RAMCO AVIATION SOLUTION

ENHANCEMENT NOTIFICATION

Version 5.8.3

Maintenance

Contents

WHAT'S NEW IN AIRCRAFT?

Ability to conditionally delete parameters mapped to Aircraft and Component

AHBG-11982

Background

In specific scenarios, the Technical, Attribute, Consumption and Range parameters mapped to aircraft and components become redundant or mapped wrongly and hence may need to be disassociated from the maintenance object. Currently, users are not allowed to delete parameters mapped to aircraft and components. Conversely, owing to changed circumstances, some of the deleted parameters could become applicable to the maintenance object yet again.

Change Details

This enhancement enables deletion of parameters mapped to maintenance objects based on a new process parameter 'Allow deletion of parameters for Aircraft and Component'.

The process parameter 'Allow deletion of parameters for Aircraft and Component' under the entity type 'Tech Records Process Ctrl' for the entity 'Manage Technical Records' in the Define Process Entities activity of Common Master has been introduced to ascertain whether the user is allowed or disallowed to delete the parameters.

Process Parameter value	Impact
1/Yes	The user can delete aircraft and component parameters in the **Aircraft** component
0/No	The user cannot delete aircraft and component parameters in the **Aircraft** component

In the Aircraft component, as facilitated by this enhancement, users can now delete the Technical, Attribute, Consumption and Range parameters associated with aircraft and components as illustrated in the table.

Activity	Pages
Edit Aircraft Record	Edit Technical and Attribute Parameters Edit Consumption and Range Parameters
Edit Component Record	Edit Technical and Attribute Parameters Edit Consumption and Range Parameters

Note: The deleted parameters are disassociated from the aircraft and component and not from the attached components/sub-assemblies.

The enhancement also provides for the following to ensure the retrieval of the present value of the parameter in the event of associating deleted parameters to the aircraft/component again:

- Maintains a log to save the details of the deleted parameter
- Retains the history of the parameter value update

Exhibit 1: The **Edit Technical and Attribute Parameters** screen in the **Edit Aircraft Record** activity

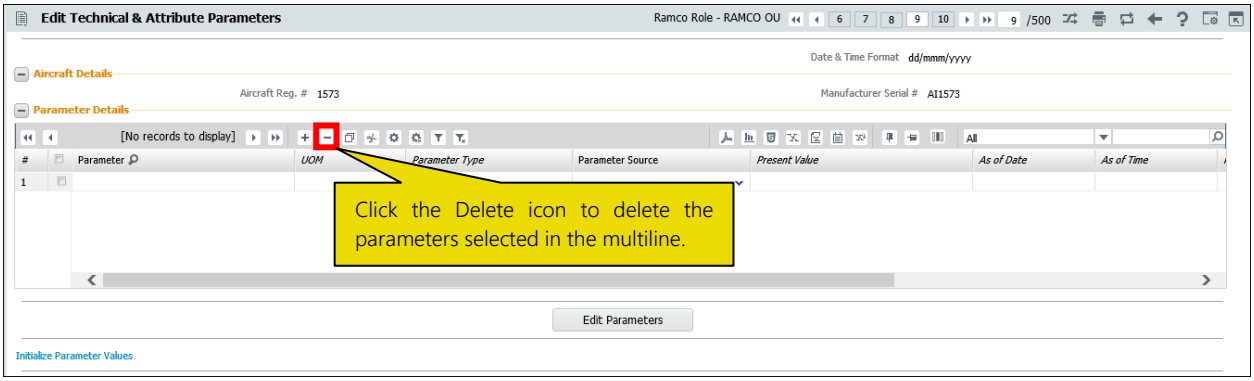


Exhibit 2: The **Edit Consumption and Range Parameters** screen in the **Edit Aircraft Record** activity

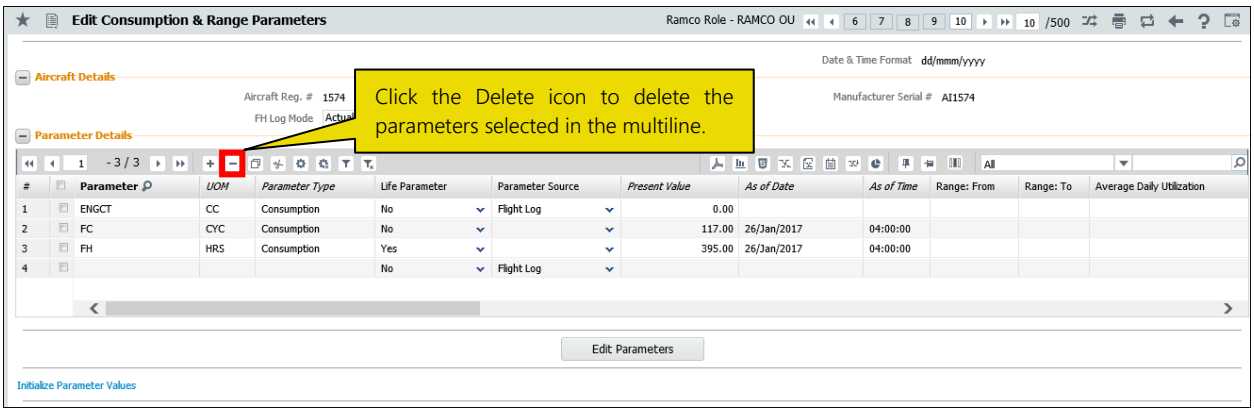


Exhibit 3: The **Edit Technical and Attribute Parameters** screen in the **Edit Component Record** activity

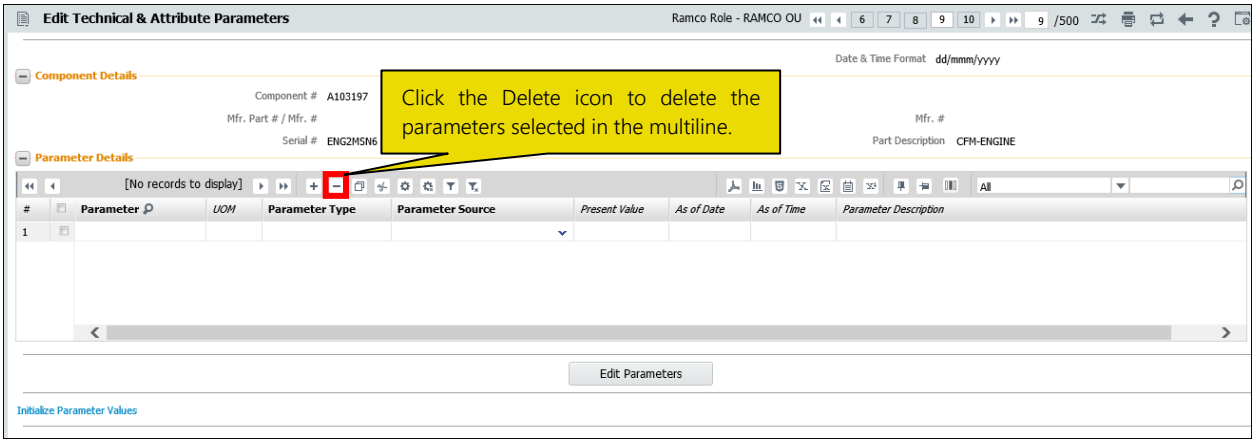
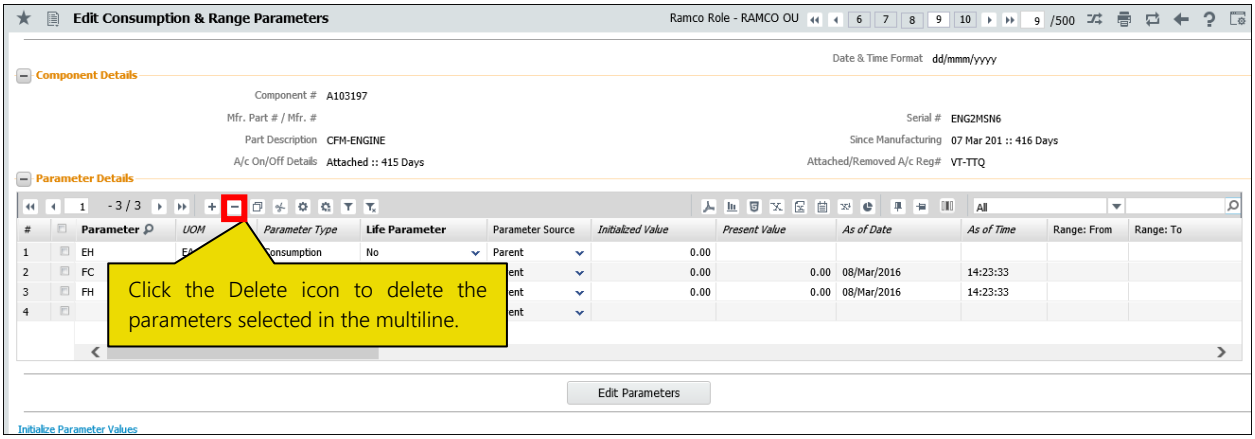


Exhibit 4: The **Edit Consumption and Range Parameters** screen in the **Edit Component Record** activity



Ability to update Parameter value for aircraft with Update Option as "New"

AHBG-11983

Background

Presently, though, update of parameter values for components in Update Mode as New is supported by the system, the same facility is not available for aircraft. In real time, there are business scenarios where the users do not keep track of the utilization of the aircraft in 'Delta' Update Mode or based on daily utilization basis. Instead they track the actual current value of the parameter against each aircraft. Since the system does not allow users to update the parameter values of aircraft in 'New' Update Mode, they have to manually calculate the delta/ increase in the parameter value & update the same in the system

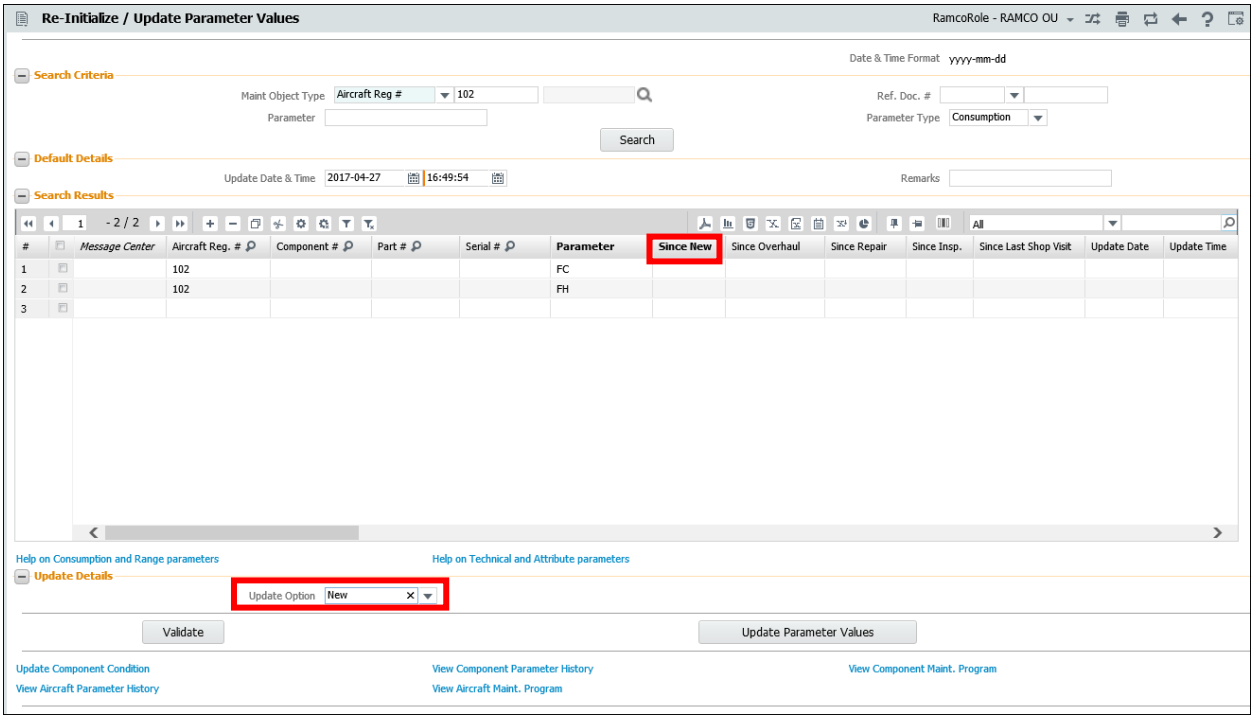
It would enhance usability, if the update of parameter values for aircraft is allowed under Update Mode as 'New' instead of Update Mode 'Delta' alone.

Change Details

As a result of the enhancement, users can now update parameter value in the Since New field for aircraft under Update Mode 'New' depending on the value of a new process parameter. The process parameter 'Allow New mode update for Aircraft parameter?' under the entity type 'Tech Records Process Ctrl' for the entity 'Manage Technical Records' in the Define Process Entities activity of Common Master allows or disallows the user to update parameter value under Update Mode 'New'.

Process Parameter value	Impact
1/Yes	The user can update the **Since New** field under **Update Mode** 'New'
0/No	The user cannot update the **Since New** field under **Update Mode** 'New'.

Exhibit 1: The Re-Initialize / Update Parameter Values screen



WHAT'S NEW IN AIRCRAFT MAINTENANCE EXECUTION?

Ability to retain Material Requests across Discrepancy Deferrals

Reference: AHBG-15422

Background

Typically in the Aviation maintenance scenario, a mechanic upon identifying a discrepancy in an aircraft records the discrepancy details in the system and then requests for material for resolving the discrepancy. Next, the material planner upon inquiry finds that the required material is not available in stock or in the designated warehouses or even a stock transfer from a nearby warehouse to the material request warehouse is not possible. The material planner then decides to procure the material from a vendor and raises a purchase request - purchase order for the material.

Meanwhile, the mechanic identifies that the reported discrepancy could be deferred on the basis of the MEL / CDL list. The mechanic now modifies the deferral limits so as to defer the discrepancy and releases the aircraft for operations. This results in the closure of the execution document to which the discrepancy was allocated. On closure of the execution document, the system automatically short closes the material request raised against the document. Since the material request is short closed, the goods received against purchase order raised for the material request could be allocated to other Open material requests. Later, when the same discrepancy is planned for execution in another package, the mechanic is forced to defer the discrepancy / ground the aircraft since the material is not available. This kind of scenario results in repeated material requests creation and delayed maintenance.

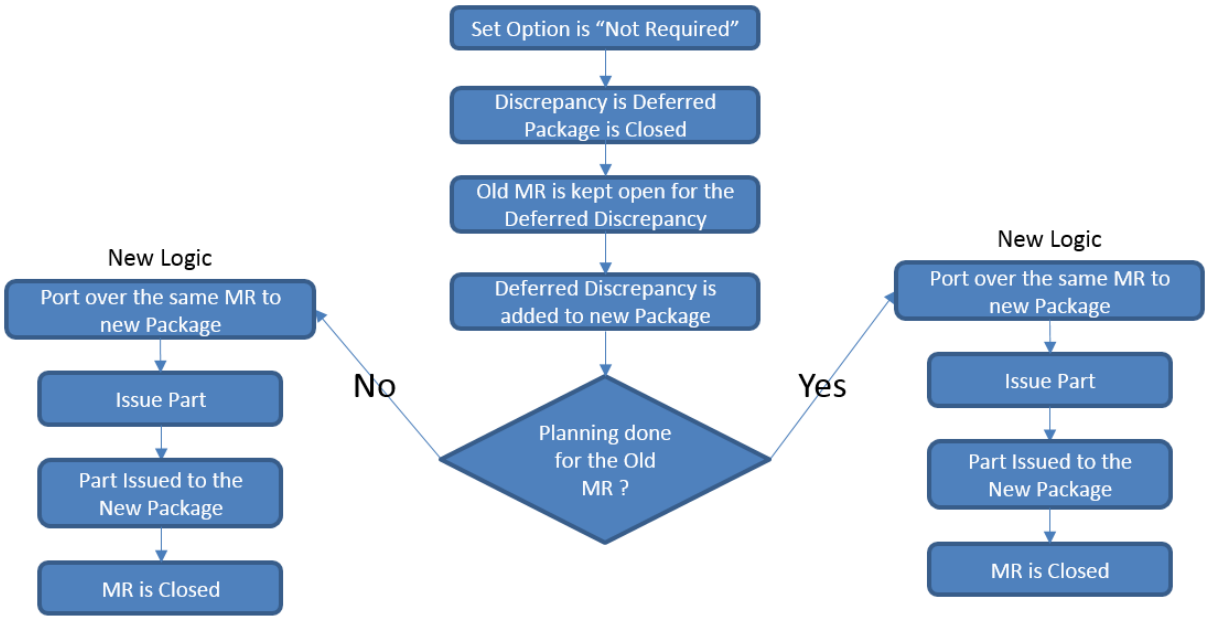
Change Details

As part of the enhancement, the system will now retain the same MR # (or at least have the Old MR # reference in a New MR, if the Old MR cannot be retained) across multiple discrepancy deferrals. This will ensure that any planning done against the MR # is retained. However, this enhancement will be dependent on the new process parameter "*Auto-Short Close Open Material Requests of Deferred Discrepancies on Package Closure?*" added under the Entity Type 'Package Type' and entity '--All Packages--' in the Define Process Entities page possessing the following behavior.

Process Parameter value	Impact in AME
0 (Not Required)	Authorized material requests are not short closed during package closure (New Behavior)
1 (Required)	Authorized material requests are auto-short closed during package closure (Existing Behavior)

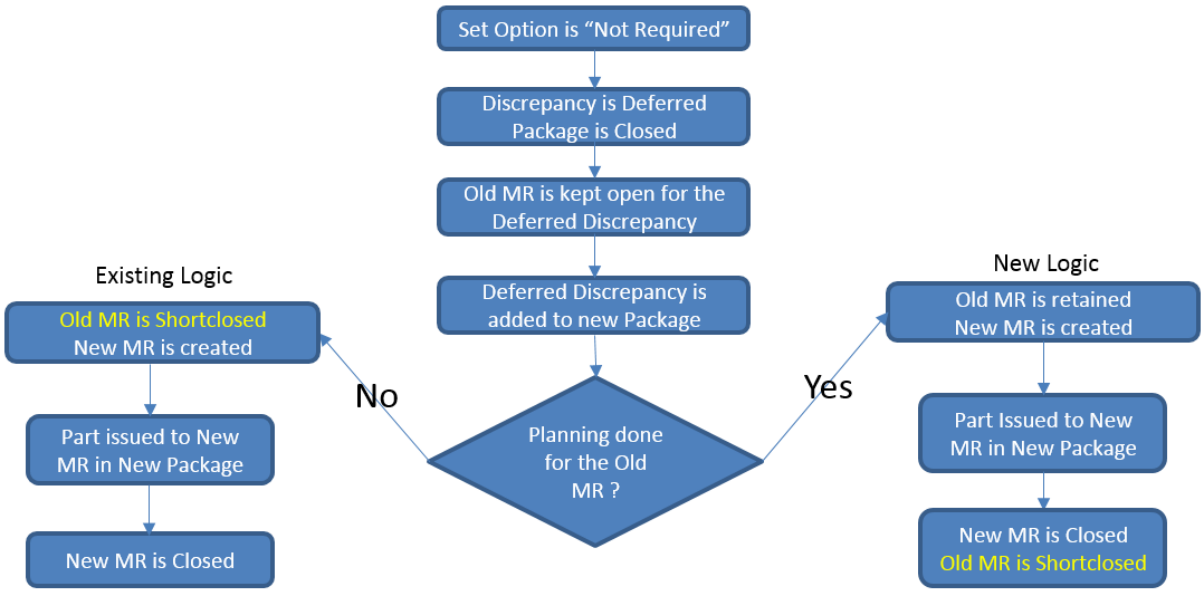
Two different behaviors could occur when the process parameter is set as "0" and a deferred discrepancy with Open material requests are added to the New package from a closed package.

One, the work center of the new package has the same Serviceable Request Warehouse as the work center of the Old package for the part type of the requested part. When the Serviceable Request Warehouse of the work center of the New package is the same one as the Old package, the following process happens:



Regardless of the planning done on the material request, the system will move over the material request to the new package.

Two, the Serviceable Request Warehouse of the work center of the New package is different from that of the Old package, the following process occurs:



If planning is available against the Old material request against the discrepancy added to a New package (whose Serviceable Request Warehouse is different from that of the Old package), the system keeps the Old material request pending and at the same creates a New material request for the same part and quantity and stamps the Old MR # in the **Remarks** field of the New material request (for the reference of the material planner to indicate that the New mterial request doesn't need planning as planning has already been done for the Old material request in the Olg package). When the New material request is issued and closed, the system will automatically shortclose the Old material request.

Note: No issue document can be confirmed against an material request that is open, if the Old package to which it refers to is already closed. On the contrary, If no planning is found against the Old material request associated with the discrepancy that has been added to a New package (whose Servicable Request Warehouse is different), the system will auto-shortclose the Old material request and create a New Material request for the same part and quantity. It will not stamp the Old MR # in the Remarks field of the New MR # (as this reference is not needed as no planning is done against the old material request).

Smart Search on Employee (Reported by field) in Discrepancies tab based on Emp. Certificate

Reference: AHBG-14030

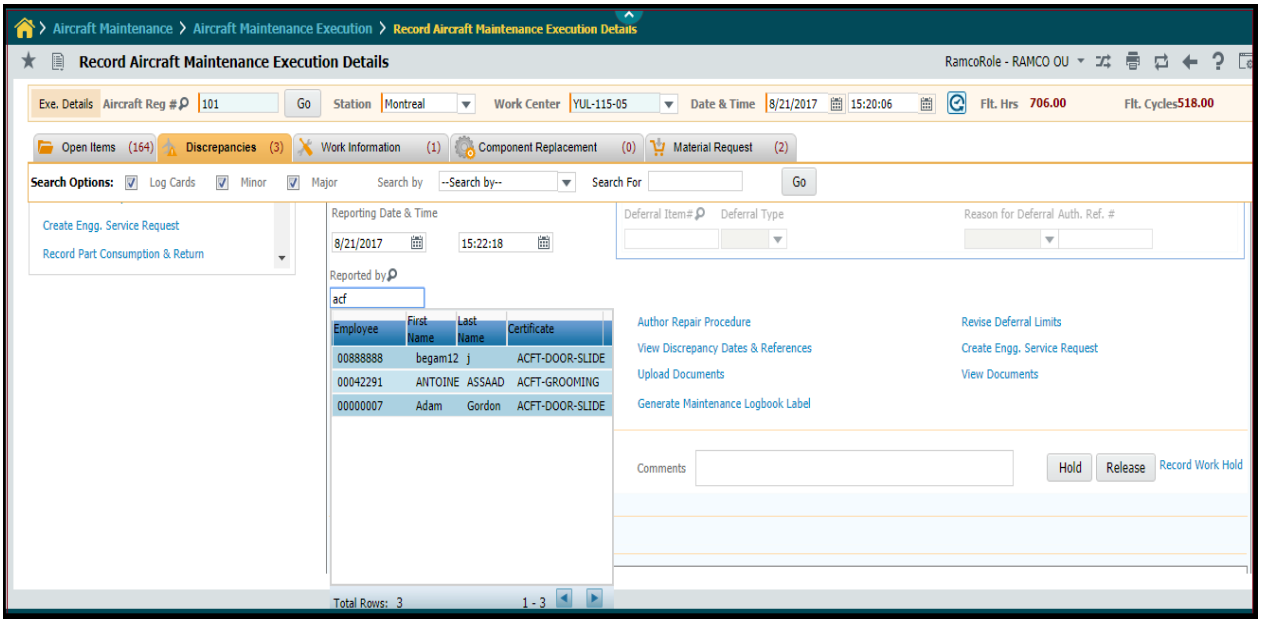
Background

When reporting a discrepancy during package execution in the **Aircraft Maintenance Execution** screen, it is mandatory for the user to provide # / ID / code of the employee reporting the discrepancy. Typically, a mechanic is allotted **Emp. Certificate #** for working on a package. During package execution, the mechanic records the discrepancy details including **Emp. Certificate #** in the log card. However, later on when the same reported discrepancy is entered in the system, the user may not be able to recall the employee # though Employee Certificate # of the mechanic who has reported the discrepancy is known.

Change Details

As part of this enhancement, a smart search has been provided to search and retrieve Employee # based on Employee Certificate # in the **Reported by** field. As the user enters the reported discrepancy in the system, the smart search provides Employee #, Employee Name, Last Name and Certificate # of the mechanic who has reported the discrepancy based on Certificate # in the **Reported by** field in the **Discrepancies** tab of the **Record Aircraft Maintenance Execution** Details screen. Now, the user can merely select the employee code of the mechanic from the retrieved results to record the discrepancy.

