

Oracle® Complex Maintenance, Repair, and Overhaul
Process Guide
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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
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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
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- 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
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- 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
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- 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.

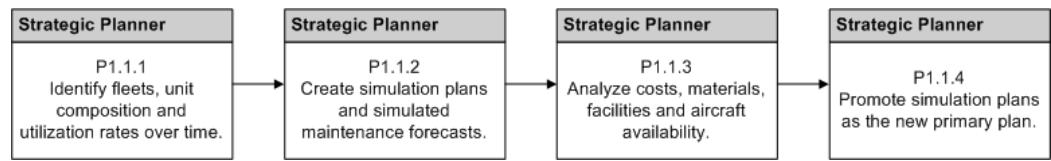
Prerequisite Setup Task	Role Performing Task	Navigation
Create the following entities:	Engineering	Configuration > Master Configuration > Create (B)
<ul style="list-style-type: none"> • Master Configurations • Unit Configurations • Product Classifications 		Configuration > Unit Configuration > Create (B) Configuration > Product Classification > Create (B)
Define the following:	Engineering	Planning > Fleet Forecasting
<ul style="list-style-type: none"> • 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	Implement Plan With Calculation
Plan#13108001	02-Apr-2012					
Demo Day1	06-Jun-2012					
68BNSIM	20-Mar-2012	21-May-2012				
GD-SimPlan002	03-Apr-2012		Simulation Plan created for CERT tesing 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 be 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 software interface. The top navigation bar includes links for Navigator, Favorites, Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, and Sign Out. Below the navigation bar, a sub-menu bar shows Unit Maintenance Plan, Visit Work Package, Planning Workbench, Fleet Forecasting, Component Maintenance, Assembly Maintenance, and Auto Visit Planning. The 'Fleets' link is highlighted. The main content area is titled 'Edit Fleet: GD-REConfigFleet002'. It contains the following sections:

- Fleet Details:** Shows the Fleet name 'GD-REConfigFleet002', Operating Organization 'San Francisco Maintenance Center US', Operating Department 'Outside Processing SFB', and a 'Complete' status.
- Reconfiguration MRs:** A table showing a single row: GD-UnplannedReconfigMR001, Dessert Type, and a lead time of 20 days.
- Associated Utilization Forecasts:** A table showing a single row: Period Start 15-Mar-2012, Period End 20, Usage Per Day Each.
- Maximum Unit Down Times:** A table showing a single row: Period Start, Period End, Max Down Time %, and a note 'No results found.'

At the bottom of the form are 'Cancel', 'Revert', and 'Apply' buttons.

- 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.

- 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

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

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

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

- 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

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.

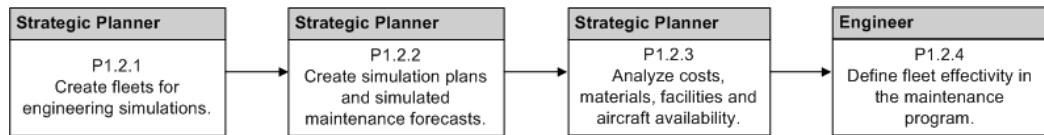
After the plan is implemented, the simulation plan status is changed to Implemented and is no longer visible in CMRO.

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 effectiveness 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 schedule 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

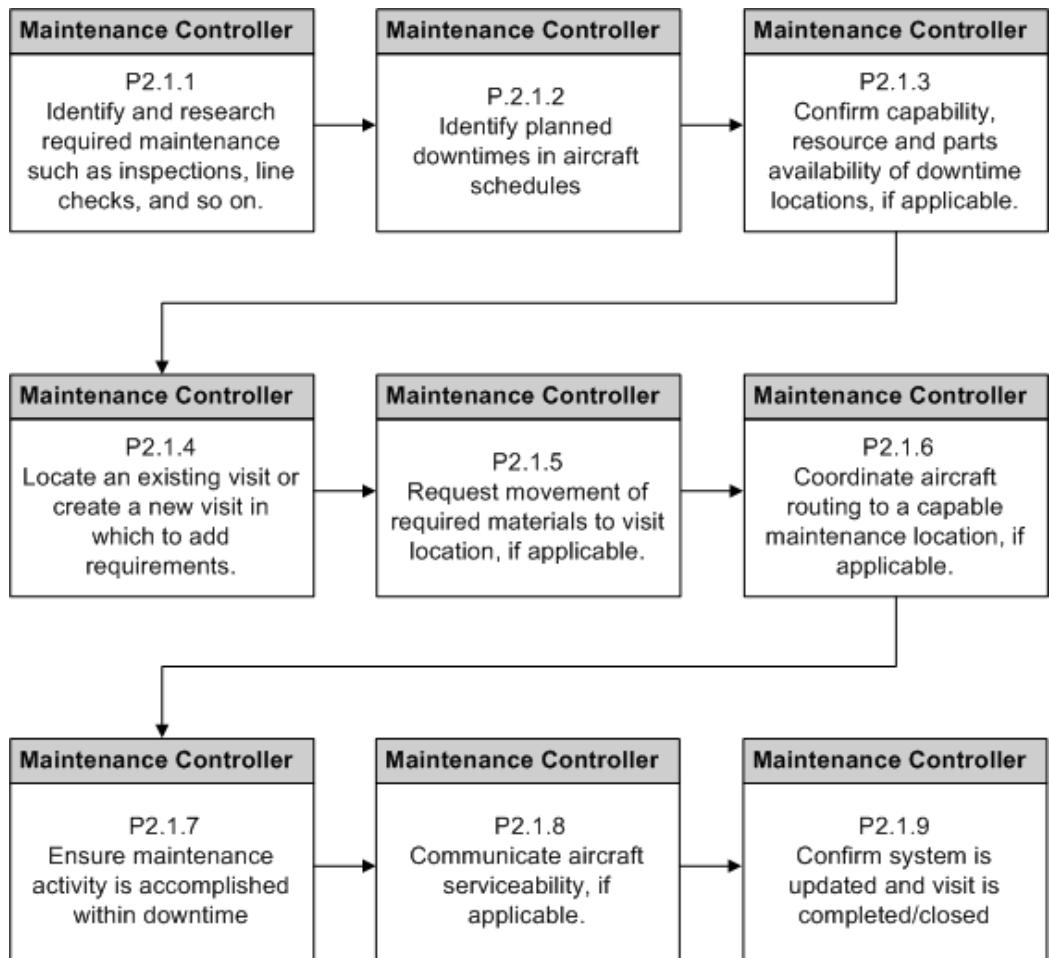
- The following prerequisite setup tasks must be performed before transit visits are automatically created.

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

Unit Maintenance Plan

Hide UMP Search Region

Simple Search

Unit Name	Item	Fleet
Title	KAL_SS_EC_E_HT_MR_0	Serial Number
Due From	08-Apr-2013	Scheduled Status
Program Type		Due To
Due Within	UOM	Program Sub Type
Arrival Organization		Implement Status
Non Routine Type		On Wing

Advanced Search

Select Requirements: Search Unit Downtimes Create Visit

Select All | Select None | Show All Details | Hide All Details

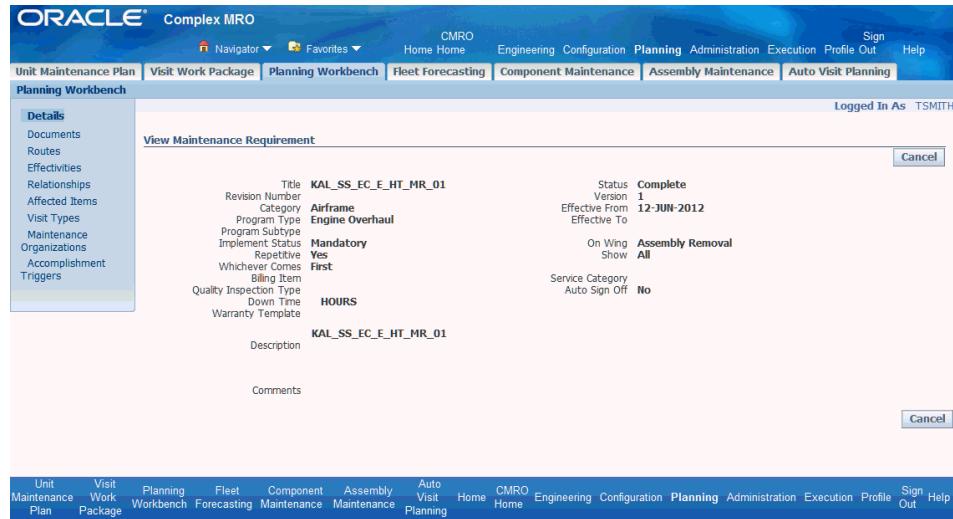
Select Details	Unit	Program Type	Title	Item Number	Serial Number	View All UOMs	All Cnt	Cnt	UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Request
<input type="checkbox"/>	<input type="checkbox"/> Hide SS_P100_1717 Engine Overhaul	KAL_SS_EC_E_HT_MR_01	SS_EC_E_HT	1717-1	1717-1	1717-1	1717-1	1717-1	1717-1	1717-1	1717-1	08-Apr-2013			
Fleet: 2888Fleet Fleet Operating Org: JFK Maintenance Center Requirement Implement Status: Mandatory Requirement Program Sub Type: Service Category: Requirement Engineering Org: JFK Maintenance Center Requirement Duration: UOM: HOURS Master Configuration: SS_P100 Position: SS_EC_E_HT															
<input type="checkbox"/>	<input type="checkbox"/> Show SS_P100_1717 Engine Overhaul	KAL_SS_EC_E_HT_MR_01	SS_EC_E_HT	1717-2	1717-2	1717-2	1717-2	1717-2	1717-2	1717-2	1717-2	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



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: \$%

Department:

Arrived From:

Service Category:

Fleet Unit:

Departure To: 11-Jan-2012 00:00:00

Minimum Duration: 10 UOM: Hours

Advanced Search

Go | Clear

Select Unit Downtime: View Organization Schedule | Go | Previous 1-10 of 22 | Next 10

Show All Details | Create Visit | Unit | Arrival Org | Dept. | Service Category | Estimated Arrival Time | Actual Arrival/Down Time | Down UOM | Departure Flight | Next Org. | Estimated Departure Time | Actual Departure Time | Search ID

Select Details	Visit	Unit	Arrival Org	Dept.	Service Category	Estimated Arrival Time	Actual Arrival/Down Time	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search ID
<input type="radio"/> C79-1, SN511, 418		C79-1, SN511, 418	San Francisco Maintenance Line Maintenance, Center US	SPM		01-Oct-2006 14:18:00	29.2	Hours	413	DFW Maintenance Center US	02-Oct-2006 19:30:00	00	
<input type="radio"/> C79-2, SN412, 320		C79-2, SN412, 320	San Francisco Maintenance Line Maintenance, Center US	SPM		02-Oct-2006 03:00:00	12	Hours	325	DFW Maintenance Center US	02-Oct-2006 15:00:00	00	
<input type="radio"/> C79-3, SN511, 450		C79-3, SN511, 450	San Francisco Maintenance Line Maintenance, Center US	SPM		04-Oct-2006 03:00:00	11	Hours	455	DFW Maintenance Center US	04-Oct-2006 14:00:00	00	
<input type="radio"/> C79-4, SN422, 938		C79-4, SN422, 938	San Francisco Maintenance Line Maintenance, Center US	SPM		25-Sep-2007 15:30:00	16.5	Hours	939	JFK Maintenance Center US	26-Sep-2007 08:00:01	00	
<input type="radio"/> C80-1, SN944, 273		C80-1, SN944, 273	San Francisco Maintenance Line Maintenance, Center US	SPM		26-Sep-2007 00:30:00	10.25	Hours	274	JFK Maintenance Center US	26-Sep-2007 10:45:00	00	
<input type="radio"/> C80-2, SN422, 547		C80-2, SN422, 547	San Francisco Maintenance Line Maintenance, Center US	SPM		26-Sep-2007 13:30:00	23.5	Hours	524	JFK Maintenance Center US	27-Sep-2007 13:00:00	00	
<input type="radio"/> C80-3, SN422, 287		C80-3, SN422, 287	San Francisco Maintenance Line Maintenance, Center US	SPM		26-Sep-2007 14:30:00	23.5	Hours	249	JFK Maintenance Center US	27-Sep-2007 14:00:00	00	
<input type="radio"/> C80-4, SN944, 864		C80-4, SN944, 864	San Francisco Maintenance Line Maintenance, Center US	SPM		27-Sep-2007 01:00:00	15.5	Hours	869	JFK Maintenance Center US	27-Sep-2007 16:30:00	00	
<input type="radio"/> C80-5, SN422, 938		C80-5, SN422, 938	San Francisco Maintenance Line Maintenance, Center US	SPM		27-Sep-2007 17:30:00	14.5	Hours	939	JFK Maintenance Center US	28-Sep-2007 08:00:00	00	
<input type="radio"/> C80-6, SN944, 273		C80-6, SN944, 273	San Francisco Maintenance Line Maintenance, Center US	SPM		28-Sep-2007 00:30:00	10.25	Hours	274	JFK Maintenance Center US	28-Sep-2007 10:45:00	00	

Select Unit Downtime: View Organization Schedule | Go | Previous 1-10 of 22 | Next 10

Maintenance Capacity

- 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

Logged In As: TSMITH

Unit Schedules

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

Start Date and Time: 18-Jan-2012 08:39:53 | Example: (8-Jan-2012 10:45:00)

Serial Number:

Display Increment: UOM: Days

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

AHL - Main Unit 001	■	■	■	■	■	■	■	■	■	■
AHL - Subunit - UCD01	■	■	■	■	■	■	■	■	■	■
AHL - Subunit - UCD02	■	■	■	■	■	■	■	■	■	■
AMU-U0001	■	■	■	■	■	■	■	■	■	■
AMU-U0002	■	■	■	■	■	■	■	■	■	■
AMU-U0004	■	■	■	■	■	■	■	■	■	■
AMU-U0005	■	■	■	■	■	■	■	■	■	■
BBU-LUC-MC1	■	■	■	■	■	■	■	■	■	■
BBU-LUC-MC2	■	■	■	■	■	■	■	■	■	■
BBU-LUC-MC3	■	■	■	■	■	■	■	■	■	■

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

- 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 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

Hide Visit Details

Visit Number **65**

Unit **NSAUC1**
Item **NSASerialItem1**

* Organization **San Francisco Maintenance**

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

* Planned End Date **19-Mar-2012 10:00:00**
(example: 24-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

Maintenance Requirement Description Program Type
Item Serial Number Status
Unit Position On Wing
Service Request Show requirements for instances not associated to visit Show only Service Category Exceptions

Go | Clear

Highest Requirement Service Category **0.**

Add Unplanned Requirement

Program Type	Title	Description Category	Service Exception Request	Service Request Summary	Item	Unit	Position	Serial Number	Instance Number	Quantity	UOM	Tasks	Cost/Price	Status	MR	In Planning
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.

ORACLE® Complex MRO

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

Logged In As TSMITH

Planning Workbench

Planning Workbench

Unit Maintenance Plan

Hide UMP Search Region

Simple Search

Unit Name: KM Landing Gear 002
Item: KM_LG001
Title:
Due From:
Program Type:
Due Within:
Arrival Organization:
Non Routine Type:

Fleet:
Serial Number: KM_LG001-SN004
Scheduled Status: Unscheduled
Due To:
Program Sub Type:
Implement Status:
On Wing:
Include Tolerance Date:

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	Cnt	UOM	Earlier Due	Due Date	Latest Date	Schedule Date	Service Request
<input checked="" type="checkbox"/>	Show KM Landing Gear 002	Special	KM-DemoMR001	KM_RWA001	KM_RWA001-SN004	00	MSH-TSN	150	UHR	150	06-Aug-2012			
<input type="checkbox"/>	Show KM Landing Gear 002	Special	KM_ASBLY_REPAIR_MR	KM_LG001	KM_LG001-SN004	00								

Planning Workbench - Maintenance Schedule

Maintenance Schedule

Unit Down Times | Organization Schedule | Fleet Schedule

Search Unit Schedule

Arrival Organization: JFK Maintenance Center
Department:
Arrival From: 08-Apr-2011 08:46:26
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	Arrival Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time
<input checked="" type="checkbox"/>	Show	NSAUC1	NSA120	JFK	Line	2	06-Mar-2012 04:00:00	06-Mar-2012	46	Hours	NSA120	DFW	08-Mar-2012	02:00:00
<input checked="" type="checkbox"/>	Show	NSANEWUC	NSARetest900	JFK	Maintenance	2	10-Mar-2012 04:00:00		118	Hours	NSAVahana111	DFW	15-Mar-2012	02:00:00
<input checked="" type="checkbox"/>	Show	NSANEWUC	NSADTV111	JFK	Maintenance	2	17-Mar-2012 12:00:00		14	Hours	NSAALL111	San Francisco	18-Mar-2012	02:00:00
<input checked="" type="checkbox"/>	Show	NSANEWUC	NSAEndFlight111	JFK	Maintenance	2	19-Mar-2012 19:00:00		103	Hours	NSAEndFlight111	San Francisco	24-Mar-2012	02:00:00
<input checked="" type="checkbox"/>	Show	NSANEWUC	NSAEndFlight111	JFK	Maintenance	2	26-Mar-2012 15:00:00		159	Hours	NSALo1	DFW	02-Apr-2012	06:00:00

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

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

The controller can then 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.

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

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	511	C	Check	San Francisco Maintenance Center US	Base Maintenance, SFM-B	30-May-2005	28-Jul-2005	28-Jul-2005	Partially Implemented				

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

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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 (example: 27-Mar-2013 19:45:00)
Planned End Date 28-Jul-2005 00:00:00 (example: 27-Mar-2013 19:45:00)
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 AHL Aircraft Commercial US
Priority Cost/Price Description C check for VA761
Item Owner General Technologies

Physical Locator Service Category Project
Lock visit Work Card Progress
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 NSANEWJC ▾ 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
○	Hide		NSANEWJC	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		oo

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							
○	150		Engine Overhaul	Planning	16-Mar-2012 16:00:00	17-Mar-2012 06:00:00										
○	Show	NSANEWJC	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		oo
○	Show	NSANEWJC	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		oo

- 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 | Go | 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 | SFO, Hangar 1, Bay 1 | SFO, Hangar 1, Bay 2 | SFO, Cal Lab 1 | SFO, Eng Shop 1 | SFO, Eng Shop 2

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

Select Visit: Automatically Assign Requirements | Go

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 checked="" type="radio"/>	<input type="text"/>	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-Oct-2012 07:45:52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="text"/>	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="checkbox"/>	<input type="checkbox"/>

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

- 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 | Display Days Window: 14

Start Day | Start Week | End Week | End Day | Previous | 1-10 of 16 | Next 6

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]

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

Select Visit: Automatically Assign Requirements | Go

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 checked="" type="radio"/>	<input type="text"/>	112	Component Repair	Implemented	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="text"/>	130	Component Overhaul	Implemented	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="text"/>	131	R_VISIT_TYPE	Planning	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="text"/>	146	R_VISIT_TYPE	Implemented	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="text"/>	485	RD Visit Type	Planning	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center US Base Maintenance, SFM-8	11-Jan-2012 00:00:00	11-Feb-2012 00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Show/Hide Key

Maintenance Capacity

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

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

Select	Work Order Num	Work Order Description	Operation Code	Operation Description	Priority	Confirmed Failure	Work Order Status	Non-Routine Work Order	Resolution Code	End Date	Work Order Type

No records were found matching the given criteria...

- The controller can close the visit.

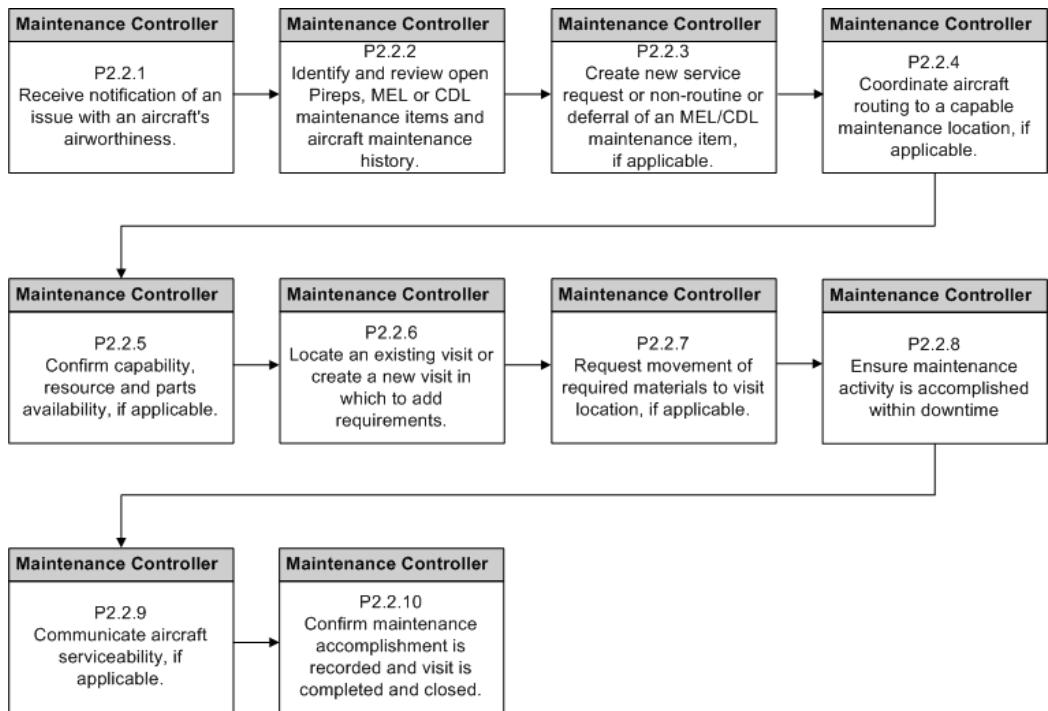
Navigation: Execution > Production Planning > Visits > Search Visit

Select	Visit Number	Visit Type	Item	Serial Number	Organization	Department	Start Date	Visit Status	Work Card	Work Card Progress
512	Component Repair	LH-C130-Hercules	C130-4	M-LH-C130-UC4	San Francisco Maintenance Center US	BASE Maintenance Department for MARS	21-APR-2012	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.

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

Select Details	Create Visit	Unit	Arrival Right	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Right	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/> Show	<input type="radio"/> Show	AMP-UC006	AMP-FG001	San Francisco Maintenance Center US	Engine Shop	2	16-Sep-2011 10:00:00			Hours	AMP-FG004	JFK Maintenance Center US	02-Oct-2011 12:00:00	00	oo
<input type="radio"/> Show	<input type="radio"/> Show	KM-AMP-UC004	AMP-FG002	San Francisco Maintenance Center US	SPM	2	29-Sep-2011 12:00:00		72	Hours	AMP-FG004	JFK Maintenance Center US	02-Oct-2011 12:00:00	00	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

The screenshot shows the Oracle Complex MRO software interface. The main title bar reads "ORACLE® Complex MRO". The top navigation bar includes links for Navigator, Favorites, Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, and Sign Out. Below the navigation bar, a secondary menu bar shows "Unit Maintenance Plan", "Visit Work Package", "Planning Workbench", "Fleet Forecasting", "Component Maintenance", "Assembly Maintenance", and "Auto Visit Planning". The user is logged in as "TSMITH".

The main content area is titled "Update Visit". It displays the following 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
- Planned End Date: 22-Mar-2012 00:37:07
- Visit Status: Implemented
- Past Dated Visit: Yes
- Due By Date: 22-Mar-2012 00:37:07
- Work Order Number: 121 - OSP-MDVisit1
- Build Goal Set up: No

Below these details, there are tabs for "Details", "Visit Tasks", "Task Dependencies", "Stages", "Maintenance Requirements", "Material Requirements", and "Repair Workscope".

Under the "Maintenance Requirements" tab, there is a section titled "Additional Header Details" which includes fields for Sub Inventory (STORES), Service Request, Project Template (AHLTI202463224), Priority, Cost/Price, Description, and Item Owner (Business World). There are also checkboxes for Physical Locator (1.1.1.), Service Category, Project, Lock visit, Work Card Progress, and Flag Item Owner.

At the bottom of the "Maintenance Requirements" tab, there is a section titled "Assign Spaces" with a table for "Space" and "Start from End on Remove". The table shows "No results found." and a "Add Another Space" button.

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.

- 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

- 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.

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...		

Order Lines

Line Details 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	Edit	View
Show 2	PO Created		MBSrCtrTrk	501RC2X-OVHL	1	Ea	10-Mar-2012	Edit	View

[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%	Fleet	
Department		Unit	
Arrived From	09-Apr-2013 08:54:06	Departure To	
Service Category	>=	Minimum Duration	UOM

[Advanced Search](#)

[Go](#) [Clear](#)

Select Unit Downtime: View Organization Schedule [Go](#)

Show All Details | Hide All Details

Select Details	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
Show		RRUCL1 RRFPL22		San Francisco Maintenance Center US	Engine Shop, SPM	S	12-Apr-2013 08:00:00		6	Hours	RRFPL24	San Francisco Maintenance Center US	12-Apr-2013 14:00:00	oo	
Show		RRUCL1 RRFPL24		San Francisco Maintenance Center US	Engine Shop, SPM	S	12-Apr-2013 15:00:00		706	Hours	RRFPL30	San Francisco Maintenance Center US	12-May-2013 08:00:00	oo	
Show		RRUCL1 RRFPL30		San Francisco Maintenance Center US	Engine Shop, SPM	S	12-May-2013 02:00:00		12	Hours	RRFPL31	San Francisco Maintenance Center US	12-May-2013 14:00:00	oo	

Previous 1-10 of 18 Next 8

- 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.

