
overview, 1-4

B

business types, 2-2

Aircraft Operator, 2-3

Complex Assembly Maintenance, 2-5

Component Shop, 2-6

Heavy Maintenance, 2-4

C

CMRO

business types, 3-2

processes, 3-2

roles, 3-2

tasks, 3-2

CMRO overview, 1-1

CMRO roles

Aircraft Inspector, 3-173

AOG Planner, 3-133

Complex Assembly Maintenance Planner, 3-

197

Component Shop Planner, 3-233

Crew Lead, 3-171

Engineering - Engineer, 3-75

Heavy Maintenance Planner, 3-144

Heavy Maintenance Supervisor, 3-170

Heavy Maintenance Technician, 3-172

Line Maintenance Supervisor, 3-126

Line Maintenance Technician, 3-129

Local Maintenance Planner, 3-43

Maintenance Controller (MCC), 3-12

Maintenance Records - Data Clerk, 3-109

Marshaller, 3-180

Material Clerk (Issues>Returns), 3-142

OSP Planner/Clerk, 3-191

Reliability Engineer, 3-63

Shop Inspector, 3-229

Shop Maintenance Supervisor, 3-227

Technical Services - Configuration Engineer,
3-67

Technical Services - Document Manager, 3-63

Warranty Administrator/Analyst, 3-87

Complex Assembly Maintenance

overview, 1-5

Complex Assembly Maintenance Planner, 3-197

Complex Maintenance, 1-6

compliance reports, 1-13, 4-1

Component Shop business type, 2-6

Component Shop Planner, 3-233

Crew Lead, 3-171

E

Engineering - Engineer, 3-75
Enigma 3C integration, 1-13

F

FAA compliance reports, 1-13
fleet associations, 1-8

H

Heavy Maintenance
 definition, 2-4
 roles, 2-4
Heavy Maintenance Planner, 3-144
Heavy Maintenance Supervisor, 3-170
Heavy Maintenance Technician, 3-172

L

Line Maintenance Supervisor, 3-126
Line Maintenance Technician, 3-129
Local Maintenance Planner, 3-43

M

Maintenance Controller, 3-12
maintenance requirement profiles, 1-9
Marshaller, 3-180
Material Clerk (Issues/Returns), 3-142

N

non-routines, 1-9

O

Oracle Production Scheduling, 1-10
Oracle Projects Integration, 1-11
Oracle Supply Chain Planning, 1-2
OSP Planner/Clerk, 3-191
overview, CMRO, 1-1

P

processes, 2-2

R

Reliability Engineer, 3-63
reports, compliance, 4-1
roles, 2-2

Strategic Operations Planner, 3-3

S

service bulletins, 1-9
Shop Inspector, 3-229
Shop Maintenance Supervisor, 3-227
simulations, 1-8
Strategic Operations Planner, 3-3
supplier warranty, 1-10

T

task flows, diagrams
 Component Shop Planner, 3-238
 Heavy Maintenance Planner, 3-148
 Line Maintenance Technician, 3-129
 Local Maintenance Planner, 3-44
 Maintenance Controller, 3-14
 Material Clerk (Issues/Returns), 3-143
 Strategic Operations Planner, 3-5
 Warranty Administrator/Analyst, 3-91
tasks, 2-2
Technical Services - Configuration Engineer, 3-67
Technical Services - Document Manager, 3-63

V

Visit Work Planning, 1-7

W

Warranty Administrator/Analyst, 3-87
work breakdown rules (WBS), 1-10