Exhibit 1: The Record AME Details screen



Ability to Update COM Date as Compliance Date

Reference: AHBG-14231

Background

On completion of maintenance on an aircraft, Flight Test CoM and Regular CoM are issued before the aircraft actually leaves the hanger. Currently, completion date of individual tasks is considered as their compliance date and computation of NSD for tasks happens based on the compliance date. In many cases, the aircraft could still be stationed in the hangar awaiting the certificate of maintenance leading to time lag between the compliance date for task and the issue date of the CoM for the aircraft. In such cases, the NSD and NSV computed based on task compliance date could display misleading figures as the clock starts ticking even before the aircraft leaves the hangar or starts operations.

Change Details

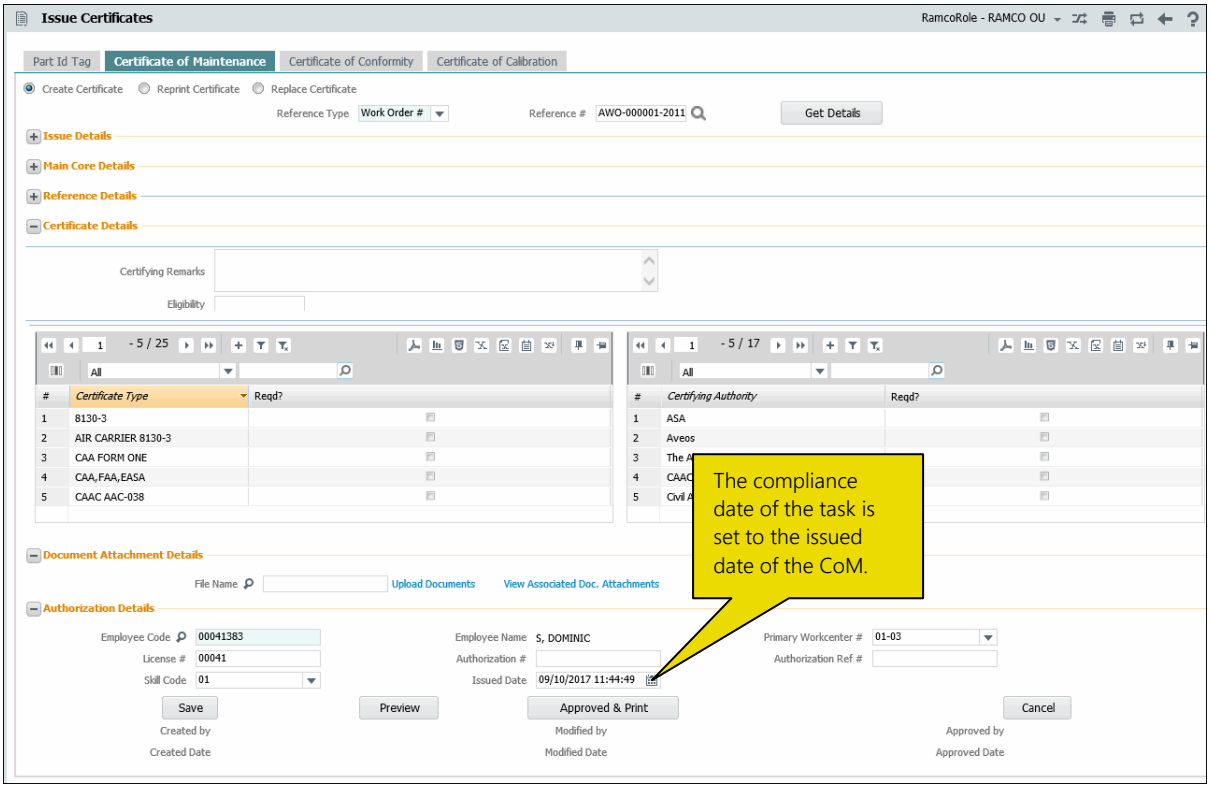
The process parameter 'Auto-update Compliance Date of Completed/Closed Tasks in Package based on CoM Issued Date?' under the entity type 'Package Type' and entity 'All User Defined Entities' along with 'Log Card' in the Define Process Parameters screen of Common Master will now determine whether Compliance Date is updated as the CoM Issue Date for a task in a package on authorization of CoM in the **Issue Certificates p**age.

Auto-update Compliance Date of Completed/Closed Tasks in Package based on CoM Issued Date: Value	Impact on Compliance Date of task
0 / Not Required	On the click of the Authorize CoM pushbutton for CoM Type 'Regular' or 'Test Flight', the compliance date will be the date of completion of the task. The compliance date of all the tasks in the package is set to the issued date of the CoM and the new NSD is computed on the basis of the issued date of CoM. The parameter value as on the issued date will be taken into consideration for computation of NSV.
1 / Required	On the click of the Authorize CoM pushbutton for CoM Type 'Regular' or 'Test Flight', the system updates the Compliance Date of all Completed & Closed tasks with the CoM Issued Date & Time

Note: The system sets the compliance date to the CoM issue date under the following conditions only:

- *Applicable to Tasks only (not discrepancies)*
- *CoM Type must be 'Test Flight' and 'Regular'*
- *Status of Tasks must be 'Completed' or 'Closed'*

Exhibit 1: The Issue Certificate of Maintenance tab of Issues Certificates page



WHAT'S NEW IN THE AIRCRAFT EXECUTION HUB?

Ability to Default the last worked Exe. Doc. # in Work Reporting Hub and Parts Hub

Reference: AHBG-11852

Background

Aircraft Mechanics work on a package for a considerable time before it is finally completed. During this duration, they may have to navigate to other screens in the application or may perhaps visit/revisit the AME Hub screens many times in a day or for in several days. Repeated search/entry of the execution document can be avoided, if the execution document that the user was last working on the previous visit to the screen is defaulted in the pertinent field.

Change Details

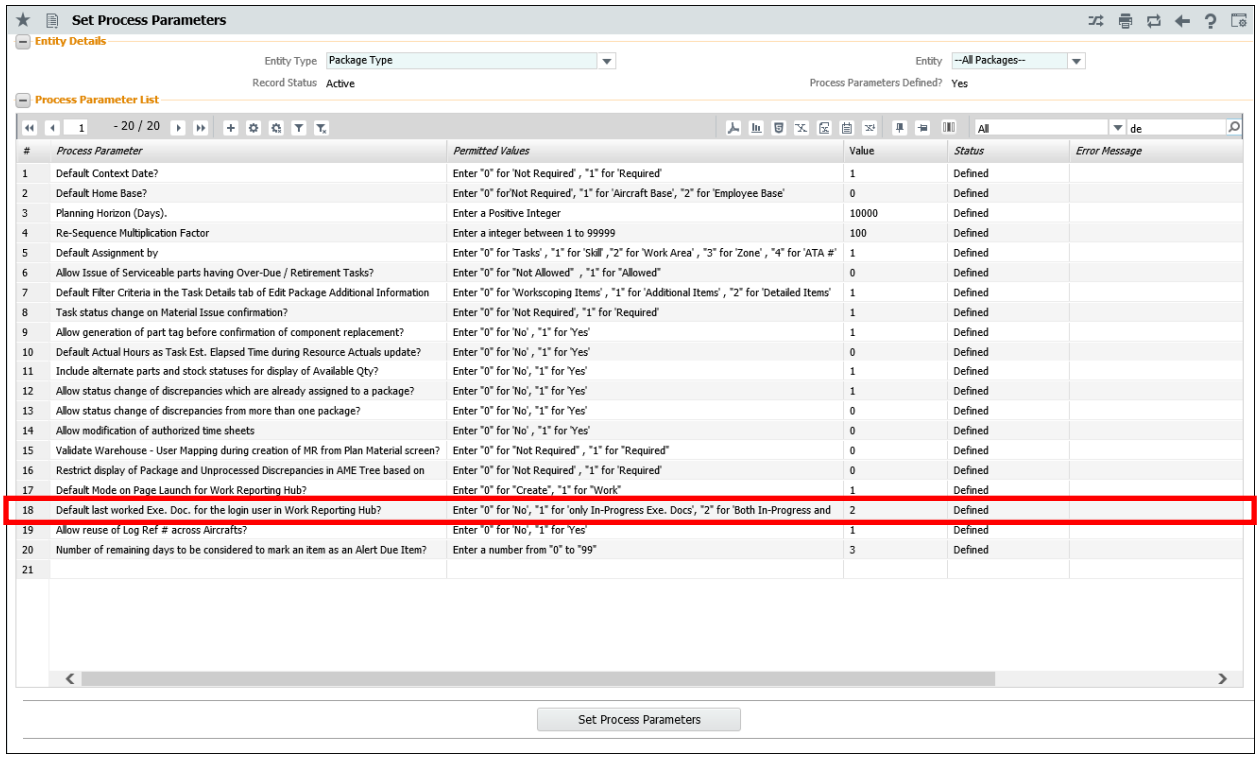
On launch of the **Work Reporting Hub** screen, the **Aircraft Maint. Exe. #** field will display the AME Ref. # that the login user had last worked on, during the last visit to the AME Hub screens (Work Reporting Hub/ Parts Hub).

Similarly, on launch of **Parts Hub,** the **Exe. Doc. #** field under **Search** section will now display the execution document # that the login user had last worked on, during his/her visit to either of the AME Hub screens.

However, a new process parameter "**Default last worked Exe. Doc. for the login user in Work Reporting Hub?"** added under the entity type 'Package Type' and entity '--All Packages—" in the **Define Process Entities** activity of **Common Master**, governs the default display of the execution document # in both these screens. The next table illustrates the new provision.

Process Parameter value	Impact in Work Reporting Hub / Parts Hub
0	The AME Ref. # field remains blank on launch of the screen.
1	The AME Ref. # that the login user had last worked on during his previous visit to the screen is displayed in the **Aircraft Maint. Exe. #/Exe.Doc. #** field, if the current status of the document is "In-Progress".
2	The AME Ref. # that the login user had last worked on during his previous visit to the screen is displayed in the **Aircraft Maint. Exe. #/Exe.Doc. #** field, if the current status of the document is either "In-Progress" or "Completed".

Exhibit 1: The **Set Process Parameters** screen (under the **Define Process Entities** activity in Common Master component)



#	Process Parameter	Permitted Values	Value	Status	Error Message
1	Default Context Date?	Enter "0" for 'Not Required' , "1" for 'Required'	1	Defined	
2	Default Home Base?	Enter "0" for'Not Required', "1" for 'Aircraft Base', "2" for 'Employee Base'	0	Defined	
3	Planning Horizon (Days).	Enter a Positive Integer	10000	Defined	
4	Re-Sequence Multiplication Factor	Enter a integer between 1 to 99999	100	Defined	
5	Default Assignment by	Enter "0" for 'Tasks' , "1" for 'Skill' ,"2" for 'Work Area' , "3" for 'Zone' , "4" for 'ATA #'	1	Defined	
6	Allow Issue of Serviceable parts having Over-Due / Retirement Tasks?	Enter "0" for "Not Allowed" , "1" for "Allowed"	0	Defined	
7	Default Filter Criteria in the Task Details tab of Edit Package Additional Information	Enter "0" for 'Workscoping Items' , "1" for 'Additional Items' , "2" for 'Detailed Items'	1	Defined	
8	Task status change on Material Issue confirmation?	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined	
9	Allow generation of part tag before confirmation of component replacement?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
10	Default Actual Hours as Task Est. Elapsed Time during Resource Actuals update?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
11	Include alternate parts and stock statuses for display of Available Qty?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
12	Allow status change of discrepancies which are already assigned to a package?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
13	Allow status change of discrepancies from more than one package?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
14	Allow modification of authorized time sheets	Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
15	Validate Warehouse - User Mapping during creation of MR from Plan Material screen?	Enter "0" for "Not Required" , "1" for "Required"	0	Defined	
16	Restrict display of Package and Unprocessed Discrepancies in AME Tree based on	Enter "0" for 'Not Required' , "1" for 'Required'	0	Defined	
17	Default Mode on Page Launch for Work Reporting Hub?	Enter "0" for "Create", "1" for "Work"	1	Defined	
18	Default last worked Exe. Doc. for the login user in Work Reporting Hub?	Enter "0" for 'No', "1" for 'only In-Progress Exe. Docs', "2" for 'Both In-Progress and	2	Defined	
19	Allow reuse of Log Ref # across Aircrafts?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
20	Number of remaining days to be considered to mark an item as an Alert Due Item?	Enter a number from "0" to "99"	3	Defined	
21					

Exhibit 2: The **Work Reporting Hub** screen

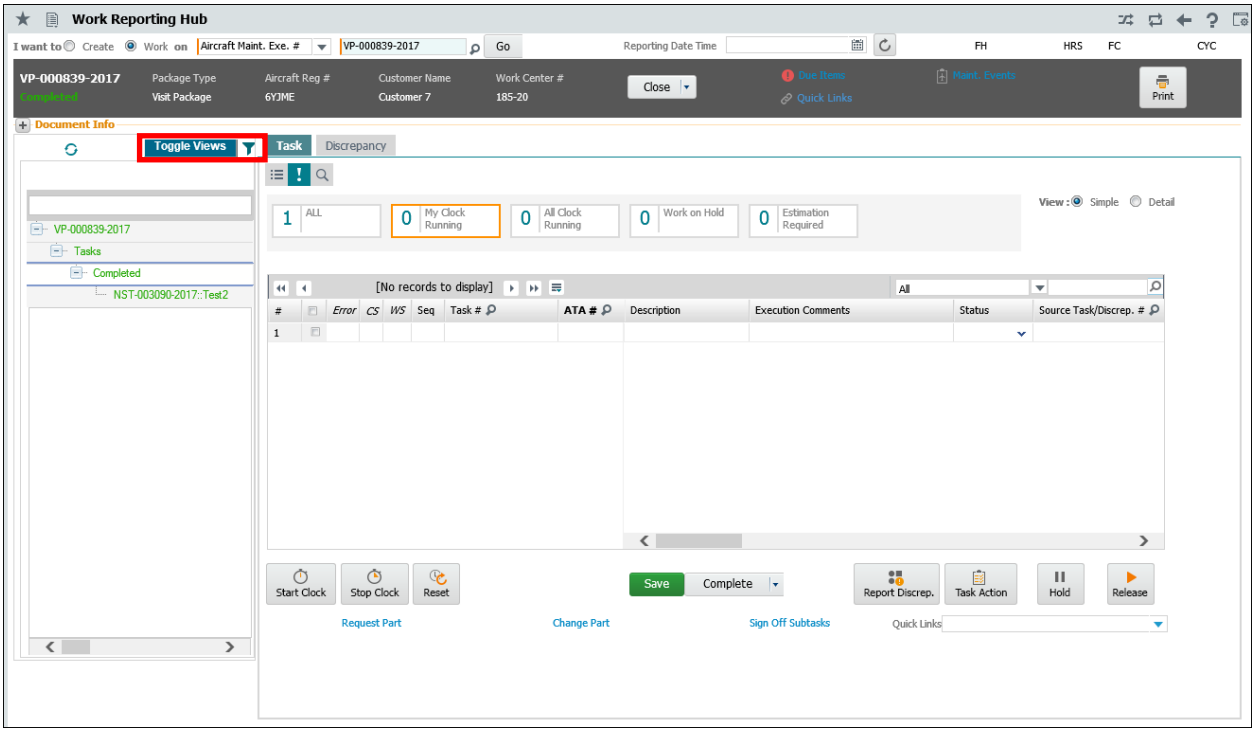
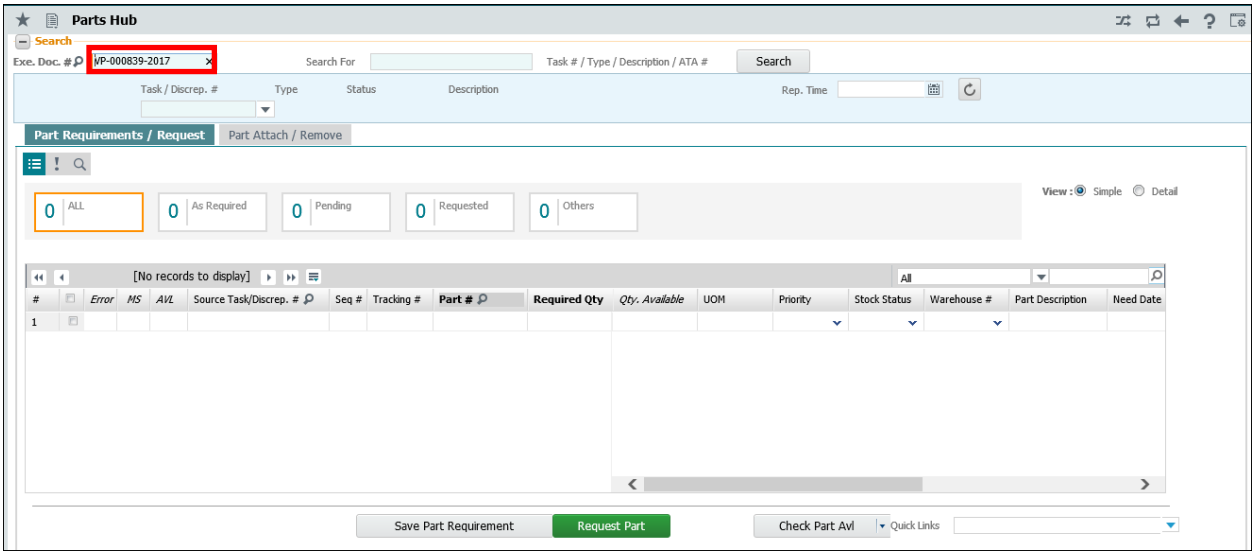


Exhibit 3: The **Parts Hub** screen



Addition of 'My Clock Running' feature under 'Exceptions' filter

Reference: AHBG-13443

Background

When a user wants to view his tasks/discrepancies having running clocks, he clicks on the 'Clock Running' feature under the 'Exceptions' filter and manually scans through the records in order to find his tasks/discrepancies.

This enhancement enables the user to view only his tasks/discrepancies having running clocks, while retaining the existing capability. Additionally, a process parameter has been provided in order to view the tasks/discrepancies with running clocks on entering the package in the **Work Reporting Hub** screen.

Change Details

A new feature 'My Clock Running' has been added under 'Exceptions' filter and the existing 'Clock Running' feature is renamed to 'All Clock Running'. The existing 'Material not available' feature is hidden now.

- On click of 'My Clock Running', all tasks/discrepancies for which clocks are running for the login user are alone displayed in the multiline.
- On click of 'All Clock Running', all tasks/discrepancies for which clocks are running for all the login users working on the package are displayed in the multiline.

A new process parameter 'Show only Clocked-on items by default on launch of Work Reporting Hub?' is added, in the Define Process Entities page under the entity type 'Package Type' and entity for all User defined packages other than 'All Packages'. This option can be set as '0', '1', or '2' and helps the user in viewing his tasks/discrepancies having running clocks straightaway, on entering the package after screen launch.

- If the set option is '0', on entering the package in the **Work Reporting Hub** after screen launch, the system defaults the 'All' tile under 'Status' filter and load its contents in the multiline
- If the set option is '1', on entering the package in the **Work Reporting Hub** after screen launch, the system defaults the 'My Clock Running' tile under 'Exceptions' filter and load its contents in the multiline

Exhibit 1:

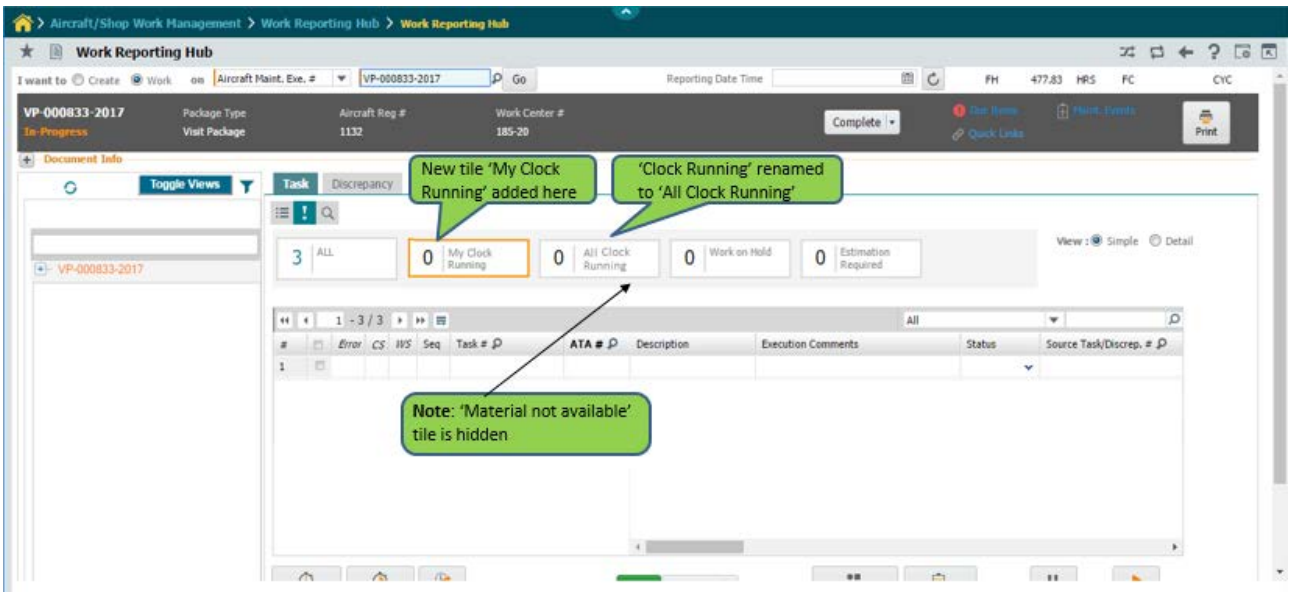


Exhibit 2:

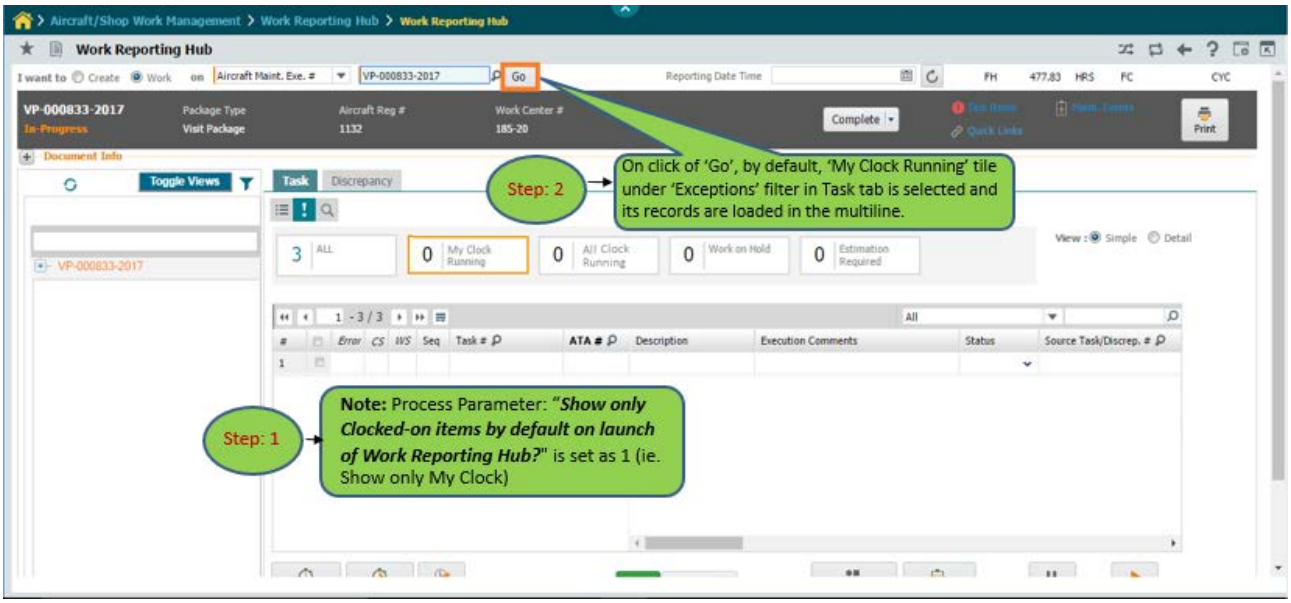
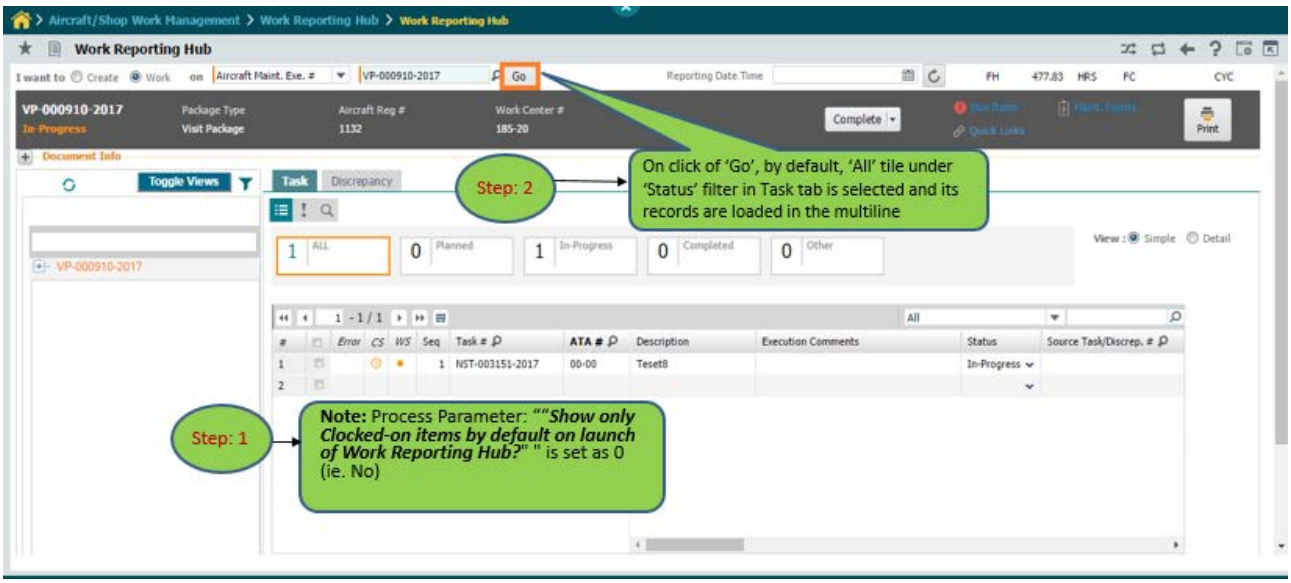


Exhibit 3:


Aircraft/Shop Work Management > Work Reporting Hub > Work Reporting Hub
Work Reporting Hub
Go
VP-000910-2017
Package Type
Visit Package
Aircraft Reg #
1132
Work Center #
185-20
Complete
Print
Toggle Views
Task
Discrepancy
Step: 2
On click of 'Go', by default, 'All' tile under 'Status' filter in Task tab is selected and its records are loaded in the multiline
Step: 1
Note: Process Parameter: ""Show only Clocked-on items by default on launch of Work Reporting Hub?" " is set as 0 (ie. No)

Sign Off details Default in Task and Discrepancy popup windows

Reference: AHBG-11503

Background

When a user wants to sign off a task/discrepancy, the user is required to manually enter the employee code and then sign off, which involves data entry effort. It would be convenient and quicker for users, if the Mechanic or the Inspector or both these fields are populated automatically on selection of task, discrepancy or corrective action by users.