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

Navigator ▾ Favorites ▾ Home Home Engineering Configuration Planning Administration Execution Profile C

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

Visit Number	62	Visit Name	Auto-Visit-62
Unit	NSAUC1	Visit Type	Engine Overhaul
Item	NSASerialItem1	Serial Number	NSA1
Organization	San Francisco Maintenance	Department	Engine Shop, SFM
* Start Date	12-Mar-2012 02:00:00	End Date	20-Mar-2012 12:00:00
* Planned End Date	20-Mar-2012 12:00:00	Due By Date	10-Dec-2012 00:00:00
Visit Status	Planning	Work Order Number	62 - Auto-Visit-62
Past Dated Visit	No	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 Before	Department
Start From	01-Jan-2012	Space	Start Before
Visit Number		Display Days Window	Space
<input type="button" value="Go"/> <input type="button" value="Clear"/>		Start Before data is ignored when 'Start From' is provided.	
<input type="button" value="Start Day"/> <input type="button" value="Start Week"/> Filter By: All	<input type="button" value="End Week"/> <input type="button" value="End Day"/>	<input type="button" value="Previous"/> 1-10 of 16 <input type="button" value="Next 6"/>	<input type="button" value="Start Day"/> <input type="button" value="Start Week"/> Filter By: All
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, 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			
<input type="button" value="Start Day"/> <input type="button" value="Start Week"/> Filter By: All	<input type="button" value="End Week"/> <input type="button" value="End Day"/>	<input type="button" value="Previous"/> 1-10 of 16 <input type="button" value="Next 6"/>	

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

Select Visit	Automatically Assign Requirements	<input type="button" value="Go"/>										
Schedule	Visit Number	Visit Type	Visit Status	Firm Lock Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOG	Search	UMP	<input type="button" value="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	<input type="checkbox"/>	13-Dec-2012 07:43:52	<input type="checkbox"/>	<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	<input type="checkbox"/>	09-Sep-2012 06:22:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 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 | [Search](#)

Master Configuration | Start From: 11-Jan-2012 | [Go](#) | [Clear](#)

Unit: C70-1, SN 311, Tail # VA521 | [Start Day](#) | [Start Week](#) | [End Week](#) | [End Day](#) | [Minimum Duration](#) | [Start Before](#) | [Display Days Window](#) 14 | [Search](#)

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

Select Visit | Automatically Assign Requirements | [Go](#)

Select	Schedule	To	Visit Number	Visit Type	Visit Status	From	Lock Unit	Organization	Department	Visit Start Date	Visit Planned End Date	Search	OMP	Cancel
<input type="radio"/>	112	Component Repair	Implemented	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SPM-B	11-Aug-2011 13:15:00	11-Aug-2012 13:15:51	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="radio"/>	130	Component Overhaul	Implemented	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SPM-B	16-Aug-2011 00:00:00	16-Aug-2012 00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="radio"/>	131	R_VISIT_TYPE	Planning	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SPM-B	16-Aug-2011 14:11:00	16-Aug-2012 14:11:00	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="radio"/>	146	R_VISIT_TYPE	Implemented	<input type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Outside Processing SPM-B	18-Aug-2011 11:30:00	18-Aug-2012 11:30:00	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="radio"/>	485	RD Visit Type	Planning	<input checked="" type="checkbox"/>	C70-1, SN 311, Tail # VA521	San Francisco Maintenance Center	US Base Maintenance, SPM-B	11-Jan-2012 00:00:00	11-Feb-2012 00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	

[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

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

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
Planned End Date 22-Mar-2012 00:37:07
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
Project Template AHLT1202463224
Priority
Cost/Price
Description
Item Owner Business World

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

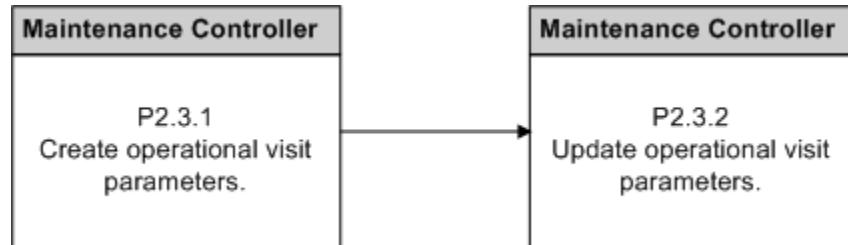
Assign Spaces

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

2. 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)

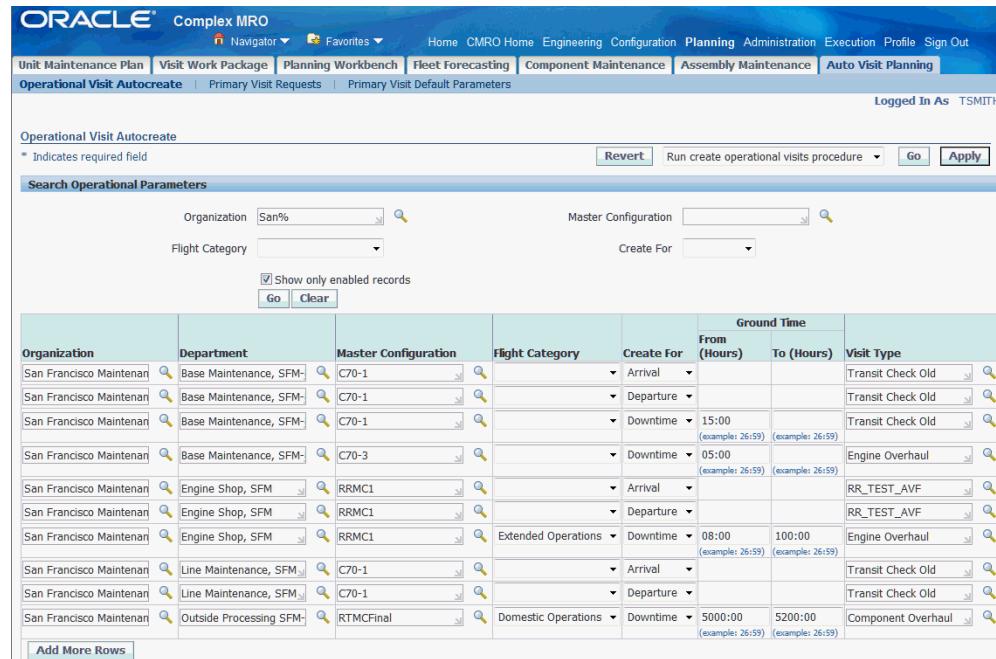
The controller will define generic rows based on a master configuration only, or more specific rows based on the arrival and departure organization. The visits can be created as a preflight, postflight or downtime duration.

2. 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 Maintenar	Base Maintenance, SFM-	C70-1	Arrival	15:00	(example: 26:59)	(example: 26:59)	Transit Check Old
San Francisco Maintenar	Base Maintenance, SFM-	C70-1	Departure	05:00	(example: 26:59)	(example: 26:59)	Transit Check Old
San Francisco Maintenar	Base Maintenance, SFM-	C70-1	Downtime	08:00	100:00	(example: 26:59)	Engine Overhaul
San Francisco Maintenar	Base Maintenance, SFM-	C70-3	Downtime	05:00	(example: 26:59)	(example: 26:59)	RR_TEST_AVF
San Francisco Maintenar	Engine Shop, SFM	RRMCI	Arrival	RR_TEST_AVF			
San Francisco Maintenar	Engine Shop, SFM	RRMCI	Departure	RR_TEST_AVF			
San Francisco Maintenar	Engine Shop, SFM	RRMCI	Extended Operations	Downtime	08:00	100:00	Engine Overhaul
San Francisco Maintenar	Line Maintenance, SFM	C70-1	Arrival	Transit Check Old			
San Francisco Maintenar	Line Maintenance, SFM	C70-1	Departure	Transit Check Old			
San Francisco Maintenar	Outside Processing SFM	RTMCFinal	Domestic Operations	Downtime	5000:00	5200:00	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

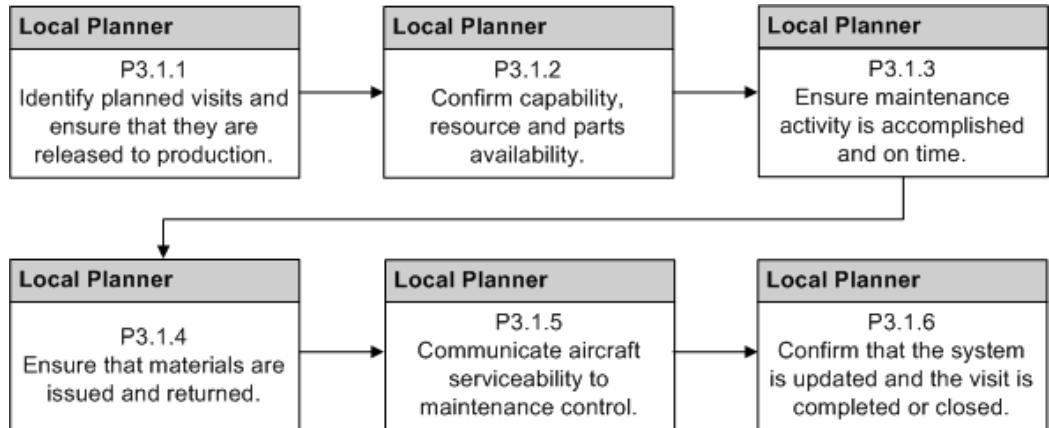
The following prerequisite setup task must be performed:

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 Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search OMP
		AMP-UC001 PL001		San Francisco Maintenance Center US	Line Maintenance, SPM		12-Jul-2011 14:00:00	12-Jul-2011 14:00:00							oo

Select Visit	Schedule Visit	To Number	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Firm Lock	Cancel
		65	Component Repair Planning	13-Jul-2011 00:00:00	19-Jul-2011 21:21:06		<input type="checkbox"/>	<input type="checkbox"/>
		92	Component Repair Planning	02-Aug-2011 05:14:00	20-Aug-2011 05:14:00		<input type="checkbox"/>	<input type="checkbox"/>

- 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

- 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

- 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

- 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

- 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

The screenshot shows two overlapping pages of the Oracle Planning Workbench. The top page is titled 'Search Organization Schedule' and displays a grid of available spaces for various departments and locations. The bottom page is titled 'Selected Visits' and shows a list of scheduled visits for a specific organization. Both pages include filters for date ranges and department.

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.

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

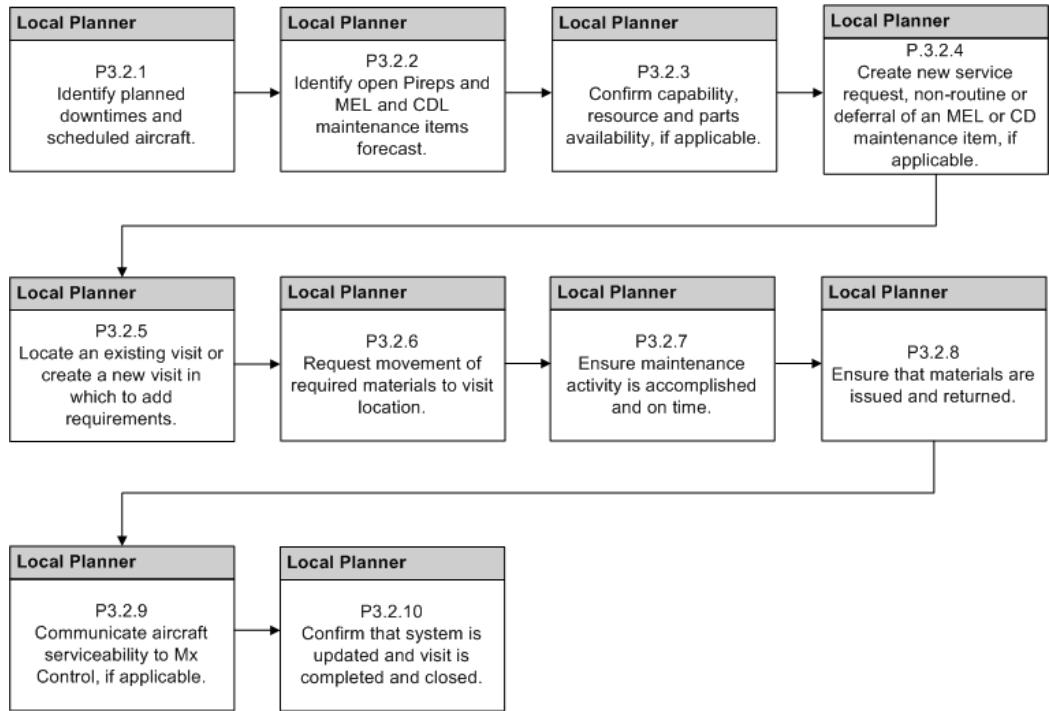
Navigation: Execution > Production Planning > Visits > Search Visits

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	RRSrCtrTrk	RR1000	RRUC1	San Francisco Maintenance	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	Line Maintenance, Center US	03-JAN-2013	Implemented		
<input type="radio"/>	1915	Engine Overhaul	RRSrCtrTrk	RR1000	RRUC1	San Francisco Maintenance	Engine Shop, SFM	24-JAN-2013	Partially Implemented		
<input type="radio"/>	1916	RR_DEMO	RRSrCtrTrk	RR1000	RRUC1	San Francisco Maintenance	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	Line Maintenance, Center US	24-JAN-2013	Implemented		
<input type="radio"/>	1919	Engine Overhaul	C70-1	311	C70-1, SN 311, Tail #	San Francisco Maintenance	Base Maintenance, Center US	25-JAN-2013	Implemented		
<input type="radio"/>	1920	Component Maintenance			VA521	San Francisco Maintenance	Outside Processing	14-FEB-2013	Implemented		
<input type="radio"/>	1921	Component Overhaul	MBSrCtrTrk	MBIBSN001_RTNEW	MBUC1	San Francisco Maintenance	Outside Processing	14-FEB-2013	Implemented		
<input type="radio"/>	1922	SS_P100_C_CHECK	SS_Airframe	SS_CAB_004	SS_CAB_004	San Francisco Maintenance	Engine Shop, SFM	27-FEB-2013	Implemented		

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

Schedule Visit To Number	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Space Firm Lock	Cancel
65	Component Repair Planning	00:00:00	13-Jul-2011 00:00:00	30-Jul-2011 21:21:06	<input type="checkbox"/>	<input type="checkbox"/>
92	Component Repair Planning	05:14:00	02-Aug-2011 05:14:00	20-Aug-2011 05:14:00	<input type="checkbox"/>	<input type="checkbox"/>

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

Navigation: Planning > Unit Maintenance Plan > Unit Schedule

2. 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

The screenshot displays the Oracle Complex MRO Planning Workbench interface. The top navigation bar includes links for Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, Sign Out, and a sign-in status for 'Logged In As TSMTH'.

Unit Maintenance Plan

Search criteria for the Unit Maintenance Plan include:

- Unit Name: AMP-UC001
- 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:
- On Wing:
- Show Dependent Requirements:
- Include Tolerance Data:

Maintenance Schedule

Search criteria for the Maintenance Schedule include:

- Arrival Organization:
- Department:
- Arrived From:
- Service Category:
- Fleet:
- Unit:
- Departure To:
- Minimum Duration:
- UOM:

Search Unit Schedule

Search criteria for the Search Unit Schedule include:

- Arrival Organization:
- Department:
- Arrived From:
- Service Category:
- Fleet:
- Unit:
- Departure To:
- Minimum Duration:
- UOM:

Select Requirements: Search Unit Downtimes | Create Visit

Select Details: Unit Program Type Title Item Number Serial Number View All UOMs Cat Name Cnt UOM UOM Remain Earlier Due Due Date Latest Date Schedule Date Service Visit Request

Unit	Program Type	Title	Item Number	Serial Number	View All UOMs	Cat Name	Cnt	UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Visit Request
AMP-UC001	Block	SR-AMP-UC001	AMP-PT001	AMP-PT001-SN001	000	AMP-CT001	1	UHR	-40	27-May-2011				
AMP-UC002	Non-routine	SR-AMP-UC002	AMP-PT001	AMP-PT001-SN002	000					28-Sep-2011				54892
AMP-UC003	Engine	SR-AMP-UC003	AMP-PT001	AMP-PT001-SN003	000	AMP-CT001	1	UHR	0	03-Oct-2011				
AMP-UC004	Overhaul	SR-AMP-UC004	AMP-PT001	AMP-PT001-SN004	000	AMP-CT001	1	UHR	150					
AMP-UC005	Corrosion	SR-AMP-UC005	AMP-PT001	AMP-PT001-SN005	000	AMP-CT001	1	UHR	150					
AMP-UC006	Engine	SR-AMP-UC006	AMP-PT001	AMP-PT001-SN006	000	AMP-CT001	1	UHR	50					
AMP-UC007	Corrosion	SR-AMP-UC007	AMP-PT001	AMP-PT001-SN007	000	AMP-CT001	1	UHR	50					
AMP-UC008	Block	SR-AMP-UC008	AMP-PT001	AMP-PT001-SN008	000	AMP-CT001	1	UHR	150					
AMP-UC009	Overhaul	SR-AMP-UC009	AMP-PT001	AMP-PT001-SN009	000									
AMP-UC010	Block	SR-AMP-UC010	AMP-PT001	AMP-PT001-SN010	000	AMP-CT001	1	UHR	50					

Select Requirements: Search Unit Downtimes | Create Visit

Maintenance Schedule

Search criteria for the Maintenance Schedule include:

- Arrival Organization:
- Department:
- Arrived From:
- Service Category:
- Fleet:
- Unit:
- Departure To:
- Minimum Duration:
- UOM:

Search Unit Schedule

Search criteria for the Search Unit Schedule include:

- Arrival Organization:
- Department:
- Arrived From:
- Service Category:
- Fleet:
- Unit:
- Departure To:
- Minimum Duration:
- UOM:

Select Requirements: Search Unit Downtimes | Create Visit

Select Details: Unit Create Visit Arrival Flight Arrival Org. Dept. Service Category Estimated Arrival Time Actual Arrival Down Duration Down UOM Departure Flight Next Org. Estimated Departure Time Actual Departure Time Search UMP

Unit	Create Visit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival	Down Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
AMP-UC001	FL001	San Francisco Maintenance	Line Maintenance, SFR-A	Center US		12-Jul-2011 14:00:00								00
MBUC1	FL002	San Francisco Maintenance	Line Maintenance, SFR-B	Center US		14-Jul-2011 15:00:00								00
AMP-UC002	FL001	San Francisco Maintenance	Engine Shop, SPM	2	Base Maintenance, SFR-B	16-Sep-2011 10:00:00								00
AMP-UC003	FL002	San Francisco Maintenance	Engine Shop, SPM	2	Base Maintenance, SFR-B	16-Sep-2011 11:00:00		233	Hours	PS001	JFK Maintenance Center US	26-Sep-2011 04:00:00		00
KRA-AMP-UC004	FS001	San Francisco Maintenance	Engine Shop, SPM	2	Base Maintenance, SFR-B	29-Sep-2011 12:00:00		72	Hours	AMP-FG004	JFK Maintenance Center US	02-Oct-2011 12:00:00		00
SR-AMP-UC005	FS001	San Francisco Maintenance	Engine Shop, SPM	2	Base Maintenance, SFR-B	30-Sep-2011 04:00:00		70	Hours	PS002	JFK Maintenance Center US	03-Oct-2011 02:00:00		00
AMP-UC006	FS002	San Francisco Maintenance	Base Maintenance, SFR-B	Center US		01-Oct-2011 11:00:00								00
KM-AMP-UC007	KM-FL001	San Francisco Maintenance	Engine Shop, SPM	2	Base Maintenance, SFR-B	02-Oct-2011 21:00:00		34	Hours	KM-FL002	JFK Maintenance Center US	04-Oct-2011 07:00:00		00
SR-AMP-UC008	FS002	San Francisco Maintenance	Engine Shop, SPM	2	Base Maintenance, SFR-B	06-Oct-2011 03:00:00		46	Hours	PS004	JFK Maintenance Center US	08-Oct-2011 01:00:00		00
KM-AMP-UC009	FS003	San Francisco Maintenance	Engine Shop, SPM	2	Base Maintenance, SFR-B	10-Oct-2011 14:00:00								00

Select Requirements: View Organization Schedule | Go

Maintenance Capacity

Search criteria for the Maintenance Capacity include:

- Arrival Organization:
- Department:
- Arrived From:
- Service Category:
- Fleet:
- Unit:
- Departure To:
- Minimum Duration:
- UOM:

Unit Maintenance Plan

Links for the Unit Maintenance Plan include:

- 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

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

Select	Program Type	Title	Version/Item	Serial	UOH	Cnt	Name	Earlier Due Date	Latest Due Date	Tolerance Status	Sched. Date	Visit	Originator	Dependent Title	Trigger Type	Deferred From	Deferred To	Manually Planned
<input type="radio"/>	Line Maintenance	Replace First Aid Kit	1	C70- 311 1	-185	TSN		01-NOV-2012	01-NOV-2012	Yes								
<input type="radio"/>	Line Maintenance	Replace O2 Generator	1	C70- 311 1	-185	TSN		01-NOV-2012	01-NOV-2012	Yes								
<input type="radio"/>	Line Maintenance	Replace Slidraft	1	C70- 311 1	-185	TSN		01-NOV-2012	01-NOV-2012	Yes								
<input type="radio"/>	Inspection	SS_MR Unplanned Deferral	1	C70- 311 1				30-JAN-2013		Yes								
<input type="radio"/>	Line Maintenance	Replace O2 Generator	1	C70- 313 1	-65	TSN		21-MAR-2013	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. Confirm capability, resources, and parts availability, if applicable.

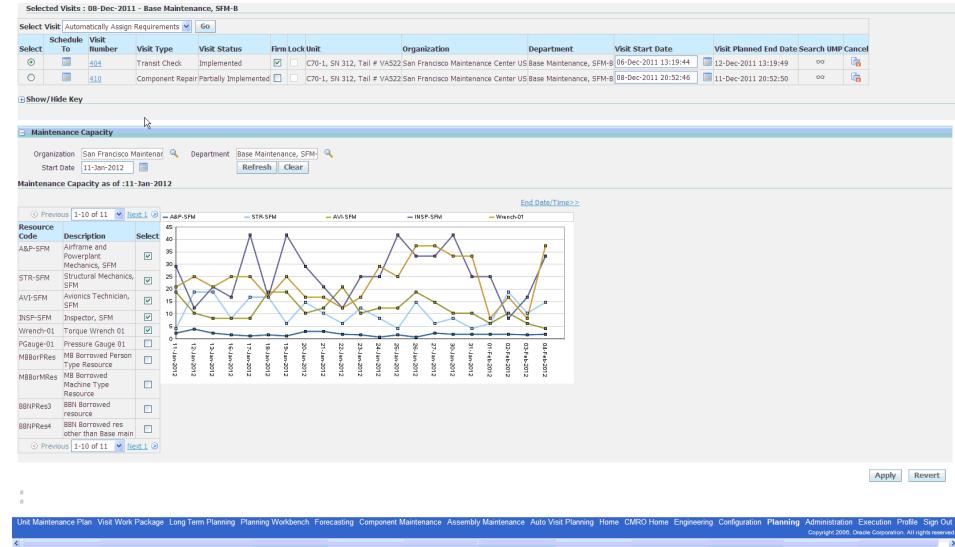
The planner can click the title of the requirement to search other attributes based on the source maintenance requirement definition, including material requirements.

- 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

- 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

- 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 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

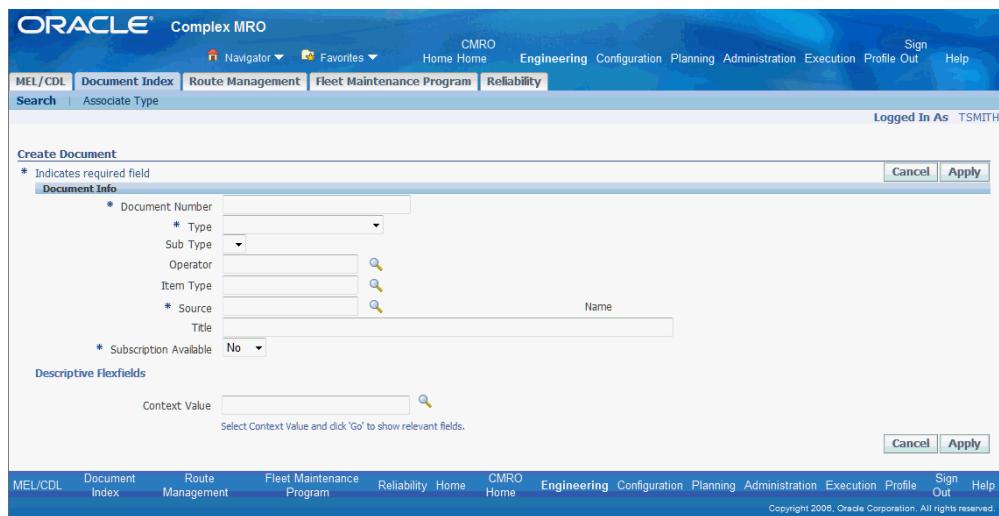
document in the document index.

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 'Create Document' page in the Oracle Complex MRO application. The 'Document Info' section contains fields for Document Number, Type, Sub Type, Operator, Item Type, Source, Title, and Subscription Available. The 'Descriptive Flexfields' section contains a Context Value field and a search button. Buttons for 'Cancel' and 'Apply' are located at the top and bottom of the form. The page also includes a navigation bar with links for MEL/CDL, Document Index, Route Management, Fleet Maintenance Program, Reliability, Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, Sign Out, and Help. A status bar at the bottom indicates 'Logged In As TSMITH' and '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

CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability

Search Associate Type

Logged In As TSMITH

Create New Revision

* Indicates required field

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

Document Descriptive Flexfield

Context Value

Revision No	Revision Type
Revision Date	Status
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	

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

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

CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out 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**
Description **C80 Aircraft**
Status **Draft**
Sourced From **Enigma** No

Edit Position

* Position **Airframe**
ATA Code **10100**
Position Key **1**
Quantity **1**
Start Date **28-APR-2005**
Item Group **C80**
Display Order **1**

Position Description **Airframe**
Description
UOM **Ea**
Description **C80 Airframe**
Necessity **Mandatory**

Cancel Alternate Items Go Apply

Actions Add Go

Airframe

- 21-22-01, Indicator, Rate of Climb
- 21-23-01, Fan, Equipment Cooling
- 21-24-22, Relief Valve, Positive Pressure
- 23-16-10, Antenna, VHF
- 24-08-01, Main Battery
- 28-25-02, Jettison isolation valve
- 32-02, Nose Landing Gear
- 34-16, Transponder-ATC
- 49-02, Auxiliary Power Unit
- 49-31, APU fuel feed valve
- 72-01, #1 Engine
- 72-02, #2 Engine

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

ORACLE® Complex MRO

CMRO Home Home Engineering Configuration Planning Administration Execution Profile Out Help

Master Configuration | Unit Configuration | Product Classification | Supplier Warranty

Logged In As **TSMITH**

Actions Add Go

Edit Master Configuration

Name **C80 Aircraft**
Description **C80 Aircraft**
Status **Draft**
Sourced From **Enigma** No

Create Position

* Position **Airframe**
ATA Code **10100**
Position Key **1**
* Quantity **1**
Start Date **01-APR-2013**
Item Group **C80**
* Display Order **1**

Position Description **Airframe**
Description
* UOM **Ea**

Cancel Apply

Actions Add Go

Airframe

- 21-22-01, Indicator, Rate of Climb
- 21-23-01, Fan, Equipment Cooling
- 21-24-22, Relief Valve, Positive Pressure
- 23-16-10, Antenna, VHF
- 24-08-01, Main Battery
- 28-25-02, Jettison isolation valve
- 32-02, Nose Landing Gear
- 34-16, Transponder-ATC
- 49-02, Auxiliary Power Unit
- 49-31, APU fuel feed valve
- 72-01, #1 Engine
- 72-02, #2 Engine

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

Edit Master Configuration

Name	C80 Aircraft	Cancel	Alternate Items	Go	Apply				
Description	C80 Aircraft	Revision 1 Version 1 Sourced From Enigma No							
Status	Draft								
* 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	Description							
Item Group		Necessity	Mandatory						
* Display Order	7								
Alternate Subconfigurations									
Select	Name	RevisionFocus	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						Cancel	Alternate Items	Go	Apply

3. 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

4. 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

5. 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:

1. Create master configuration prerequisites.

See Prerequisites for Master Configurations, page 3-67.

2. 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

The screenshot shows the 'Create Item Instance' page in the Oracle Complex MRO application. The page has a header with the Oracle logo and navigation links for CMRO, Home Home, Engineering Configuration, Planning, Administration, Execution, Profile Out, and Help. The sub-navigation bar includes Master Configuration, Unit Configuration, Product Classification, and Supplier Warranty. Below that is a search bar with options for Search Unit, Create From Master, Search Product, and Create Product. The main form is titled 'Create Item Instance' and contains the following fields:

- Organization Name: Vision Project Mfg
- Item: C80
- Item Description: Airframe, C80
- Serial Number
- Status: CREATED
- Quantity: 1
- Owner
- Party Type: Party
- Party Name
- Account Number
- Current Location: Type: Party Site
- Installed Date: 01-APR-2013
- Installed Time: 14:02

There are also some notes and checkboxes at the bottom of the form:

- Lot Number: Item not lot controlled.
- System: Please first select an owner account.
- UOM: Each
- Account is not mandatory for the internal party as defined in Install Base parameters.
- Same as Current Location
- Type

At the bottom of the form are 'Submit' and 'Clear' buttons.

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.

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.

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.

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

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

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

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

2. 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

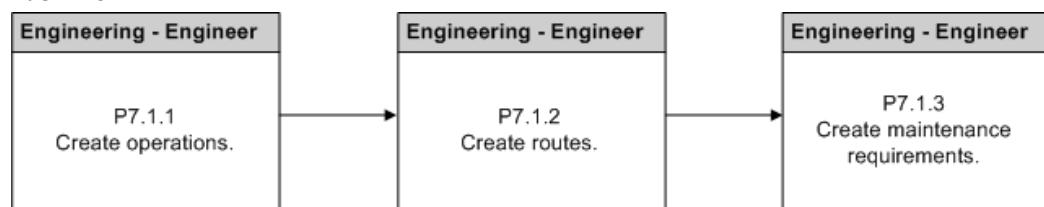
Routes, *Oracle Complex Maintenance, Repair and Overhaul User's Guide*)

- 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.

The screenshot shows the Oracle Complex MRO software interface. The top navigation bar includes links for Navigator, Favorites, Home, CMRO, Engineering, Configuration, Planning, Administration, Execution, Profile, Sign Out, and Help. The main menu bar has tabs for MEL/CDL, Document Index, Route Management, Fleet Maintenance Program, Reliability, Operations, Routes, Major Zones, Sub Zones, Resource, and Item Compositions. A status bar at the bottom indicates 'Logged In As TSMITH'. The main content area is titled 'Create Route' and contains a form with various input fields and search buttons. The 'Route Management' tab is selected in the main menu.

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

ORACLE® Complex MRO

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

MEL/CDL Document Index Route Management Fleet Maintenance Program Reliability

Operations Routes Major Zones Sub Zones Resource Item Compositions

Logged In As TSMITH

Associate Operations

Route Number CMRO Route1 Revision 1 Title CMRO Route1 Status Draft Revision Notes

Operations List

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 Testing	31-JAN-2012	No
<input type="checkbox"/> 30	No	TO.C80.05-51-18.100.002	TEST	29-MAR-2012	No

Add More Rows 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

- Operation Dependencies - Define operation dependencies.

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

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

Operations Routes Major Zones Sub Zones Resource Item Compositions

Logged In As TSMITH

Warning: Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Operation Dependencies

Route Number CMRO Route1 Revision 1 Title CMRO Route1 Status Draft Revision Notes

Dependencies List

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)	<input type="checkbox"/> 20	TM.Tooling.100.100.001	Complete
-----------------------------	-------------------------	----------	-------------------	-----------------------------	------------------------	----------

Add More Rows Cancel Revert Apply

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

- 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.

The screenshot shows the 'Create Maintenance Requirement' page in the Oracle Complex MRO application. The page is titled 'Create Maintenance Requirement' and includes a note: '* Indicates required field'. It contains several input fields and dropdown menus for defining a maintenance requirement. At the top right, there are buttons for 'Cancel', 'Revert', and 'Apply'. At the bottom right, there are buttons for 'Cancel', 'Revert', and 'Apply'. The page is part of the 'Fleet Maintenance Program' section of the application.

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.

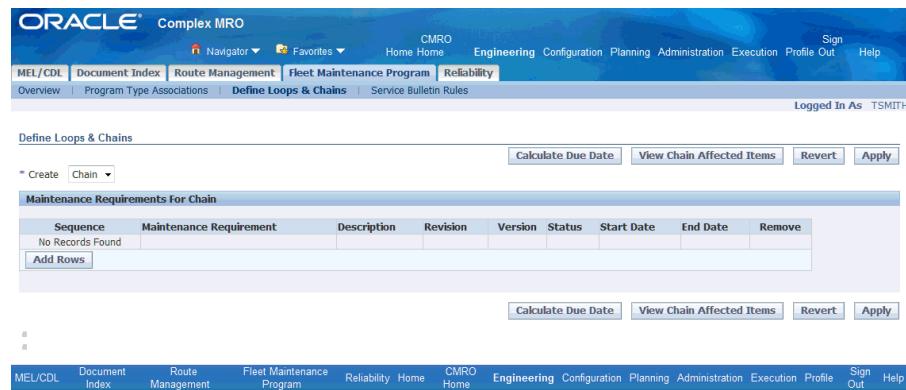
6. Define loops and chains for maintenance requirements.

Loops and chains are relationships used to control and plan the maintenance in cycles or in sequential order.

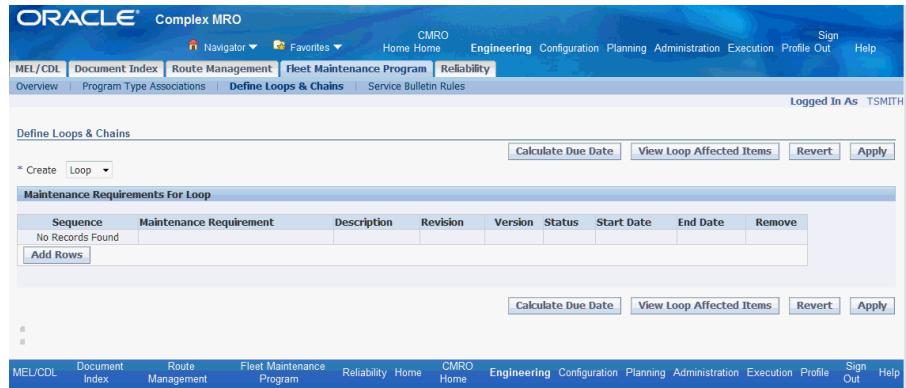
Important: You cannot add unplanned MRs to a chain or loop.

1. Navigate to the Define Loops and Chains page.

Navigation: Engineering > Fleet Maintenance Program > Define Loops and Chains



The screenshot shows the Oracle Complex MRO interface. The top navigation bar includes links for Navigator, Favorites, Home, CMRO, Engineering, Configuration, Planning, Administration, Execution, Profile, and Help. The main menu bar has links for MEL/CDL, Document Index, Route Management, Fleet Maintenance Program, Reliability, Overview, Program Type Associations, Define Loops & Chains (which is highlighted in blue), and Service Bulletin Rules. A user is logged in as TSMITH. The 'Define Loops & Chains' page has a 'Maintenance Requirements For Chain' table with columns: Sequence, Maintenance Requirement, Description, Revision, Version, Status, Start Date, End Date, and Remove. A single row shows 'No Records Found'. Below the table are buttons for Calculate Due Date, View Chain Affected Items, Revert, and Apply. The bottom navigation bar is identical to the top one.



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:

- Evaluate Service Bulletins (SBs) and Service Letters (SLs), and determine if they are applicable to the airline equipment.

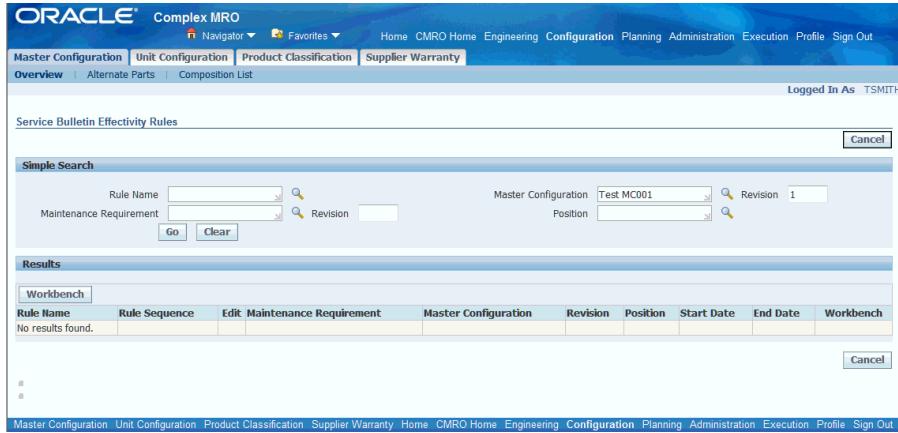
Service bulletins apply to a specific item and serial numbers.

- 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.

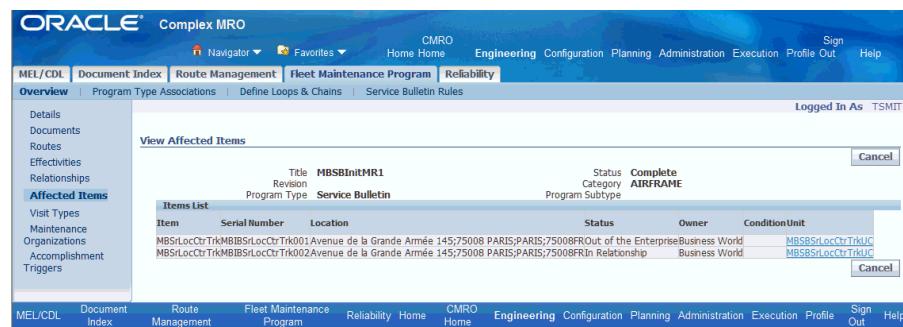
Select a MC, choose Service Bulletin Rules from the Search Master Configuration drop-down, and then click the **Go** button. The Service Bulletin Rules page displays any applicable SB rules.



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.



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:

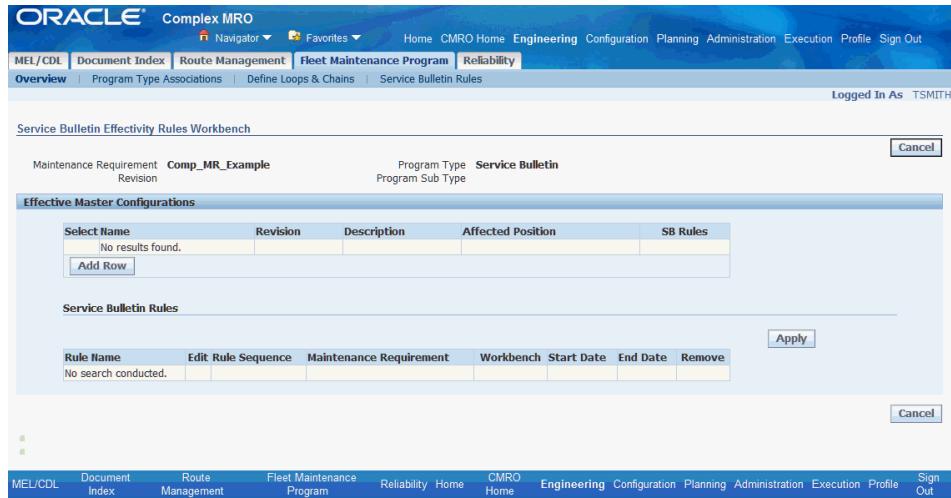
- Title: Name of MR
- Category
- Program Type: Service Bulletin
- Implement Status: Mandatory
- Repetitive
- Whichever Comes
- Effective From date
- On Wing
- (Optional) Select values for Program Sub Type to differentiate various types of SBs.

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



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.

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

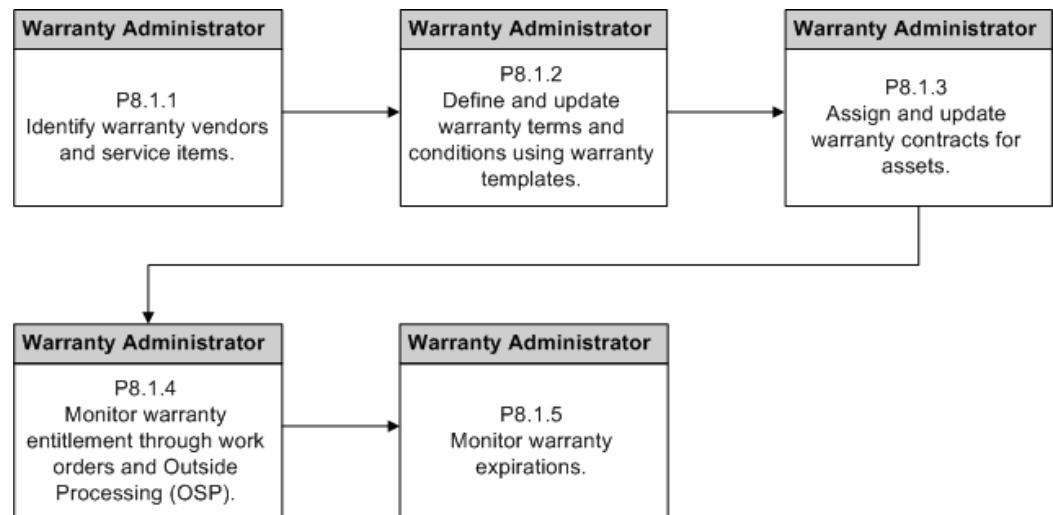
Prerequisite Setup Task	Role Performing Task	Navigation
<p>4. Enable CMRO warranty notifications:</p> <ul style="list-style-type: none"> • Change to Warranty Entitlement Acceptance/Rejection: When a technician makes changes to a warranty entitlement record on a work order, the warranty administrator 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

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

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 type="text"/>	<input checked="" type="checkbox"/>
American Telephone and Telegraph NY	<input type="text"/>	<input type="text"/>	05-Mar-2012	<input type="text"/>	<input checked="" type="checkbox"/>
Eastern Industrial Products	EIP-PM	<input type="text"/>	22-Mar-2012	<input type="text"/>	<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 Reports Home CMRO Home Engineering Configuration Planning Administration

2. 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

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

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: 75484-5 | Service Item:

Inventory Item: 75484-5 |

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="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="radio"/> 75484-5	Assy, Turbine, HP	JFK Maintenance Center US	75484-OVHL	21-Jul-2006		1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="radio"/> 75484-5	Assy, Turbine, HP	San Francisco Maintenance Center US	75484-OVHL	21-Jul-2006		1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="radio"/> 75484-5	Assy, Turbine, HP	Vision Project Manufacturing USD	75484-OVHL	21-Jul-2006		1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

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 (example: 21-Mar-2013)	21-Mar-2013 (example: 21-Mar-2013)	<input type="checkbox"/>	1	10	<input type="button" value="Delete"/>

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 links for Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, and Sign Out. The current page is 'Supplier Warranty' under 'Warranty Contracts'. A user is logged in as 'TSMITH'. The main form is titled 'Create Warranty Template' and contains the following fields:

- Template Name:** (Required)
- Vendor:** (Required)
- Enabled:** (checkbox)
- Contract Date Calculation:** (dropdown menu, currently set to 'Forecast')
- Template Description:** (text area)
- Terms and Conditions:** (text area)
- Reaction and Resolution Time:** (text area)
- Service Level Agreement:** (text area)
- Template Start Date:** (date picker)
- Template End Date:** (date picker)
- Claim Labor Hours:** (text field)
- Attachments:** (button to 'Add...')
- Remarks:** (text area)

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.

Update Warranty Template: GD-SWDate001

Warranty Template

Template Name: **GD-SWDate001**

* Vendor: Advanced Network Device

Contract Date Calculation: Date

* Start Date: 12-Apr-2012

* End Date: 12-May-2012

Enabled: Type: Limited Warranty

Item Description: Enabled Auto Assign OSP Claim

Item: GDSWSrCtrTrk

Item Description: Serial Controlled Tracked Item

Add Rows

Cancel Apply

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

Update Maintenance Requirement

Title: VA-C70-A-Chk

Status: Complete

Version: 3

Effective From: 06-MAR-2012

Program Subtype: On Wing

Warranty Template: PAttemp1

Comments: VA-C70-1/2/3 A Check

Cancel Revert Apply

Select a value in the Warranty Template field to associate the warranty template to the MR.

- 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

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
J Test Template	✓	✓	05-Mar-2012		Forecast				✓

- 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

Instance Details

Item C70-1	Serial Number 3988	Instance 3078037
		Lot

Contract Details

Contract Number 41002	Vendor American Telephone and Telegraph	Start From Date
Type Limited Warranty	* Contract Start Date <input type="text"/>	
* Status Pending	(example: 22-Mar-2013)	
Contract Date Calculation	Forecast	

Contract Counters

Warranty Template Name	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"/>
Attachments	None <input type="button" value="Add..."/>
<input type="checkbox"/> OSP Claim	

Buttons: 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 Devic	* 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	<input type="checkbox"/> Include Child Instances	Template Name	<input type="checkbox"/> No Active Contract
Item	<input type="checkbox"/> Show GDSrCtrTrk	Template Assigned	<input type="checkbox"/> Show Only Enabled Templates
Instance Number	2948037		<input type="checkbox"/> Show Only Enabled Items
Serial Number			
Lot Number			

Go Clear

Results

Select Warranty Instance:	Edit Warranty	View Warranty					
Select Details	Item Number	Serial Number	Item Description	Unit Configuration	Instance Number	Lot Number	Warranty Contracts
<input type="radio"/>	Show GDSrCtrTrk	GDSrCtrTrk001	Serial Controlled Tracked Item	GDUC001	2948037		
<input type="radio"/>							
<input type="radio"/>							

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

Warranty Workbench

Select Item	Contract Status	Warranty Contract	Edit	Status	Warranty Type	Warranty Template	Expiration Date	Vendor Name
<input type="radio"/> 14000	All	14000		Active	Service Warranty	GD-SWTemplateDate001	01-May-2012	Advanced Network Devices
<input type="radio"/> 14002		14002		Active	Limited Warranty	GD-SWTemplateForecast001	15-Apr-2012	Advanced Network Devices
<input type="radio"/> 14003		14003		Active	Limited Warranty	GD-SWTemplateForecast001	06-Apr-2012	Advanced Network Devices
<input type="radio"/> 14004		14004		Active	Limited Warranty	GD-SWTemplateForecast001	06-Apr-2012	Advanced Network Devices
<input type="radio"/> 14005		14005		Active	Limited Warranty	GD-SWTemplateForecast001	15-Apr-2012	Advanced Network Devices

- 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

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: Repair warranty

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...](#)

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

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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

Item Instance Details

Item	SS_ENGINE	Description	Pratt & Whitney F100
Serial Number	547459	Lot Number	
Instance Number	2985099	Status	In Inventory
Quantity	1	UOM	Each
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

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.

Task Number	Task Name	Item	Unit	Maintenance Requirement	Department	Stage	Task Type	Task Status	Task Status	Instance	Warranty Contract	Warranty Status	Cost/Price
2 PAMRSW	GDSWSrCtrTrk GD-SWUC001	GDSWSrCtrTrk001	PAMRSW			Summary	In Shop Floor				✓		Review
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.

- 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

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

- View warranty eligibility for OSP item for an organization.

Navigation: Execution > Outside Processing > Inventory Items

- 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.

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	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

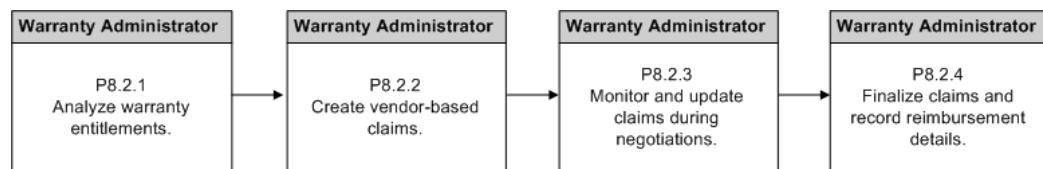
Approvals Workflow Department Location Spaces Space Unavailability Reliability Vendor Sourcing WBS Rules Visit Types Utilization History Maintenance Status Reports Reports Home CMRO Home Engineering Configuration Planning Administration

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.

2. Create new vendor-based claims.

Navigation: Configuration > Supplier Warranty > Claims Management > Search Warranty Claim > Create

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

4. The warranty administration will then update the recoverable total in the Details tab.

Navigation: Configuration > Supplier Warranty > Claims Management > Search Warranty Claim > Create

5. This role will use the Search Warranty Claim UI to create a claim report, and will then submit the claim to the vendor.
3. Monitor and update claims during negotiations.

These claims will be submitted to the suppliers, and the warranty administrator will monitor the claims while negotiating any settlements, update and take notes regarding the status of the claim.

Navigation: Configuration > Supplier Warranty > Warranty Claims > Search Claim > Select a claim

This role will update the claim as the supplier reviews and negotiates a settlement.

The screenshot shows the Oracle CMRO Claims Management interface. The top navigation bar includes links for Master Configuration, Unit Configuration, Product Classification, Supplier Warranty, Warranty Contracts, Search Warranty Instance, Warranty Template, Warranty Entitlements, and Claim Management. The user is logged in as TSMITH. The main page displays an update warranty claim with claim number 1. The Turnover Notes tab is selected. The interface includes fields for Claim Name (OSPclaim1), Claim Vendor (American Telephone and Telegraph), and Claim Date (23-Mar-2012). A table lists work orders with columns for Work Order Number, Description, End Date, Non-Routine, OSP Order Line Num, Unit Name, Item, Serial Number, Warranty Contract, Old Warranty Contract, Warranty Status, Expiry Date, Vendor Name, Labour Capture, Material Capture, and Claim Amount Remove. Buttons for Cancel, Revert, and Apply are at the bottom.

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

The screenshot shows the Oracle CMRO Claims Management interface. The top navigation bar includes links for Master Configuration, Unit Configuration, Product Classification, Supplier Warranty, Warranty Contracts, Search Warranty Instance, Warranty Template, Warranty Entitlements, and Claim Management. The user is logged in as TSMITH. The main page displays an update warranty claim with claim number 302. The Turnover Notes tab is selected. The interface includes fields for Claim Name (OSPclaim302), Claim Vendor (Advanced Network Device), and Claim Date (12-Sep-2012). A table lists turnover notes with columns for Date/Time (06-Apr-2013 17:01:25), Employee (Smith, Mr. Tom), and Notes. A button for Add Row is available. Buttons for Cancel, Revert, and Apply are at the bottom.

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	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.
3	Copies of Previous Certifications	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.
		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>

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>

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.

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.

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>
11	Summary of Aircraft Time in Service	<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> <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	<p>Certification Maintenance Requirements</p> <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	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.

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>
19	Landing Gear Overhaul Data and Life Limited Parts (LLP) Status	<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> <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>

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.

This list should be amended as components are changed and kept current during the life of the aircraft.

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.

Select Details	Create Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	UOM	Departure	Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Search UMP
<input type="radio"/>	<input type="checkbox"/> Hide	C70-1, 2000 SN 313, Tail # VA523	San Francisco Maintenance Center US	Base Maintenance, SFM-B	1	22-Aug-2012 23:18:00	23-Aug-2012 23:02:00	23.02	Hours	2000		San Francisco Maintenance Center US	23-Aug-2012 22:19:00		QA

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"/>	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="checkbox"/>

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

Planning Workbench

Unit Maintenance Plan

Simple Search

Advanced Search

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 UOMs	Cnt Name	Cnt UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Visit Request
<input type="checkbox"/>	Show C70-1, SN 313, Line Maintenance	Replace O2 Generator	C70-1	313	oo	TSN	UHR	240			24-Jun-2013			
<input type="checkbox"/>	Show C70-1, SN 313, Line Maintenance	Replace First Aid Kit	C70-1	313	oo	TSN	UHR	240			24-Jun-2013			
<input type="checkbox"/>	Show C70-1, SN 313, Line Maintenance	Replace Slidertaff	C70-1	313	oo	TSN	UHR	240			24-Jun-2013			

- Advise and coordinate solutions for any unresolved discrepancies.

10.2. Major Task - Support job completions:

- Provide in-progress technical support.
- Verify job completions and Return to Service (RTS) documentation.
- Communicate any maintenance delays to corresponding departments.
- Verify that no mandatory requirements are due prior to aircraft dispatch.

10.3. Major Task - Oversee personnel administrative tasks:

- Consider crew qualifications and training requirements.
- Oversee technician training program.
- Manage attendance roster.

10.4. Major Task - Oversee workplace administrative tasks:

- Coordinate emergency corrective actions required as a result of a critical condition.
- Ensure that safe work conditions and tooling are available.

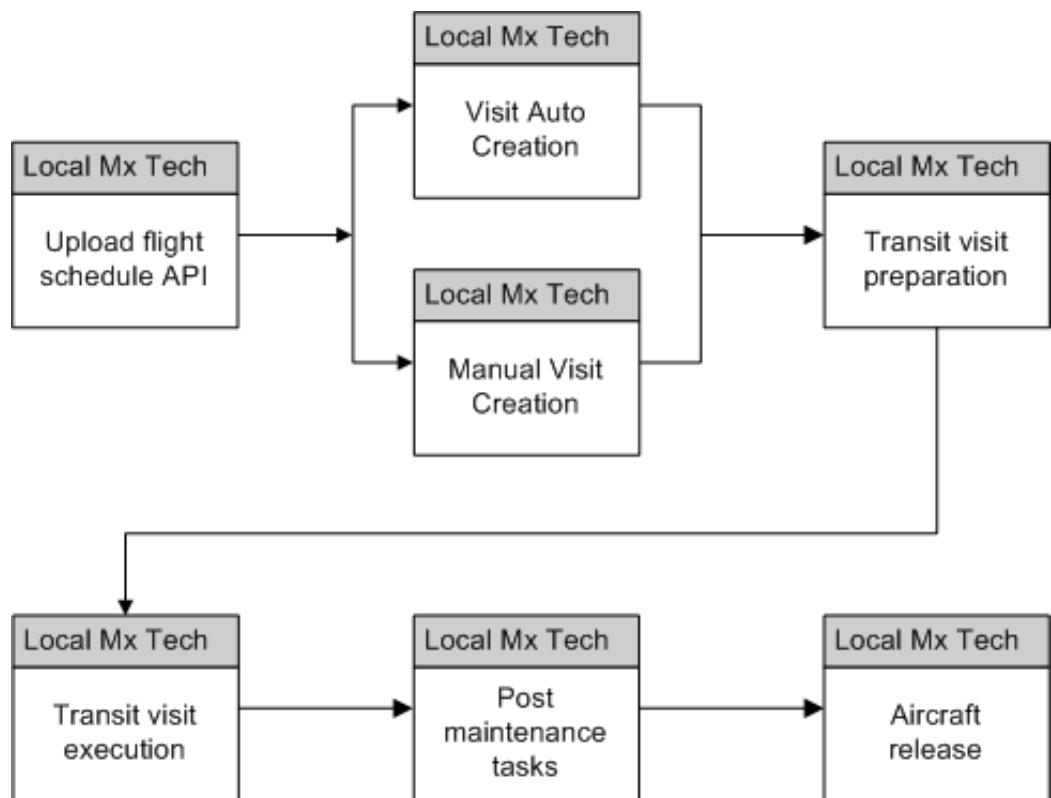
Role 11.0 - Line Maintenance Technician

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.

Unit	Flight Number	Departure 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.

The screenshot shows the Oracle Complex Maintenance, Repair, and Overhaul Process Guide interface. The main title is 'My Work Orders'. The top navigation bar includes 'Logged In As: TSMITH' and a 'Cancel' button. Below the title, there's a 'Select Work Order' dropdown and a 'Go' button. The main content area is a table titled 'Work Order' with columns for Select Number, Description, Start Date, Status, Complete Quality, Change Parts, Non-Routine, Task Card, Visit Title, Maintenance Requirement, Sign Off, and Check Unit Complete. A specific work order is selected, showing details like number (SFM60314), description (VA-C70-53-340-00.Corrosion Prevention - Inspect flight compartment floor structure), start date (22-Sep-2011 00:25:38), status (Released), and complete quality (1). The 'Details' tab is active, showing turnover notes and a table of employees and their notes.