Change Details

A new process parameter 'Default Sign Off Details in the Task/Discrepancy Action popup in the Work Reporting Hub?' is added, in the Define Process Entities page under the entity type 'Package Type' for entity 'All User defined' packages to conditionally default the employee code of the login user in the Mechanic or the Inspector or both these fields as illustrated below.

Process Parameter value	Impact in the Task Actions popup
1/Yes	The system defaults the employee code of the login User in either the Mechanic or the Inspector controls (or both) on launch of the popup in the following way: • The Sign Off requirement of the discrepancy is Pending Mechanic/Inspector/Both. **Example**: The Sign Off Requirement of a Task is 'Pending Mechanic'. The Login User opens the Task Action pop up. The employee code of the user will be defaulted in Mechanic control in the pop up. • The Resource Group of the login user is applicable for task sign off **Example:** The Sign Off Requirement of a Task is 'Pending Inspector'. The Login User belongs to Mechanic Resource group. The user opens the Task Action pop up. The employee code will not be defaulted in Inspector control in the pop up. • The login user has necessary skill for task sign off **Example:** The Sign Off Requirement of a Task is 'Pending Mech&Insp'. The Resource Group of the Login User is both Mechanic and Inspector with Skill Code '01' for 'Mechanic' and '02' for 'Inspector'. The Skill required to sign off the Task as Mechanic is '01' and as Inspector is '03'. The user opens the Task Action pop up. The employee code will be defaulted only in Mechanic control in the pop up.
0/No	The Mechanic or the Inspector controls (or both) do not display default value, if the task has not been signed off.

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Exhibit 1: Work Reporting Hub

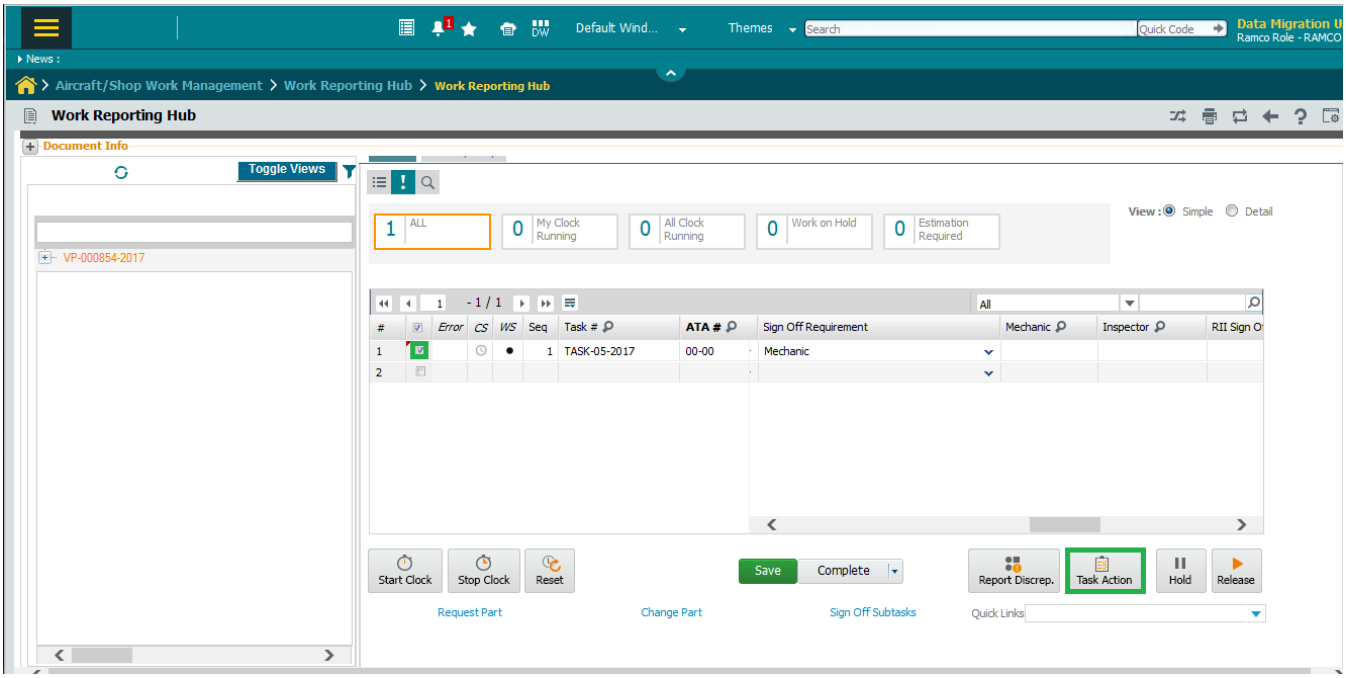
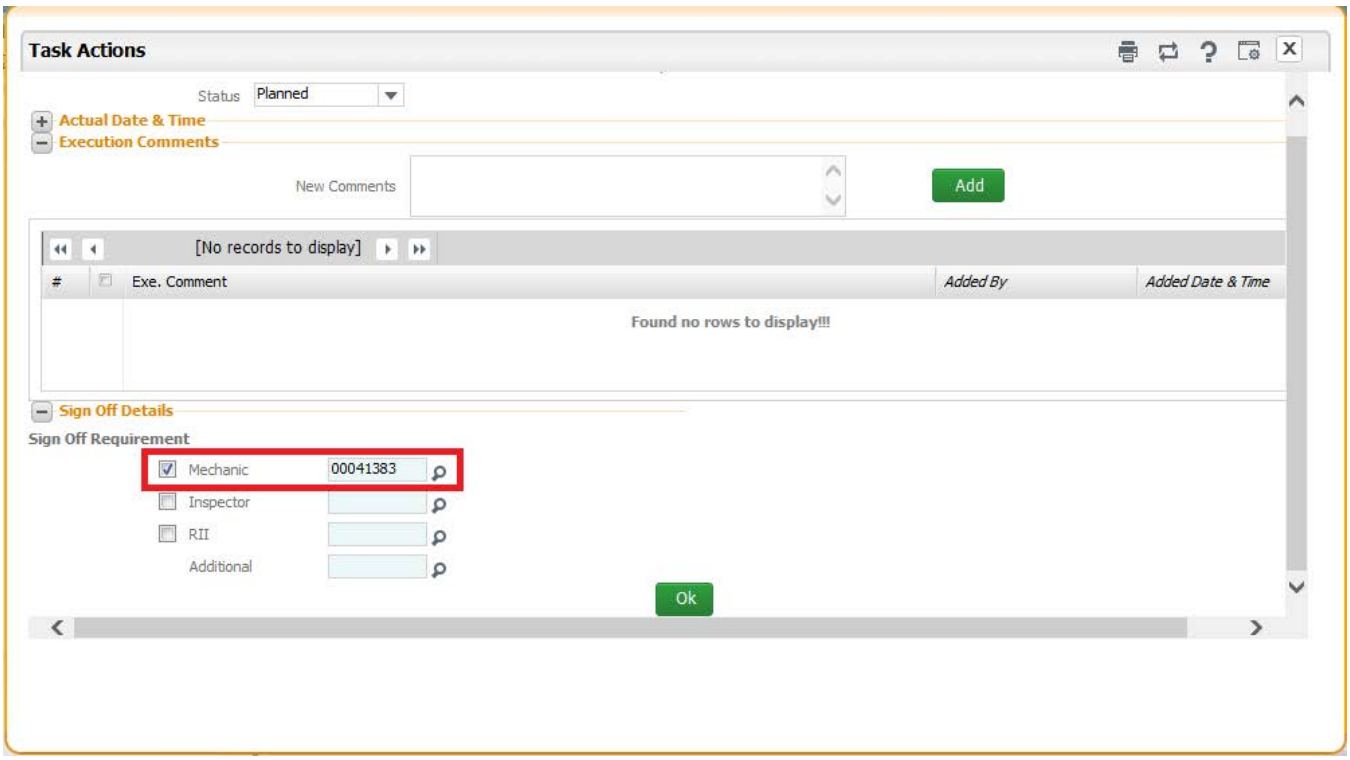


Exhibit 2: The **Task Actions** popup



Process Parameter value	Impact in the Discrepancy Actions popup on launch (or when the user clicks the corrective action from left pane in the Discrepancy Action pop up)
1/Yes	The system defaults the employee code of the login User in either the Mechanic or the Inspector controls (or both) on launch of the popup under the below conditions: • Sign Off requirement of the discrepancy is Pending Mechanic/Inspector/Both. • Resource Group of the login user is applicable for signing off the discrepancy.

Exhibit 3: Work Reporting Hub

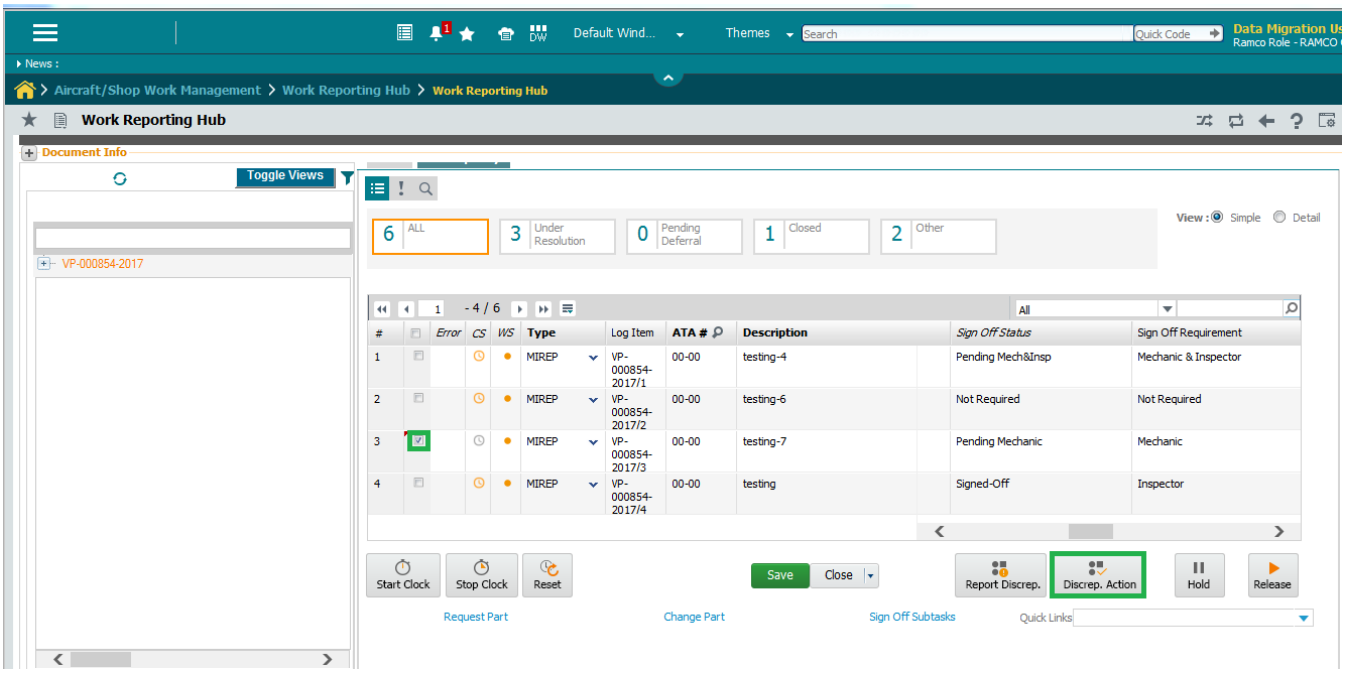


Exhibit 4: The Discrepancy Actions popup

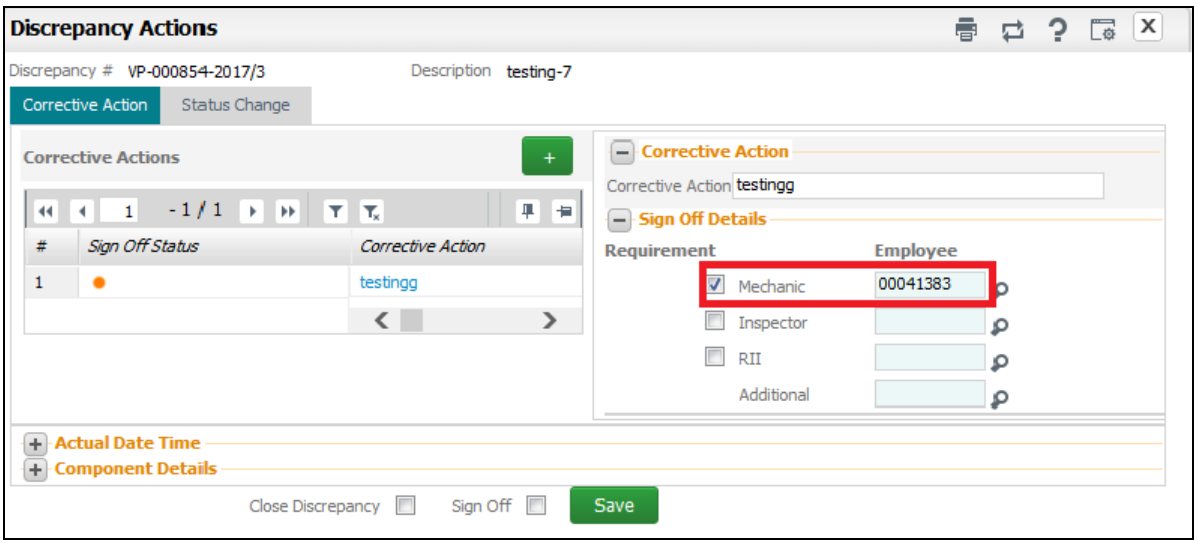
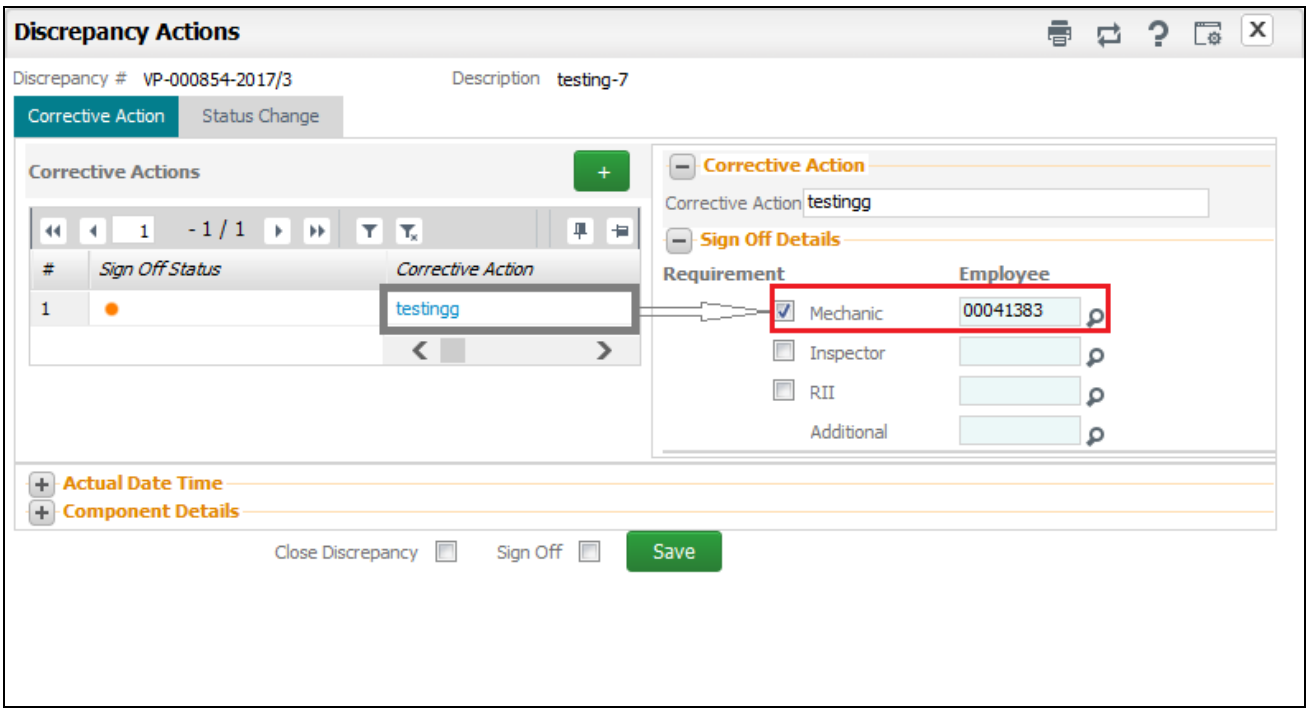


Exhibit 5: On click of corrective action from left pane of Discrepancy Actions pop up:



Ability to Auto-Stop the Clock during Completion/Closure of Task/Discrepancy

Reference: AHBG-11801

Background

When a user tries to complete a task for which the clock is running, the system validates and asks the user to first stop the clock before completing the task. This is a valid check as it will prevent the current user from completing the task, if another user is still working on it. However, this validation happens only if the current user has clocked on the task and trying to complete.

As part of this enhancement, if the user tries to complete a task for which the clock is already running, and the clock is for the login user only, the system will automatically stop the clock and complete the task in one-go instead of the validation.

Change Details

Two new process parameters are added in the **Define Process Entities** page as part of this change. 'Automatically stop login user's running clock during Completion/Closure/Pre-Closure of Task?' and 'Automatically stop login user's running clock during Closure/Deferral/Transfer of Discrepancy?' are available in the **Define Process Entities** page under the entity type 'Package Type' for and the entity All User defined Packages. This option can be set as 'Yes' or 'No'.

If the process parameter "Automatically stop login user's running clock during Completion/Closure/Pre-Closure of Task?" under the entity type 'Package Type' and entity 'Log card' and all other user defined Package Types except '--All Packages---" is Yes in the **Define Process Parameters** activity of **Common Master**, the system automatically stops the clock started by the login user on completion, closure or pre-closure of the task under the following conditions.

- The Clock has been started by the login user
  and
- No other clock is running by any another user

Example 1:

1. User starts the Clock for a task
2. Tries to complete the task
3. Clock will get stopped automatically and the task goes to 'Completed' status

Example 2:

1. Two Users start Clock on a Task.
2. The first user comes back and tries to complete the Task.
3. The system prompts the user to end the clock to prior to the Completion / Closure of Task

Similar to the above, if the process parameter "Automatically stop login user's running clock during Closure/Deferral/Transfer of Discrepancy?" under the entity type 'Package Type' and entity 'Log card' and the entity all other user defined Package Types except '--All Packages---" is 'Yes'' in the Define Process Parameters activity of Common Master, the system automatically stops the clock started by the login user on closure, deferral or transfer of the discrepancy under the following conditions.

- The Clock has been started by the login user,

and

- No other clock is running by any another user.

Ability to default tasks or discrepancies to facilitate part requests

Reference: AHBG-14390

Background

The Parts Hub screen independently retrieves the existing material requests for all the tasks / discrepancies in the AME Ref. #. Alternatively, users could navigate to the Parts Hub to create part requests for tasks / discrepancies selected in the Work Reporting Hub screen. However, this meant users had to create material requests for each selected task separately. This was time consuming and since creating material request for parts is a repeated nevertheless crucial action, an enhancement to automatically copy the data from tasks / discrepancy for part requests was identified.

Change Details

The retrieval of part requests for tasks / discrepancies will now be based on the value of the process parameter "Default fetch of selected tasks/discrepancies from Work Reporting Hub in Parts Hub?" under entity type 'Package Type' and entity 'All Packages' in the "Define Process Parameters" activity of Common Master.

Further, this enhancement creates blank requests containing the necessary task / discrepancy information. To this, the user can add specific part details, such as Part # and Ordered Qty to complete the request in the shortest time.

The below table illustrates the part request retrieval mechanism in the multiline based on the process parameter value.

Process parameter value	Multiline impact
0 / Not Required	The multiline displays all existing part requests of tasks / discrepancies selected in the Work Reporting Hub.
1 / Required without Existing Records	The multiline displays only blank requests for tasks / discrepancies.
2 / Required with Existing Records	The multiline retrieves all available part requests for tasks / discrepancies selected in the Work Reporting Hub followed by blank part requests.