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 shows the Oracle Complex MRO Planning Workbench interface. The main title bar reads "ORACLE® Complex MRO". The top navigation bar includes links for Navigator, Favorites, Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, and Sign Out. The "Planning Workbench" menu is selected. A sub-menu bar below it shows "Unit Maintenance Plan", "Visit Work Package", "Planning Workbench", "Fleet Forecasting", "Component Maintenance", "Assembly Maintenance", and "Auto Visit Planning". The user is logged in as "TSMITH". The main content area is titled "Unit Maintenance Plan" and contains two search regions: "Simple Search" and "Advanced Search". The "Simple Search" region 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. It also features checkboxes for "Include Tolerance Date", "Show Dependent Requirements", and "Show Only Non Routine Requirements". The "Advanced Search" region includes fields for Operating Organization, Primary Visit Type, Visit Number (set to 1310), Max Duration, Service Category, Engineering Organization, Scheduled Visit Type, Visit Organization, and checkboxes for "Show Only Visit Date - Due Date Violations" and "Show Only Visit Date - Due Date Violations". At the bottom of the search area are "Go" and "Clear" buttons.

2. Identify AOG material requirement shortages.

Navigation: Material Marshalling User > Demand and Supply Management > Work Order Material Demand

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_SHT	Mandatory	
CSO	CYCLES SINCE OVERHAUL	Util Cyc	-100	SS_EC_E_SHT	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_SHT	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	<input type="text"/>	Locator	<input type="text"/>	<input type="checkbox"/> Include Build Goal hard limits
* Search Organization	San Francisco Maintenance		Owner	<input type="checkbox"/> Include Build Goal soft limits
Sub Inventory	<input type="text"/>		<input type="checkbox"/> Search material with reserved items	<input type="checkbox"/> Show Alternate items
<input type="button" value="Go"/> <input type="button" value="Clear"/>				

Select Organization Onhand: Create Reservation [Previous 10](#) 11-11 of 11 [Next](#)

Select All | Select None

Select Counters Item	Instance Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order		Move Order	
						Number Status	Is Shipped	Number Status	
<input type="checkbox"/> oo SS_EC_E_HT	2996038	hh547	STORES	1.1.1.. Vision Corporation	SFMPWO62383				

Demand and Supply Management Visit Management Home Profile Sign Out Copyright 2006, Oracle Corporation. All rights reserved.

- **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	Operation Sequence
Serial Number	Non-Routine Number	Available By
Supply Organization	Supply Visit	<input type="checkbox"/> Include Build Go
Supply Work Order	Demand Organization	<input type="checkbox"/> Include Build Go
<input type="button" value="Go"/> <input type="button" value="Clear"/>		

Existing Reservations

Select Reservation Cancel Reservation [Go](#)

Select All | Select None

Select Counters Item	Item Instance	Part Condition	Reservation Type	Serial No	Supply Details			Demand Details		Internal Order	
					Organization	Inventory	Work Order Status	Non-Visit Number	Organization	Work Order Date	Number Status
<input type="checkbox"/> oo SS_EC_E_HT	2996037		Inventory	hh546	San Francisco Maintenance Center US	STORES		San Francisco Maintenance Center US	SFMPWO62383	04-Apr-2012	
<input type="checkbox"/> oo SS_EC_E_HT	2996038		Inventory	hh547	San Francisco Maintenance Center US	STORES		San Francisco Maintenance Center US	SFMPWO62383	04-Apr-2012	

Demand and Supply Management Visit Management Home Profile Sign Out Copyright 2006, Oracle Corporation. All rights reserved.

- **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	Work Order Status	Work Order Status	Include Build Goal hard limits																															
Non-Routine Number	* Supply Organization	Owner	Include Build Goal soft limits																															
Serial Number	Owner	Reservation Work Order Number	Search material with reserved items																															
Available By	Reservation Work Order Number	Go	Show Alternate Items																															
Go	Clear																																	
<table border="1"> <thead> <tr> <th>Select</th> <th>Counters</th> <th>Item</th> <th>Item Work Order</th> <th>Supply Work Order Details</th> <th>Reservation Work Order Details</th> </tr> <tr> <th></th> <th></th> <th></th> <th>Instance Number</th> <th>Serial Number</th> <th>Non Routine Number</th> <th>Available Date</th> <th>Supply Organization</th> <th>Repair Batch</th> <th>Work Order Status</th> <th>Work Order Number</th> <th>Start Date</th> </tr> </thead> <tbody> <tr> <td colspan="12">No results found.</td> </tr> </tbody> </table>					Select	Counters	Item	Item Work Order	Supply Work Order Details	Reservation Work Order Details				Instance Number	Serial Number	Non Routine Number	Available Date	Supply Organization	Repair Batch	Work Order Status	Work Order Number	Start Date	No results found.											
Select	Counters	Item	Item Work Order	Supply Work Order Details	Reservation Work Order Details																													
			Instance Number	Serial Number	Non Routine Number	Available Date	Supply Organization	Repair Batch	Work Order Status	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	Include Build Goal hard limits																											
Visit Number	Visit Start Date <=	Unit	Include Build Goal soft limits																											
Visit Start Date <=	29-Jun-2012	Go	Show Alternate Items																											
Go	Clear																													
<table border="1"> <thead> <tr> <th>Select</th> <th>Counter</th> <th>Item</th> <th>Serial Number</th> <th>Item Instance</th> <th>Visit Number</th> <th>Visit Priority</th> <th>Visit Type</th> <th>Visit Status</th> <th>Visit Start Date</th> <th>Unit</th> <th>Master Configuration</th> <th>Position</th> </tr> <tr> <td colspan="13">No results found.</td> </tr> </thead> </table>					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.												
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.																														

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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 Maintenance	Department: Engine Shop, SFM
Start From: 18-Jun-2012	Start Before: 1310
Visit Number: 1310	Space: [18-Jun] [19-Jun] [20-Jun] [21-Jun] [22-Jun] [23-Jun] [24-Jun]
Selected 'Visit number' will only be used to default other search fields.	
Display Days Window: 7	
<input type="button" value="Go"/> <input type="button" value="Clear"/>	

Start Day	Start Week	Filter By: All	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** **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	Unit: [UOM] Days
Master Configuration	Minimum Duration
Start From: 01-Jun-2013	Start Before: [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]
Display Days Window: 14	
<input type="button" value="Go"/> <input type="button" value="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

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

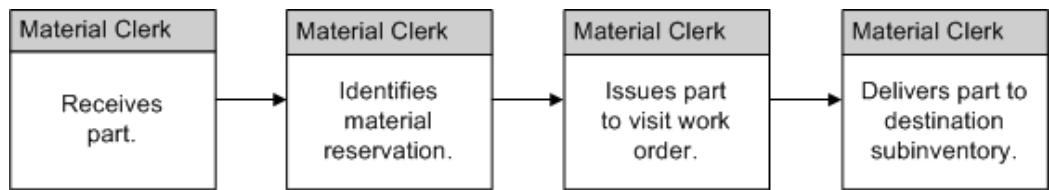
Role 13.0 - Material Clerk (Issues/Returns)

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 effectiveness, 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: • Visit Types • Service Category • Program Type • Program Subtype	Engineering	Application Developer > Application > Lookups > Application Object Library
2. Define Visit Type profiles. • 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. <p>Define space capabilities by adding master configurations and visit types.</p>		Administration > Department Location > Edit Department Location
		Administration > Spaces
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)

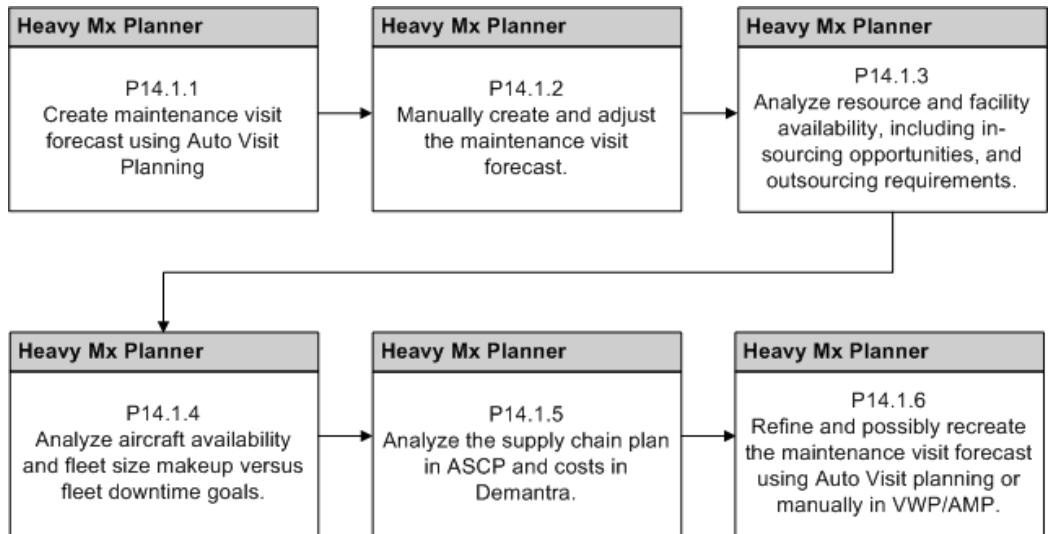
Prerequisite Setup Task	Role Performing Task	Navigation
8. Create the fleet maintenance program and define maintenance requirements.	Engineering	Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirement > Create (B)
<ul style="list-style-type: none"> • Define tolerance before 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 		
9. Create maintenance forecast.	Engineering	
	Initialize MRs.	
	Run the Build Unit Effectivities (BUE) program.	
10. Analyze maintenance history using Demantra to generate non-routine estimates.	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 screenshot shows the Oracle Complex MRO software interface. The top navigation bar includes links for Navigator, Favorites, Home Home, Engineering Configuration, Planning, Administration, Execution, Profile Out, and Help. The main menu bar has tabs for Unit Maintenance Plan, Visit Work Package, Planning Workbench, Fleet Forecasting, Component Maintenance, Assembly Maintenance, and Auto Visit Planning. The 'Auto Visit Planning' tab is selected. The 'Overview' sub-tab is also selected. The 'Logged In As' field shows 'TSMITH'. The main content area is titled 'Search Unit Maintenance Plan'. It features a search form with fields for Unit Name, Item, Sort by (set to 'Due Date'), Title, Non Routine Type, Due from, Visit Organization, and checkboxes for 'Show Dependent Components' and 'Show Replicate'. Below the search form is a table with columns: 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, and Manually Planned. A note at the bottom of the table says '+ against Version denotes the Maintenance Requirement version is not latest or the version is terminated'. A message below the table states 'No records were found matching the given criteria.' The bottom navigation bar includes links for 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.

- 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.

Master Configuration Description	Configuration Sequence	AutoVisit	Remove
RRMCI Master Config	1	<input checked="" type="checkbox"/>	
NSAMC1	2	<input type="checkbox"/>	
RadMCMain	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"/>	

- 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.

Details	Program Type Sequence	Autovisit	Remove
Show Letter Check	2	<input checked="" type="checkbox"/>	
Show PM Airframe	3	<input type="checkbox"/>	
Show Phase	4	<input type="checkbox"/>	
Show Corrosion	5	<input type="checkbox"/>	
Show PM Primary MR	6	<input checked="" type="checkbox"/>	

- 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

- 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

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.

Request Number	Request Title	From Date	To Date	Cancel Visit	Create Visit	Add Planned Requirements	Date Created	Created By	Phase	Status	Copy	Remove
40064994	RR_Test_AVF_Create 20-Apr-2012	30-Aug-2012			✓		03:31:10	Tom	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40067114	May Add PI Req	01-May-2012	03-Jun-2012			✓	20-Apr-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40106626	RD_Primary_New1	01-Jun-2012	30-Jun-2012		✓		16-May-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40106627	RD_Primary_Cancel1	01-Jun-2012	30-Jun-2012	✓			16-May-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40107903	RD_Primary_New4	01-Jun-2012	30-Jul-2012		✓		17-May-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40108536	tch test cancel	01-Jun-2012	30-Jun-2012	✓			17-May-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40152350	Remove Visits	22-Jun-2012	31-Aug-2012	✓			22-Jun-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40065571	RD_Auto1	19-Apr-2012	02-Jun-2012		✓		19-Apr-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40098935	RD_Test_AV_104	11-May-2012	30-Jun-2012		✓		10-May-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>
40107541	PAcancel	20-May-2012	22-May-2012	✓			17-May-2012	Smith, Mr.	Unknown - Purged	Unknown - Purged	<input type="button" value="Copy"/>	<input type="button" value="Remove"/>

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.

- The planner can view, edit or cancel visits.

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

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 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.

- 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.

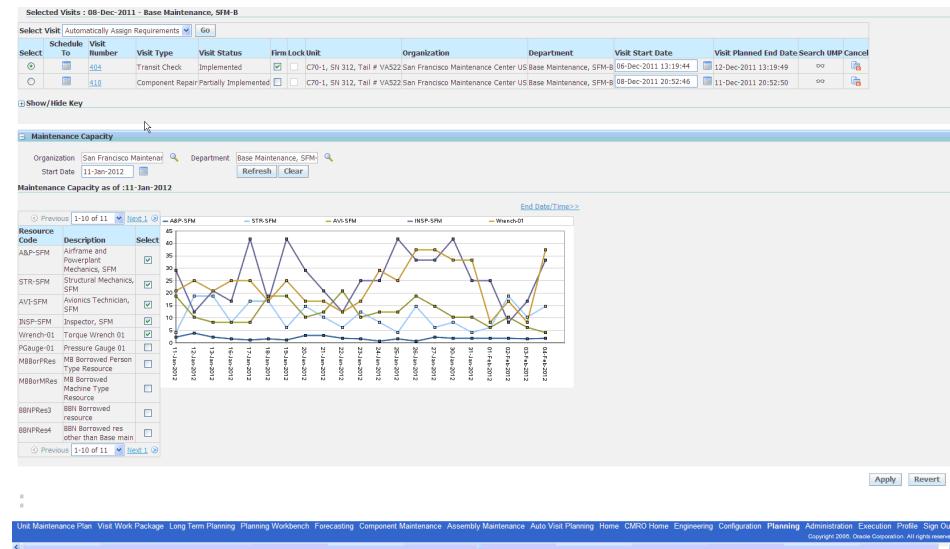
- The planner can click a Visit icon in the table and view the applicable visits for a specific day.

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="radio"/>	26	Engine Overhaul Implemented	<input type="checkbox"/>	C70-1, SN 312, Tail # VA532 San Francisco Maintenance Center US Base Maintenance, SPM	09-Sep-2011 02:00:00	<input type="checkbox"/>	13-Dec-2012 07:43:52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	28	Engine Overhaul Partially Implemented	<input type="checkbox"/>	C70-3, SN 311, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SPM	09-Sep-2011 06:22:00	<input type="checkbox"/>	09-Sep-2012 06:22:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	27	Engine Overhaul Partially Implemented	<input checked="" type="checkbox"/>	C70-3, SN 311, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SPM	22-Sep-2011 06:37:00	<input type="checkbox"/>	30-Oct-2012 00:35:30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	40	SS_Test	<input type="checkbox"/>	Partially Implemented	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SPM	27-Sep-2011 04:58:50	<input type="checkbox"/>	01-Nov-2012 00:52:31	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	43	SS_Test	<input type="checkbox"/>	Implemented	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SPM	27-Sep-2011 22:59:33	<input type="checkbox"/>	30-Nov-2012 22:59:43	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	68	Engine Overhaul Planning	<input type="checkbox"/>	C70-3, SN 312, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SPM	10-Sep-2011 02:00:00	<input type="checkbox"/>	30-Dec-2012 02:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	79	Engine Overhaul Implemented	<input type="checkbox"/>	C70-3, SN 311, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SPM	28-Nov-2011 11:16:09	<input type="checkbox"/>	28-Nov-2012 12:16:09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	83	Engine Overhaul Planning	<input type="checkbox"/>	C70-3, SN 312, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SPM	25-Oct-2011 01:00:00	<input type="checkbox"/>	25-Oct-2012 18:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	89	Engine Overhaul Partially Implemented	<input type="checkbox"/>	C70-3, SN 313, Tail # VA763 San Francisco Maintenance Center US Base Maintenance, SPM	18-Dec-2011 23:43:00	<input type="checkbox"/>	18-Dec-2012 23:43:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	90	Engine Overhaul Partially Implemented	<input type="checkbox"/>	C70-3, SN 312, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SPM	18-Dec-2011 23:43:00	<input type="checkbox"/>	04-Aug-2012 03:00:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.



4. Analyze aircraft availability and fleet size and configuration versus fleet downtime goals.

The planner will evaluate and analyze the visit schedule that has been developed for the maintenance forecast from a fleet scheduling perspective.

- The planner can search by fleet and date range to evaluate the visit forecast and the impact on fleet availability.

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

- The planner can view visit details and resolve any conflicts.

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

- 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

The screenshot shows the Oracle Complex MRO Fleet Downtime Percentage Report. The top navigation bar includes links for Navigator, Favorites, Home, CMRO Home, Engineering, Configuration, Planning, Administration, and Execution. The main content area is titled 'Fleet Downtime Percentage Report' and includes search fields for Fleet, Unit, Service Category, and Duration. Below the search fields is a table with columns: Fleet, Period Start, Period End, Max Downtime %, and % of Total. The table shows no search conducted. At the bottom of the page is a navigation bar with links for Approvals, Workflow, Department Location, Spaces, Space Unavailability, Reliability, Vendor Sourcing, WBS Rules, Visit Types, Utilization History, Maintenance Status, Reports, Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, and 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

The screenshot shows the Oracle Planning Workbench Fleet Schedule tab. The table lists selected visits for tail number 11-Jan-2012 - C70-1, SN 311, Tail # VA521. The columns include: Select, Schedule, To, Visit Number, Visit Type, Visit Status, Firm Lock Unit, Organization, Department, Visit Start Date, Visit Planned End Date, and Search UMP Cancel. The visits listed are: 112 (Component Repair, Implemented, C70-1, SN 311, Tail # VA521, San Francisco Maintenance Center US Outside Processing SPM-B, 11-Aug-2011 13:15:00, 11-Aug-2012 13:15:51, oo,), 120 (Component Overhaul, Implemented, C70-1, SN 311, Tail # VA521, San Francisco Maintenance Center US Outside Processing SPM-B, 16-Aug-2011 00:00:00, 16-Aug-2012 00:00:00, oo,), 131 (R_VISIT_TYPE, Planning, C70-1, SN 311, Tail # VA521, San Francisco Maintenance Center US Outside Processing SPM-B, 16-Aug-2011 14:11:00, 16-Aug-2012 14:11:00, oo,), 146 (R_VISIT_TYPE, Implemented, C70-1, SN 311, Tail # VA521, San Francisco Maintenance Center US Outside Processing SPM-B, 18-Aug-2011 11:30:00, 18-Aug-2012 11:30:00, oo,), and 453 (RD Visit Type, Planning, C70-1, SN 311, Tail # VA521, San Francisco Maintenance Center US Base Maintenance, SPM-B, 11-Jan-2012 00:00:00, 11-Feb-2012 00:00:00, oo,).

5. 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.

6. 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		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 checked="" 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	<input type="checkbox"/>	13-Dec-2012 07:45:52	<input checked="" type="checkbox"/>	<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, SPM	09-Sep-2011 06:22:00	<input type="checkbox"/>	09-Sep-2012 06:22:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="radio"/>			32	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 04:38:00	<input type="checkbox"/>	30-Oct-2012 00:35:30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<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	<input type="checkbox"/>	01-Nov-2012 00:52:31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="radio"/>			42	SS_Test	Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SPM	27-Sep-2011 22:39:33	<input type="checkbox"/>	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, SPM	10-Sep-2011 02:00:00	<input type="checkbox"/>	30-Dec-2012 02:00:00	<input type="checkbox"/>	<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, SPM	28-Nov-2011 11:16:08	<input type="checkbox"/>	28-Nov-2012 12:16:09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="radio"/>			82	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	<input type="checkbox"/>	25-Oct-2012 18:00:00	<input type="checkbox"/>	<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, SPM	18-Dec-2011 23:43:00	<input type="checkbox"/>	18-Dec-2012 23:43:00	<input checked="" type="checkbox"/>	<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, SPM	18-Dec-2011 23:43:00	<input type="checkbox"/>	04-Aug-2012 03:00:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

- 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		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 checked="" 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	<input type="checkbox"/>	13-Dec-2012 07:45:52	<input type="checkbox"/>	<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, SPM	09-Sep-2011 06:22:00	<input type="checkbox"/>	09-Sep-2012 06:22:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="radio"/>			32	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 04:38:00	<input type="checkbox"/>	30-Oct-2012 00:35:30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<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	<input type="checkbox"/>	01-Nov-2012 00:52:31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="radio"/>			42	SS_Test	Implemented	<input type="checkbox"/>	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SPM	27-Sep-2011 22:39:33	<input type="checkbox"/>	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, SPM	10-Sep-2011 02:00:00	<input type="checkbox"/>	30-Dec-2012 02:00:00	<input type="checkbox"/>	<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, SPM	28-Nov-2011 11:16:08	<input type="checkbox"/>	28-Nov-2012 12:16:09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="radio"/>			82	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	<input type="checkbox"/>	25-Oct-2012 18:00:00	<input type="checkbox"/>	<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, SPM	18-Dec-2011 23:43:00	<input type="checkbox"/>	18-Dec-2012 23:43:00	<input checked="" type="checkbox"/>	<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, SPM	18-Dec-2011 23:43:00	<input type="checkbox"/>	04-Aug-2012 03:00:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

- 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

- 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

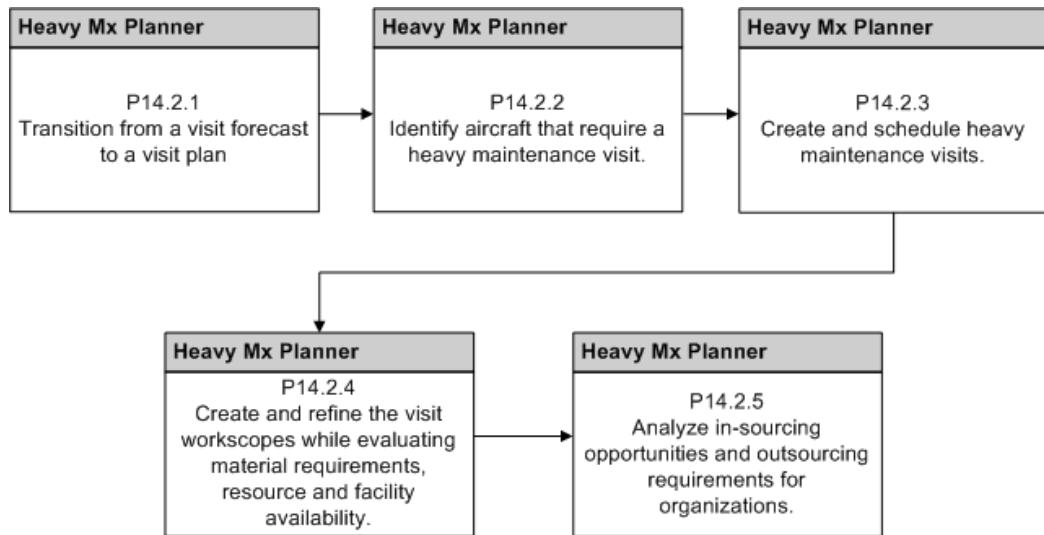
- The planner can navigate directly to the Planning Workbench to evaluate the visit forecast at the maintenance organization level and not just in the context of a single visit.

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 Times | Organization Schedule | Fleet Schedule

Search Unit Schedule

Arrival Organization	San Francisco Maintenance	<input type="button" value="Search"/>
Department		<input type="button" value="Search"/>
Arrival From	12-Jan-2011 07:21:02	<input type="button" value="Search"/>
Service Category	<input type="button" value="Search"/>	
Fleet		<input type="button" value="Search"/>
Unit		<input type="button" value="Search"/>
Departure To		<input type="button" value="Search"/>
Minimum Duration	10M	<input type="button" value="Search"/>

Advanced Search

Select unit downtime: [View Organization Schedule](#) 1-10 of 17 [next](#)

[Show All Details](#) [Hide All Details](#)

Select Details	Created	Visit	Unit	Serial	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 Imp
<input type="radio"/> Show	AMP-UC001	PS003				San Francisco Maintenance	Line Maintenance, SFM		12-Jun-2011 14:00:00									00

Visit

[Select Visit](#) [Automatically Assign Requirements](#)

Select	Schedule	Visit	Number	Visit Type	Visit Status	Visit Start Date	Visit Planned End Date	Visit Space	Visit Firm	Visit Lock	Cancel							
<input type="radio"/>	Show	AMP-UC006	AMP-UC001	Component Repair Planning	13-Jul-2011 00:00:00	<input type="button" value="30-Jul-2011 21:21:05"/>	<input type="checkbox"/>						00					
<input type="radio"/>	Show	AMP-UC002	PS002	Component Repair Planning	02-Aug-2011 05:14:00	<input type="button" value="20-Aug-2011 05:14:00"/>	<input type="checkbox"/>						00					
<input type="radio"/> Show	MBK1	PL003				San Francisco Maintenance	Line Maintenance, SFM	14-Jun-2011 15:00:00										00
<input type="radio"/> Show	AMP-UC006	AMP-UC001				San Francisco Maintenance	Engine Shop, SFM	2	16-Sep-2011 10:00:00									00
<input type="radio"/> Show	AMP-UC002	PS002				San Francisco Maintenance	Base Maintenance, SFM-B		16-Sep-2011 11:00:00		233	Hours	F5001	JFK Maintenance Center US	26-Sep-2011 04:00:00			00
<input type="radio"/> Show	KM-AMP-UC004	AMP-F5004				San Francisco Maintenance	Engine Shop, SFM	2	29-Sep-2011 12:00:00		72	Hours	F5004	JFK Maintenance Center US	02-Oct-2011 12:00:00			00
<input type="radio"/> Show	BR-AMP-UC002	PS003				San Francisco Maintenance	Engine Shop, SFM	2	30-Sep-2011 04:00:00		70	Hours	F5002	JFK Maintenance Center US	03-Oct-2011 02:00:00			00
<input type="radio"/> Show	AMP-UC002	PS003				San Francisco Maintenance	Base Maintenance, SFM-B		01-Oct-2011 11:00:00									00
<input type="radio"/> Show	KM-AMP-UC001	AMP-F5001				San Francisco Maintenance	Engine Shop, SFM	2	02-Oct-2011 21:00:00		34	Hours	F5001	JFK Maintenance Center US	04-Oct-2011 07:00:00			00
<input type="radio"/> Show	BR-AMP-UC002	PS003				San Francisco Maintenance	Engine Shop, SFM	2	06-Oct-2011 03:00:00		46	Hours	F5004	JFK Maintenance Center US	08-Oct-2011 01:00:00			00
<input type="radio"/> Show	KM-AMP-UC004	AMP-F5004				San Francisco Maintenance	Engine Shop, SFM	2	10-Oct-2011 14:00:00								00	

Select unit downtime: [View Organization Schedule](#) 1-10 of 17 [next](#)

Maintenance Capacity

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 edit visits using the Organizational Schedule tab.