Exhibit 1: The **Work Reporting Hub** screen

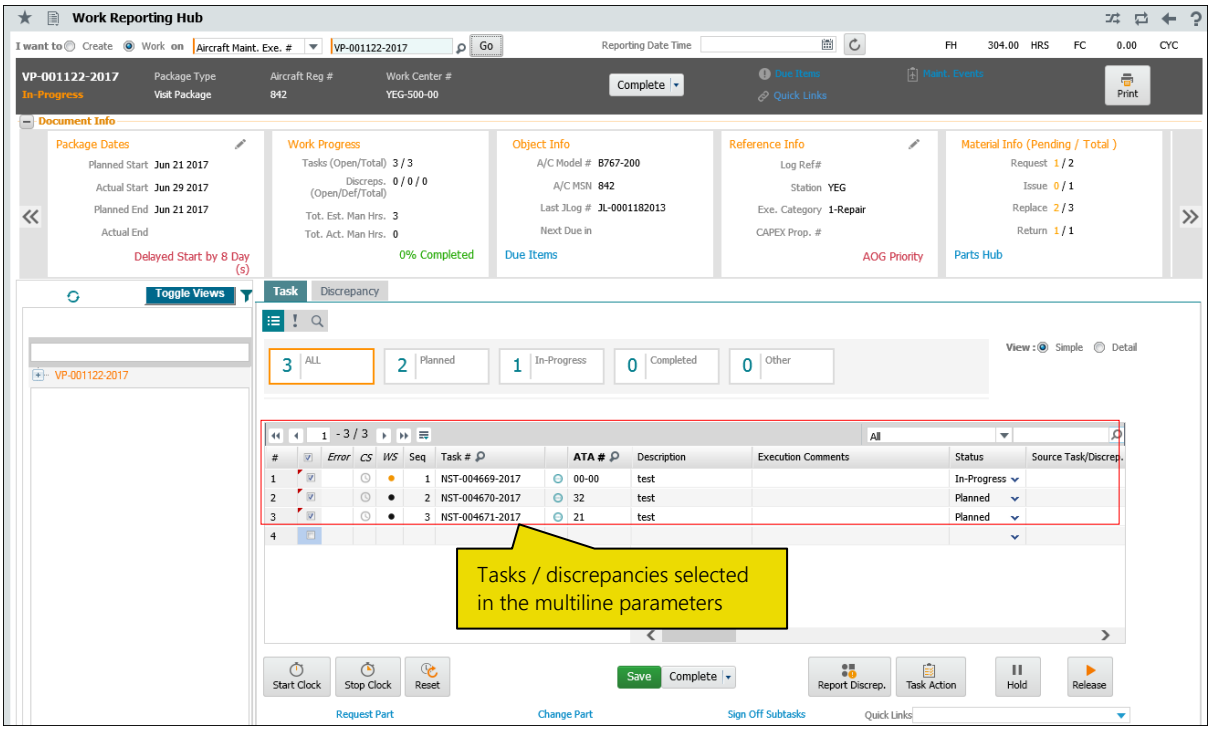


Exhibit 2: The **Parts Hub** screen

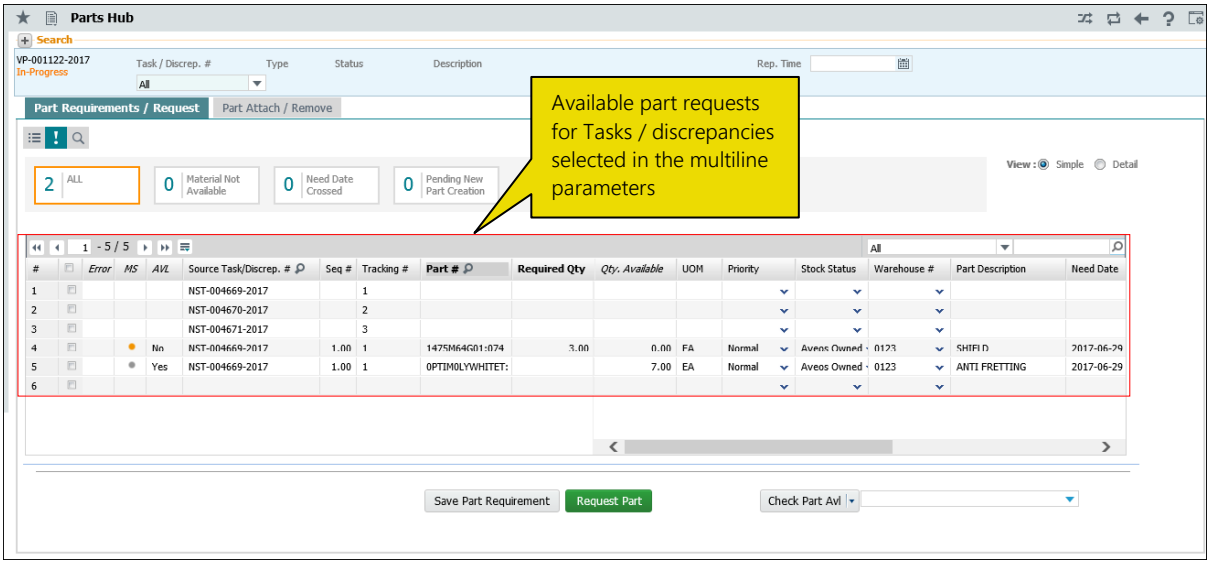
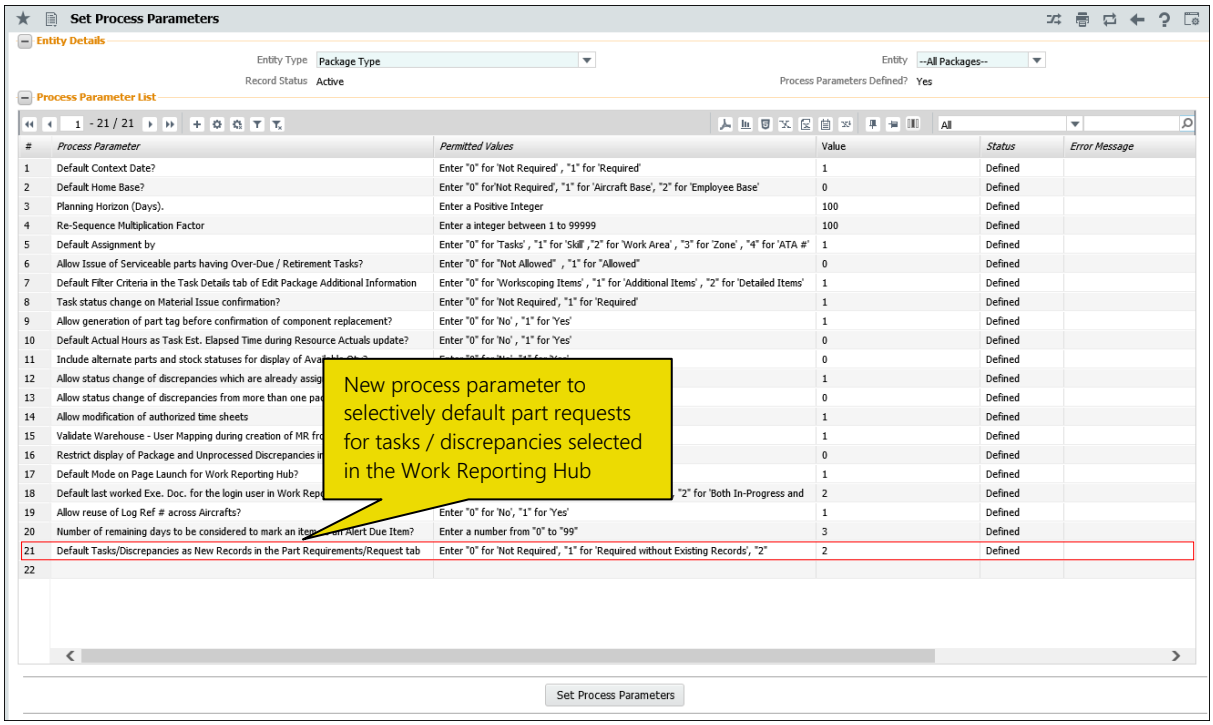


Exhibit 3: The **Set Process Parameters** screen



Ability to perform bulk Component Replacements in Parts Hub

Reference: AHBG-7833

Background

In aircraft hangars, typically mechanics/engineers often perform multiple component replacements pertaining to tasks/discrepancy with reference to an execution document on an aircraft and, hence they would require a screen in which they can record these bulk transactions.

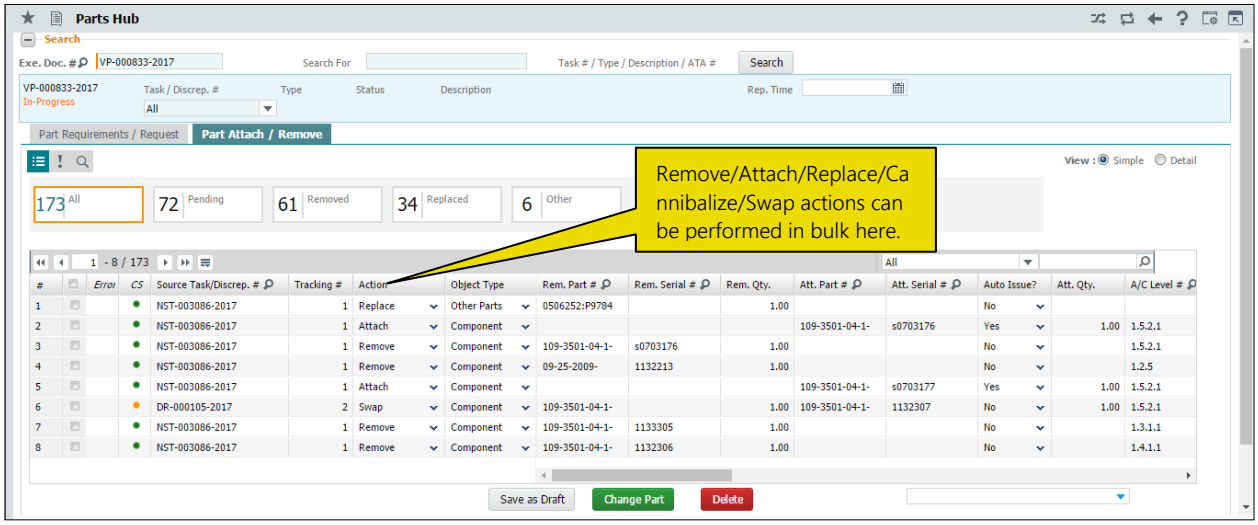
Change Details

Users can perform Remove/Attach/Replace/Swap/Cannibalize actions involving components on an aircraft with reference to an execution document in the **Part Attach / Remove** tab of the Parts Hub screen.

The **Part Attach / Remove** tab of the **Parts Hub** screen in the Aircraft Execution Hub comprises of a multiline with columns similar to fields available in the **Component Replacement** tab in the Record AME Details screen.
The users can perform multiple component replacements for an execution document in the **Parts** Hub.
Users can opt to work with documents automatically retrieved based on **Status** or **Exception Status** of the component replacements on launch of the screen. Alternatively, users also have the option to specify Search Criteria and then retrieve CR transactions that they want to execute / process.
The **Parts Hub** screen also provides two views of information, namely **Simple** and **Detailed**.
The **Simple** view captures vital and mandatory attributes of component replacements whereas the **Detailed** view can be used to record entire component replacement records.
Users can create and confirm multiple component replacements against an execution document at one go.
Further, this enhancement also allows users to record and save the details of component replacements in **Parts Hub**, if they are in the knowhow of it much before they would want to create component replacements. These saved component replacements can be created at a later point of time. However, this is just a user-convenience procedure and not a pre-requisite for generating component replacements.

- The **Save as Draft** pushbutton enables users to save component replacement records.
- The **Change Part** pushbutton can be used to generate and confirm component replacements with a single click thus saving time.
- The **Delete** pushbutton allows users to delete a CR transaction in 'Fresh' or 'Draft status.

Exhibit 1: The Parts Hub screen



Ability to Display App Version # in Hamburger menu

Reference: AHBG-13312

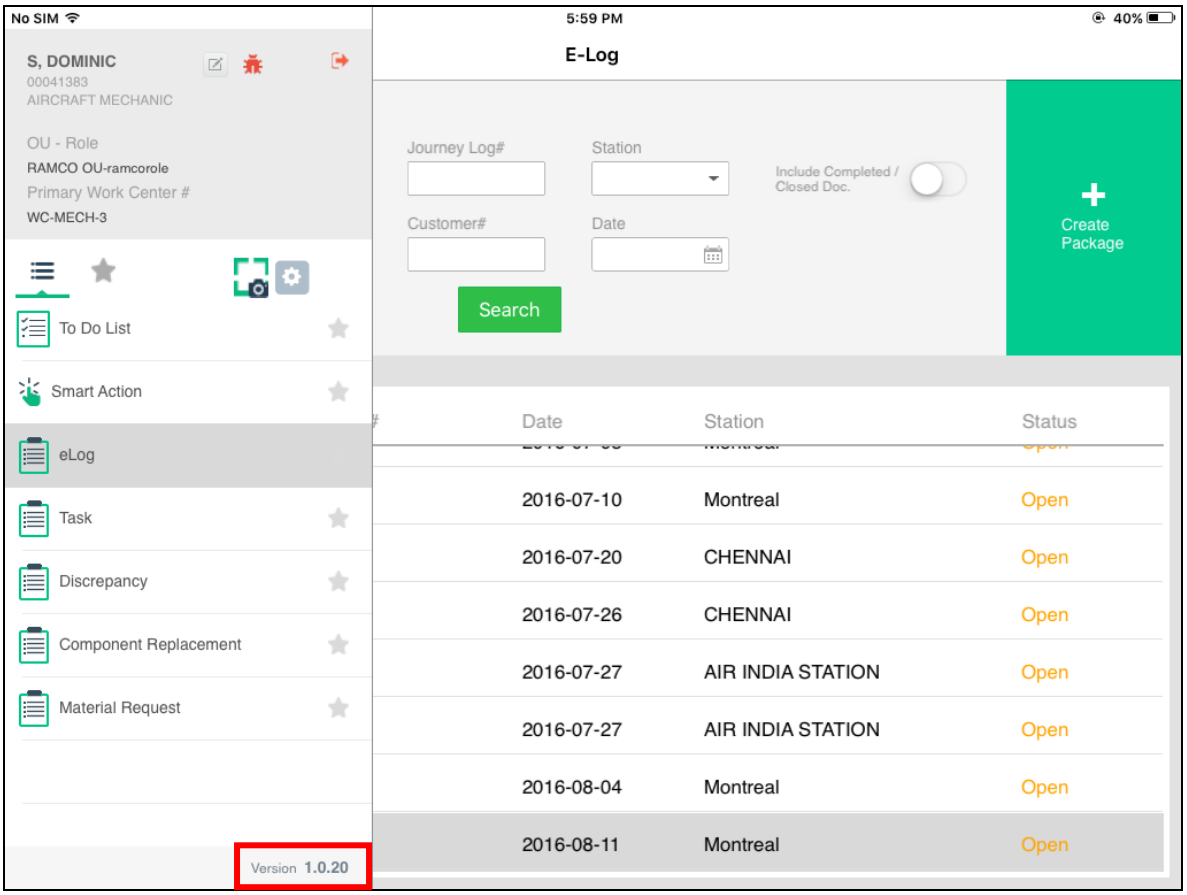
Background

The display of App version # in Mobility Apps can help user ensure that they are working with the latest version. This also helps mechanics in the shop floors to be aware of the application version.

Change Details

The Hamburger menu in MechanicAnywhere App has been enhanced to display App version #.

Exhibit 1: App Version # in Hamburger menu



Note: Users can view the App Version # through Hamburger menu; this will help to ensure that they are in the latest App Version.

What's new in Component Replacement?

Ability to Show TSN, CSN and TSO, CSO in Component Replacement

AHBG-11992

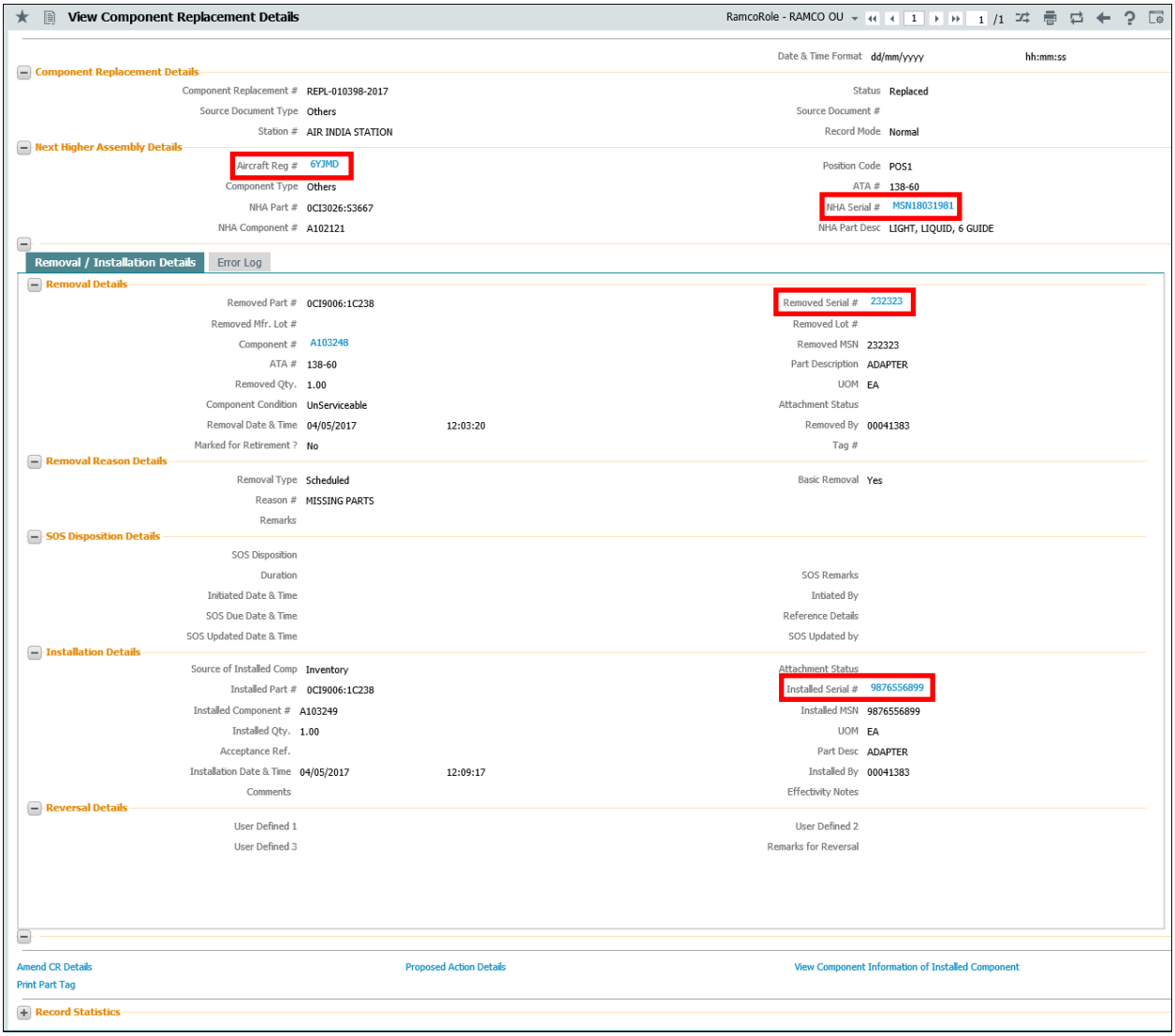
Background

When viewing component replacement records, mechanics may need to know the parameter value for the installed and removed components on removal date & installed date. Currently, users can gather this information only by navigating to the pertinent activity in the Aircraft business component.

Change Details

Data hyperlinks for have been provided in the View Component Replacement screen of the Component Replacement component to enable users to instantly access the View Parameters screen to view the parameter value for the component on removal date & installed date. Additionally, Aircraft and NHA parameter values can also be viewed as they have been armed with hyperlinks leading to the View Parameters screen.

Exhibit 1: The View Component Replacement Details screen



What's new in Shop Work Order?

Ability to track Certificate of Maintenance based on Certificate Type

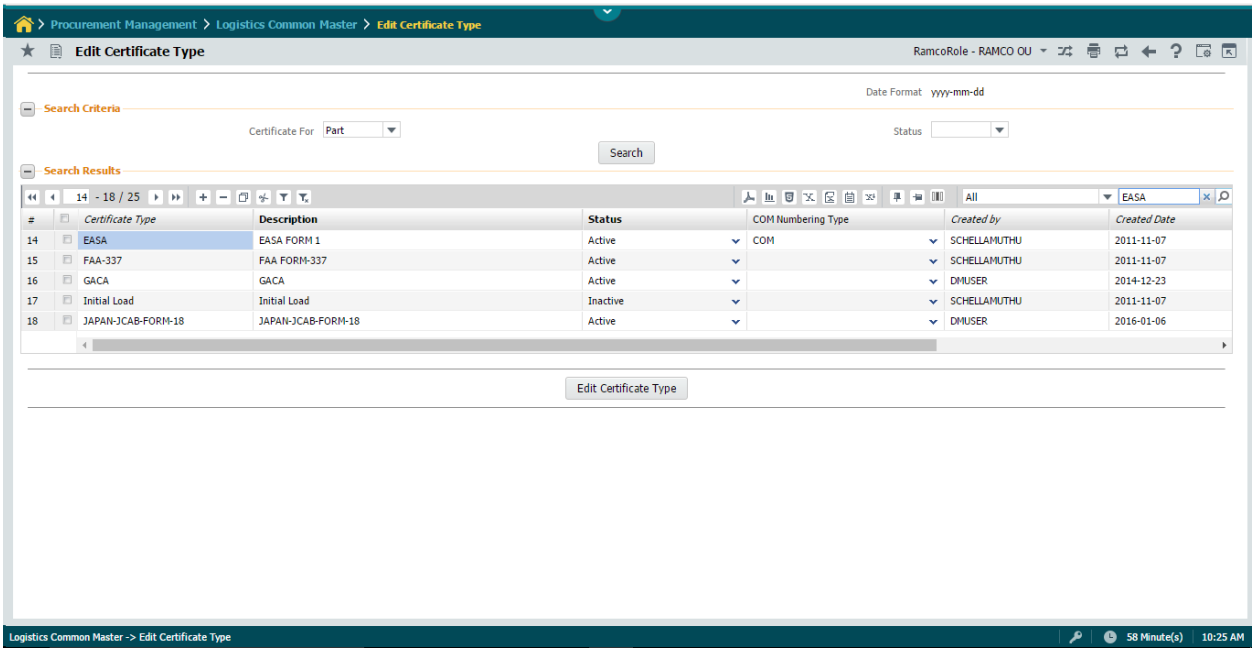
Reference: AHBG-13353

Background

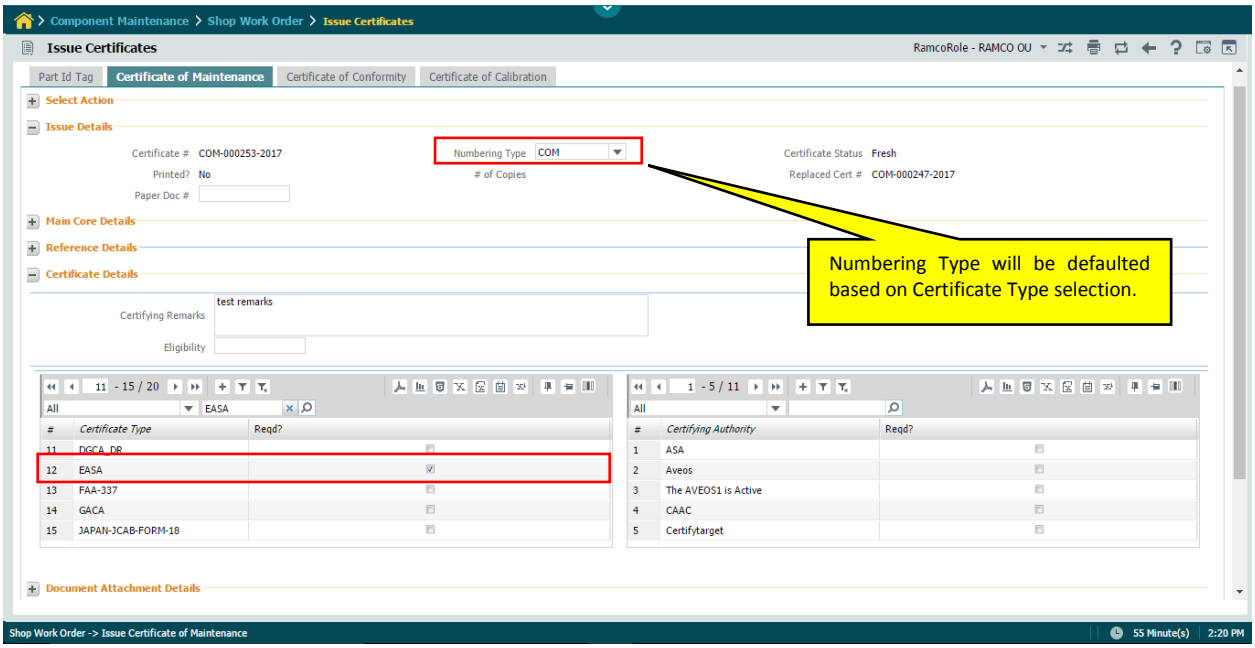
In typical MRO scenarios where Shop Maintenance activities are in compliance with regulations from multiple regulatory bodies, Certificate of Maintenance is issued to each of the regulatory authorities. These CoM generated should have different Form Tracking # (i.e. Certificate #) so that it can be tracked separately for reporting purposes.

Change Details

The new **'COM Numbering Type'** column added in Create/Edit/View Certificate Type screens in Logistic Common Master business component.



While generating Certificate of Maintenance by selecting appropriate Certificate Type (say for example EASA), system will generate Certificate # based on COM Numbering Type defined for Certificate Type. Refer below snapshot for illustration:



Note: If multiple Certificate Types are selected during generation of Certificates, system will consider default Numbering Type defined for Transaction 'Certificate of Maintenance' in Document Numbering Class business component.

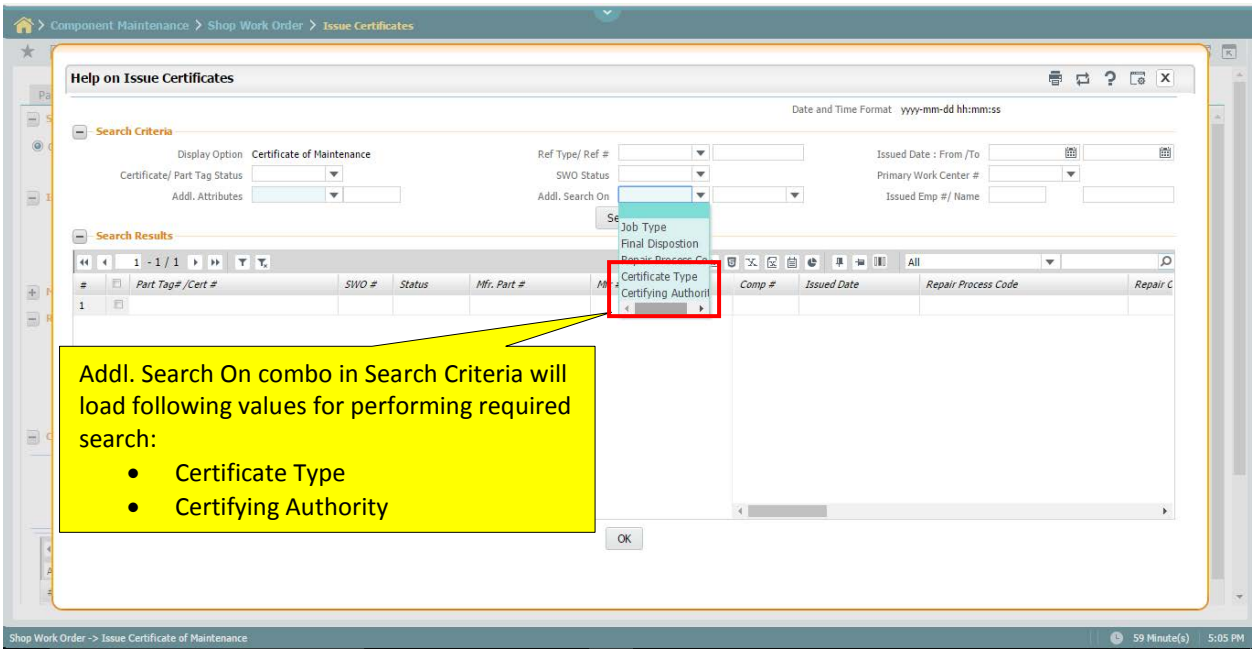
In order to track separate numbering for each Certificate Types, below process parameter is added in Common Master Business component:

Set Process Parameter (Common Master)	
Entity Type	Shop Work Order Type
Entity	--All Work Orders--
Process Parameter	Issue distinct COM Report against individual Certificate Types.
Permitted Values	Enter "0" for 'No', "1" for 'Yes'.
Default Value	0
System behavior based on process parameter value	
1 (Yes)	System will allow generation of Certificate # with only one Certificate Type in Issue Certificate screen.
0 (No)	System will allow generation of Certificate # with multiple Certificate Type in Issue Certificate screen.

Additional Changes

Search filters in Help on Issue Certificates screen is enhanced to filter Certificate # (CoM) based on Certificate Type and Certifying Authority. 'Addl. Search On' combo in Search Criteria will load following values for performing required search:

- Certificate Type
- Certifying Authority



Ability to not enforce CoM for removed cores from Aircraft

Reference: AHBG-12571

Background

When core returnable parts are removed from aircraft and moved for Shop maintenance, Certificate of Maintenance generation is not mandatory for removed cores as cores are finally returned back to aircraft and certificate of release to service is issued against aircraft. Whereas if the same core part is routed from warehouse for Shop execution through Route Unserviceable Parts/Components screen, system should continue to mandate CoM generation based on existing set option 'CoM Reqd.?' defined for default Shop Work Order Type of Part # in Maintain Maintenance Info. for Part screen.

Change Details

Below process parameter is added in Set Process Parameter screen of Common Master business component:

Set Process Parameter (Common Master)	
Entity Type	Disposition Code
Entity	User defined values
Process Parameter	Default Shop Work Order Type for removed cores from Aircraft?
Permitted Values	Enter a valid Shop Work Order Type defined in Common Master business component.
Default value	Blank
System behavior based on process parameter value	
User defined Value	On removal of Parts from aircraft Package with Disposition Code having value of process parameter 'Default Shop Work Order Type for removed cores from Aircraft?' set with an active Shop Work Order Type defined in Common Master business component, the Shop Work Order generated during removal will default SWO Type from value defined in above mentioned process parameter.

Blank	On removal of Parts from aircraft Package with Disposition Code having value of process parameter 'Default Shop Work Order Type for removed cores from Aircraft?' set as Blank, the Shop Work Order generated during removal will default the SWO Type from 'Default Exec. Doc for Int.Repair Routing' in Maintain Maintenance Info. for Part screen. **(Existing Behavior)**

Note 1:

This process parameter is applicable only for Work Order auto-generated during removal from Aircraft package. For all other auto-generated Shop Work Orders, system will default SWO Type from 'Default Exec. Doc for Int.Repair Routing' in Maintain Maintenance Info. for Part screen.

Note 2:

Above process parameter can be defined only if value of below process parameters are set as:

Applicable Document	"1" for 'Aircraft Maint. Exec. Ref #' or "2" for 'Both'
Initial Disposition?	"1" for 'Yes'
Create Order on disposition?	"1" for 'Execution Order'

WHAT'S NEW IN COMMON MASTER?

Ability to associate Tax Region to Station in the Station master

AHBG-12778

Background

With the GST regime being implemented in India, the tax regions (state codes) will determine the percentage and nature of tax charged on the traded goods and services. In Ramco Aviation Maintenance function, work centers are associated to stations and maintenance services are carried in these work centers. To facilitate GST charges on maintenance services based on the tax regions as per regulations, every station depending on the geographic location must be associated to a tax region.

Change Details

A new input field **Tax Region** has been introduced to specify a tax region for stations in the Common Master component to facilitate application of GST in the generation of invoice/bill for maintenance parts and services.

The Tax Region input field will be a drop-down list box in the **Create Station** and **Edit Station** activities of Common Master. The drop-down list box will display the values defined for the Active quick codes under the entity 'Tax Region' in the Create Quick Codes activity of the Quick Codes component of Finance Setup.

In the **View Station and Gate Information** page, the **Tax Region** field displays the tax region specified for the station.

Exhibit 1: The **Create Station** screen in Common Master

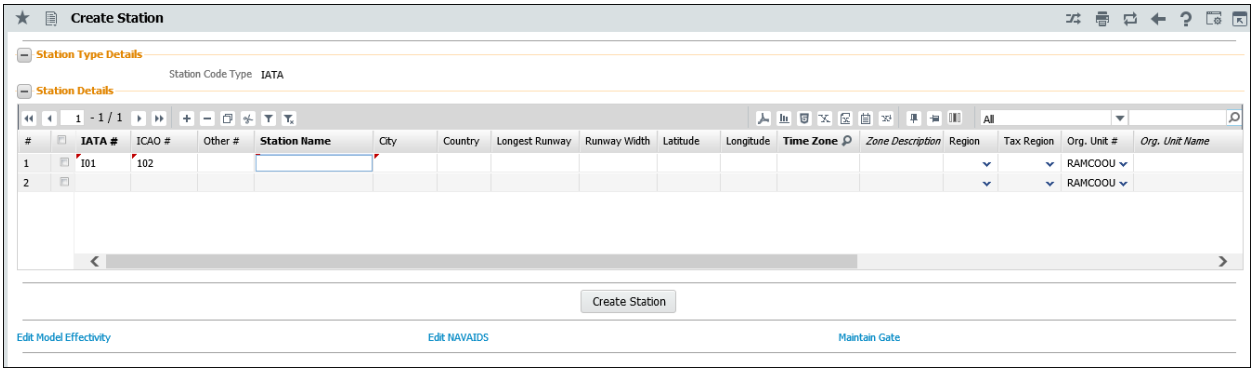


Exhibit 2: The **Edit Station** screen in Common Master

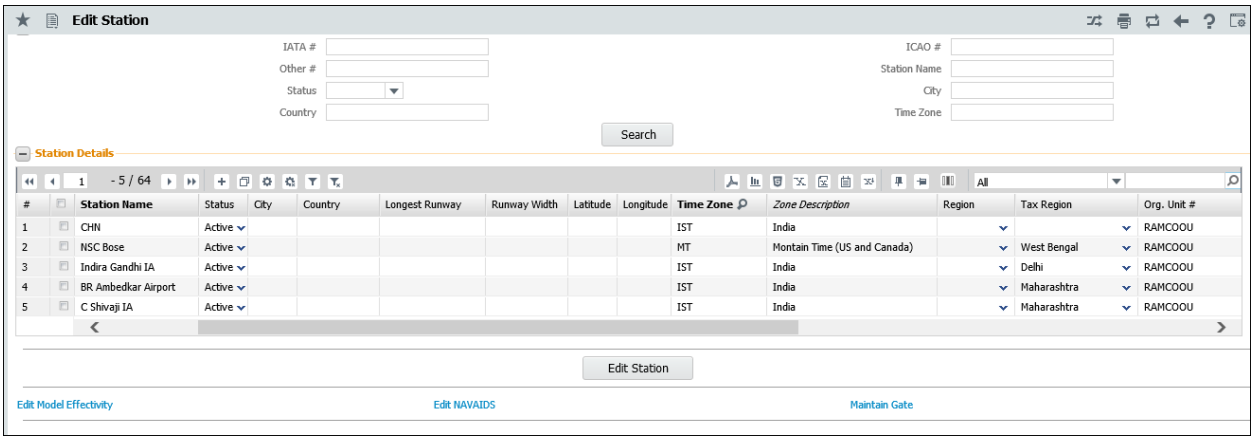
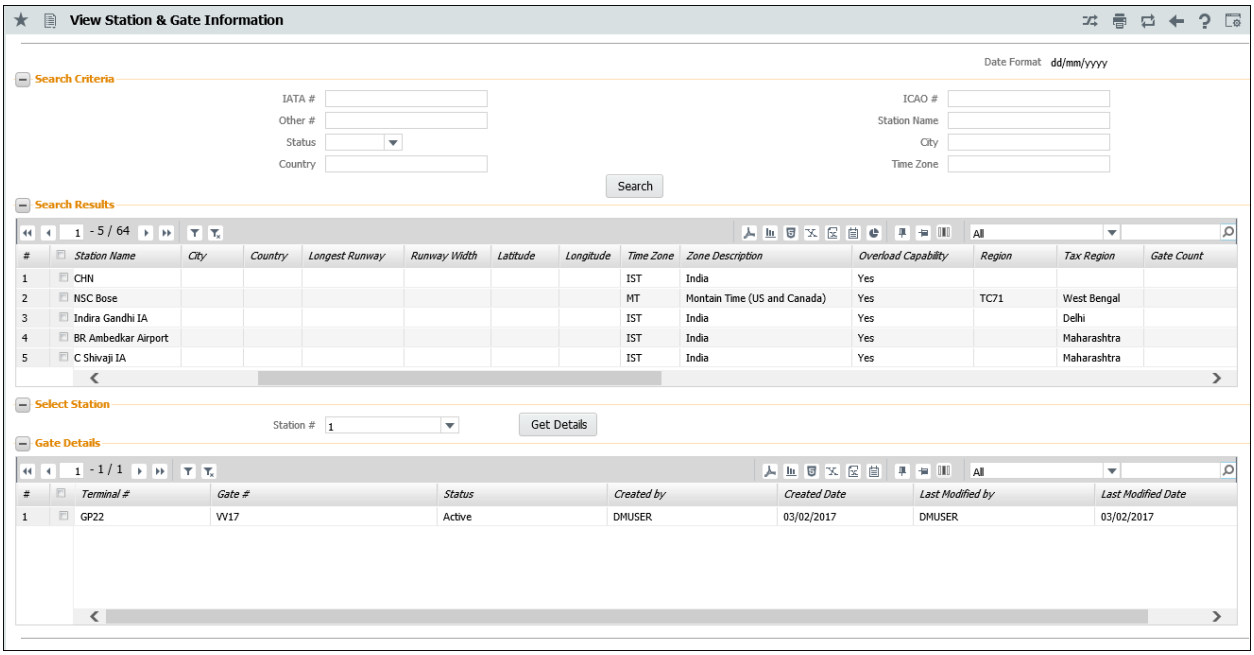


Exhibit 3: The View Station and Gate Information screen in Common Master



WHAT'S NEW IN MECHANICANYWHERE APP?

Ability to record Fuel/ Oil uplift in MechanicAnywhere App

Reference: AHBG-9263

Background

Prior to every flight departure, Line Mechanics inspects fuel or oil levels in aircraft and will uplift fuel/oil based on the next flight requirements. Line Mechanics should have a provision to record the Uplift details like Arrival Qty, Uplift Qty., Receipt # etc. against the Line Package. This capability already exists in Ramco desktop application, same needs are brought in Mobility (Mechanic Anywhere App).

Change Details

With this enhancement in Mechanic Anywhere app, user can perform following activities:

- Generate 'Fuel/Oil Log #' to track Fuel/Oil uplift against the package
- Record Fuel Distribution Details in each Fuel tank
- Record Oil Uplift in Engines, APU's and other positions
- Record Hydraulic oil uplifts

Following changes are done in MechanicAnywhere App and Desktop application respectively:

1. A new tab 'Fuel/Oil Uplift' has been added to record Fuel or Oil Uplift record against a Package in E-Log screen of MechanicAnywhere app.
2. In the Maintain Flight Log Parameter screen in Desktop, two new columns 'Item Type' and 'Position Code' have been added in Maintain Oil uplift Details multiline. 'Item Type' column is loaded with values 'Fuel', 'Hydraulic' and 'Oil'. User should define Item # against Item Type's to record Fuel/Oil for Fuel, Hydraulic and Oil in MechanicAnywhere app.

Exhibit 1: New Fuel/Oil Uplift tab in E-Log screen of MechanicAnywhere app

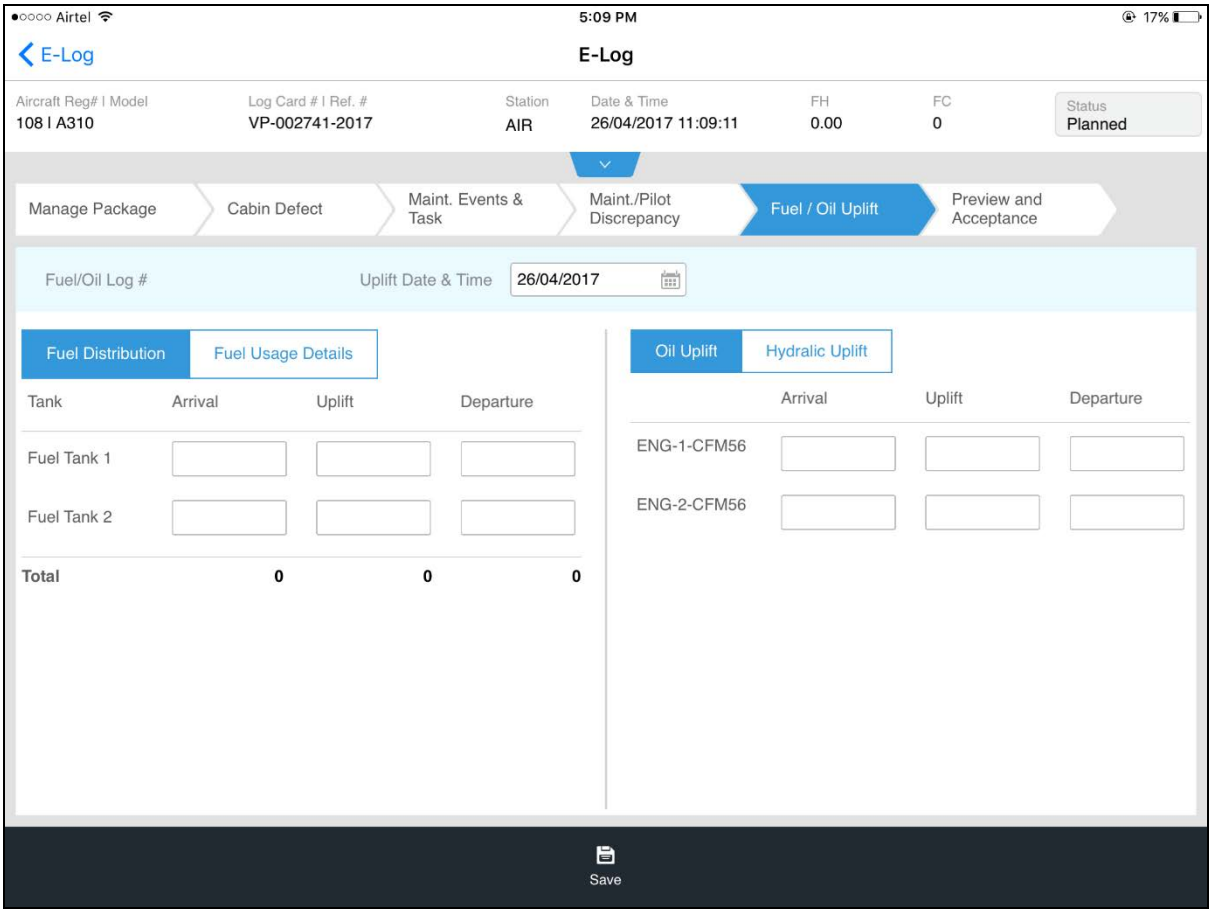
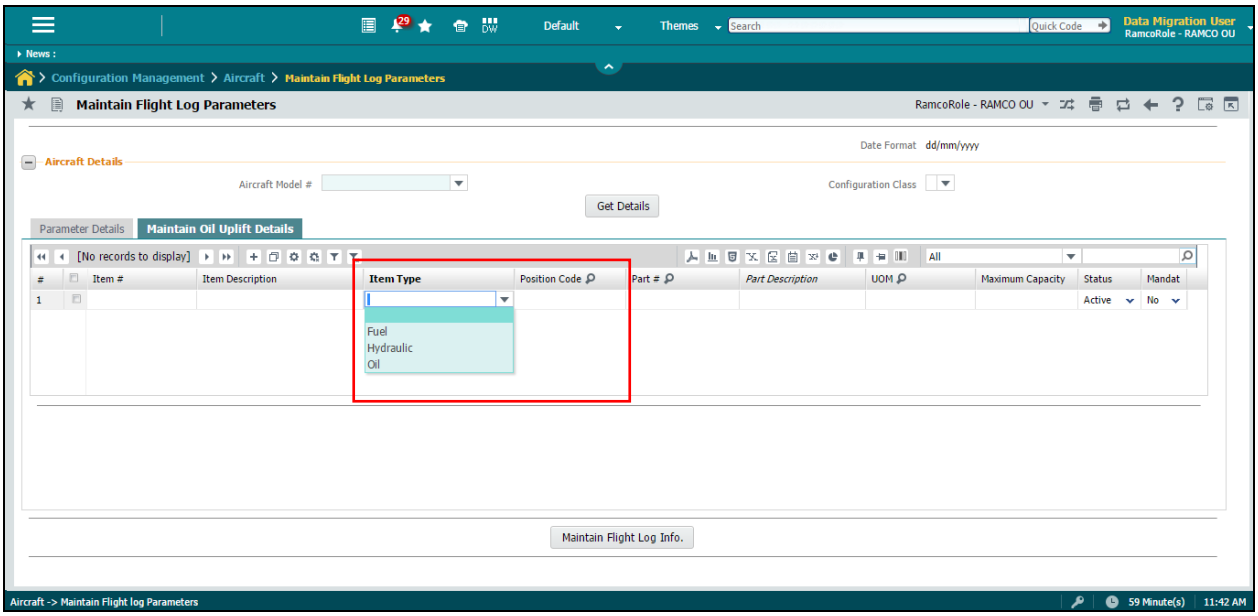


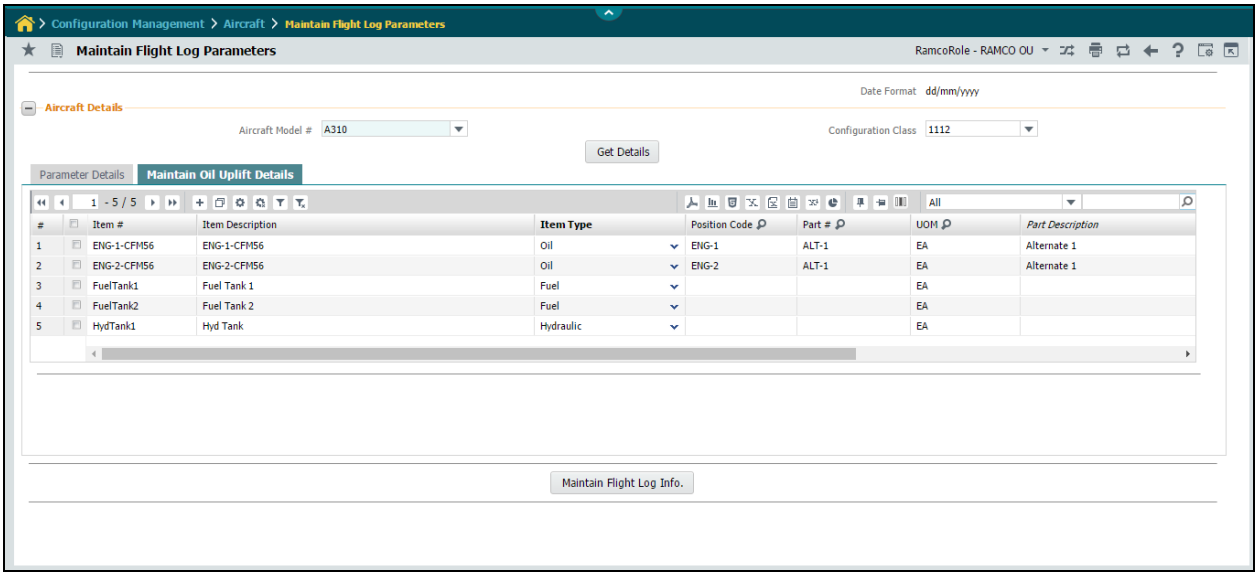
Exhibit 2: Item Type and Position Code columns added in Maintain Flight Log Parameters screen



Steps to configure Fuel/Oil uplift in MechanicAnywhere app:

Step 1: Launch Maintain Flight Log Parameter screen

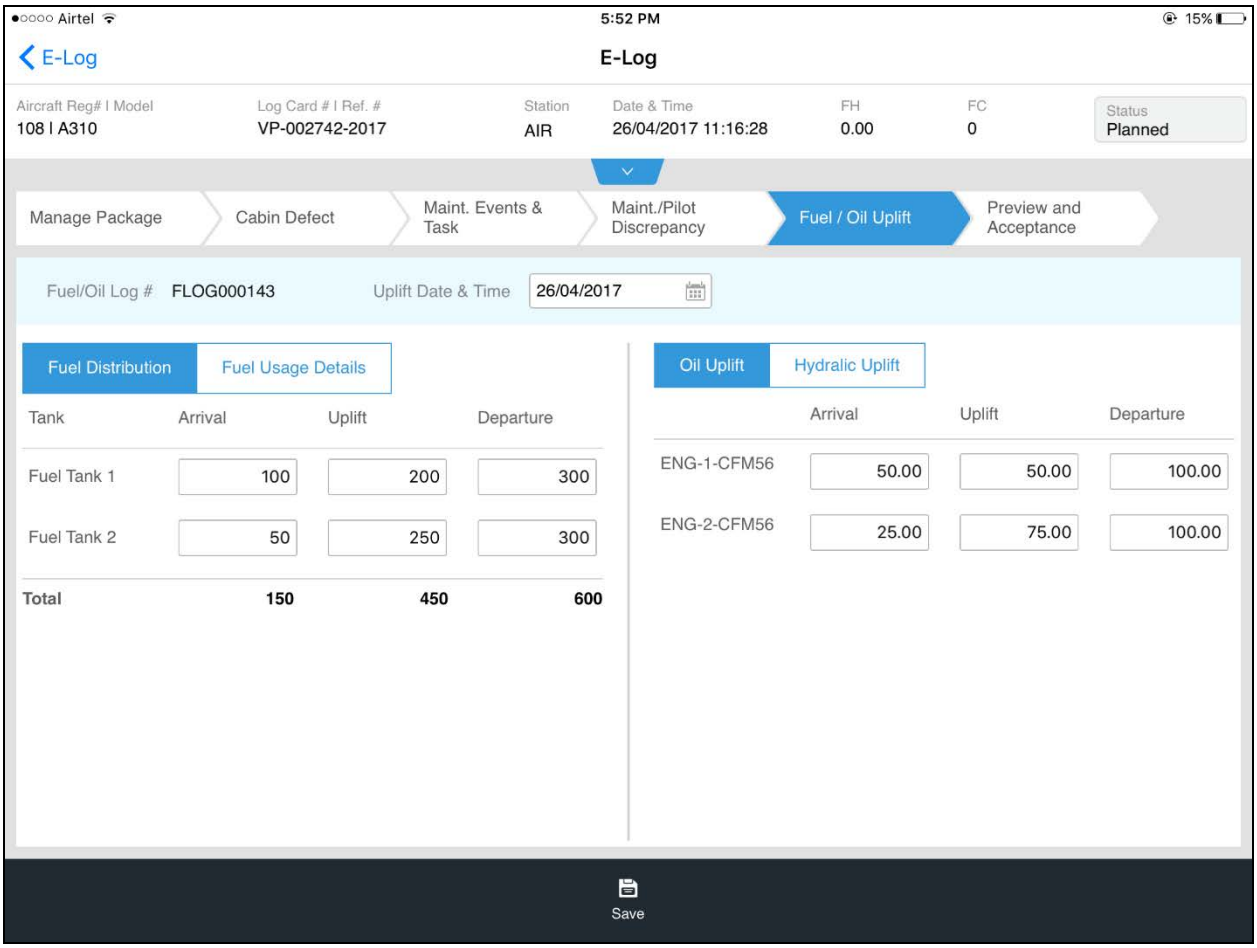
Step 2: Select appropriate Aircraft Model # and Configuration Class and define Item #'s for Item Type 'Fuel', 'Oil' and 'Hydraulic'. Please refer below snapshot for example.