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

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	A06 Search	UMP Cancel
<input checked="" type="checkbox"/>	26		Engine Overhaul Implemented	<input type="checkbox"/>	C7X-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	Go	Edit
<input type="checkbox"/>	28		Engine Overhaul Partially Implemented	<input type="checkbox"/>	C7X-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	Go	Edit
<input type="checkbox"/>	37		Engine Overhaul Partially Implemented	<input checked="" type="checkbox"/>	C7X-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	Go	Edit
<input type="checkbox"/>	40	SS_Test	Partially Implemented	<input type="checkbox"/>	SS_C7-1 Tail 0001	San Francisco Maintenance Center	US Base Maintenance, SFM	27-Sep-2011 04:58:50	01-Nov-2012 00:52:31	Go	Edit
<input type="checkbox"/>	43	SS_Test	Implemented	<input type="checkbox"/>	SS_C7-1 Tail 0001	San Francisco Maintenance Center	US Base Maintenance, SFM	27-Sep-2011 22:59:33	09-Nov-2012 22:59:43	Go	Edit
<input type="checkbox"/>	68		Engine Overhaul Planning	<input type="checkbox"/>	C7X-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	Go	Edit
<input type="checkbox"/>	79		Engine Overhaul Implemented	<input type="checkbox"/>	C7X-3, SN 511, Tail # VA761	San Francisco Maintenance Center	US Base Maintenance, SFM	28-Nov-2011 11:06:09	28-Nov-2012 12:16:09	Go	Edit
<input type="checkbox"/>	83		Engine Overhaul Planning	<input type="checkbox"/>	C7X-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	Go	Edit
<input type="checkbox"/>	89		Engine Overhaul Partially Implemented	<input type="checkbox"/>	C7X-3, SN 513, Tail # VA763	San Francisco Maintenance Center	US Base Maintenance, SFM	19-Dec-2011 23:43:00	18-Dec-2012 23:43:00	Go	Edit
<input type="checkbox"/>	99		Engine Overhaul Partially Implemented	<input type="checkbox"/>	C7X-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	Go	Edit

- 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	Schedule	To	Visit Number	Visit Type	Visit Status	Firm Lock Unit	Organization	Department	Visit Start Date	Visit Planned End Date	AOG	Search	UMP	Canceled	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	26		Engine Overhaul Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-1, SN 312, Tail # VA532 San Francisco Maintenance Center US Base Maintenance, SPM	09-Sep-2011 02:00:00		<input type="checkbox"/>	13-Dec-2012 07:43:52	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	28		Engine Overhaul Partially Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SPM	09-Sep-2011 06:22:00		<input type="checkbox"/>	09-Sep-2012 06:22:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	37		Engine Overhaul Partially Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SPM	22-Sep-2011 06:33:00		<input type="checkbox"/>	30-Oct-2012 00:35:30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	40	SS_Test	Partially Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SPM	27-Sep-2011 04:58:50		<input type="checkbox"/>	01-Nov-2012 00:52:31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	43	SS_Test	Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	SS_C70-1 Tail 0001	San Francisco Maintenance Center US Base Maintenance, SPM	27-Sep-2011 22:59:33		<input type="checkbox"/>	30-Nov-2012 22:59:43	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	68		Engine Overhaul Planning	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-1, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SPM	10-Sep-2011 02:00:00		<input type="checkbox"/>	30-Dec-2012 02:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	79		Engine Overhaul Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-3, SN 511, Tail # VA761 San Francisco Maintenance Center US Base Maintenance, SPM	28-Nov-2011 12:16:09		<input type="checkbox"/>	28-Nov-2012 12:16:09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	83		Engine Overhaul Planning	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SPM	25-Oct-2011 01:00:00		<input type="checkbox"/>	25-Oct-2012 18:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	89		Engine Overhaul Partially Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-3, SN 513, Tail # VA763 San Francisco Maintenance Center US Base Maintenance, SPM	18-Dec-2011 23:43:00		<input type="checkbox"/>	18-Dec-2012 23:43:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	99		Engine Overhaul Partially Implemented	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	C70-3, SN 512, Tail # VA762 San Francisco Maintenance Center US Base Maintenance, SPM	18-Dec-2011 23:43:00		<input type="checkbox"/>	04-Aug-2012 03:00:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- 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

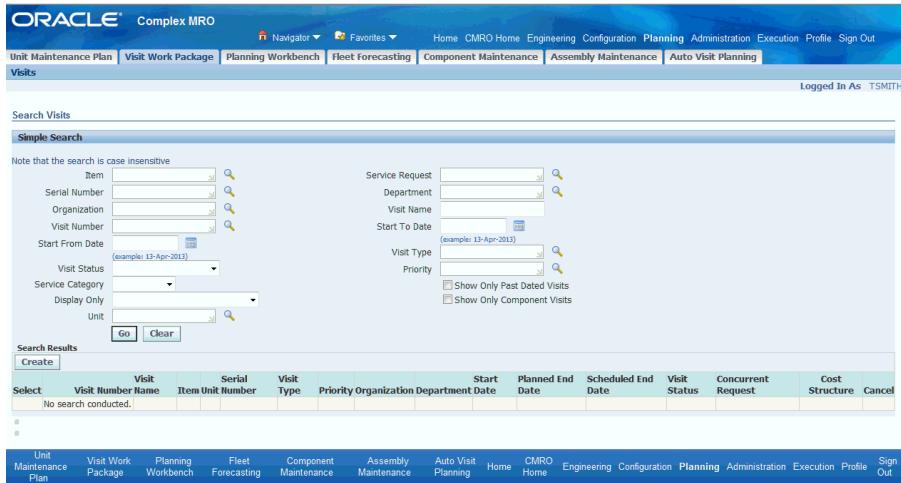
Search by Fleet, Unit, Program Type, Subtype, Due From or Due Within to filter results. The MR Tolerance criteria and MEL and CDL considerations can also impact the due dates. This workbench provides the best method to identify a requirement for a unit, assign it to a visit or create a visit in which 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 effectiveness 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

Hide Visit Details

Visit Number	65	Cancel	Revert	Background Push to Production (Jobs Released)	Go	Apply
Unit	NSAUC1	Visit Name	Auto-Visit-65			
Item	NSASerialItem1	Visit Type	Engine Overhaul			
Organization	San Francisco Maintenance	Serial Number	NSA1			
Start Date	19-Mar-2012 00:00:00	Department	Engine Shop, SFM			
	(Example: 13-Apr-2013 19:45:00)	End Date	19-Mar-2012 10:00:00			
Planned End Date	19-Mar-2012 10:00:00	Due By Date	13-Dec-2012 00:00:00			
	(Example: 13-Apr-2013 19:45:00)	Work Order Number	65 - Auto-Visit-65			
Visit Status	Planning	Build Goal Set up	No			
Past Dated Visit	No					

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

Maintenance Requirement

Item	Description	Program Type
Unit	Serial Number	Status
Service Request	Position	On Wing

Show requirements for instances not associated to visit

Show only Service Category Exceptions

Go | Clear

Highest Requirement Service Category: 0.

Add Unplanned Requirement ▾ Go

Program Type	Title	Description	Service Category	Exception Request	Service Request Summary	Item	Unit	Position	Serial Number	Instance Number	Quantity	IOM Tasks	Cost/Price	Status	Remove
Letter Check	BS_Primary_Visit_MR	0				NSASerialItem1	NSAUC1.21-22-01, 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** | Logged In As TSMITH

Planning Workbench

Unit Maintenance Plan

Hide UMP Search Region | Simple Search

Unit Name	<input type="text"/>	Fleet	<input type="text"/>
Item	<input type="text"/>	Serial Number	<input type="text"/>
Title	<input type="text"/>	Scheduled Status	Unscheduled <input type="button"/>
Due From	13-Apr-2013 <input type="button"/>	Due To	<input type="button"/> <input type="checkbox"/> Include Tolerance Date
Program Type	<input type="button"/>	Program Sub Type	<input type="button"/>
Due Within	<input type="button"/> UOM <input type="text"/>	Implement Status	<input type="button"/>
Arrival Organization	<input type="text"/>	<input type="checkbox"/> Show Dependent Requirements	
Non Routine Type	<input type="text"/>	On Wing <input type="button"/>	

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

Program Type	Title	Item Number	Serial Number	View All Cnt	Unit Name	Cnt UOM	UOM Remain	Earlier Due	Due Date	Latest Date	Schedule Date	Service Request
PM Airframe Mx	SS_MR_NR Estimates	SS_Airframe	1717	<input type="button"/>	TSN	UHR	23950	13-Apr-2013				
MBSRSLocCtrTrkUC	Corrosion	MBSRSLocCtrTrkUC	MBSRSLocCtrTrk001	<input type="button"/>	MBCTR	Ea	170	13-Apr-2013				
Service Bulletin	SS_Airframe_SB_MR1	SS_Airframe	1717	<input type="button"/>	TSN	UHR	23900	13-Apr-2013				
MBSRSLocCtrTrkUC	Service Bulletin	MBSRSLocCtrTrkUC	MBSRSLocCtrTrk002	<input type="button"/>	MBCTR	Ea	170	13-Apr-2013				
SS_P100_1717	Modification	SS_Chain_MR1	SS_Airframe	1717	<input type="button"/>	TSN	UHR	23850	13-Apr-2013			
C70-1-MEL-01	Special	skr-mr-w-AIG	C70-1	C70-1-MEL-01	<input type="button"/>	CSN	UCY	82	13-Apr-2013			
SS_MEL_05	Special	skr-mr-w-AIG	C70-1	SS_MEL_05	<input type="button"/>	CSN	UCY	42	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 planner 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.

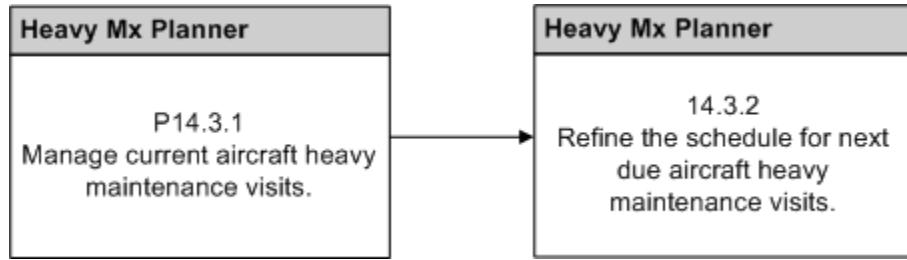
The planner can select a visit in which to base the organization and department, or they can be manually selected. Up to five resources can be selected and compared on the graph at one time. The planner can then adjust the visit start dates and refresh the capacity graph to see the impact.

- 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.

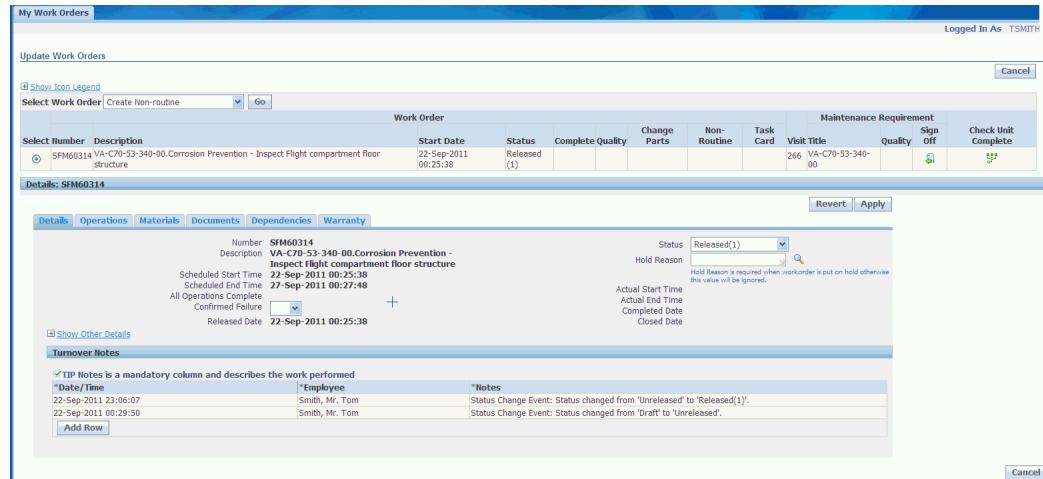
Role 17.0 - Heavy Maintenance Technician

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



My Work Orders

Update Work Orders

Logged In As: TSMITH

Show Icon Legend

Select Work Order: Create Non-routine Go

Work Order

Select Number	Description	Start Date	Status	Complete Quality	Change Parts	Non-Routine	Task Card	Maintenance Requirement	Visit Title	Quality	Sign Off	Check Unit Complete
SPM60314	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			

Details: SPM60314

Revert Apply

Details Operations Materials Documents Dependencies Warranty

Number: SPM60314 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: 22-Sep-2011 00:25:38
Actual End Time: 22-Sep-2011 00:27:48
Completed Date: 22-Sep-2011 00:25:38
Closed Date: 22-Sep-2011 00:25:38

Show Other Details Turnover Notes

Notes: Status Change Event: Status changed from 'Unreleased' to 'Released(1)'. Status Change Event: Status changed from 'Draft' to 'Unreleased'.

Add Row Cancel

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

Planning Workbench

Unit Maintenance Plan

Hide UMP Search Region

Simple Search

Unit Name	<input type="text"/>	<input type="button" value="Search"/>	Fleet	<input type="text"/>	<input type="button" value="Search"/>
Item	<input type="text"/>	<input type="button" value="Search"/>	Serial Number	<input type="text"/> 412	<input type="button" value="Search"/>
Title	<input type="text"/>	<input type="button" value="Search"/>	Scheduled Status	Unscheduled	<input type="checkbox"/> Include Tolerance Date
Due From	01-Apr-2013 <input type="button" value="Calendar"/>		Due To	04-Apr-2013 <input type="button" value="Calendar"/>	<input type="checkbox"/> Include Tolerance Date
Program Type	<input type="button" value="Program Type"/>		Program Sub Type	<input type="button" value="Program Sub Type"/>	<input type="checkbox"/> Show Dependent Requirements
Due Within	<input type="text"/> UOM	<input type="button" value="Search"/>	Implement Status	<input type="button" value="Implement Status"/>	
Arrival Organization	<input type="text"/>	<input type="button" value="Search"/>	On Wing	<input type="button" value="On Wing"/>	
Non Routine Type	<input type="text"/>	<input type="button" value="Search"/>			

Advanced Search

Select Requirements:

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"/> Show	C70-2, SN 412, Tail # VA682	Block	VA-C70-A-020-01	C70-2	412	<input type="checkbox"/>	TSN	UHR	2484		04-Apr-2013			
<input type="checkbox"/> Show	C70-2, SN 412, Tail # VA682	Routine	VA-C70-29-030-01	C70-2	412	<input type="checkbox"/>	TSN	UHR	2484		04-Apr-2013			
<input type="checkbox"/> Show	C70-2, SN 412, Tail # VA682	Routine	VA-C70-24-020-01	C70-2	412	<input type="checkbox"/>	TSN	UHR	2484		04-Apr-2013			

Unit Maintenance Plan - Unit Downtimes tab

Unit Downtimes | Organization Schedule | Fleet Schedule

Search Unit Schedule

Arrival Organization	San Francisco Maintenance	<input type="button" value="Search"/>	Rest Unit	<input type="button" value="Search"/>
Department	<input type="text"/>	<input type="button" value="Search"/>	Departure To	<input type="button" value="Search"/>
Arrival From	10-Ju-2011 (5:00:19)	<input type="button" value="Search"/>	Minimum Duration	<input type="button" value="Search"/>
Service Category	<input type="text"/>	<input type="button" value="Search"/>		

Advanced Search

Select Unit Downtime: Previous 1-10 of 11 Next

Show All Details | Hide All Details

Select Details	Visit	Unit	Arrival Right	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Time	Down Duration	Down UOM	Departure Right	Next Org.	Estimated Departure Time	Actual Departure Time	Search UOM
<input type="checkbox"/> Show	C70-3, SN 513, Tail # VA768	115	San Francisco Maintenance Center US	Base Maintenance, 2 SPN			25-Ju-2011 06:24:09		72.02	Hours	115	San Francisco Maintenance Center US	28-Ju-2011 06:25:35		<input type="checkbox"/>
Visit:															
<input type="checkbox"/> Show	C70-2, SN 411, Tail # 115	115	San Francisco Maintenance Center US	Base Maintenance, 2 SPN			27-Ju-2011 05:26:30		264.05	Hours	115	San Francisco Maintenance Center US	07-Aug-2011 05:29:33		<input type="checkbox"/>
<input type="checkbox"/> Show	C-1000, Tail # 101	115	San Francisco Maintenance Center US	Base Maintenance, 2 SPN			28-Ju-2011 05:37:59								<input type="checkbox"/>
<input type="checkbox"/> Show	C70-3, SN 512, Tail # VA767	115	San Francisco Maintenance Center US	Base Maintenance, 2 SPN			30-Ju-2011 07:39:59		696.09	Hours	115	DPW Maintenance Center US	28-Aug-2011 07:45:21		<input type="checkbox"/>

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.

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 Request
<input type="checkbox"/> Show C70-2, SN 412, Tail # VA682	Block	VA-C70- A-Chk	C70-2	412	øø	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	øø	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	øø	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	Organization	San Francisco Maintenance Center US
Work Order Status	Released(1)	All Operations Completed	
Department	BASE Maintenance Department for MARS	Project	512
Work Order Description	Engine Inspection,Engine Inspection	Project Task	Engine Inspecti
Maintenance Requirement	A-Check for LH C130	Serial Number	C130-4
Route	Engine Inspection	Instance Number	2938064
Item	LH-C130-Hercules	UOM	Ea
Unit Name	M-LH-C130-UC4	Visit Task	10
Quantity	1	Priority	1.1.1..
Visit Number	512	Locator	1.1.1..
Accounting Class	Maintenanc	Scheduled End Date	25-APR-2012 00:00
Completion Sub Inventory	STORES	Actual End Date	
Scheduled Start Date	21-APR-2012 00:00		
Actual Start Date			

Material Requirements

Select Operation:	Remove	Go
Select Operation	Remove	
Seq	20	
Add More Rows		
Select Operation:	Remove	Go

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18.2. Major Task - Job execution:

Task Description: Actual jobs executed within visit time frame.

- Process:** : Aircraft maneuver to gate or platform
 - Towing, parking and cone signals.
 - Outline activities performed by user due to requested maintenance conditions.
- 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.
- 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

Show Icon Legend | Go | Cancel

Select Work Order: Create Non-routine

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 checked="" 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 checked="" type="radio"/>	Show	1 VA-C70-21-27-01-420.801	Uncomplete	0:00	0:00	18-Jun-2009 11:00:00				
<input type="radio"/>	Show	2 VA-C70-21-27-01-720.801	Uncomplete	0:00	0:00	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.							
Add Row							

Login Information

Sequence Code	Employee	Login Date/Time	Logout Date/Time
No results found.			

Cancel

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.

Signoff Maintenance Requirement

Work Order	Work Order ID	Work Order Name	Work Order Type	Work Order Status	Signoff Status
W001	W001	W001	W001	W001	Completed
W002	W002	W002	W002	W002	Completed
W003	W003	W003	W003	W003	Completed
W004	W004	W004	W004	W004	Completed
W005	W005	W005	W005	W005	Completed
W006	W006	W006	W006	W006	Completed
W007	W007	W007	W007	W007	Completed
W008	W008	W008	W008	W008	Completed
W009	W009	W009	W009	W009	Completed
W010	W010	W010	W010	W010	Completed
W011	W011	W011	W011	W011	Completed
W012	W012	W012	W012	W012	Completed
W013	W013	W013	W013	W013	Completed
W014	W014	W014	W014	W014	Completed
W015	W015	W015	W015	W015	Completed
W016	W016	W016	W016	W016	Completed
W017	W017	W017	W017	W017	Completed
W018	W018	W018	W018	W018	Completed
W019	W019	W019	W019	W019	Completed
W020	W020	W020	W020	W020	Completed
W021	W021	W021	W021	W021	Completed
W022	W022	W022	W022	W022	Completed
W023	W023	W023	W023	W023	Completed
W024	W024	W024	W024	W024	Completed
W025	W025	W025	W025	W025	Completed
W026	W026	W026	W026	W026	Completed
W027	W027	W027	W027	W027	Completed
W028	W028	W028	W028	W028	Completed
W029	W029	W029	W029	W029	Completed
W030	W030	W030	W030	W030	Completed
W031	W031	W031	W031	W031	Completed
W032	W032	W032	W032	W032	Completed
W033	W033	W033	W033	W033	Completed
W034	W034	W034	W034	W034	Completed
W035	W035	W035	W035	W035	Completed
W036	W036	W036	W036	W036	Completed
W037	W037	W037	W037	W037	Completed
W038	W038	W038	W038	W038	Completed
W039	W039	W039	W039	W039	Completed
W040	W040	W040	W040	W040	Completed
W041	W041	W041	W041	W041	Completed
W042	W042	W042	W042	W042	Completed
W043	W043	W043	W043	W043	Completed
W044	W044	W044	W044	W044	Completed
W045	W045	W045	W045	W045	Completed
W046	W046	W046	W046	W046	Completed
W047	W047	W047	W047	W047	Completed
W048	W048	W048	W048	W048	Completed
W049	W049	W049	W049	W049	Completed
W050	W050	W050	W050	W050	Completed
W051	W051	W051	W051	W051	Completed
W052	W052	W052	W052	W052	Completed
W053	W053	W053	W053	W053	Completed
W054	W054	W054	W054	W054	Completed
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W076	W076	W076	W076	W076	Completed
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W079	W079	W079	W079	W079	Completed
W080	W080	W080	W080	W080	Completed
W081	W081	W081	W081	W081	Completed
W082	W082	W082	W082	W082	Completed
W083	W083	W083	W083	W083	Completed
W084	W084	W084	W084	W084	Completed
W085	W085	W085	W085	W085	Completed
W086	W086	W086	W086	W086	Completed
W087	W087	W087	W087	W087	Completed
W088	W088	W088	W088	W088	Completed
W089	W089	W089	W089	W089	Completed
W090	W090	W090	W090	W090	Completed
W091	W091	W091	W091	W091	Completed
W092	W092	W092	W092	W092	Completed
W093	W093	W093	W093	W093	Completed
W094	W094	W094	W094	W094	Completed
W095	W095	W095	W095	W095	Completed
W096	W096	W096	W096	W096	Completed
W097	W097	W097	W097	W097	Completed
W098	W098	W098	W098	W098	Completed
W099	W099	W099	W099	W099	Completed
W100	W100	W100	W100	W100	Completed

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.

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"/>	JRKWO15785		Engine Oil	Synthetic Engine Oil				20	20	Ea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	DFWPW0157881		Engine Oil	Synthetic Engine Oil				2	2	Ea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	DFWPW0157935		Engine Oil	Synthetic Engine Oil				1.5	2	Ea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	SFMPW0308366		Hydraulic Filter 111-1	Hydraulic Filter				3	3	Ea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	SFM175		DEM Engine-Oil	Engine-Oil				100	100	GAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	DFWPW0337		DEM Engine-Oil	Engine-Oil				12	12	GAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	SFMPW0275		DEM Engine-Oil	Engine-Oil				45	45	GAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	SFM48		671250-17	Antenna, VHF	Non-Conformance	Unserviceable	6337H12	0	1	Ea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	DFWPW0337		671250-17	Antenna, VHF	Non-Conformance	Unserviceable	812	0	1	Ea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	SFMPW06368		RR5rCtrTrk	RR serial tracked items	Use As Is	Active	RR3000	0	1	Ea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Add More Rows													

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

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

The screenshot shows the Oracle Complex MRO Visit Management interface. At the top, the navigation bar includes links for Navigator, Favorites, Home, Profile, Sign Out, and Help. The user is logged in as TSMITH. The main content area is titled 'Visit Details' and shows the following information:

- Visit Number:** 16
- Unit:** C70-3, SN 511, Tail # VA761
- Sub Inventory Locator:** (not explicitly listed in the screenshot)
- Organization:** San Francisco Maintenance Center US
- Department:** Base Maintenance, SFM-B
- Visit Start Date:** 30-May-2005 00:00:00
- 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	Serial Number	Item Instance Number
C70-3, SN 511, Tail # VA761	Incomplete	C70- 511 3	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
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.

The screenshot shows the Oracle Complex MRO Unavailable Items screen. At the top, a warning message states: "Warning: Low-level Diagnostic Logging is turned on. This may temporarily reduce performance." The user is logged in as TSMITH.

Unavailable Items:

Visit Number	Unit	Position	Total Work Orders	Completed Work Orders
16	C70-3, SN 511, Tail # VA761	Airframe (C70-3\511)	14	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 Details	Required Item	Source Work Order	Op Seq	Required Qty	Required Qty	Inventory Qty	Reserved Qty	Issued Qty	Available Exception Qty Date	AOG	Issue Allowed
<input type="checkbox"/> Show	Compressor Fan Blade	SFM48	2	10	Each 30-Apr-2012	10	540	0	06-Nov-2013		<input checked="" type="checkbox"/>

List Of Items Not Available in Inventory:

Select Items: Check Availability [] Go []

Select Details	Required Item	Source Work Order	Op Seq	Required Qty	Required Qty	Reserved Qty	Issued Qty	Available Exception Qty Date	AOG
<input type="checkbox"/> Show	93242-5	SFM48	2	1	Each 30-May-2005	1	0	05-Feb-2014	

3. 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
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Work Order Material Demand

[Show Icon Legend](#)

Search

Organization	San Francisco Maintenance	Visit Number	370	Show material with reserved Items
Item		Owner		AOG
Department		Priority		<input type="checkbox"/> Show material
Work Order Number		Scheduled Start		<input type="checkbox"/> Show material
Operation Sequence		Scheduled End		
(example: 27-Mar-2013)				
Go		Clear		

Select Requirement Check Availability **Go** **Apply**

View Max Counter	Item	Organization	Department	Number	Op Seq	Build Item	Required AOG Quantity	Reserved Quantity	Issued Quantity	Shipped Quantity	Locator Quantity	Available Priority	Requirement Date
SS_EA_S_MOD1	AHL-KMIT001	San Francisco Maintenance Center US	Engine Shop, SFM	SFMPW070517	10	370	General Technologies	6	1				03-Apr-2012
SS_EC_E_HT	SS_EC_E_HT	San Francisco Maintenance Center US	Engine Shop, SFM	SFMPW070517	10	370	General Technologies	2	1			1	04-Apr-2012
SS_EA_S_MOD1	SS_EA_S_MOD1	San Francisco Maintenance Center US	Engine Shop, SFM	SFMPW070514	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

ORACLE® Complex MRO

Demand and Supply Management | Visit Management

Navigator | Favorites | Home | Profile | Sign Out

Logged In As TSMITH

Warning
Low-level Diagnostic Logging is turned on. This may temporarily reduce performance.

Visit Header Details

Visit Number	370	Organization	San Francisco Maintenance Center US	Planned End Date	30-Jun-2012
Visit Name	VISIT IN TESTING	Department	Engine Shop, SFM	Unit	7070-1
Visit Type	SS_ENGINE_OVERHAUL	Start Date		Serial Number	7070-1

Build Goals

UOM Reading

UCY 300
UHR 300

Cancel

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

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
2981044	AHL-KMIT001-SFM-SN010	STORES	1.1.1..	Vision Corporation	SFMPWO70517				
2981045	AHL-KMIT001-SFM-SN012	STORES	1.1.1..	Vision Corporation	SFMPWO62383				
2981046	AHL-KMIT001-SFM-SN014	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
2981049	AHL-KMIT001-SFM-SN015	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
2981050	AHL-KMIT001-SFM-SN016	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
2981051	AHL-KMIT001-SFM-SN017	STORES	1.1.1..	Vision Corporation	SFMPWO54385				
2981052	AHL-KMIT001-SFM-SN018	STORES	1.1.1..	Vision Corporation	SFMPWO46425				
2981053	AHL-KMIT001-SFM-SN019	In-Plng-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

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.