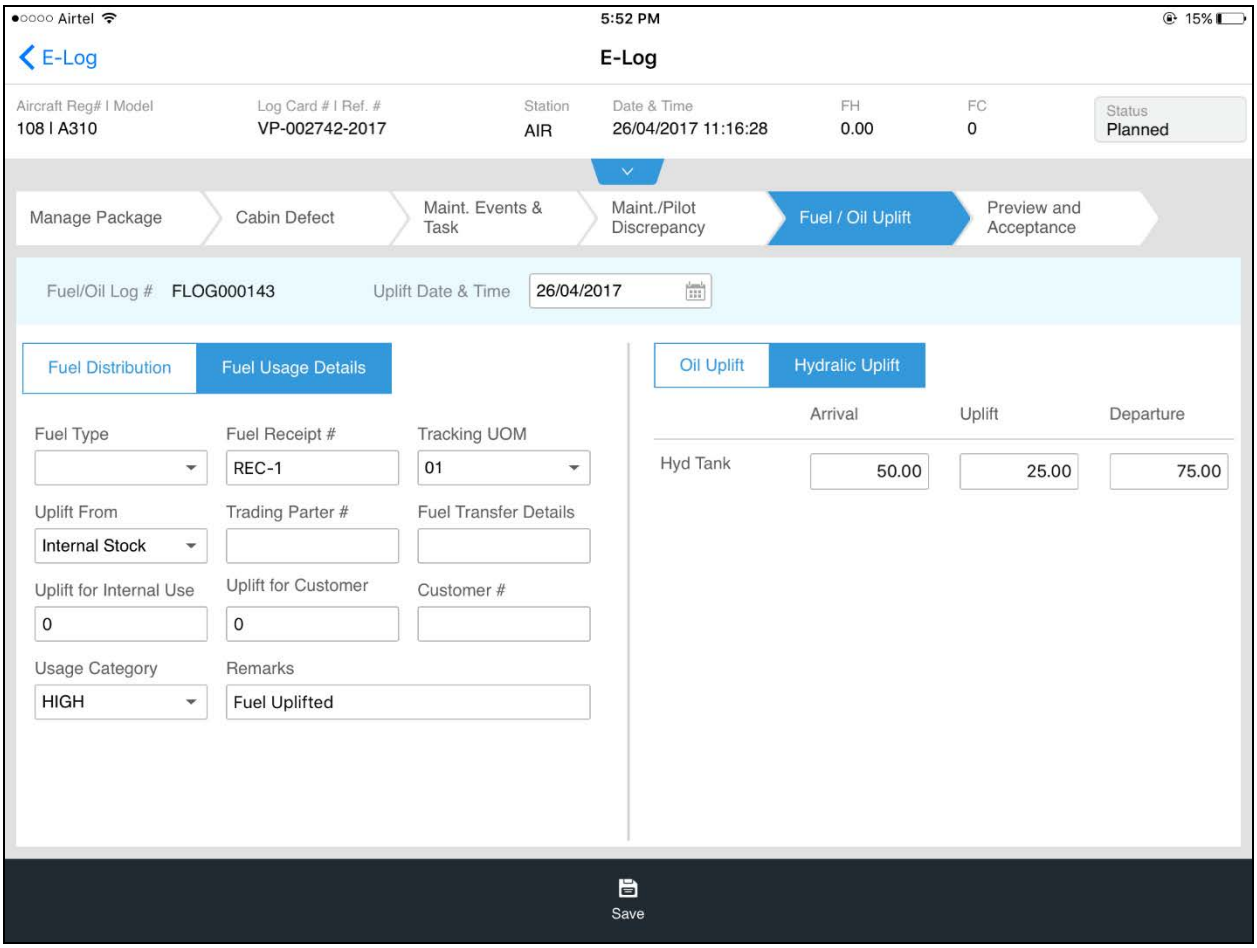


Note:

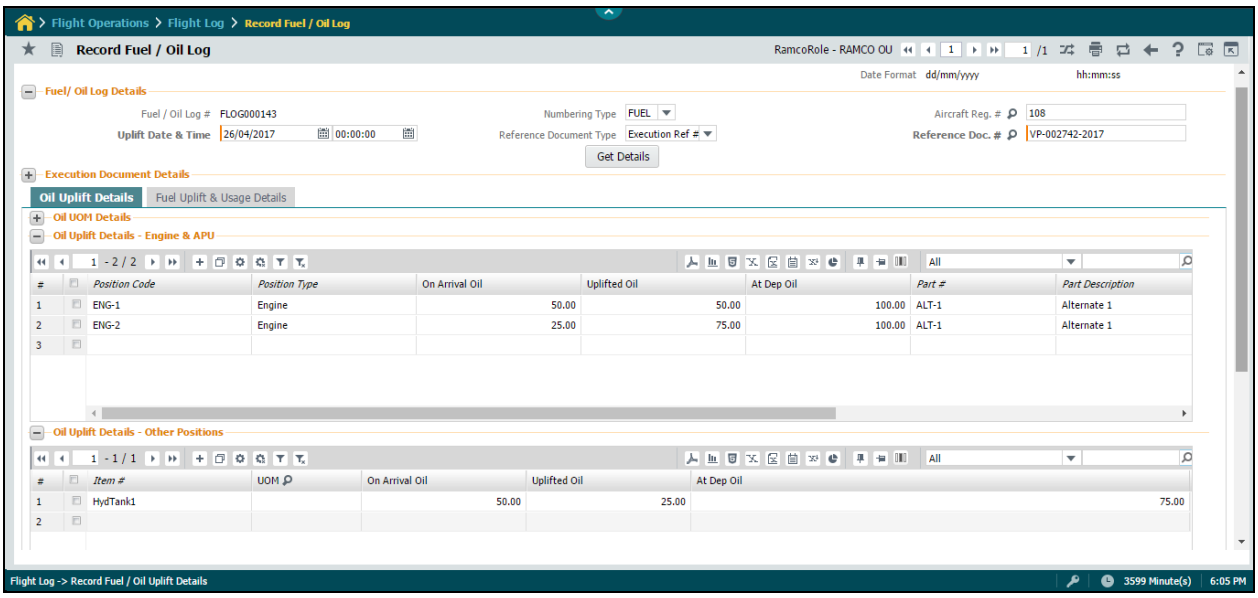
- The Position Code and Part # should be defined against Item Type 'Oil' for uplifting oil in Engine and APU positions of aircraft via. MechanicAnywhere App.
- The UoM defined against Item # in Maintain Flight Log parameter will be considered during recording done through MechanicAnywhere App.

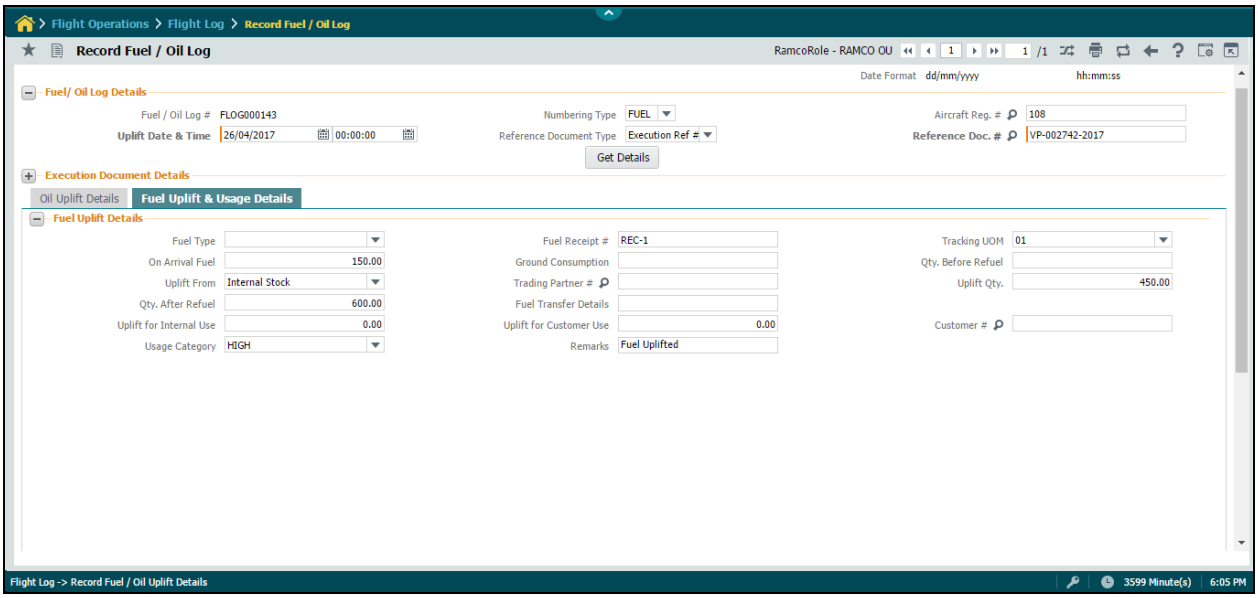
Step 3: Now traverse to Fuel/Oil Uplift tab in E-Log screen of MechanicAnywhere App for the aircraft and generate a Fuel/ Oil Log # by recording uplift details. Please refer below snapshot for example.





Step 4: Uplift Details recorded through MechanicAnywhere for Fuel Distribution, Engine/APU Oil and Hydraulic Oil will get updated against Fuel/ Oil Log # and will be displayed in Fuel/Oil Uplift Details screen in Flight Log business component in desktop. Please refer below snapshot for example.




Flight Operations > Flight Log > Record Fuel / Oil Log
Record Fuel / Oil Log
RamcoRole - RAMCO OU
Date Format dd/mm/yyyy hh:mm:ss
Fuel/ Oil Log Details
Fuel / Oil Log # FLOG000143
Uplift Date & Time 26/04/2017 00:00:00
Numbering Type FUEL
Reference Document Type Execution Ref #
Get Details
Aircraft Reg. # 108
Reference Doc. # VP-002742-2017
Execution Document Details
Oil Uplift Details
Fuel Uplift & Usage Details
Fuel Uplift Details
Fuel Type
On Arrival Fuel 150.00
Uplift From Internal Stock
Qty. After Refuel 600.00
Uplift for Internal Use 0.00
Usage Category HIGH
Fuel Receipt # REC-1
Ground Consumption
Trading Partner #
Fuel Transfer Details
Uplift for Customer Use 0.00
Remarks Fuel Uplifted
Tracking UOM 01
Qty. Before Refuel
Uplift Qty. 450.00
Customer #
Flight Log -> Record Fuel / Oil Uplift Details
3599 Minute(s)
6:05 PM

Ability to filter Child Positions in the Configuration Screen of Mechanic Anywhere

Reference: AHBG-12265

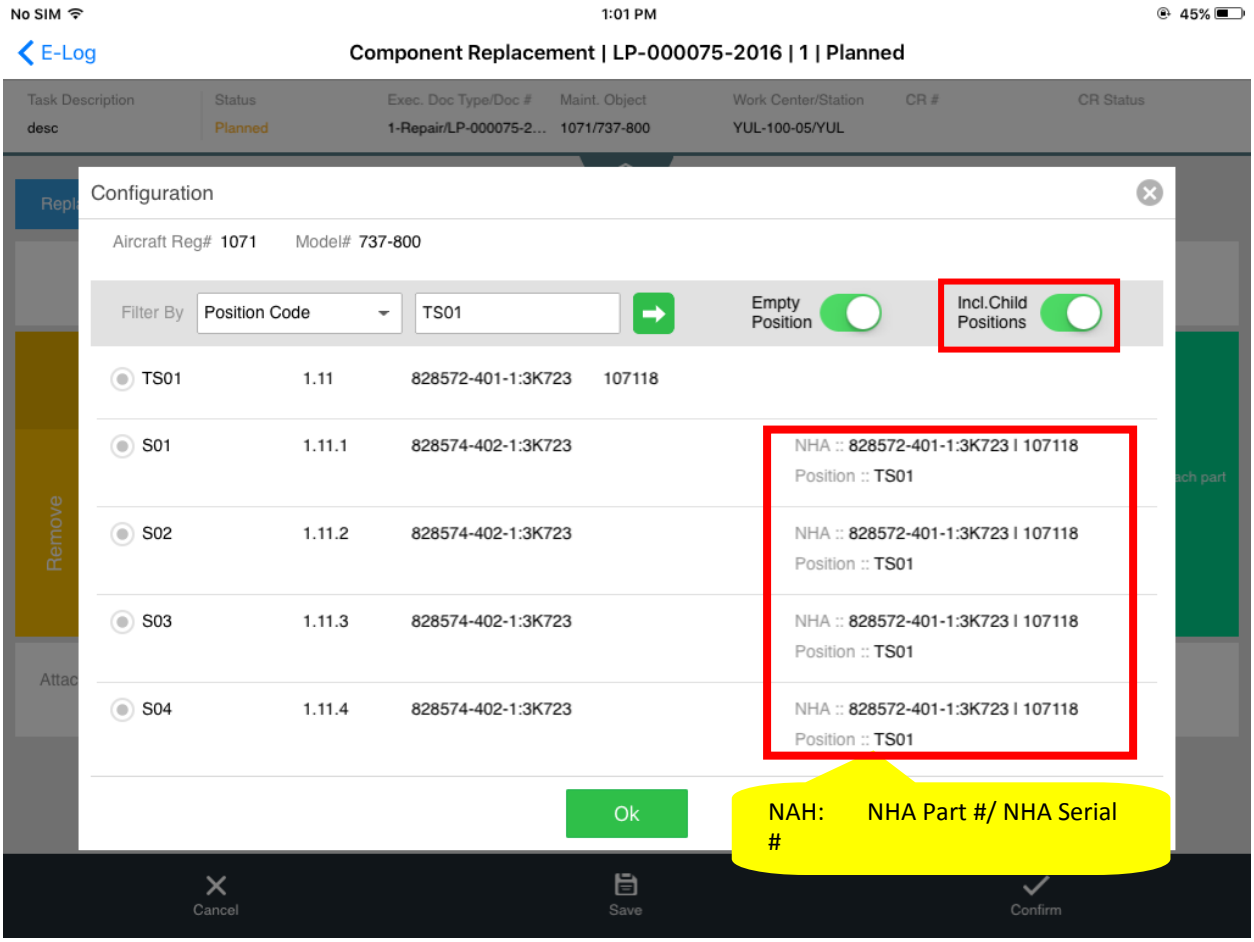
Background

During removal/installation of sub-assemblies from an aircraft in the **MechanicAnywhere** app, the positions of sub-assemblies are displayed hierarchically as in the aircraft configuration. As a result, specific part # may be attached in multiple positions of the aircraft and searching with Part # in the **Configuration** screen in MechanicAnywhere will list the records from multiple positions. Currently, the **Configuration** screen in **MechanicAnywhere** lists sub-assembly positions with Level Codes but in reality Level Codes are just system generated codes and mechanics do not relay on them.

Change Details

In the **Configuration** screen, a new toggle button **Incl. Child Positions** has been added. If **Incl. Child Position** is enabled during search with Position Code/ Level Code, the system will display the sub levels of Position Code/Level Code along with the requested position/level. Further, it will have no impact, if search is executed on the basis of Part #.

Exhibit 1: The Incl. Child Positions toggle button and NHA Part details column in the Configuration screen

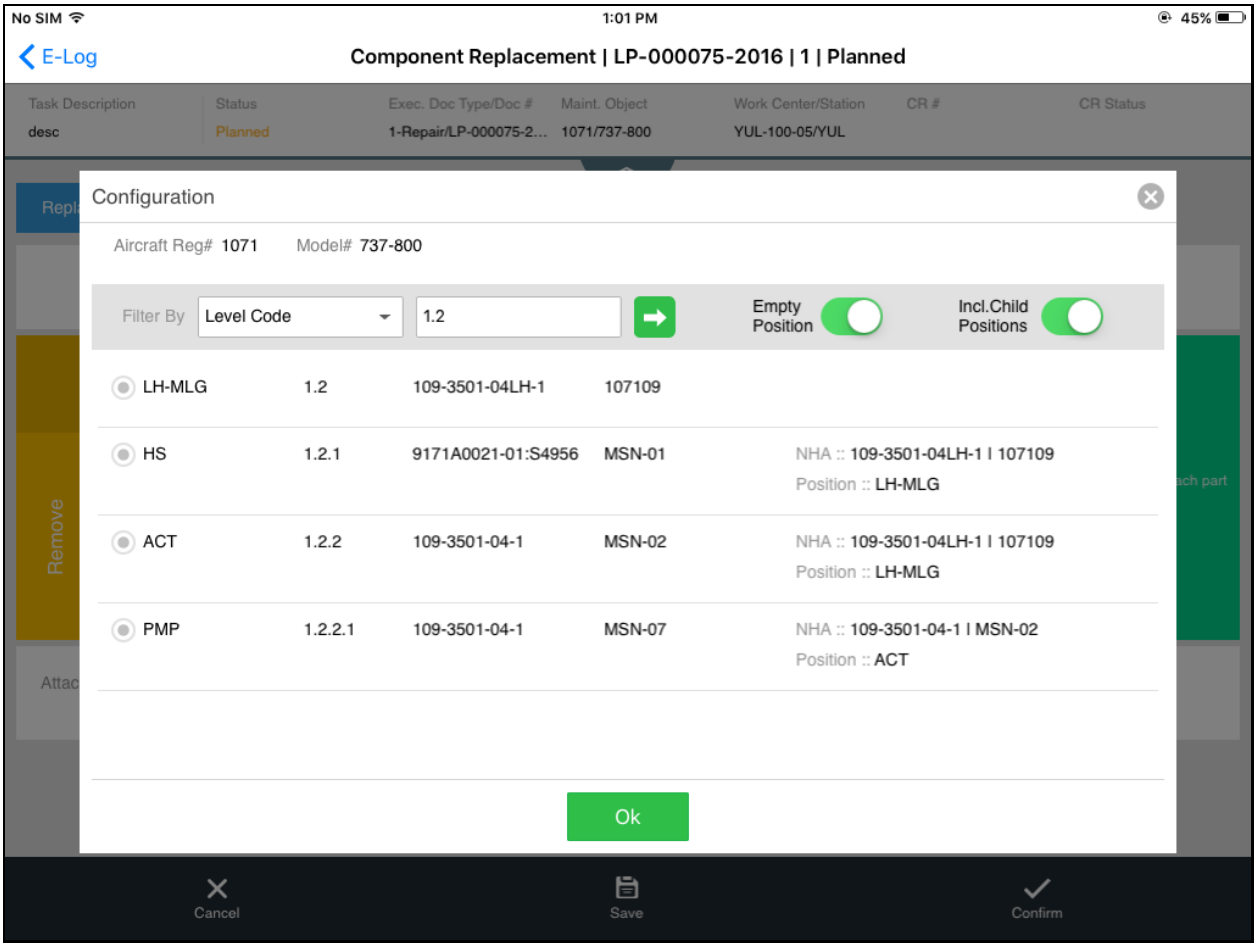


Note: Added 'Incl. Child Positions' toggle button and 'NHA Part Details' Column in the Configuration screen of Mechanic Anywhere.

Steps to filtering the child positions based on Position Code:

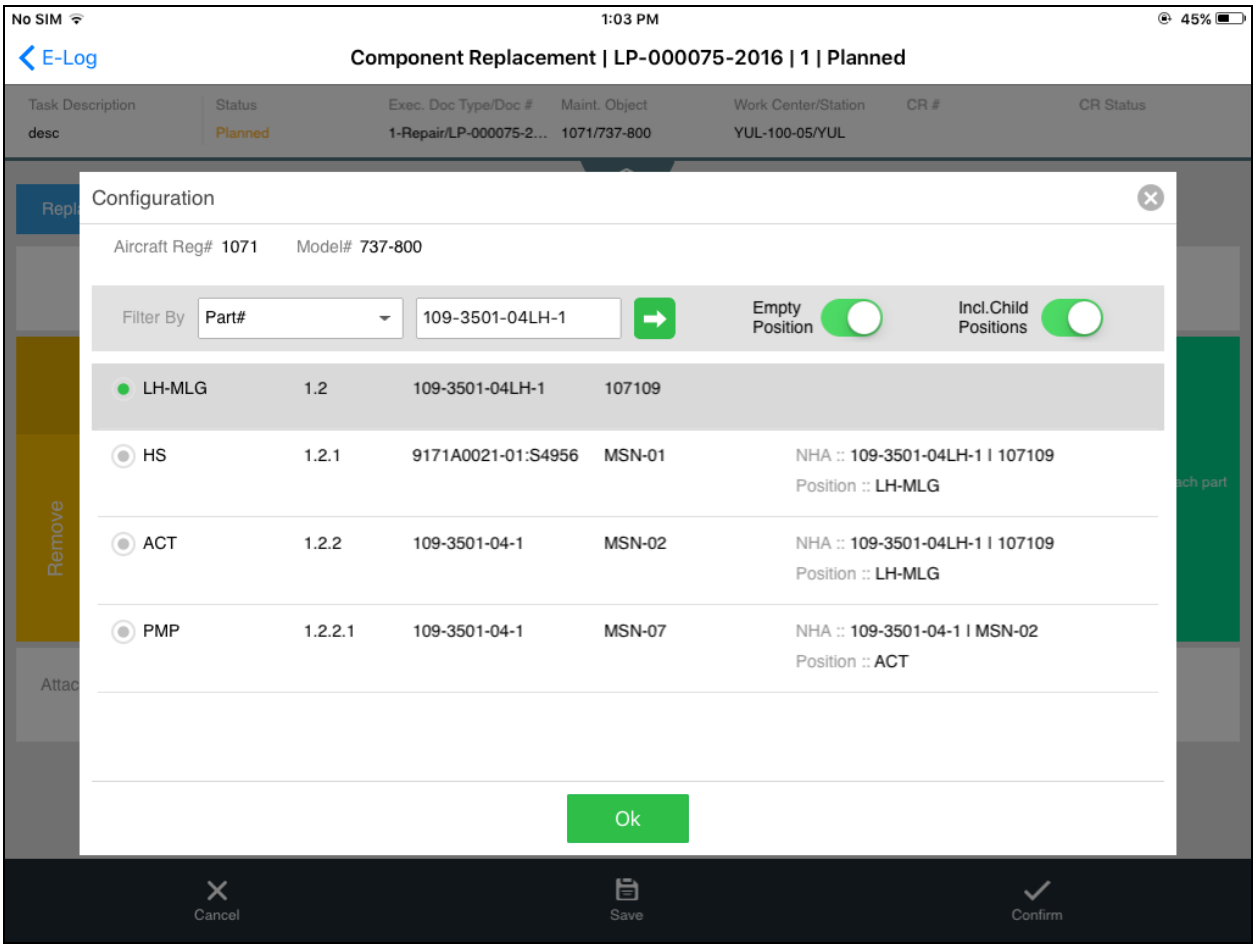
- Step 1: Launch Component Replacement screen under E-Log
- Step 2: Launch Configuration screen by Clicking Help on Position
- Step 3: Enable "Incl. Child Positions" toggle button and execute search with Position Code/Level Code of NHA Part or EIPN
- Step 4: the system will list the searched Position Code/Level Code Part with its child level components.
- Step 5: Now, users can select the appropriate sub-assembly record to removal or attachment as required.

Exhibit 2:



With this enhancement, users can search for Level Code by enabling toggle button 'Incl. Child Positions', and the system will retrieve the sub levels of Level Code along with requested Level Code. If search is executed for Level Code by disabling the toggle button, system will retrieve records of searched level code only.

Exhibit 3:



Steps to filter the Searched Part:

- Step 1: Set the filter as 'Part'
- Step 2: Enter the Part and invoke search
- Step 3: Searched part will be fetched even the 'Include Child Positions' button is enabled,

Note: It doesn't have any impact if search is executed for the Part #

Ability to Print Return Document from Mechanic Anywhere APP

Reference: AHBG-11903

Background

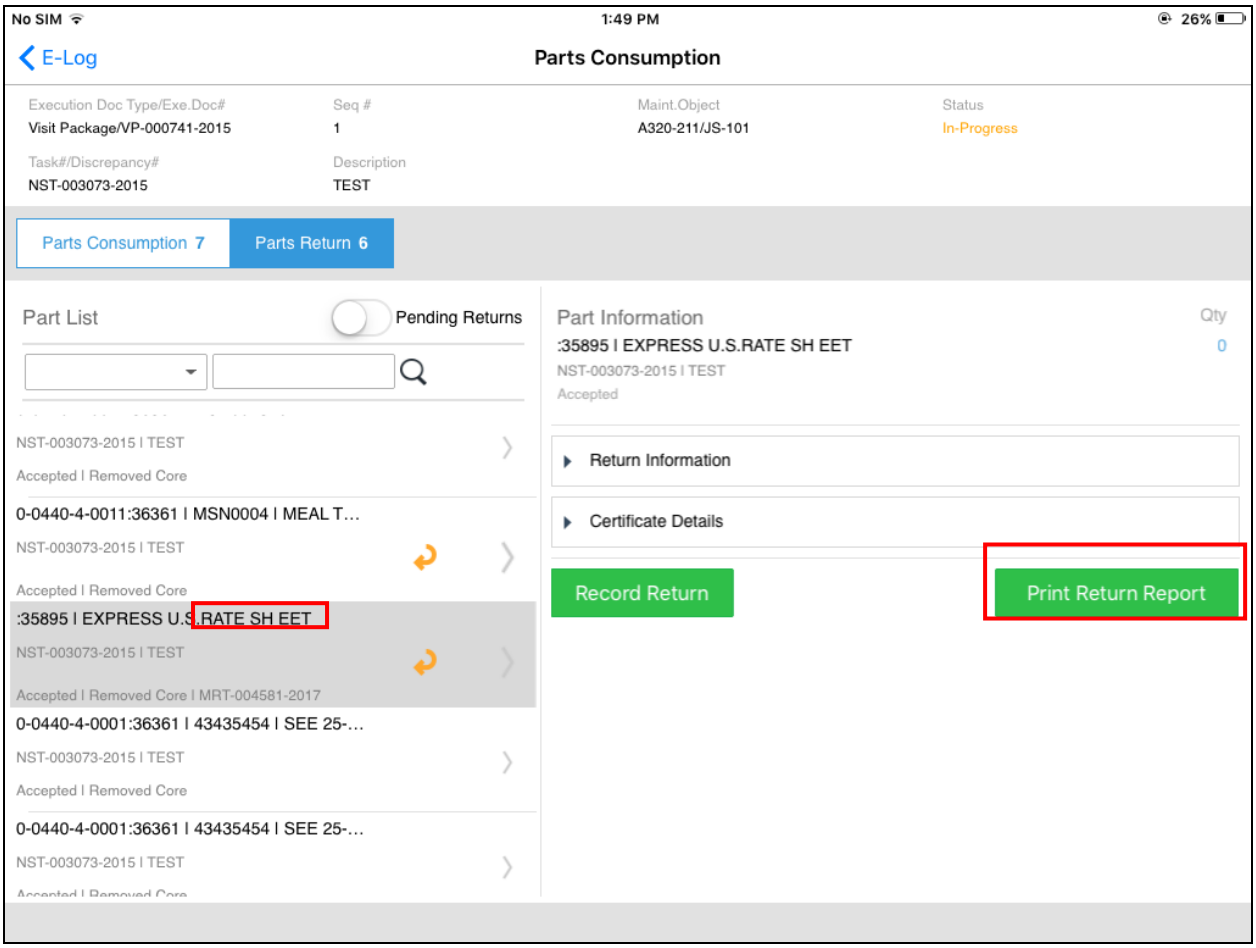
The enhancement brings the ability to generate Return Document from MechanicAnywhere once part returns are recorded.

Change Details

To provide the ability to print the Return report, the new button **Print Return Report** has been added in the **Parts Consumption** screen of Mechanic Anywhere.

Note: The button will be visible only if Material Return # exists for the record and is only applicable for "**AME"** returns.

Exhibit 1: 'Print Return Report" in Parts Consumption screen



Steps to Configure the Print Return Report

Step 1: Launch Parts Consumption screen from Mechanic Anywhere

Step 2: Navigate to **Parts Return** tab

Step 3: Once return is recorded, disable the Pending Returns toggle button

Step 4: Select the returned part which has a Return #, the **Print Return Report** button will be visible.

Step 5: Press **Print Return Report**.

Ability to add Corrective Action and perform Sign-off together in Mechanic Anywhere

Reference: AHBG-11921

Background

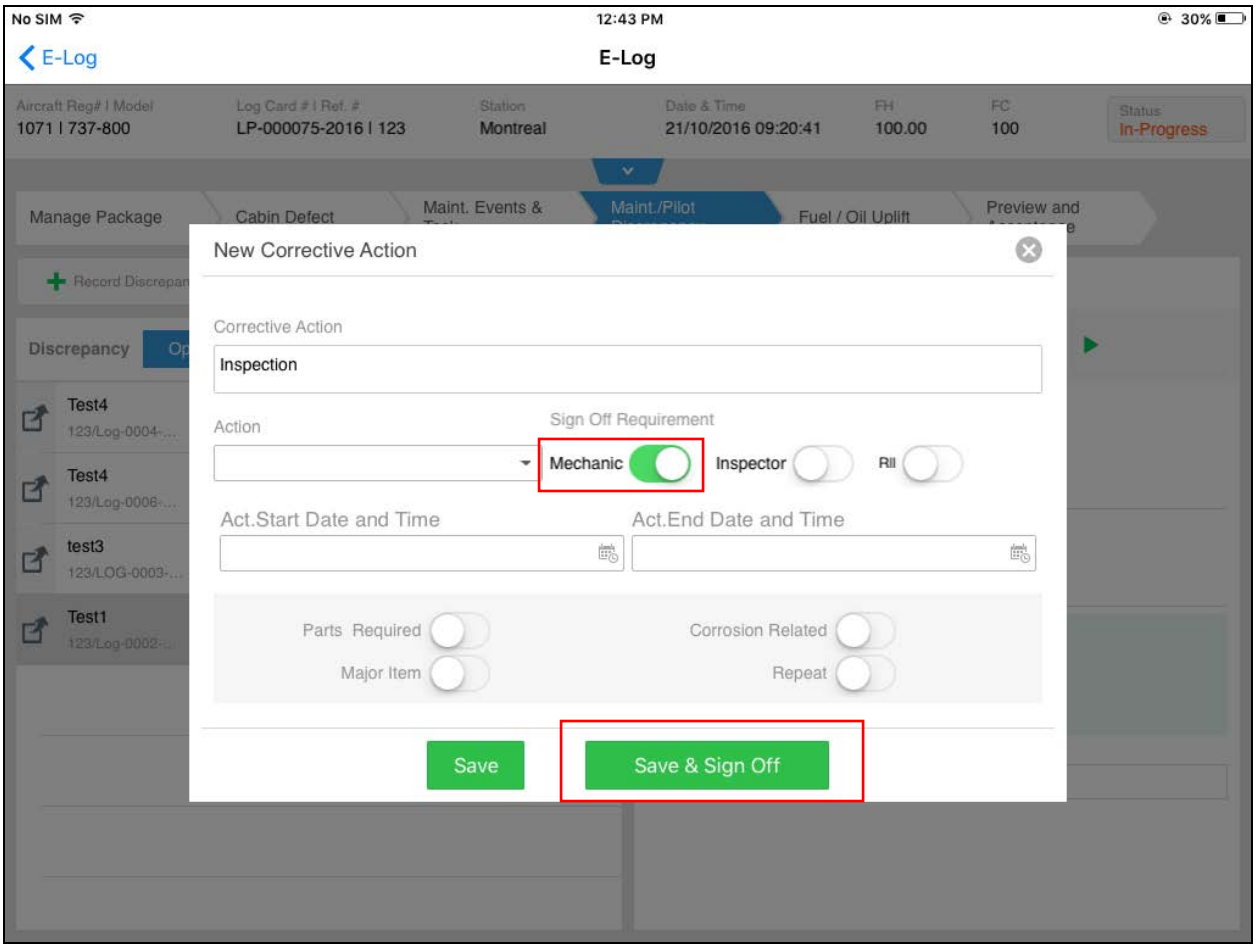
Corrective Action performed against the discrepancies are vital information to be tracked and reported to regulatory bodies. Each corrective action recorded against a discrepancy requires sign-off from skilled and certified mechanics or inspectors. Normally as a work practice, mechanics/inspectors record and sign-off the corrective actions together. Mechanic Anywhere App has provisions to record corrective action and perform sign-off separately. However, in real time scenarios, users would prefer to record corrective action and perform sign-off at one go.

Change Details

A new **Save & Sign off** button is added in the **New Corrective Action** pop up screen in Mechanic Anywhere

Note: The **Save & Sign Off** button will be visible only if Sign off Requirement "Mechanic, Inspector and RII" is enabled. Once Sign off Requirement is disabled, the Save & Sign off button also will be disabled.
On click of **Save & Sign off**, the system will launch the **E-Sign off** pop up screen and then the user can sign off the corrective action.

Exhibit 1: The new **Save & Sign Off** button in the **New Corrective Action** pop up



Steps to Save & Sign off Corrective Action:

Step 1: Launch E-log from Mechanic Anywhere

Step 2: Select Appropriate package # and launch Maint./Pilot Discrepancy tab

Step 3: Create Discrepancy and launch New Corrective Action pop up screen

Step 4: Enter the Corrective Action and select appropriate “Sign off Requirement (Mechanic, Inspector)

Step 5: Press “Save & Sign Off”

Step 6: System will launch “E-sign off” screen, with this user can sign off the corrective action.

*Note: If user doesn't want to sign off and closes the **E-Sign off** screen, the system will save the corrective action recorded and he can then sign off whenever he wants.*

Ability to Return Non-tracked Parts without Removal and Different / New Serial # / Lot # against issued cores

Reference: AHBG-13361

Ability to Return Non-tracked Parts without Removal

Background

The **Record Part Consumption & Return** screen of the **Aircraft Maintenance Execution** (AME) business component in the desktop application supports return of cores directly by keying in **removed / returned p**art details without component replacements. This allows users to record the return of non-configuration tracked parts **effortlessly** without visiting the **Record AME Details** screen. However, currently, a similar feature is not supported in the **Parts Consumption** screen of **MechanicAnywhere.**

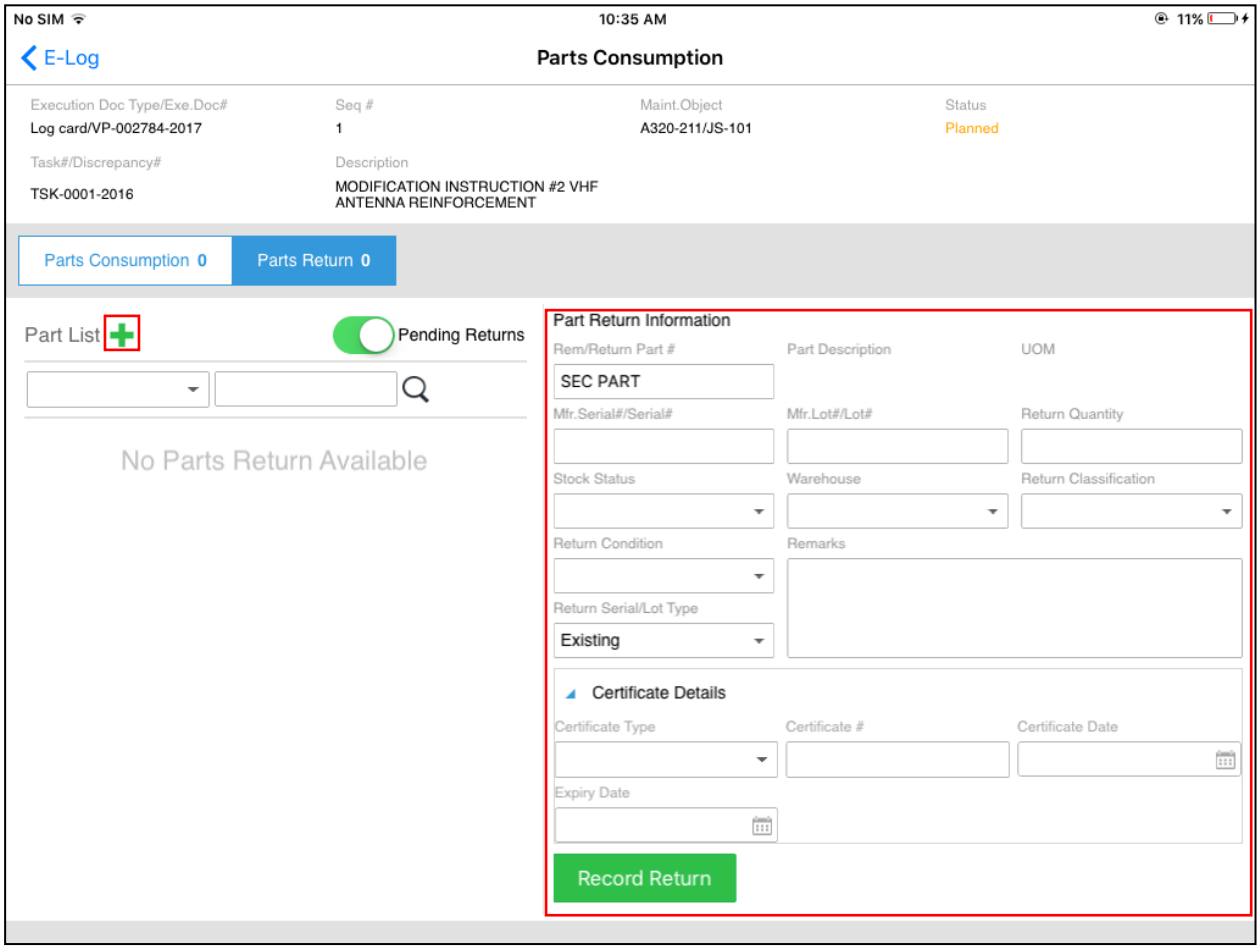
Change Details

- New '+' button will be introduced in the **Parts Return** tab of the **Parts Consumption** screen. On Invoke of '+' button, the system will launch a new section **Part Return Information** to record the return by keying in removed / returned part details.
- New section **Part Return Information** will allow users to record the following information to perform part returns without **Component Replacement** transaction from execution screens:
    - Rem. / Return Part #
    - Part Description
    - UoM
    - Mfr. Serial # / Serial #
    - Mfr. Lot # / Lot #
    - Return Quantity
    - Stock Status
    - Warehouse
    - Return Classification
    - Return Condition
    - Return Serial / Lot type
    - Remarks
    - Certificate Type
    - Certificate #

- Certificate Date
- Expiry Date
- Record Return

*Note: The '+' button in the **Parts Return** tab of the **Parts Consumption** screen will be visible only for returns from aircraft (i.e. if Exec. Doc Type is AME Packages)*

Exhibit 1: The new **Part Return Information** section from the **Parts Consumption** screen



Step 1: Launch the **Parts Consumption** screen and navigate to the **Parts Return** tab.

Step 2: Press the **+** button adjacent to **Part List.**

Step 3: A new section **Part Return Information** is launched.

However, to return a part without component replacements, you can enter **Part #**, **Serial #** and / or **Lot #**, **Mfr. Serial #** and / or **Mfr. Lot #** for the part and select **New** in the **Return Serial / Lot Type** field.

Ability to Return Different / New Serial # / Lot # against issued cores

Background

In the Desktop application, the Core Returnable parts that are issued to a package are listed in the **Return Unconsumed Parts** and **Return Cores** tabs in the **Record Part Consumption & Return** screen of **AME**. This allows users to return a different/new serial against the issued core part using the **Return Cores** tab. The business need is for the **Part Consumption** screen of **MechanicAnywhere** to be enhanced to support the return of a different/ new serial against the issued core.

Change Details

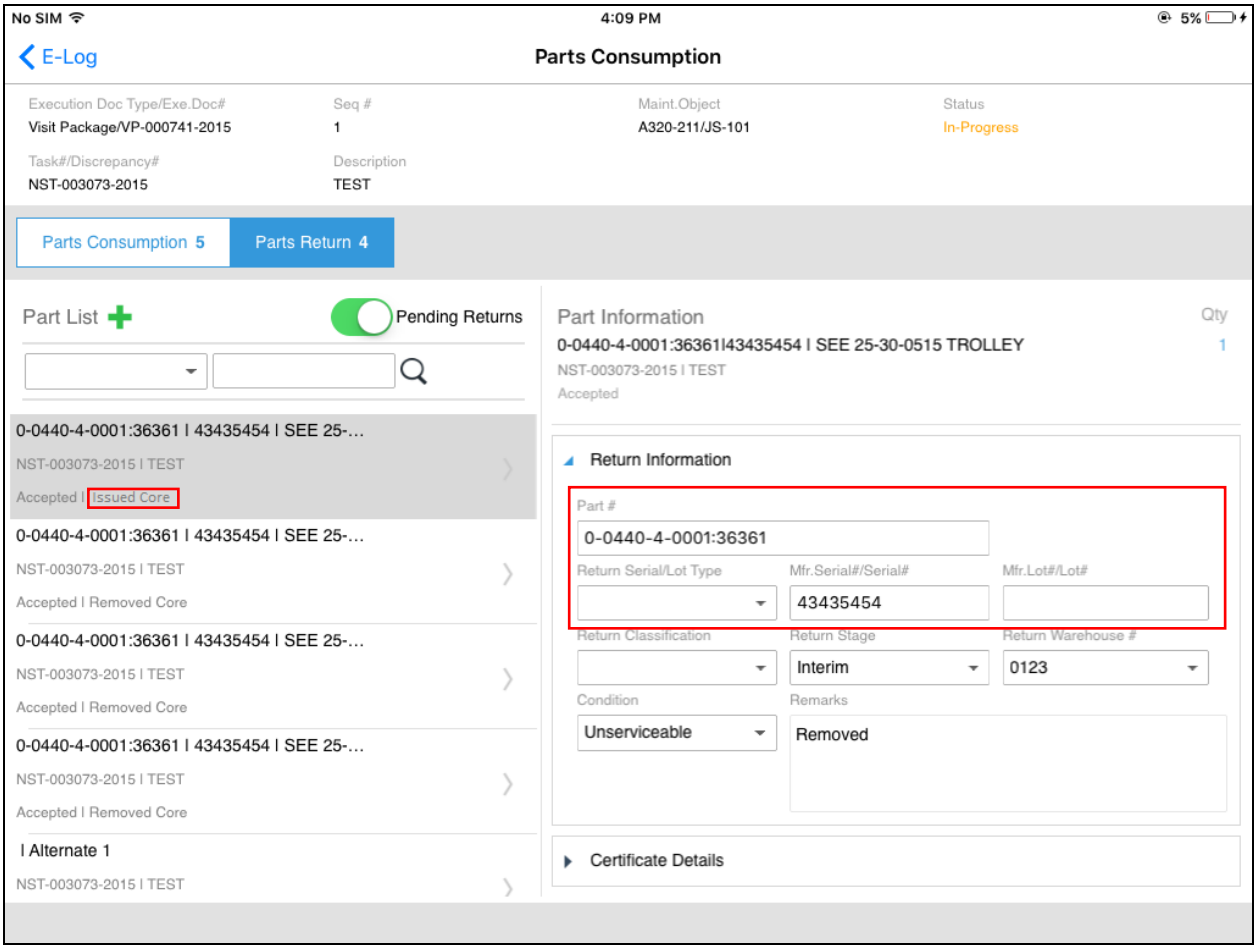
The **Parts Return** tab in the **Parts Consumption** screen will list issued parts with Issue Basis as 'Core Returnable' that are pending return. Currently, the **Parts Return** tab in the **Parts Consumption** screen displays only removed cores from aircraft using **Component Replacement** and issued parts (Core Returnable or Returnable) which are unused and pending for return.

The following fields are added in the **Return Information** section of the **Parts Return** tab in the **Parts Consumption** screen to enable return of new or different Serial/Lot directly from the **Parts Return** tab.

- Part #
- Mfr. Serial # / Serial #
- Mfr. Lot # / Lot #
- Return Serial / Lot type

Note: The above fields will be available only for Returns from aircraft (i.e. if Exec. Doc Type is AME Packages) with Maintenance Issue # having parts with Issue Basis 'Core Returnable'.

Exhibit 2:



Step 1: Issue **Core Returnable Part** against **Task #/Discrepancy #**

Step 2: Launch the **Parts Consumption** screen and navigate to the **Parts Return** tab.

Step 3: Select the **Issued Core Returnable Part. On selection,** the four newly added fields are displayed on the **Issue reference #**.

Step 4: Enter a new / different **Serial #** and / or **Lot #** and then press **Record Return**.

To return a new **Serial #** and / or **Lot #**, you can enter **Mfr. Serial #** and/or **Mfr. Lot #** for the part and then select **New** in the **Return Serial / Lot Type** column.

WHAT'S NEW IN MAINTENANCE TASK?

Ability to inactivate previous revisions of Improvised task in Task Upload

Reference: AHBG-13037

Background

Consequent to a task revision, a scenario could arise wherein the previous revisions of the task become void & hence such revisions of tasks may have to be inactivated. Currently, while revising a task from the **Maintain Activated Tasks** screen, users have the provision to inactivate the previous revisions. However, this facility is not supported during bulk task upload in the **Upload Task** screen.

Change Details

In order to facilitate inactivating the previous versions of a task upon upload of the newer version of the task depending on user discretion, a new process parameter has been created under the entity type "Maintenance Task" and entity 'Task' combination in the **Define Process Parameters** activity of **Common Master**. The process parameter 'Inactivate previous revisions of Improvised task on Task upload?' determines the status (Active or Inactive) of the previous revisions of the uploaded task as elucidated in the next table.

Process Parameter Value	Impact on click of the **Upload** pushbutton in the **Upload Task** screen
1/Yes	The previous revisions of the task are inactivated while the uploaded (newer) revision of the task becomes active.
0/No	The uploaded revision of the task becomes active while the previous revisions continue to maintain their Active status.