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

Select Counters Item	Instance Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order Number	Status	Move Order Number
SS_EC_E_HT	2996042	VIST01	30.30.1..	Vision Corporation				
SS_EC_E_HT	2996043	STAGING	10.10.10..	Vision Corporation				
SS_EC_E_HT	2996044	STAGING	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.

3. Identify demand with exception dates.

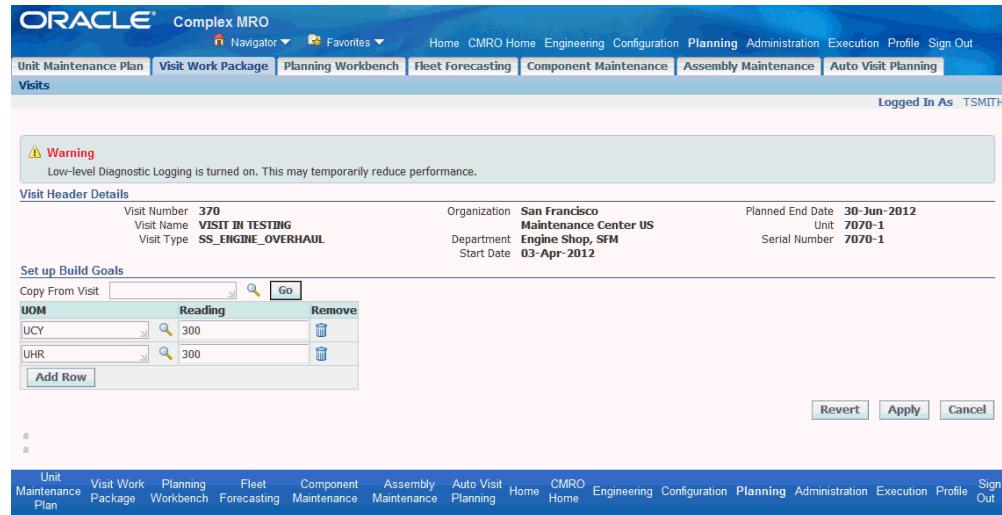
Navigation: CMRO Material Marshalling User > Material Marshalling > Demand and Supply Management > Work Order Material Demand

4. Review build goals 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	<input type="text"/>	<input type="button" value="Search"/>	Locator	<input type="text"/>	<input type="button" value="Search"/>	<input type="checkbox"/> Include Build Goal hard limits
Search Organization	DFW Maintenance Center		Owner	<input type="text"/>	<input type="button" value="Search"/>	<input type="checkbox"/> Include Build Goal soft limits
Sub Inventory	<input type="text"/>		<input type="checkbox"/> Search material with reserved items			<input type="checkbox"/> Show Alternate Items
<input type="button" value="Go"/> <input type="button" value="Clear"/>						

Select Organization Onhand: Create Inter Org Transfer

[Select All](#) | [Select None](#)

Select Counters Item	Instance Number	Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order Number Status	Move Order 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

5. 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.

Select Submit OSP from the drop-down list, and then click Go.

6. 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

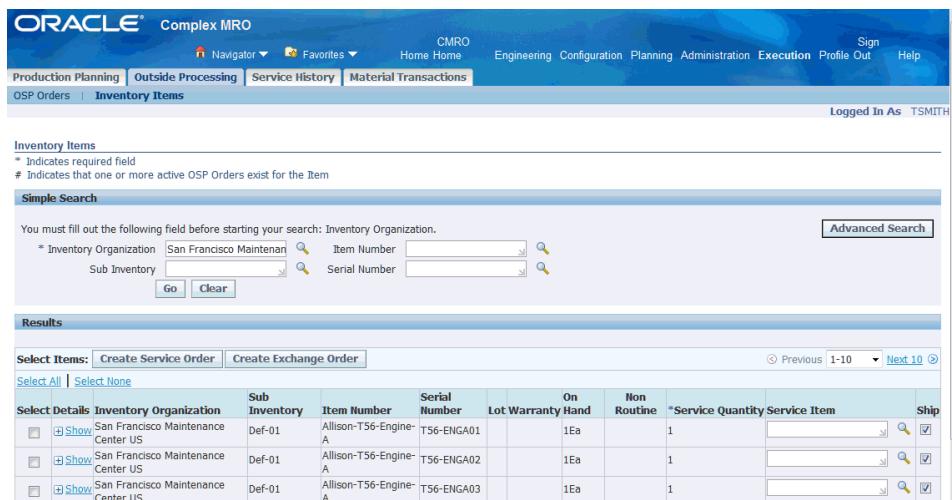
1. Identify unserviceable material requiring third-party maintenance.

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



Select Details	Inventory Organization	Sub Inventory	Item Number	Serial Number	Lot	On Hand	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 checked="" type="checkbox"/>
<input type="checkbox"/>	Show San Francisco Maintenance Center US	Def-01	Allison-T56-Engine-A	T56-ENGA02		1Ea	1			<input checked="" type="checkbox"/>
<input type="checkbox"/>	Show San Francisco Maintenance Center US	Def-01	Allison-T56-Engine-A	T56-ENGA03		1Ea	1			<input checked="" 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

The screenshot shows the Oracle Complex MRO application interface. The top navigation bar includes links for Navigator, Favorites, Home, CMRO, Engineering, Configuration, Planning, Administration, Execution, Profile Out, and Help. The main menu bar has links for Production Planning, Outside Processing, Service History, Material Transactions, OSP Orders, and Inventory Items. The current page is 'Edit OSP Order 62000: General'. The 'General' tab is selected, showing fields for Order Number (62000), Order Status (PO Created), Description (MBSrLotCtrTrkELot1-003), Vendor Name (Advanced Network Devices), Vendor Contact (Mr Martin Rapp), Order Type (Exchange), and OSP Attachments (None, Add...). To the right, there are fields for Order Date (20-Dec-2012), Buyer Name (Smith, Mr. Tom), Vendor Location (SANTA CLARA), Shipment Number (80200), and Vendor Warranty (Yes). The 'Order Lines' section contains a table with columns: Details, Line Number, Status, Job Number, Item Number, Service Item, Quantity, UOM, Exchange Instance, and Need By Date. The table shows one line item with the following details: Item Description (Serial and Lot Controlled Tracked Item), Sub-Inventory (STORES), Lot Number (MBSrLotCtrTrkELot1), Quantity (1), UOM (Ea), Task Name (Visit Name), Task Warranty (Warranty Contract), Warranty Status (Not Applicable), and Warranty Claim (Claim Status). The bottom navigation bar includes links for Production Planning, Outside Processing, Service History, Material Transactions, Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, Sign Out, and 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:

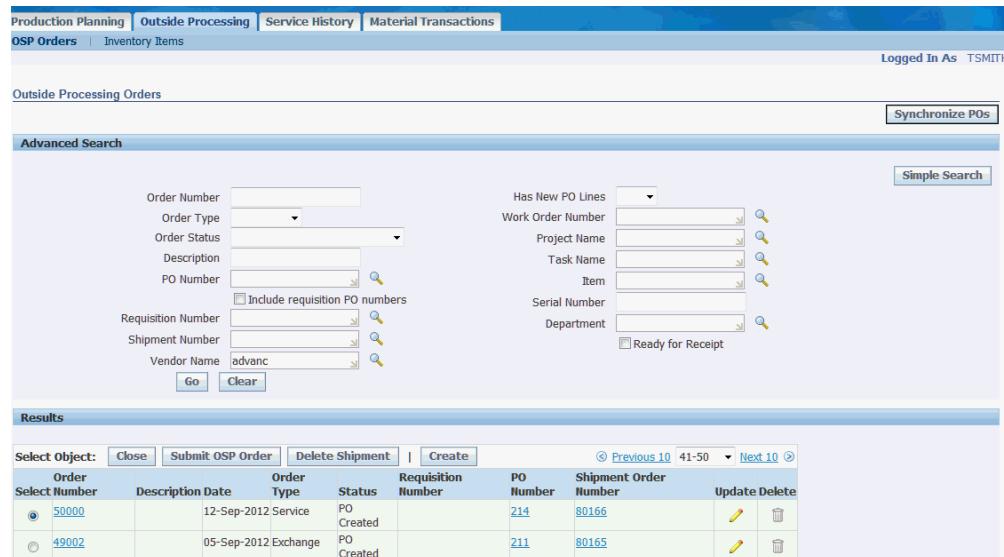
Task Description: Performs the receipt transaction, including counter updates, MR accomplishments, and supplier warranty updates to receive material into serviceable inventory

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.



The screenshot shows the SAP ERP interface for managing Outside Processing Orders. The top navigation bar includes links for Production Planning, Outside Processing, Service History, and Material Transactions. The sub-navigation bar shows 'OSP Orders' and 'Inventory Items'. The top right corner indicates 'Logged In As TSMITI'. The main content area is titled 'Outside Processing Orders' and features an 'Advanced Search' section with various filters. The search filters include Order Number, Order Type, Order Status, Description, PO Number, Requisition Number (with a checkbox for 'Include requisition PO numbers'), Shipment Number, Vendor Name, Work Order Number, Project Name, Task Name, Item, Serial Number, Department, and a checkbox for 'Ready for Receipt'. Below the search section is a 'Results' table. The table has columns for Order Number, Description Date, Order Type, Status, Requisition Number, PO Number, Shipment Order Number, and Update/Delete buttons. Two rows of data are visible: one for order 50000 (Status: PO Created, Shipment Order Number: 80166) and one for order 49002 (Status: PO Created, Shipment Order Number: 80165).

Select Object:	Close	Submit OSP Order	Delete Shipment	Create	Previous 10	41-50	Next 10
Order Number	50000	12-Sep-2012	Service	PO Created	214	80166	
Order Type							
Order Status							
Description							
PO Number							
Requisition Number							
Shipment Number							
Vendor Name	advanc						
Work Order Number							
Project Name							
Task Name							
Item							
Serial Number							
Department							
<input type="checkbox"/> Ready for Receipt							

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:

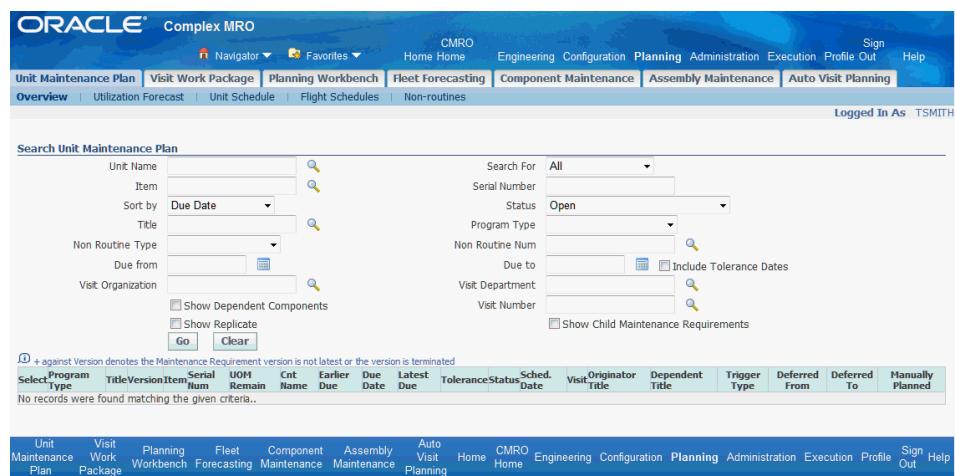
Task Description: Create a complex assembly maintenance forecast by evaluating the impact of life limit, soft limit, optional and required modifications, and the historical analysis of transit non-routine removals and customer planned and unplanned repair streams.

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

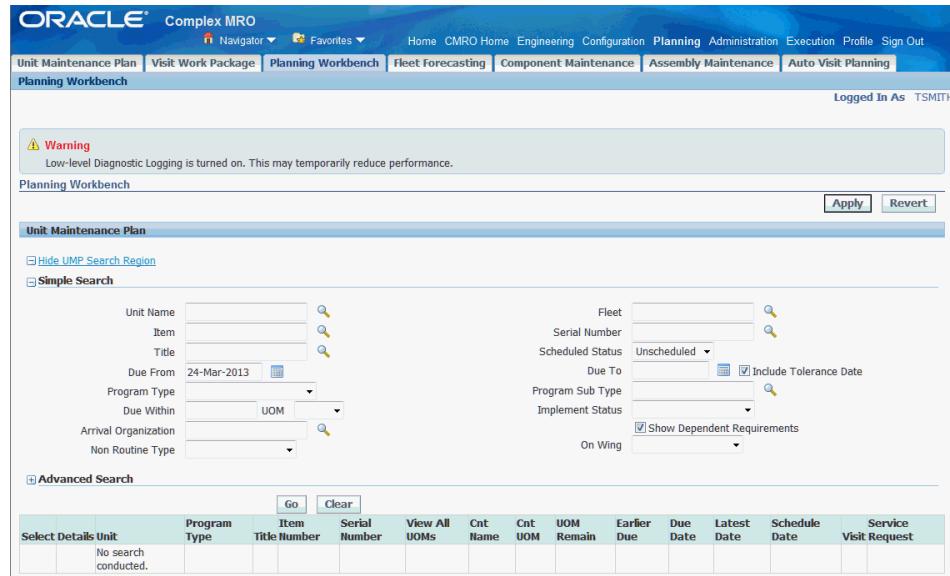
- The planner will confirm that unit effectivities exist in the unit maintenance plan for the removal and repair of complex assemblies. Search by Fleet, Program Type and Subtype in the UMP UI to filter results.

Note: Due date tolerance criteria and MEL and CDL considerations may also impact the due dates.



- 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

Master Configuration Description	Configuration Sequence	Autovisit	Remove	
RRMC1	Master Config	1	<input checked="" type="checkbox"/>	<input type="button" value="Delete"/>
NSAMC1	NSAMC1	2	<input type="checkbox"/>	<input type="button" value="Delete"/>
RadMCMain	RadMC	3	<input type="checkbox"/>	<input type="button" value="Delete"/>
SS_P100	Passenger Aircraft - 100 seater	4	<input checked="" type="checkbox"/>	<input type="button" value="Delete"/>
MSH-MC001	Used for IR flows	5	<input type="checkbox"/>	<input type="button" value="Delete"/>
OSPMC2	OSP Master Config	6	<input type="checkbox"/>	<input type="button" value="Delete"/>

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.

Details	Program Type Sequence	Autovisit	Remove
Show Letter Check	2	<input checked="" type="checkbox"/>	<input type="button" value="Delete"/>
Show PM Airframe	3	<input type="checkbox"/>	<input type="button" value="Delete"/>
Show Mx	4	<input type="checkbox"/>	<input type="button" value="Delete"/>
Show Phase	5	<input type="checkbox"/>	<input type="button" value="Delete"/>
Show Corrosion	6	<input type="checkbox"/>	<input type="button" value="Delete"/>

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

The planner can also create a new request by clicking the Copy icon for an existing request.

6. 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.

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.

7. 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

Details	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	Edit Delete
Show 40367166	RD_AV6	01-Jan-2013	28-Feb-2013		✓			26-Dec-2012 11:54:00	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Edit Delete
Show 40367785	AVP-MC-02	01-Mar-2013	01-Mar-2014		✓			27-Dec-2012 02:25:57	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Edit Delete
Show 40353388	MC-01	01-Jan-2013	01-Mar-2013		✓	✓		13-Dec-2012 11:59:52	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Edit Delete
Show 40367772	AVP-MC-01	01-Mar-2013	01-Mar-2014		✓			27-Dec-2012 02:07:05	Smith, Mr. Tom	Unknown - Purged	Unknown - Purged	Edit Delete
...

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

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	Service Request
<input type="text"/>				
<input type="button" value="Search"/>				

Start From Date: 01-Mar-2013 (example: 24-Mar-2013)

Visit Status: Planning

Service Category:

Display Only: Unit:

Start To Date: (example: 24-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	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	RRSrCtrTrk:RRUC1	RR1000	RR_TEST_AVF			San Francisco Maintenance Center US	Engine Shop, SFM	24-Jul-2013	25-Jul-2013	25-Jul-2013	Planning		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="radio"/>	1542	Auto-Visit-1542	RRSrCtrTrk:RRUC1	RR1000	RR_TEST_AVF			San Francisco Maintenance Center US	Engine Shop, SFM	24-Sep-2013	25-Sep-2013	25-Sep-2013	Planning		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="radio"/>	1833	Auto-Visit-1833	C70-1	C70-1, SN 313 313, Tail # VAS23	Transit Check Old			San Francisco Maintenance Center US	Line Maintenance, SFM	05-Nov-2013	06-Nov-2013	06-Nov-2013	Planning		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

2. Visits can be viewed, edited or cancelled by the planner.

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

ORACLE® Complex MRO

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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

[Hide Visit Details](#)

Visit Number	1519	Visit Name	Auto-Visit-1519
Unit	RRU1	Visit Type	RR_TEST_AVF
Item	RRSrtcrTrk	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	
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	Project
AHL Aircraft Commercial US	<input type="checkbox"/> Firm visit <input checked="" type="checkbox"/> Lock visit
Priority	Work Card Progress
Cost/Price	<input type="checkbox"/> Flag Item Owner
Description	
Item Owner	Business World

[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.

3. 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

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

Create Visit

* Indicates required field

* Visit Name	<input type="text"/>	Cancel	Revert	Apply
Unit	<input type="text"/>	Visit Type	<input type="text"/>	Cancel
Item	<input type="text"/>	Serial Number	<input type="text"/>	Revert
Organization	<input type="text"/>	Department	<input type="text"/>	Apply
Sub Inventory	<input type="text"/>	Physical Locator	<input type="text"/>	
Planning Sub Inventory	<input type="text"/>	Planning Locator	<input type="text"/>	
In-Repair Sub Inventory	<input type="text"/>	In-Repair Locator	<input type="text"/>	
Service Request	<input type="text"/>	Service Category	<input type="text"/>	
Start Date	<input type="text"/>	Planned End Date	<input type="text"/>	
Project Template	<input type="text"/>	Priority	<input type="text"/>	
Project	<input type="text"/>			
Description	<input type="text"/>			

Cancel Revert 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 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

- Visits can be individually scheduled by navigating to the Planning Workbench.

Navigation: Planning > Visit Work Package > Visits > Organization Schedule

Planning Workbench

Visit Details

Visit Organization	364 San Francisco Maintenance	Visit Status Department	Planning Line Maintenance, SFM	Unit	CAMP-MDUC02A
Scheduled Start Date	02-Apr-2012 02:57:00	Scheduled End Date	23-Apr-2012 02:58:38	Space	
				Visit Type	Component 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.			
<input type="button" value="Go"/> <input type="button" value="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

Visit Number	55	* Visit Name	test
Unit	C70-1, SN 311, Tail # VA521	Visit Type	Component Overhaul
Item	C70-1	Serial Number	311
* Organization	San Francisco Maintenance	* Department	Base Maintenance, SFM- <input type="checkbox"/>
* Start Date	04-Mar-2012 11:01:00 (example: 25-Mar-2013 19:45:00)	End Date	04-Mar-2013 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)	Due By Date	19-May-2013 00:00:00
Visit Status	Planning	Work Order Number	55 - test
Past Dated Visit	Yes	Build Goal Set up	No

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

Additional Header Details

Sub Inventory	<input type="text"/>	<input type="button" value=""/>
Service Request	<input type="text"/>	<input type="button" value=""/>
Project Template	AHLT1202463224	Physical Locator <input type="text"/>
Priority	<input type="text"/>	Service Category <input type="button" value=""/>
Cost/Price	<input type="text"/>	Project <input type="checkbox"/>
Description	<input type="text"/>	
Item Owner	General Technologies	
<input type="checkbox"/> Firm visit <input type="checkbox"/> Lock visit		
Work Card Progress		
<input type="checkbox"/> Flag Item Owner		

Assign Spaces

Space	Start from End on Remove
No results found.	
<input type="button" value="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.

The screenshot shows a search interface for organization schedules. At the top, there are search fields for Organization (San Francisco Maintenance), Start From (01-Jan-2013), Start Before (empty), and Display Days Window (14). Below the search bar is a table with columns for Department, Space, and Date (01-Jan to 12-Jan). The table lists departments like 76 - F16 Repair, 76-F100 Repair, AR department, BASE Maintenance Department for MARS, and others, along with their locations (SFO, Hangar 1, Bay 1, 2, etc.). Navigation buttons for Start Day, Start Week, End Week, and End Day are at the bottom of the table.

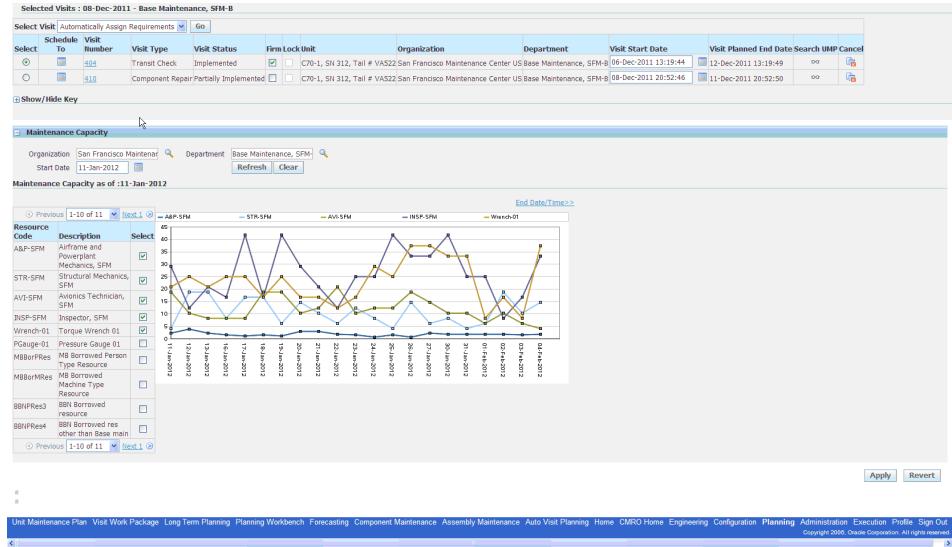
3. The planner can click in the table to view the applicable visits for that day.

The screenshot shows a table titled "Selected Visits : 05-Apr-2012 - Line Maintenance, SFM HANGAR 01". The table has columns for Visit Select Number, Visit Type, Visit Status, Firm Lock Unit, Organization, Department, Visit Start Date, and Visit Planned End Date. It lists two visits: Visit 295 (Planning) and Visit 394 (Implemented). Visit 295 is for SS_P100_A_CHECK Planning, and Visit 394 is for SS_P100_A_CHECK Implemented. Both visits are associated with the San Francisco Maintenance Center, US, and Line Maintenance, SFM. The visit start date for Visit 295 is 02-Apr-2012 at 16:46:00, and for Visit 394 is 05-Apr-2012 at 10:48:33. The visit planned end date for Visit 295 is 07-Apr-2012 at 16:46:00, and for Visit 394 is 07-Apr-2012 at 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.

4. 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-I	Fleet	
Arrival From	11-Mar-2012 00:00:00	Unit		Departure To	
Service Category >=	Category 1	Minimum Duration	UOM		

Advanced Search

[Go](#) [Clear](#)

Select Unit Downtime: View Organization Schedule

[Go](#) [Previous](#) 1-10 of 28 [Next](#)

Select Details	Create	Visit Unit	Arrival Flight	Arrival Org.	Dept.	Service Category	Estimated Arrival Time	Actual Arrival Down Time	Duration	Down UOM	Departure Flight	Next Org.	Estimated Departure Time	Actual Departure Time	Se
<input type="radio"/> Hide	SS_P100	999	San Francisco	Base Maintenance, SFM-B	1	01-Apr-2012 22:30:00		19.5	Hours	1000	DFW	02-Apr-2012	18:00:00		
<input type="radio"/> SN 111			Maintenance Center US												

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 ADG Cancel
<input type="radio"/>	255	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="radio"/>	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"/>	

- 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	Department	
Start From	01-Apr-2012	Start Before	
Visit Number		Space	
Selected 'Visit number' will only be used to default other search fields.			
Go Clear		Display Days Window 14	

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	SFO, Cal Lab 1												
Calibration Lab, SFM													
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

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

Repair Forecast

Logged In As TSMIT

Search Repair Forecast

Simple Search

Organization	San Francisco Maintenance	Item Description	From Date	25-Mar-2013
Item	Search	Item Type	To Date	25-Sep-2013
<input type="button" value="Go"/> <input type="button" value="Clear"/>				

Search Result from 25-Mar-2013 to 25-Sep-2013

Show All Details | Hide All Details

Details	Item	Item Description	Item Type	Organization	Requested Quantity	Planned Quantity	Scheduled Quantity		
<input type="checkbox"/>	Show	F100PW200	Pratt and Whitney F100 Engine	Rebuildable	San Francisco Maintenance Center	US	2	0	0

2. 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

ORACLE® Complex MRO

Demand and Supply Management | Visit Management

Navigator | Favorites | Home | Profile | Sign Out

Logged In As TSMI

Work Order Material Demand

Show Icon Legend

Search

Organization	<input type="text"/>	<input type="button" value="🔍"/>	Visit Number	<input type="text"/>	<input type="button" value="🔍"/>	Show material with reserved Items	<input type="checkbox"/>
Item	<input type="text"/>	<input type="button" value="🔍"/>	Owner	<input type="text"/>	<input type="button" value="🔍"/>	AOG	<input type="checkbox"/>
Department	<input type="text"/>	<input type="button" value="🔍"/>	Priority	<input type="text"/>	<input type="button" value="🔍"/>	Show material with a	<input type="checkbox"/>
Work Order Number	<input type="text"/>	<input type="button" value="🔍"/>	Scheduled Start	25-Mar-2013 <input type="button" value="CALENDAR"/>	<input type="button" value="🔍"/>	Show material with b	<input type="checkbox"/>
Operation Sequence	<input type="text"/>	<input type="button" value="🔍"/>	Scheduled End	<input type="text" value="example: 25-Mar-2013"/>		Show material with e	<input type="checkbox"/>
<input type="button" value="Go"/> <input type="button" value="Clear"/>							

Select Requirement | Schedule Material Requirement

Select	View Max Counter	Item	Organization	Department	Work Order Number	Op Seq	Build Item	Required AOG	Reserved Quantity	Issued Quantity	Shipped Quantity	Visit Locator	Available Quantity	Priority	Required Date
<input checked="" type="radio"/>	DA	758R990G01	San Francisco	Line Maintenance, Center US	SFMPWO14640210	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.

3. 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.

4. The planner can receive a requested return date for the repair of a customer unit based.
5. 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

Select Counters Item	Instance Serial Number	Sub Inventory	Locator	Item Owner	Reserved For Work Order	Internal Order Number	Status	Is Shipped	Move Order Number
758R990G01	3004064 100	UNSERV	1.1.10..	Vision Corporation					
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

- 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.

The screenshot shows the Oracle Complex MRO software interface. The top navigation bar includes links for Navigator, Favorites, Home, CMRO, Engineering, Configuration, Planning, Administration, Execution, Profile Out, Help, and Sign In. The main menu bar has tabs for Unit Maintenance Plan, Visit Work Package, Planning Workbench, Fleet Forecasting, Component Maintenance, Assembly Maintenance, and Auto Visit Planning. The sub-menu for the 'Non-routines' tab is currently selected. A warning message at the top states: "Low-level Diagnostic Logging is turned on. This may temporarily reduce performance." Below the warning, the 'Update Non-routine: 77188' is displayed, with a note that it indicates required fields. There are buttons for Initialize, Cancel, and Apply. The main content area is divided into two sections: 'Unit / Component Details' and 'Non-Routine Details'. In the 'Unit / Component Details' section, fields include Unit (SS_CAB_001), Log Series (SS_Airframe), Item (3104037), Instance (3104037), Visit Start Date Time, Associated Work Order, Firm Work order, Visit End Date Time, Next Higher Assembly, Flight Number, Log Number, Serial (SS_CAB_001), Originating Work Order, Work Order Scheduled Start, and Estimated Duration. In the 'Non-Routine Details' section, fields include Request Date (05-Mar-2013), Type (stype11202463402), Customer Type (Organization), Contact Type, Urgency, Problem Code, Problem Summary (incident date in past), Incident Date (04-Mar-2013), Status (Open), Customer Name (General Technologies), Contact Name, Severity (Medium), and Quality Inspection Type.

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.

<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Item"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Condition"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="From Scheduled end date"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="To Scheduled end date"/>						
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Unit"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Earliest due from"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Earliest due to"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Filter by"/>						
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Serial Number"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Instance Number"/>		<input style="width: 300px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="checkbox" value="Have Non Routine due > Assembly due"/>								
Search by Location												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Organization"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Master Configuration"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="checkbox" value="In Inventory"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Sub Inventory"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="checkbox" value="On Configuration"/>				
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Locator"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Next Higher Assembly"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="checkbox" value="In Repair"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text" value="Position"/>		<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="checkbox" value="Out of Enterprise"/>				
Elapsed Counters <												
<input style="width: 50px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Go"/> <input style="width: 50px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Clear"/>												
Instance Location												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Select Details"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Unit"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Serial Number"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Master Configuration"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Condition"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Organization"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Inventory"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Locator"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Visit Assembly"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Earliest Assembly"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Position Due"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Non Routine"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="View Maintenance"/>
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Number Date"/>	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Visit Plan"/>											
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Unit Maintenance Plan"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Visit Work Package"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Planning Workbench"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Forecasting Planning"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Fleet Component Maintenance"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Maintenance Assembly Maintenance"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Auto Visit Planning"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Home CMRO Home"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Engineering Configuration"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Planning Administration"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Administration Execution"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="Execution Profile"/>												
<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="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

* Item	E86-1	<input type="button" value=""/>	Condition	<input type="button" value=""/>	* From Scheduled end date	01-Jan-2012	<input type="button" value=""/>				
Unit	E86-1, 789383	<input type="button" value=""/>	Earliest due from	<input type="button" value=""/>	* To Scheduled end date	01-Apr-2013	<input type="button" value=""/>				
Serial Number	789383	<input type="button" value=""/>	Earliest due to	<input type="button" value=""/>	Filter by	<input type="button" value=""/>					
Instance Number	3078041	<input type="button" value=""/>	<input type="checkbox"/> Have Non Routine due > Assembly due								
Search by Location											
Organization	<input type="button" value=""/>	<input type="button" value=""/>	Master Configuration	<input type="button" value=""/>	<input type="button" value=""/>	<input type="checkbox"/> In Inventory					
Sub Inventory	<input type="button" value=""/>	<input type="button" value=""/>	Next Higher Assembly	<input type="button" value=""/>	<input type="button" value=""/>	<input type="checkbox"/> On Configuration					
Locator	<input type="button" value=""/>	<input type="button" value=""/>	Position	<input type="button" value=""/>	<input type="button" value=""/>	<input type="checkbox"/> In Repair					
<input type="checkbox"/> Out of Enterprise											
<input type="checkbox"/> Elapsed Counters < <input type="button" value="Go"/> <input type="button" value="Clear"/>											
Select Unit : <input type="button" value="Create Visit"/> <input type="button" value="Create Removal Non Routine"/>											
<input type="button" value="Show All Details"/> <input type="button" value="Hide All Details"/>											
		Serial Number	Master Configuration	Condition	Organization	Inventory	Locator	Instance Location	Earliest Assembly Due	Non Routine Due Date	View Maintenance Plan
Select Details	Unit	789383	3078041	E86-1 Jet Engine				Next Higher Assembly	Earliest Assembly Due	Non Routine Due Date	View Maintenance Plan
<input type="radio"/>	<input type="checkbox"/> Show E86-1, 789383							N398AV - A320	72-02, #2 Engine		00

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 effectiveness that is displayed in the Unit Maintenance Plan search results.

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

Select Details	Unit	Program Type	Title	Item Number	Serial Number	View All UOMs	Cnt	UOM	UOM Remain	Earlier Due	Due Date	Latest Schedule Date	Service Request
Show	SS_P100_1717	PM Airframe Mx	SS_MR_NR Estimates	SS_Airframe	1717	00	TSN	UHR	5550	11-Jan-2013			
Show	SS_P100_1717	Modification	SS_Loop_MR3	SS_Airframe	1717	00	TSN	UHR	5475	11-Jan-2013			
Show	SS_P100_1717	Letter Check	SS_EC_S_LIP_WAR	SS_EC_S_LIP	1717-2	00	TSN	UHR	5700	11-Jan-2013			
Show	SS_P100_1717	Letter Check	SS_EC_S_LIP_WAR	SS_EC_S_LIP	1717-1	00	TSN	UHR	5700	11-Jan-2013			
Show	RRUC2	Letter Check	RR_Test_12798707_13	RRSrCtrTrk	RR16000	00	RRCTRTEMP	Ea	720	11-Jan-2013			
Show	SS_P100_1717	Modification	SS_MR1_Chain	SS_Airframe	1717	00	TSN	UHR	5500	11-Jan-2013			
Show	RRUC1	Letter Check	RR_Test_12798707_13	RRSrCtrTrk	RR1000	00	RRCTRTEMP	Ea	720	11-Jan-2013			

- 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

CMRO 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 # VA521
Item: C70-1

Sort by: Due Date
Title
Non Routine Type
Due from
On Wing
Service Category: Category 1

Search For: All
Serial Number: 311

Status: Unscheduled
Program Type
Non Routine Num
Due to
Implement Status

Cancel

Go Clear

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

Select Program Type Title Version Item Serial UOM Cnt Name Earlier Due Date Latest Due Tolerance Status Sched. Date Visit Originator Dependent Title Trigger Type Deferred From Deferred To Build Goal % Manually 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 Out Sign In 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

CMRO 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: C70-1, SN 311, Tail # VA521
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

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 Type 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 Out Sign In 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

[Hide Visit Details](#)

Visit Number	310	Visit Name	RR_test_Task_dependencies
Unit	RRUC1	Visit Type	Engine Overhaul
Item	RRSrCtrTrk	Serial Number	RR1000
Organization	San Francisco Maintenance Center US	Department	Engine Shop, SFM
* Start Date	01-Apr-2012 00:00:00	End Date	30-Apr-2012 00:00:00
(example: 24-Apr-2013 19:45:00)		Due By Date	
* Planned End Date	30-Apr-2012 00:00:00	(example: 24-Apr-2013 19:45:00)	
Visit Status	Implemented	Work Order Number	310 - RR_test_Task_dependencies
Past Dated Visit	No	Build Goal Set up	No

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

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

Materials

Select Material Requirement Reserve Items

Select Path	Position	Sub Configuration	Item Group	Item	For Task Description	Task Type	Task Status	Required Date	Schedule Quantity	Required Quantity	Reserved Quantity	UOM	Date	Exception AOG
①			75HPT	75484-5	Assy, Turbine, HP	7 Unplanned	In Shop Floor	01-Apr-2012	3	3	3	Each	20-Jun-2012	<input type="checkbox"/>
②				RRSrCtrTrk	RR serial tracked items	9 Unplanned	In Shop Floor	01-Apr-2012	1	1	1	Each	20-Jun-2012	<input type="checkbox"/>
③				RRSSrLocCtrTrk	Locator controlled serial item	9 Unplanned	In Shop Floor	01-Apr-2012	1	1	1	Each	20-Jun-2012	<input type="checkbox"/>

- 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.

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

Hide Visit Details

Visit Number	310	Visit Name	RR_test_Task_dependencies
Unit	RRUC1	Visit Type	Engine Overhaul
Item	RRScCtrTrk	Serial Number	RR1000
Organization	San Francisco Maintenance Center US	Department	Engine Shop, SFM
* Start Date	01-Apr-2012 00:00:00 <input type="button" value="..."/>	End Date	30-Apr-2012 00:00:00 <input type="button" value="..."/>
* Planned End Date	30-Apr-2012 00:00:00 <input type="button" value="..."/>	Due By Date	
Visit Status	Implemented	Work Order Number	310 - RR_test_Task_dependencies
Past Dated Visit	No	Build Goal Set up	No

Cancel | Revert | Schedule | Go | Apply

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

Additional Header Details

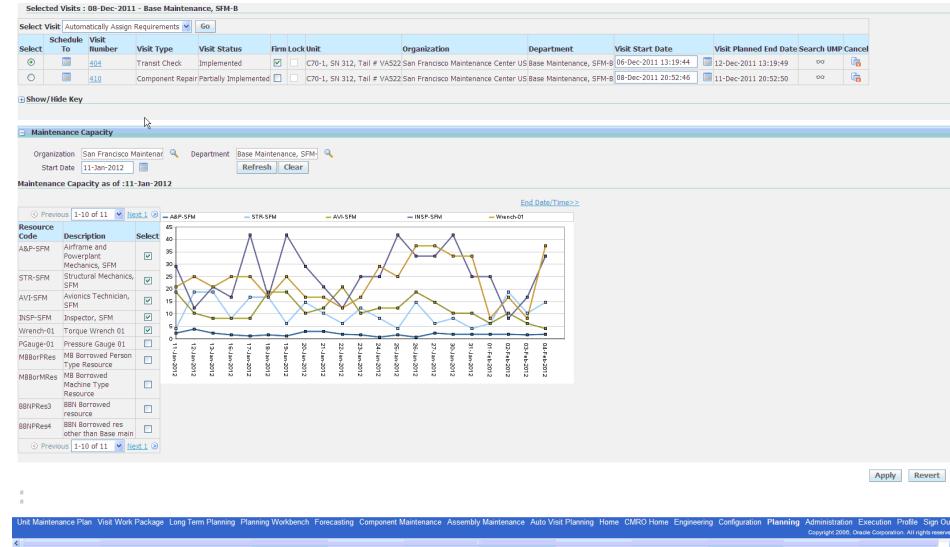
Sub Inventory	Physical Locator
Service Request	Service Category
Project Template	Project
Priority	<input type="checkbox"/> Lock visit
Cost/Price	Work Card Progress
Description	<input type="checkbox"/> Flag Item Owner
Item Owner	Business World

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



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.

Navigation: Planning > Visit Work Package > Visits > Search Visits > Select Schedule action > Go > Planning Workbench

The screenshot shows the Oracle 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 sub-navigation bar shows 'Visits' and 'Logged In As: TSMITH'. The main content area is titled 'Planning Workbench' and 'Visits'. It includes sections for 'Visit Details' (Visit ID: 310, Organization: San Francisco Maintenance, Visit Status: Implemented, Department: Engine Shop, SFM, Space: RRUC1, Visit Type: Engine Overhaul, Scheduled Start Date: 01-Apr-2012 00:00:00, Scheduled End Date: 30-Apr-2012 00:00:00) and 'Maintenance Schedule'. The 'Organization Schedule' section contains a search form for 'Organization' (San Francisco Maintenance), 'Start From' (01-Apr-2012), 'Visit Number' (empty), 'Department' (Engine Shop, SFM), 'Start Before' (empty), 'Space' (empty), and 'Display Days Window' (21). Below the search is a large grid table with columns for 'Start Day' (01-Apr) through 'End Day' (14-Apr) and rows for 'Department' (Engine Shop, SFM) and 'Space' (various units like ENGINE SHOP 1, Eng_Shop_01, Eng_Shop_03, Eng_shop_02, KM_DEMO_SPACE_001). The grid cells are color-coded in shades of blue, indicating different visit types or units.

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.

- 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: <input type="text" value="San Francisco Maintenance"/>	Department: <input type="text"/>	Fleet: <input type="text"/>
Arrival From: <input type="text" value="12-Jan-2011 07:21:02"/>	Unit: <input type="text"/>	Departure To: <input type="text"/>
Service Category: <input type="text"/>	Minimum Duration: <input type="text" value="10M"/>	

Advanced Search

Select Unit Downtime: [View Organization Schedule](#) [Go](#)

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="radio"/>	<input type="radio"/>	AMP-UC001	FL002	San Francisco Maintenance	Line Maintenance, SPM		12-Jan-2011 14:00:00								oo

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	Visit Firm	Visit Lock	Visit Cancel						
<input type="radio"/>	MBU1	FL002	San Francisco Maintenance Center US	Base Maintenance, SPM	13-Jan-2011 00:00:00	30-Jan-2011 21:21:06									oo	
<input type="radio"/>	AMP-UC002	FL003	San Francisco Maintenance Center US	Engine Shop, SPM	2	16-Sep-2011 10:00:00									oo	
<input type="radio"/>	AMP-UC002	FL003	San Francisco Maintenance Center US	Base Maintenance, SPM	16-Sep-2011 11:00:00	233	Hours	FS001							26-Sep-2011 04:00:00	oo
<input type="radio"/>	KM-AMP-UC002	FL003	San Francisco Maintenance Center US	Engine Shop, SPM	2	29-Sep-2011 12:00:00	72	Hours	AMP-FG004						02-Oct-2011 12:00:00	oo
<input type="radio"/>	AMP-UC002	FS000	San Francisco Maintenance Center US	Base Maintenance, SPM	2	30-Sep-2011 04:00:00	70	Hours	FS002						03-Oct-2011 02:00:00	oo
<input type="radio"/>	KM-AMP-UC002	FS000	San Francisco Maintenance Center US	Engine Shop, SPM	2	01-Oct-2011 11:00:00										oo
<input type="radio"/>	KM-AMP-UC002	FL002	San Francisco Maintenance Center US	Engine Shop, SPM	2	02-Oct-2011 21:00:00	34	Hours	KM-PL002						04-Oct-2011 07:00:00	oo
<input type="radio"/>	AMP-UC002	FS003	San Francisco Maintenance Center US	Engine Shop, SPM	2	06-Oct-2011 03:00:00	46	Hours	FS004						08-Oct-2011 01:00:00	oo
<input type="radio"/>	KM-AMP-UC004	FL001	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 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

Maintenance Schedule

[Unit Down Times](#) | [Organization Schedule](#) | [Fleet Schedule](#)

Search Organization Schedule

* Organization: <input type="text" value="San Francisco Maintenance"/>	Department: <input type="text"/>		
Start From: <input type="text" value="01-Jan-2012"/>	Start Before: <input type="text"/>		
Visit Number: <input type="text"/>	Space: <input type="text"/>		
Select 'Visit number' will be used only to default other search fields.			
Go	Clear		
Start Day Start Week	Filter By: All Go	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	

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
<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	<input checked="" type="checkbox"/>	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 inspects 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 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

The screenshot shows the 'Create Non-Routine Workorder' page. At the top, there are tabs for Production Planning, Outside Processing, Service History, and Material Transactions. Below the tabs, a navigation bar includes Work Orders, Operations, Resources, Materials, Maintenance Requirements, My Work Orders, and Visits. A 'Logged In As' section shows 'TSMITH'. The main form has sections for 'Report By Type' (stype11202463402), 'Create Work Order Option' (Create and Release Workorder), 'Contact Type' (Organization, Employee), 'Date' (Medium), 'Severity' (Medium), 'Origination Visit' (Visit N2345HQ, 21-DEC-2011 16:12, Target Visit Number 438), 'Work Order Start Date' (23-DEC-2011), 'Item' (A319), 'Serial Number' (2345), 'Quantity' (1), 'Summary' (a large text area), 'Estimated Duration' (Hrs 11, Mins 57), 'Problem Code' (a text area), and a checkbox for 'Move Quantity to Non-Routine'. To the right, there are sections for 'Firm Work order' (Yes, Name: General Technologies, Contact: Smith, Mr. Tom, Status: Open), 'Urgency' (ACC_RTS_Route_01, Visit N2345HQ, Target Visit End Date 30-DEC-2011 12:22), 'Instance Number' (2986038), 'Lot' (Ea), 'UOM' (Hours), 'Resolution Code' (Business Development), 'Service Type' (Business Development), and 'Warranty Contract' (a text area). The 'Warranty Details' section includes 'Task Warranty' and 'Instance Warranty'. The 'Descriptive Flexfields' section is also present.

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.

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 effectiveness, 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. <p>Define space capabilities by adding master configurations and visit types.</p>	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	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 department spaces.	Engineering	Administration > Spaces > Search Spaces > Create (B)
• Add the Master Configuration item and Visit Type.		
7. Define primary fleets, unit composition and utilization.	Engineering	Planning > Fleet Forecasting

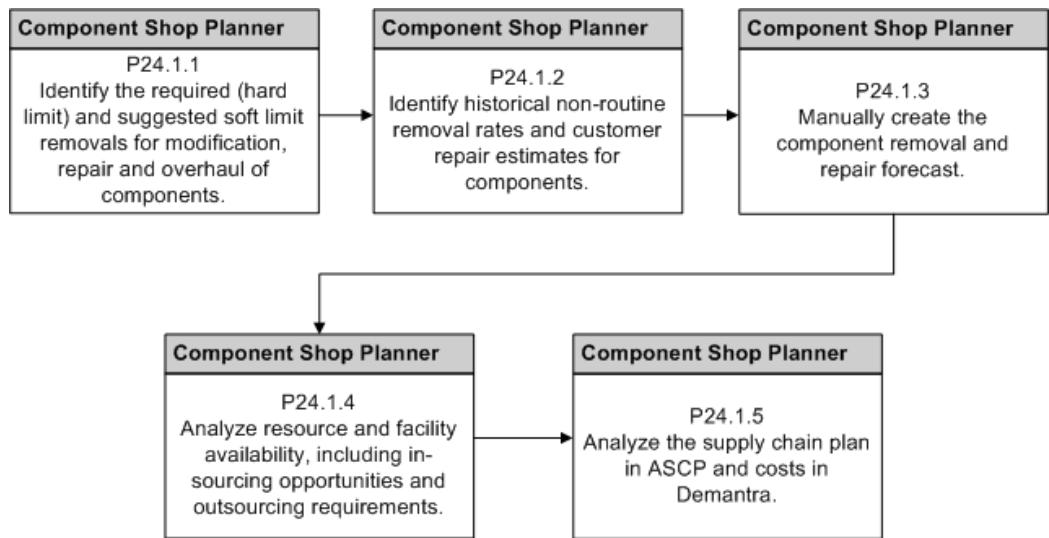
Prerequisite Setup Task	Role Performing Task	Navigation
8. Create the fleet maintenance program and define maintenance requirements.	Engineering	Engineering > Fleet Maintenance Program > Overview > Search Maintenance Requirement > Create (B)
<ul style="list-style-type: none"> • Define tolerance before 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	
9. Create maintenance forecast.	Engineering	
10. Analyze maintenance history using Demantra to generate non-routine estimates.	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.

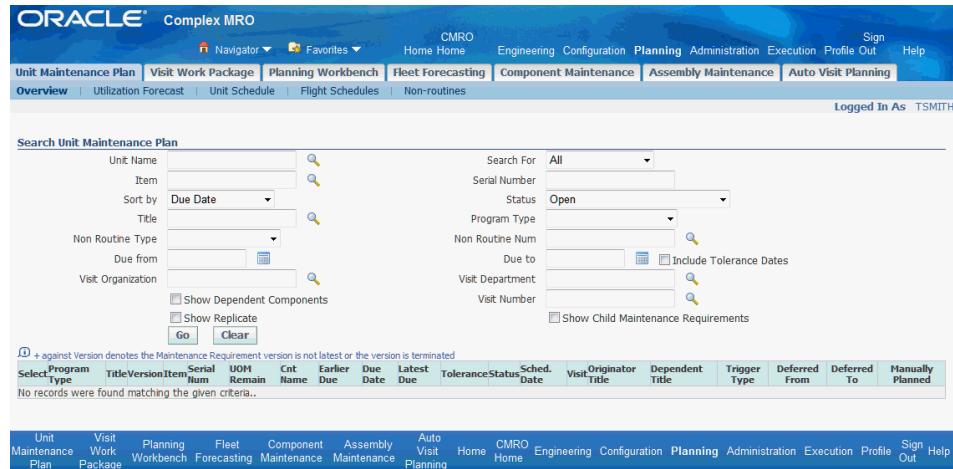
Task Flow



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.

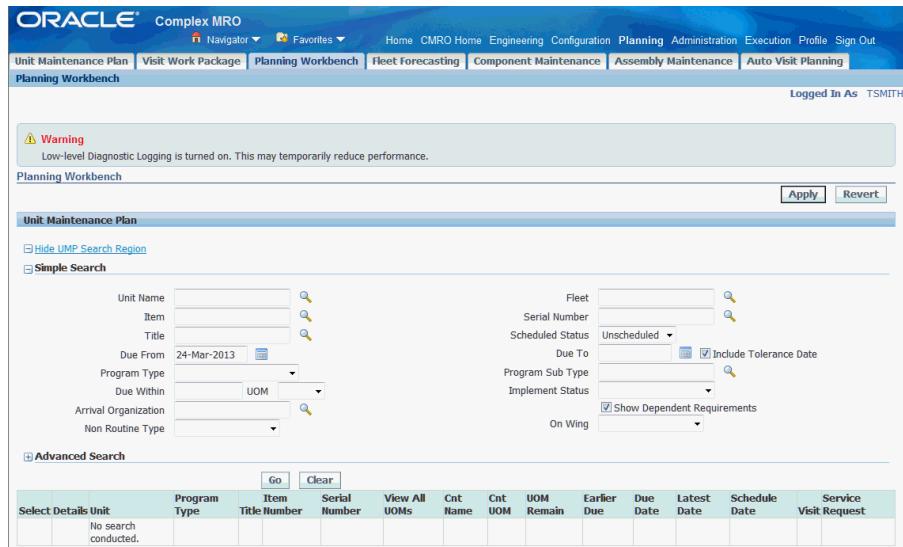
Navigation: Planning > Unit Maintenance Plan > Overview > Search Unit Maintenance Plan

Search for a unit maintenance plan. Search by Fleet, Dependent Components, Program Type and Subtype to provide appropriate filter criteria.



- 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



- 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.

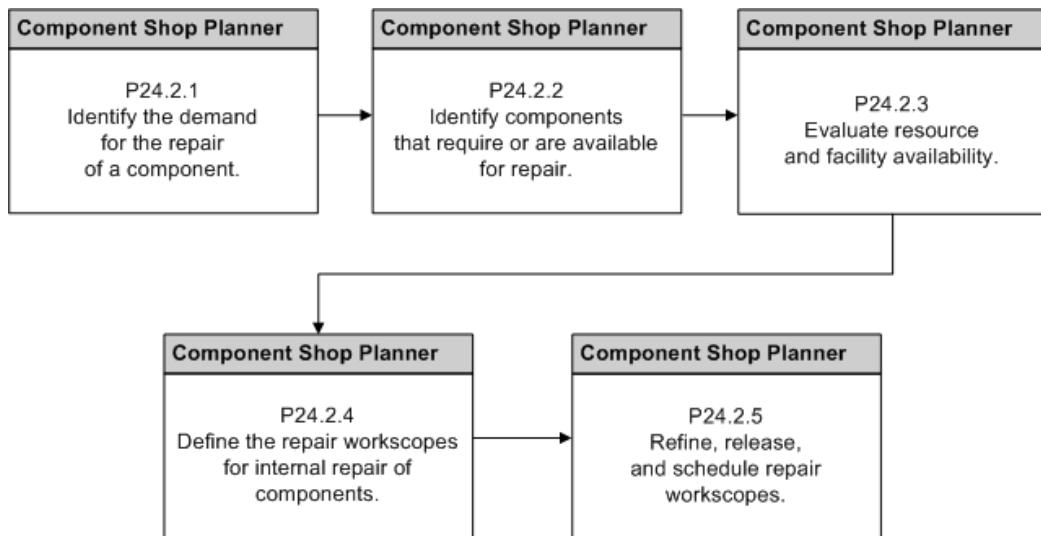
Navigation: Oracle ASCP and Oracle Demantra

- 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

2. Identify components that require or are 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

- 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.

Search Supply And Demand

Simple Search

Organization: San Francisco Maintenance Center US

Item: Compressor Fan Blade

Date From: 01-Jan-2013

Date To: 10-Apr-2013

Demand Date Updated >=

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 checked="" type="radio"/>	Show San Francisco Maintenance Center US	Compressor Fan Blade	Compressor Fan Blade	23-Apr-2012	8	0	0 Ea
<input type="radio"/>	Show San Francisco Maintenance Center US	F100PW200	Pratt and Whitney F100 Engine	06-Jun-2012	2	0	0 Ea

Maintenance Capacity

- 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

Search Repair Items

Requested Supply

Organization: San Francisco Maintenance Center US

Requested Quantity: 8

Date From: 01-Jan-2013

Item: Compressor Fan Blade

Planning Quantity: 0

Date To: 10-Apr-2013

Item Description: Compressor Fan Blade

Scheduled Quantity: 0

Simple Search

Organization: San Francisco Maintenance Center US

Sub Inventory: Compressor Fan Blade

Item: Compressor Fan Blade

Owner Party Name: San Francisco Maintenance Center US

Serial Number:

Lot Number:

Condition:

Repair Batch:

Repair Status:

Show Only Reserved Items:

Go | Clear

Results

Select Details	Item	Item Description	Instance Num	Serial Num	Lot Num	Qty	UOM	Warranty	Condition	Reserved Repair For Work Status Order	Current Location	Return To Repair SubInv	Supply Qty	New Location
No search conducted.														

- 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

Unit Maintenance Plan | Visit Work Package | Long Term Planning | Planning Workbench | 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
Requested Quantity: 1
Date From: 01-Jan-2011
Date To: 01-Jan-2013

Item: CAM-VCP-AH003
Planning Quantity: 0
Item Description: AHL Item. VCP Integration Item. Serial Controlled.
Scheduled Quantity: 0

Simple Search

* Organization: San Francisco Maintenance Center US
Sub Inventory:
Item: CAM-VCP-AH003
Owner Party Name:

Serial Number:
Lot Number:
Condition:
Instance Warranty:
Return To Supply:

Repair Batch:
Repair Status:
Show Only Reserved Items:

Results

Select Instance Number: Edit Warranty:

Instance Details

Select Details Item	Item Description	Instance Num Serial Num	Lot Num Qty UOM	Warranty	Repair Status	Reserved For Work Order	Current Location	SubInv	Repair Batch	Return To Supply	Repair Qty	New Location
<input type="radio"/> Hide	CAM-VCP-AH003	298302	AH003-S9002	1 Each	Planning		In-Plng-CP451	CAM-VCP-AH003.5			1	
Counter Name: Counter Description: Counter Group: Counter Type: UOM Counter Reading Reading Date/Time: CAM-CH001-411531:CAM Hour based counter template:CAM-VCP-AH003 REGULAR UHR_309 12/05/2011 02:38												

- 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.

- 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 Worksop > 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 Worksop Tasks tab.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items > Edit button for row > Define Repair Batch Worksop > Worksop Tasks

Define Repair Batch Workscope

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	X	UOM	Each
Maintenance Center	US	Instances In-Repair	✓	Repair Quantity	1
Batch Status	In Shop Floor	In-Repair Sub Inventory	In_Rpr-CP	Batch Quantity	1
Date Created	12-Jul-2012	In-Repair Locator	X	Workorder Quantity	0
Date Updated	12-Jul-2012	Item	MBSrCtrTrk	Returned as Serviceable Quantity	0
Return To Supply	✓	Serial Number	MBSrCtrTrk029	Returned as Unserviceable Quantity	0
Multiple Instance	X				
Estimated Repair Cost	0				

Workscope Tasks | Task Dependencies | Maintenance Requirements | Workscope Instances

Simple Search

Task Type	Return To Supply	Task Warranty
Task Status	Route Type	<input type="checkbox"/> Hide Summary Tasks
Work Order Status	Service Type	<input type="checkbox"/> Filter for Duplicate R
Warranty Status	Instance Warranty	

Results

Select Task: Create Non-Routine | Go

Select All | Select None

Select Details	Task Number	Task Name	Item	Serial Number	Instance Number	Maintenance Quantity	UOM Requirement	Department	Task Type	Task Status	Warranty	Warranty	Contract Status
<input type="checkbox"/>	7	RTVEERoute	MBSrCtrTrk	MBSrCtrTrk029	2818971	1	Each	RTVEERoute	Summary	In Shop Floor			
<input type="checkbox"/>	8	RTRoute with Unit Update	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	<input type="text"/>	<input type="button" value="Go"/>	<input type="button" value="Clear"/>
Description	<input type="text"/>	<input type="button" value="Go"/>	<input type="button" value="Clear"/>
Status	<input type="text"/>	<input type="button" value="Go"/>	<input type="button" value="Clear"/>

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

Repair Batch Details

Repair Batch	1439.MBSrCtrTrk.6	Instances in Planning	<input checked="" type="checkbox"/>	Instance	2818971
Description	1439.MBSrCtrTrk.6	Planning Sub Inventory	In-Plng-CP	Target Quantity	1
Organization	San Francisco	Planning Locator	3.3.3.CMRO1418.1439-6-	UOM	Each
Maintenance Center	US		X	Repair Quantity	1
Batch Status	In Shop Repair	Instances In-Repair	<input checked="" type="checkbox"/>	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.CMRO1418.1439-6-	Returned as Serviceable Quantity	0
Return To Supply	<input checked="" type="checkbox"/>	Item	MBSrCtrTrk	Returned as Unserviceable Quantity	0
Multiple Instance	<input checked="" type="checkbox"/>	Serial Number	MBSrCtrTrk029		
Estimated Repair Cost	0				

Workscope Tasks | Task Dependencies | Maintenance Requirements | Workscope Instances

Select: Add Planned Requirement | Go

Select Item	Item Description	Item Instance Number	Serial Number	Lot Quantity	UOM	Instance	Issued To Work	Return To Work	Work Orders	Reserved For Work	Return Quantity	Return Condition
<input checked="" type="radio"/>	MBSrCtrTrk Serial Controlled Tracked Item	2818971	MBSrCtrTrk029	1	Each		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	<input checked="" type="checkbox"/>

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 Maintenan	Owner Party Name		Date Created From	01-Apr-2012
Item		Repair Batch		Date Created To	30-Apr-2012
Serial Number		Batch Status		<input type="checkbox"/> Search By Last Updated Dates Instead <input type="checkbox"/> Show Only Instances Issued to Work Orders <input type="checkbox"/> Show Only Batch Quantity Equal to Zero <input type="checkbox"/> All Work Orders Completed	
Lot Number		Instance Warranty			
		Return To Supply			
				Go	Clear

Results

Select Repair Batch	Close Repair Batch	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	Edit	1000.SS_CA_NS_10.2	1000.SS_CA_NS_10	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	Edit	1000.SS_CA_S_OC.1	1000.SS_CA_S_OC	SS_CA_S_OC	In Planning	25-Apr-2012	25-Apr-2012	1	1	1	Each	<input checked="" type="checkbox"/>
<input type="radio"/> Show 1002.Compressor_Fan_Blade.2	Edit	1002.Compressor Fan Blade.2	1002.Compressor Fan Blade	Compressor Fan Blade	In Shop Floor	25-Apr-2012	25-Apr-2012	2	2	2	Each	<input checked="" type="checkbox"/>
<input type="radio"/> Show 1002_SS_CA_S_OC_1	Edit	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	1	Each	<input checked="" type="checkbox"/>
<input type="radio"/> Show 1002_SS_CA_S_OC_5	Edit	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	1	Each	<input checked="" type="checkbox"/>
<input type="radio"/> Show 1060.MBSrctrTrk.4	Edit	1060.MBSrctrTrk.4	1060.MBSrctrTrk	MBSrctrTrk	In Planning	27-Apr-2012	27-Apr-2012	1	1	1	Each	<input checked="" type="checkbox"/>
<input type="radio"/> Show 1060.RTNonSerialItem.1	Edit	1060.RTNonSerialItem.1	1060.RTNonSerialItem	RTNonSerialItem	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.

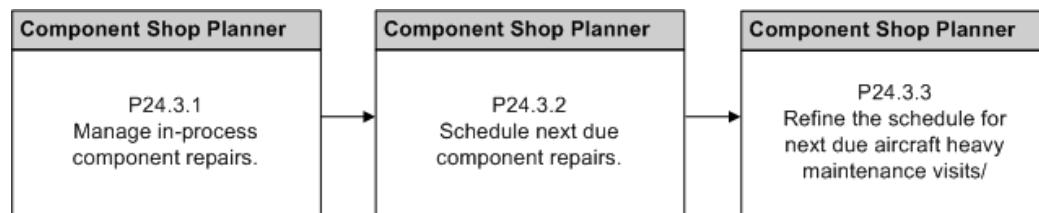
- The planner can then release the work scope tasks by pushing to production in Released or Unreleased status. The tasks will be assigned a work order start date equal to the system date. The work orders can be further scheduled by the Oracle Production Scheduling application.

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 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.

NNavigation: 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.

NNavigation: Execution > Production Planning > Work Orders > Work Order Overview > Select a work order > Select Update Work Order from the Select Tasks drop-down

- 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.

- 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	Item Instance	Serial Number	Lot	Quantity	UOM	Instance	Warranty	Condition
<input type="radio"/> MBS/Ctrk Item	Serial Controlled Tracked Item	281851	MBS/Ctrk009	1	Each				Unserviceable	<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

Repair Items																		
Search Repair Items																		
Simple Search				Advanced Search				Repair Batch										
Organization	San Francisco Maintenance	Serial Number		Serial Number		Lot Number		Repair Status										
Sub Inventory	<input type="checkbox"/> Select Only Unserviceable Items	Condition		Condition		Instance Warranty		Return To Supply										
Item		Owner Party Name		Owner Party Name		Return To Supply		Repair Status		<input type="checkbox"/> Show Only Reserved Items								
Results																		
Select Instance Number:	Edt Warranty	Go	Instance Details															
Select Details	Item	Item Description	Instance Num	Serial Num	Lot Num	Qty	UOM	Instance	Warranty	Condition	Repair Status	Reserved For Work Order	Current Location	Return To Supply	Repair Qty	Repair Batch	Assign Create	New Location
<input type="radio"/> MBS/Ctrk	Non Serial Controlled Tracked Item - For Component	321851			2	Each			Planning			In-Rpr-CP	529.MBCNPN0n0rGCrThChild.8	<input checked="" type="checkbox"/>	2		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	Non Serial Controlled Tracked Item - For Component	3013040			1	Each			Planning			In-Rpr-CP	529.MBCNPN0n0rGCrThChild.1	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	Serial Controlled Tracked Item	281851	MBS/Ctrk009		1	Each			Unserviceable	Production		In-Rpr-CP	451.MBS/Ctrk.2	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	Serial Controlled Tracked Item	2952390	RTS/Ctrk0001		1	Each			Planning			In-Rpr-CP	451.RTS/Ctrk.1	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	NSAItem2	2952367	NSAItem2	29	1	Each			Planning			In-Rpr-CP	496.NSAItem.2	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	CAM-VCP-AN.003	2983937	AHL003-GH002		1	Each			Planning			In-Rpr-CP	491.CAM-VCP-AN.003.5	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	RTS/Ctrk	2952377	RTS/Ctrk10024		1	Each			Planning			In-Rpr-CP	451.RTS/Ctrk.1	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	NSAMItem - Created for NSAM	3003738	NSAMItem	1	Each				Planning			In-Rpr-CP	529.NSAMItem.7	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	Serial Controlled Tracked Item	3818993	MBS/Ctrk019		1	Each			Unserviceable	Planning		In-Rpr-CP	529.NSAMItem.1	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/> MBS/Ctrk	Serial and Revision Controlled Tracked Item	2818121	MBSRev/Ctrk029		1	Each			Planning			STORES	509.MBS/Ctrk.1	<input checked="" type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>

- 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.

Workscope Tasks		Task Dependencies		Maintenance Requirements		Workscope Instances									
Simple Search															
Task Type	<input type="button" value="▼"/>	Return To Supply	<input type="button" value="▼"/>	Task Warranty	<input checked="" type="checkbox"/>	<input type="checkbox"/> Hide Summary Tasks	<input type="checkbox"/> Filter for Duplicate Route's Task								
Task Status	<input type="button" value="▼"/>	Route Type	<input type="button" value="▼"/>												
Work Order Status	<input type="button" value="▼"/>	Service Type	<input type="button" value="▼"/>												
Warranty Status	<input type="button" value="▼"/>	Instance Warranty	<input type="button" value="▼"/>												
<input type="button" value="Go"/>	<input type="button" value="Clear"/>														
Results															
Select Task:	Add Return to Supply Flag <input type="checkbox"/> <input type="button" value="Go"/>														
Select All	<input type="checkbox"/> <input type="checkbox"/> Next New														
Select Details	Task Number	Task Name	Item	Serial Number	Instance Number	Maintenance Quantity UOM Requirement	Department	Task Type	Task Status	Task Warranty	Instance Warranty	Warranty Contract Status	Cost/Price	Return to Supply	Remove
<input type="checkbox"/> <input type="checkbox"/> Show	16	RD_Test_MRI	MBS\LocC07\TR\MBSS\LocC07\TR032.2819024			1 Each	<input type="button" value="RD_Test_MRI"/>	<input type="button" value="Summary"/>	<input type="button" value="In Planning"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> Show	17	Left LDG Oil Level	MBS\LocC07\TR\MBSS\LocC07\TR032.2819024			1 Each	<input type="button" value="RD_Test_MRI"/>	<input type="button" value="Unplanned"/>	<input type="button" value="Planning"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
												<input type="button" value="Recalculate Repair Cost"/>	<input type="button" value="Cancel"/>	<input type="button" value="Revert"/>	<input type="button" value="Apply"/>

- 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

Production Planning
Outside Processing
Service History
Material Transactions

Work Orders
Operations
Materials
Resources
Materials
Maintenance Requirements
My Work Orders
Visits

Logged In As
TSMTSM

Work Order Operations

Indicates required field

Work Order Item **SH192183**

Work Order Description **24-030-01-00.Left IDG Oil Level**

All Operations Completed

Maintenance Requirement **RD_Text_MR1**

Work Order ID **030-01-00**

Item **HB500000100**

Unit

Quantity **1**

Visit Number **528**

Work Order Status **Released(I)**

Hold Reason

Hold Reason is required when worker is put on hold otherwise this value will be ignored.

Completion Sub Inventory

Lot Number

Scheduled Work Order Start Date

Scheduled Work Order Start Time

Actual Job Start Date

Actual Job Start Time

Originating Work Order

Firm Plan Flag

Completed Date

Service Type

Warranty Details

Task Warranty

Instant Warranty

Warranty Contract

Operations

Selected Operation:

Selected Sub-Code:

Actual Start Date:

Actual End Date:

Status:

Select Operation:

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

- 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

Unit Maintenance Plan | Visit Work Package | Long Term Planning | Planning Workbench | Forecasting | Component Maintenance | Assembly Maintenance | Auto Visit Planning | Supply and Demand | Repair Items | **Repair Batches**

Logged In As: TSMITH

Define Repair Batch Workscope

Repair Batch Details

Repair Batch	29.MBSLocCtrTrk.15	Description	29.MBSLocCtrTrk.15	Instances In Planning	In-Plan-CP	Instance	2819024
Organization	San Francisco Maintenance Center US	Planning Sub Inventory	3.3.3.529.15	Target Quantity	1		
Batch Status	In Planning	Planning Locator	3.3.3.529.15	Repair Quantity	1		
Date Created	01-Feb-2012	Instances In-Repair	✓	Batch Quantity	1		
Date Modified	01-Feb-2012	In-Repair Sub Inventory	4.4.4.29.15	Work Order Qty	0		
Return To Supply	✓	In-Repair Locator	Item MBSLocCtrTrk	Returned as Serviceable Quantity	0		
Multiple Instance	✗	Serial Number	MBSLocCtrTrk032	Returned as Unserviceable Quantity	0		
Estimated Repair Cost	0						

Workscope Tasks | Task Dependencies | Maintenance Requirements | Workscope Instances

Select | Add Planned Requirement | Go

Select Item	Item Description	Item Instance	Serial Number	Lot	Quantity	UOM	Balance	Instance	Warranty	Condition	Planning	In-Repair	Is Issued To Work Order	Issued To Work Order	Return To Work Order	Work Orders	Work Order	Work Order	Work Order	Return Quantity	Return Condition	SubInventory	Locator	Return
<input type="radio"/> MBSLocCtrTrk	Serial and Locator Controlled Tracked Item	2819024	MBSLocCtrTrk032	1	Each								✓	✓	✓	✓	✓	✓	✓	1				

Recalculate Repair Cost | Cancel | Revert | Apply

- The planner can now select a repair batch and click the **Close Repair Batch** button. The batch status will change from In Shop Floor to Closed.

Navigation: Planning > Component Maintenance > Repair Items > Search Repair Items

Select Repair Batch | **Close Repair Batch**

Select Details Repair Batch | Edit Description

Select Repair Batch	Batch Item	Batch Status	Date Created	Date Updated	Target Qty	Batch Qty	Returned as Serviceable Qty	UOM	All Work Orders Completed	Each
<input type="radio"/> Hide 451.RTSChTrk.1	RTSChTrk	In Planning	29-Dec-2011	10-Jan-2012	8	2				

Select | Show 451.MBSChTrk.2

Item	Description	Instance	Serial Number	Lot	Revision	Qty	UOM	Instance	Warranty	Condition	Planning	In-Repair	Is Issued To Work Order	Issued To Work Order	Return To Work Order	Work Orders	Work Order	Work Order	Work Order	Return Quantity	Return Condition	SubInventory	Locator	Return	
RTSChTrk	Serial Controlled Tracked Item	2952350	RTSChTrk1001	1	Each							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
RTSChTrk	Serial Controlled Tracked Item	2952373	RTSChTrk024	1	Each							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
<input type="radio"/> Show 451.MBSChTrk.2	451.MBSChTrk.2	MBSChTrk	In Planning	04-Jan-2012	04-Jan-2012	1	1																		

Part 3

Administration

4

FAA Compliance Reports

This chapter covers the following topics:

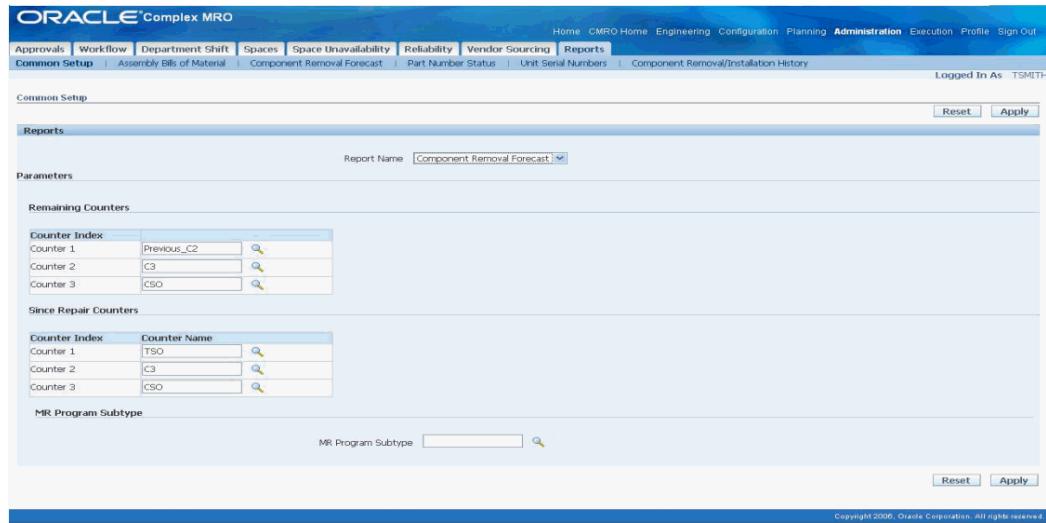
- Using Compliance Reports

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)



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.

Common Setup

Reports

Report Name: Aircraft Maintenance Status

Parameters

Instance Counters

Select Counters:

Select Counter Name

<input type="checkbox"/> First_C1	<input type="button" value=""/>
<input type="checkbox"/> C1	<input type="button" value=""/>
<input type="checkbox"/> CSN	<input type="button" value=""/>

Reset

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

- Unit Name
- Item
- Serial
- Instance
- MR Sub Type

Item Group	Item	Serial	Unit Name	Instance	Details
C70-3	C70-3	513	C70-3, SN 513, Tail # VA763	644107	00
<Multiple>	C70-2	411	C70-2, SN 411, Tail # VA681	644111	00
<Multiple>	C70-2	412	C70-2, SN 412, Tail # VA682	644115	00
<Multiple>	C70-2	413	C70-2, SN 413, Tail # VA683	644119	00
C70-1	C70-1	311	C70-1, SN 311, Tail # VA521	644123	00
C70-1	C70-1	312	C70-1, SN 312, Tail # VA522	644142	00
C70-1	C70-1	313	C70-1, SN 313, Tail # VA523	644156	00

3. Click the **Go** button to display the results.
4. Click the Details button of an Item Group to navigate to the Assembly Bill of Materials Details page.

Details	Build Level	Item Group	Item Number	Item Description	Status	Type	Position	Serial	TSO	First_C1C4 Due Date
411	C70-2	C70-2	Airframe, C70-2	Out of the Enterprise	MISC	MISC	Airframe	411		04-JU-2013

5. The Assembly Bill of Materials Details page displays the following information:
 - Date: Current system date.

- 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.

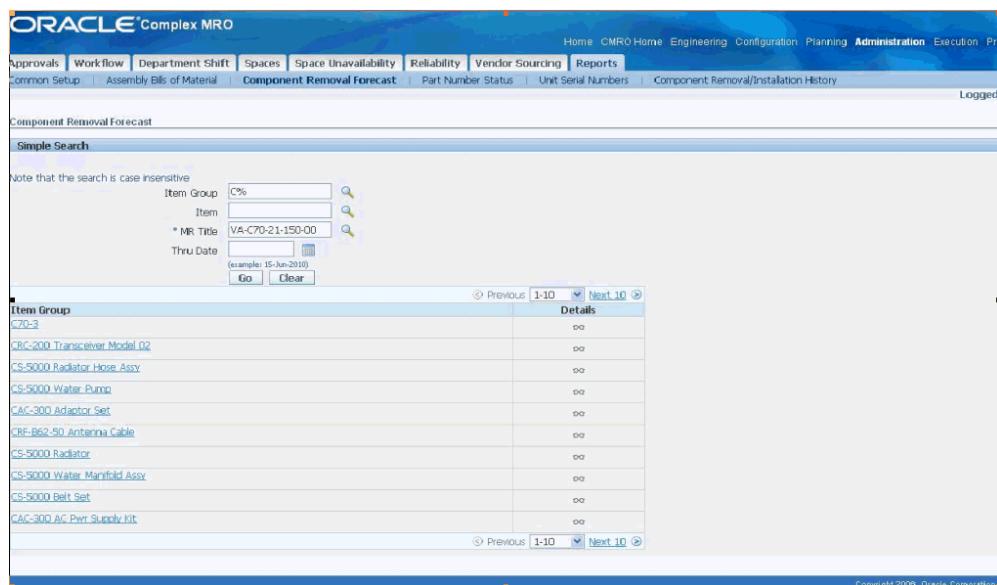
Component Removal Forecast Report

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



Item Group	Item	Details
C70-3	CRC-200 Transceiver Model 02	...
	CS-5000 Radiator Hose Assy	...
	CS-5000 Water Pump	...
	CAC-300 Adaptor Set	...
	CRF-862-50 Antenna Cable	...
	CS-5000 Radiator	...
	CS-5000 Water Manifold Assy	...
	CS-5000 Belt Set	...
	CAC-300 AC Pwr Supply Kit	...

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.

ORACLE Complex MRO

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

Date: 15-JUN-2010
Time: 02:09:52 AM

From ACN	Removal Item	Removal Serial	Position	Removal Date	Remaining	Since Repair	View ABM				
				18M Group Description	MR Title						
				C70-3 Airframe		VA-C70-21-150-00					
				TSO	C3	CSD	TSO	C3	CSD		
C70-3, SN 513, Tail # VA763	C70-3	513	21-24, Relief Valve, Positive Pressure	Overdue							00
C70-3, SN 513, Tail # VA761	C70-3	511	23-16, Antenna, VHF	15-AUG-2010							00
C70-3, SN 513, Tail # VA763	C70-3	513	23-16, Antenna, VHF	Overdue							00
C70-3, SN 513, Tail # VA763	C70-3	513	24-08, Main Battery	Overdue							00
C70-3, SN 512, Tail # VA762	C70-3	512	23-16, Antenna, VHF	15-AUG-2010							00
C70-3, SN 511, Tail # VA761	C70-3	511	24-08, Main Battery	15-AUG-2010							00
C70-3, SN 512, Tail # VA762	C70-3	512	21-24, Relief Valve, Positive Pressure	15-AUG-2010							00
C70-3, SN 512, Tail # VA762	C70-3	512	24-08, Main Battery	15-AUG-2010							00

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- 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 effectiveness 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.
- 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

Item Group	Item	Item Details	Spec Limit	Effectivities
C70-3	C70-3	oo	oo	oo
C70-PH	C70-PH	oo	oo	oo
C70-1	C70-1	oo	oo	oo
C70-2	C70-2	oo	oo	oo

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.



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.

- 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

Spec Limits

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

Counter Name	Counter Value	Counter UOM
TSN	3000	Util Hour
TSN	500	Util Hour
TSN	1000	Util Hour

Cancel Print Export

Approvals Workflow Department Spaces Space Unavailability Reliability Vendor Sourcing Reports Home CMRO Home Engineering Configuration Planning Administration Execution Profile Sign Out

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- 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.
- Click Print to print the search results.
- Click Export to download the data to your local drive.
- Click Cancel to navigate back to the Part Number Status page.
- Click the Effectivities icon of an item group to navigate to the Part Number Status: Component Effectivities page.

ORACLE Complex MRO

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

ORACLE® Complex MRO

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

Unit Serial Numbers

Simple Search

Note that the search is case insensitive

Item Group	243mb	Go	Clear
Item			
* Instance Status	%		
MR Title			

Item Group Details

243MB	Details

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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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.

ORACLE® Complex MRO

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.

Unit Serial Numbers

Cancel Print Export

Date: 15-Jun-2010
Time: 05:11 AM

Item Group: 243MB
Item Group Desc: Main Battery

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

Simple Search

Note that the search is case insensitive

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	...

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.

Warning

Low-level logging is currently enabled. Your application will not perform as well while low-level logging is on.

Line	ACN Details	Special Position	Installation Location	Date	Code	Removal Location	Date	Type	Repair Location	Date
No search conducted.										

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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

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

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.

The screenshot shows the 'Component Maintenance Status Details' page. At the top, there are buttons for 'Cancel', 'Print', and 'Export'. The main content area includes the following sections:

- Item Details:** Item: C70-1, Item Group: C70-1, Unit Status: Out of the Enterprise, Unit Installed: C70-1, SH 311, Tail # VA521, Location Installed: (empty).
- Serial Number:** Serial Number: 311, Unit: C70-1, SH 311, Tail # VA521.
- Position Installed:** Position Installed: Airframe.
- Item Description:** Item Description: Airframe, Item Type: AC_C70, Parent Unit: (empty).
- Date and Time:** Date: 08-OCT-2010, Time: 03:49:42.
- Maintenance Requirements Specifications:** A list of requirements, with the first few shown:
 - 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:** A table showing counter name, UOM, and value:

Counter Name	UOM	Value
CSN	Util Cyc	200
TSN	Util Hour	100
- Remarks:** A section for test notes, with the following entries:

Test Notes
Test Notes1

- 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.

- 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

- Click the Aircraft Maintenance Status sub tab.
- 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

- Click Go to display the search results.
- 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 # VA521
Instance Number: 644123
Item: C70-1
Serial Number: 311
Mfg Date:

Counter Details

Counter Name CSN TSN	Counter Value	Counter UOM Util Cyc Util Hour
----------------------------	---------------	--------------------------------------

Maintenance Requirement Details

Search Maintenance Requirements

View: Title V | Go | Personalize | Simple Search | Previous 1-10 | Next 10 |

Show All Details Hide All Details	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					
Show VA-C70-28-20-01					
Show VA-C70-29-030-01	23-Oct-2009				
Show VA-C70-32-30-00					
Show VA-C70-53-340-00					

Notes
No record found.

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.

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

3. Click Go to display the search results.
4. Click the Details icon to navigate to the Maintenance Requirement Information Details page.

5. 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.

The screenshot shows the Oracle Complex MRO Maintenance Requirement Information and Status page. The page header includes links for Home, CMRO Home, Engineering, Configuration, Planning, Administration, Execution, Profile, and Sign Out. The main content area displays a table of maintenance requirements with the following columns: Number, Item, Serial Number, Status, Due Date, and Position. The table shows two rows of data. Below the table, there are sections for Counter Details and Last Accomplishment Details. The Counter Details section shows a table with columns: Counter Name, UDM, Specification Value, Accumulated Value, Remaining Value, and Triggered. The Last Accomplishment Details section shows a table with columns: Date, Location, Revision, and two rows of data. Navigation links for various MRO modules are visible at the top and bottom of the page.

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.

A

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}

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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
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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 Workslope > 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

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Migrate Unit Configuration	Configuration > Unit Configuration (tab) > Search Unit (secondary tab) > select record > [Migrate]
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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]
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Part Number Status	Administration > Reports > Part Number Status
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Planning Workbench	Planning > Planning Workbench

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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
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Search Fleet-Unit Associations	Planning > Fleet Forecasting > Fleet-Unit Association
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Search Item Compositions	Engineering > Route Management (tab) > Item Compositions (secondary tab)

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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)
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Search Repair Forecast	Planning > Assembly Maintenance > Repair Forecast
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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)
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Search Warranty Instance	Configuration > Supplier Warranty > Search Warranty Instance
Search Warranty Template	Configuration > Supplier Warranty > Search Warranty Template
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Unit Serial Numbers	Administration > Reports > Unit Serial Numbers

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Unit Maintenance Forecast - MR Forecast	Planning > Fleet Forecasting > Unit Maintenance Forecast
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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
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Update Effectivity Details	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title > Effectivities >Effectivity Details
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Update Maintenance Requirement	Engineering > Fleet Maintenance Program (tab) > Overview (secondary tab) > select record > Title
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Update Route	Engineering > Route Management (tab) > Routes (secondary tab) > select record > Route Number

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Update Warranty Template	Configuration > Supplier Warranty > Search Warranty Template > [Edit] for the template line item
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View Documents	Execution > Production Planning (tab) > Work Orders (secondary tab) > select record > {View Documents} > [Go]
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View Purchase Order Shipments	Execution > Outside Processing (tab) > select record > Order Number > PO Details > select line item > [PO Shipments]
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View Warranty Template	Configuration > Supplier Warranty > Search Warranty Template > Click the Template Name link

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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)
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