Exhibit 1: The **Set Process Parameters** screen of the **Define Process Parameters** activity in **Common Master**

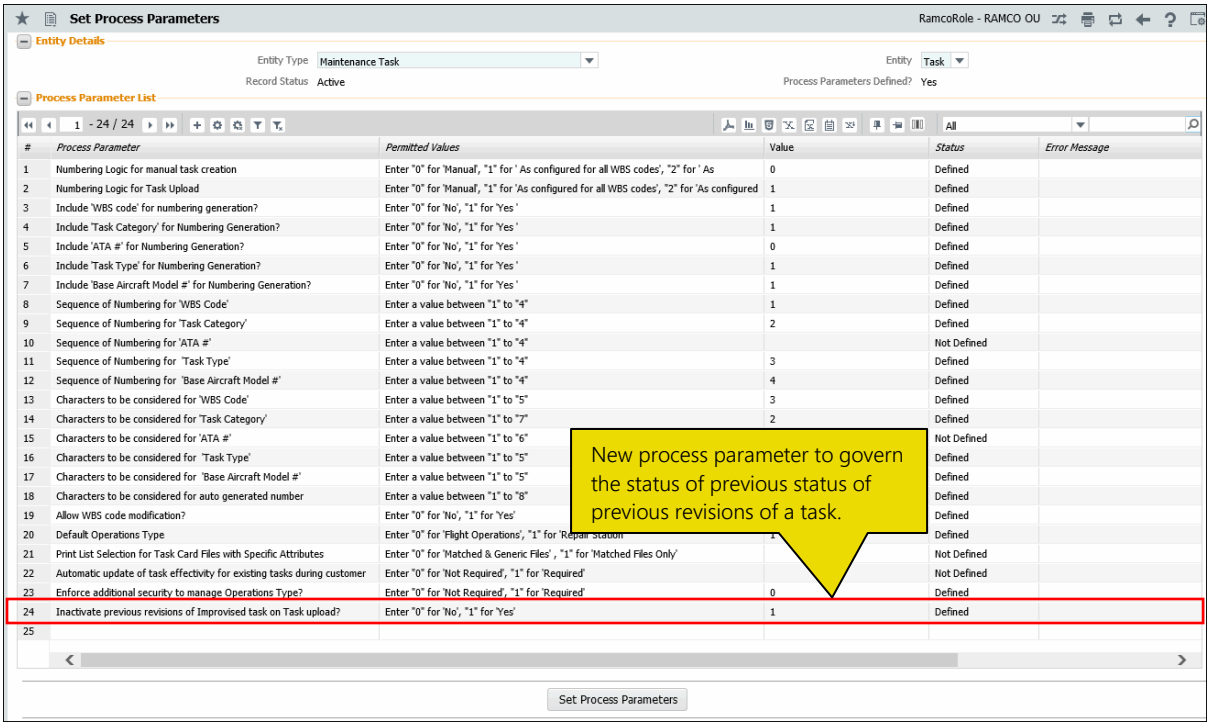
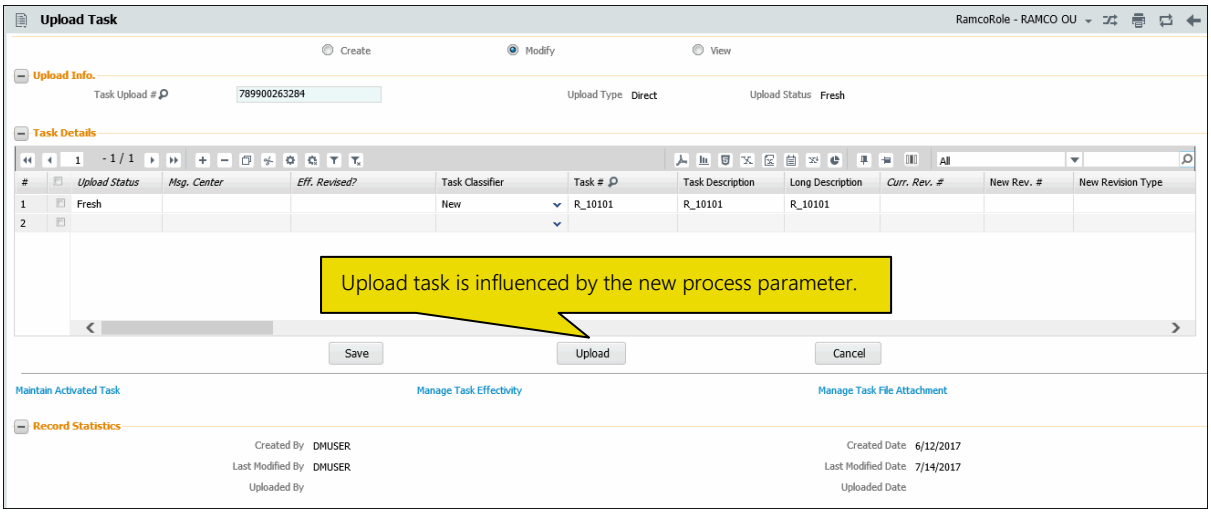


Exhibit 2: The **Upload Task** screen of **Maintenance Task**



WHAT'S NEW IN ENGINEERING DOCUMENT?

Ensuring identical Applicability of MCR and Eng. Doc at the time reference addition

Reference: AHBG-13970

Background

Currently, the system does not validate the applicability of the MCR as against the applicability of the Eng. Doc. when the user updates the 'Reference' details in the Manage Engineering Doc. activity. The system proceeds to save the MCR & updates the Ref. Type as 'Related' along with Associated By/Date. The system must validate and ensure that the applicability of the MCR to be added as reference to the Eng. Doc. in question must be the same as the Eng. Doc. to prevent inconsistencies.

Change Details

With this enhancement, the system will allow association of a MCR to an Eng. Doc. in the Reference tab of the Manage Eng. Doc screen only if the applicability of both the documents is identical. However, this restriction will be implemented based on the definition of two process parameters introduced under the entity type "Eng. Doc. Type" and the entity "All User Defined" in the Define Process Parameters activity of Common Master. The tables below explain the influence of the process parameters on the reference addition for an Eng. Doc.

Process Parameter	Value	Impact
Restrict addition of Aircraft applicable MCR as reference for Component/Engine applicable Eng. Doc.	1	The system restricts the addition of MCR with Applicability as 'Aircraft' to Eng. Doc. with Applicability as 'Component/Engine'.
Restrict addition of Aircraft applicable MCR as reference for Component/Engine applicable Eng. Doc.	0	The system allows the addition of MCR with Applicability as 'Aircraft' to Eng. Doc. with Applicability as 'Component/Engine'.
Restrict addition of Component/Engine applicable MCR as reference for Aircraft applicable Eng. Doc.	1	The system restricts the addition of MCR with Applicability as 'Component/Engine' to Eng. Doc. with Applicability as 'Aircraft'.

Restrict addition of Component/Engine applicable MCR as reference for Aircraft applicable Eng. Doc.	0	The system allows the addition of MCR with Applicability as 'Component/Engine' to Eng. Doc. with Applicability as 'Aircraft'.

Exhibit 1: Identifies the new process parameters in the **Set process Parameters** screen.

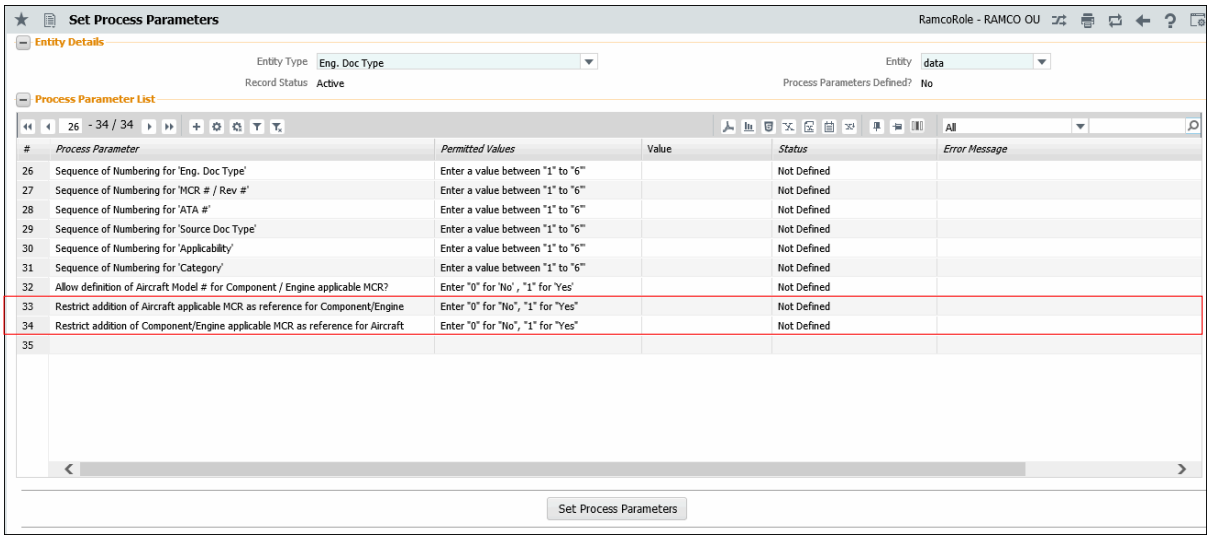
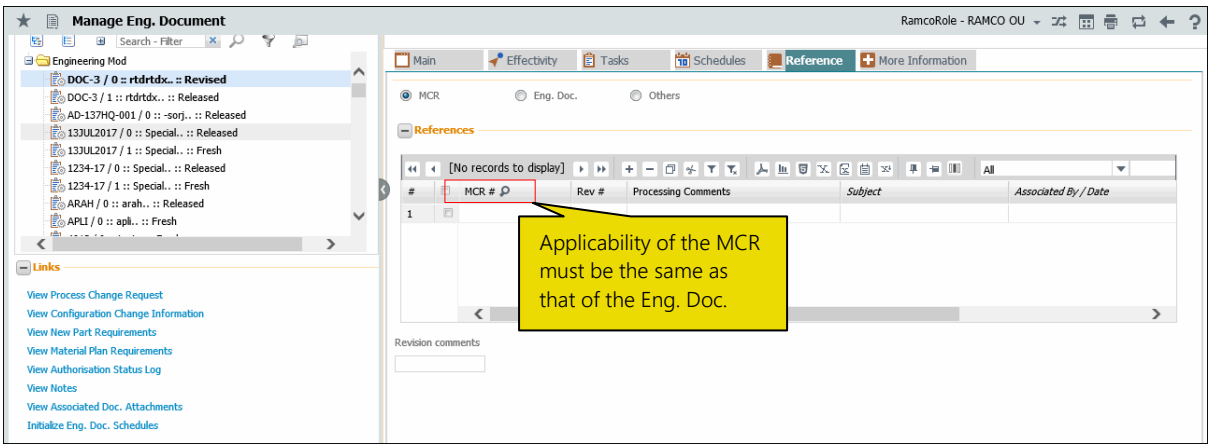


Exhibit 2: The **Reference** tab in the **Manage Engineering Document** screen



WHAT'S NEW IN COMPONENT MAINTENANCE PLANNING?

Retrieve Requested information in Route Unserviceable Components / Parts screen

Reference: AHBG-13650

Background

A part, if removed from an aircraft as 'Unserviceable' is automatically retrieved in the **Route Unserviceable Components/Parts** screen. The Hangar manager then routes the part for internal repair (against a shop work order) or external repair (against a repair order). For deciding on this, he will require in-depth factual details that only the Maintenance planner can provide leading to efficient maintenance execution.

Change Details

As part of this enhancement, the contents of the **Workscoping Comments** field recorded in the **Edit Package Additional Information** page in the **Plan Aircraft Maintenance** activity against the **Component Removal/On Wing** tasks will be defaulted in the **Work Requested** field of the **Component Replacement** tab in the **Record AME Details** screen. This provides background information to the AME regarding the component removal/on-wing task leading to informed decision making. However, the system retrieves Work scoping Comments recorded in the **Edit Package Additional Information** page on launch of the **Record AME Details** screen based on the process parameter "Display Work scoping comments in Work requested field during Component Replacement?" under the entity type 'Package Type' and the entity 'All Packages' in the **Define Process Parameters** activity of Common Master. The following table illustrates the default behavior of the field depending on the process parameter value.

Process parameter value	Impact on default display of the Work Requested field
0 / Not Allowed	The field displays blank.
1 / Allowed for Job Type On-wing	**Workscoping Comments** from the **Edit Package Additional Information** page will be defaulted for tasks/discrepancies with Job Type as On-wing only,
2 / Allowed for Job Type Component Removal	**Workscoping Comments** from the **Edit Package Additional Information** page will be defaulted for tasks / discrepancies with Job Type Component Removal only.

3 / Allowed for Job Type On-wing / Component Removal	**Workscoping Comments** from the **Edit Package Additional Information** page will be defaulted for tasks / discrepancies with Job Type Component Removal or On-wing,

Further, the contents of the **Work Requested** field of the **Component Replacement** tab in turn are also defaulted in the **Route Unserviceable Components / Parts** to aid decisions for Shop Work Order or Repair Order generation.

Additionally, this enhancement introduces a new process parameter 'Print Work Requested in Removal Reason section?' defined under entity type 'Reports' and entity 'Part Tag Report' in the **Define Process Parameters** activity of **Common Master** that will decide upon the inclusion of the "Work Requested" details recorded against the CR # under the **Removal Reason** head in the **Part Tag report**..

Process parameter value	Impact in the Part Tag Report
1/ Yes	The **Work Requested** details are displayed in the **Removal Reason** section.
0 / No	The **Removal Reason** section of the report shows blank

Exhibit 1: The **Set Process Parameters** screen of **Component Replacement** tab in the **Record AME Details** screen

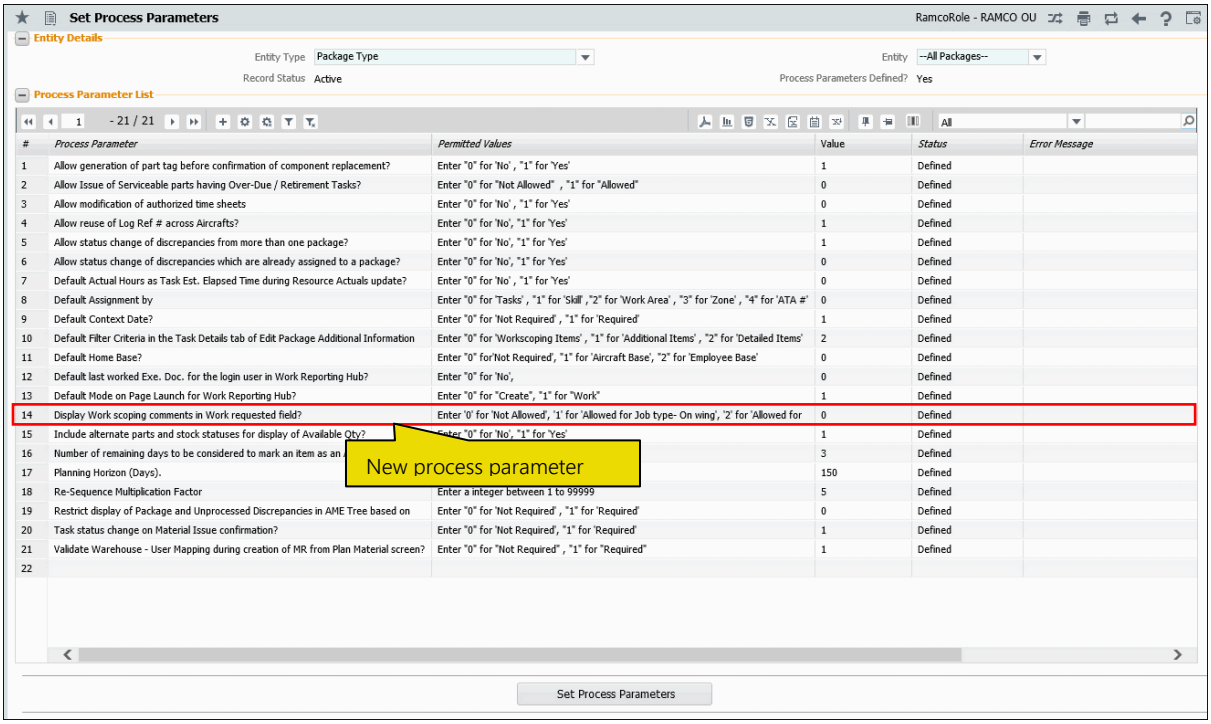


Exhibit 2: The **Record AME Details** screen

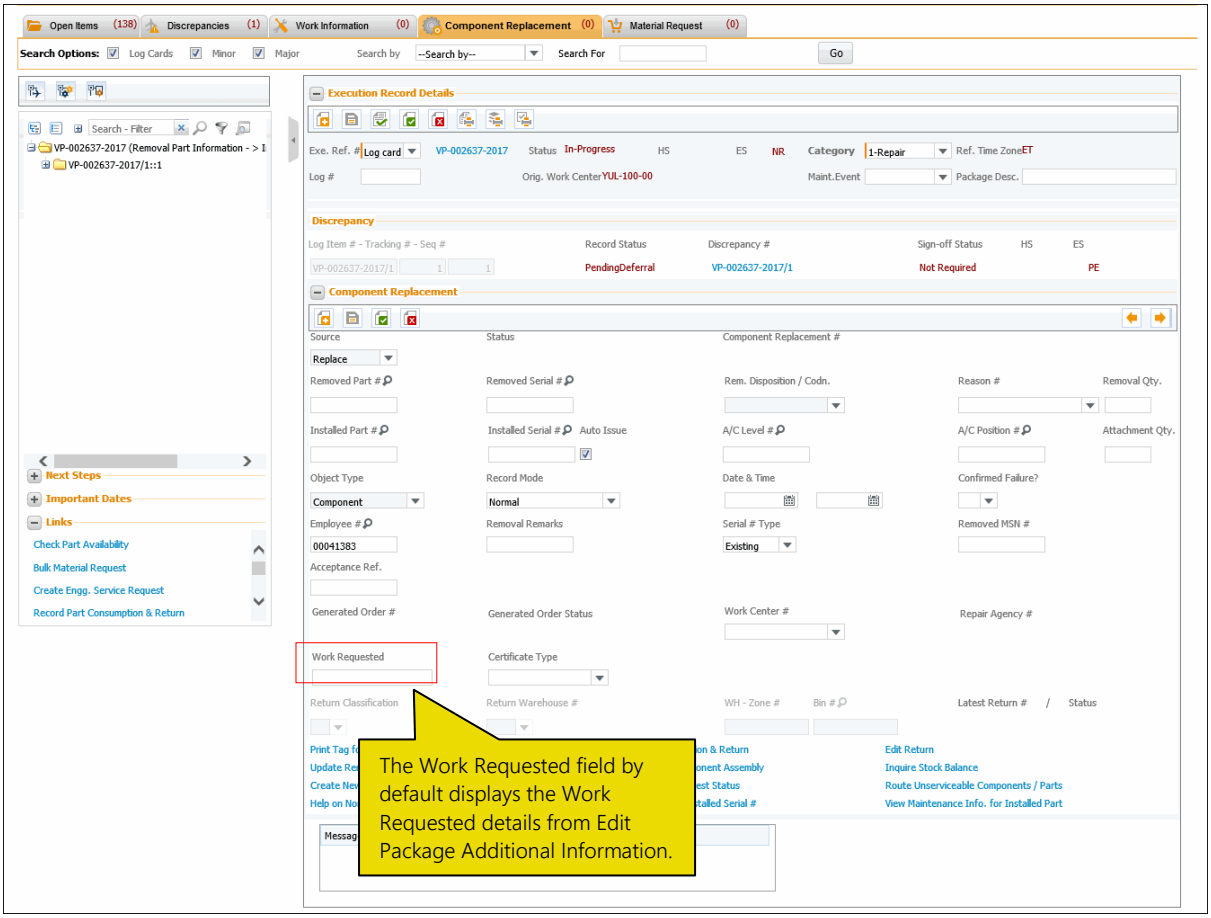


Exhibit 3: The **Route Unserviceable Components / Parts** screen

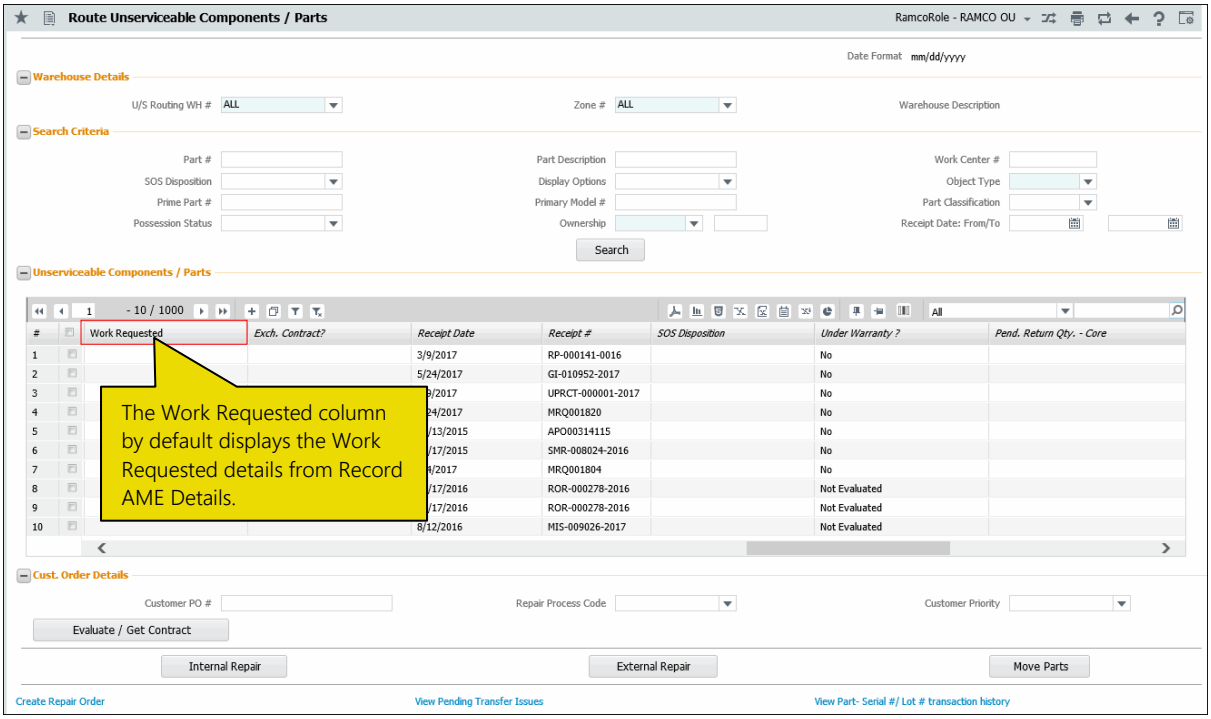
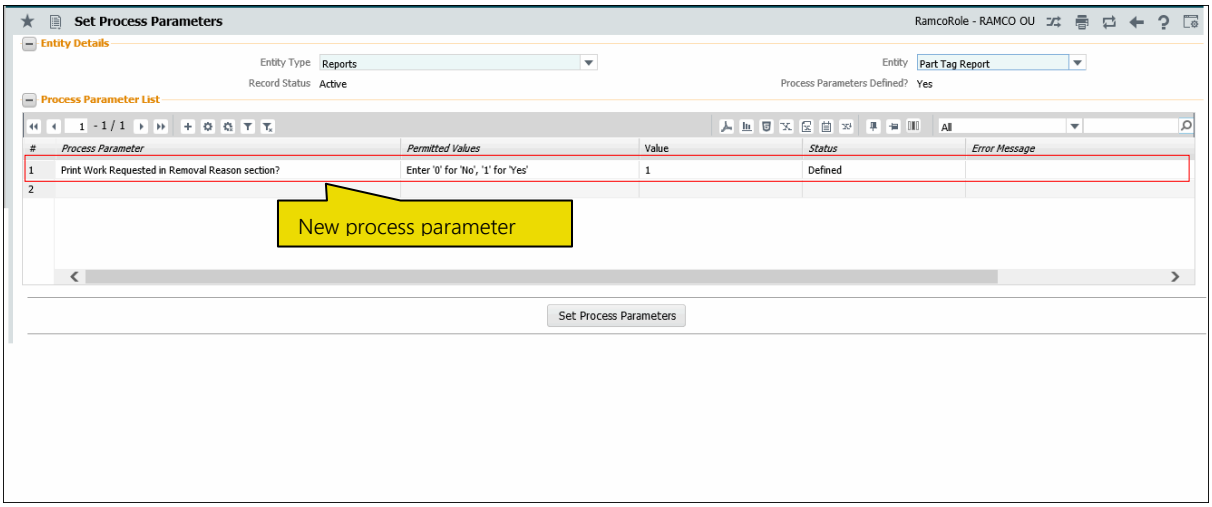


Exhibit 4: The **Set Process Parameters** screen for **Part Tag report**



WHAT'S NEW IN SHOP WORK ORDER?

Ability to indicate the work status for 'Make' Work Orders with in CoM and CoC report

Reference: AHBG-14141

Background

As a part of standard industry practice in Aviation, when a new part is manufactured, the part will be identified as "Prototype" and the organization will request for its approval from concerned regulatory authorities. On receipt of approval the part will be identified as 'New'. Prior to the approval, the work status of the shop work order for the manufactured part should be displayed as 'Prototype' and upon approval the work status should be replaced as 'New' in the Certificates of Maintenance and Conformity.

Change Details

In the Issue Certificates screen, the following changes have been incorporated to indicate the work status of the shop work orders with job type as 'Make' for the manufactured parts:

- In the Certificate of Maintenance tab, the following check boxes have been added:
  - New: Indicates the part has been approved for use.
  - Prototype: Indicates the part is awaiting approval for use.
- In the Certificate of Conformity tab, the following check boxes have been added:
  - New: Indicates the part has been approved for use.
  - Prototype: Indicates the part is awaiting approval for use.
  - Fabricated: Indicates the part has been fabricated.
  - Modified: Indicates the part has been modified to create a variant of the part.

Note: The system allows users to select the above check boxes only for work orders of job type 'Make' in both Certificate of Maintenance and Certificate of Conformity tabs.

Further, as part of the enhancement, a process parameter "Auto-selection of Work Status for work orders with Job Type 'Make' during issue certificates?" under the entity type Shop Work Order and entity User-Defined Values in the Define Process Entities activity of Common Master has been added to default the selection of the Inspect, Repair, Overhaul, and Modify check boxes based on the job type of work orders in the Certificate of Maintenance tab.

The following table illustrates the functioning of the process parameter.

Process parameter Value	Impact
1	The Inspect, Repair, Overhaul, and Modify checkboxes remain selected on launch of the page depending on Work Status/Repair Process Code of the work order.
0	The Inspect, Repair, Overhaul, and Modify checkboxes remain blank.

Exhibit 1: Identifies the check boxes introduced in the **Certificate of Maintenance** tab of the **Issue Certificates** screen

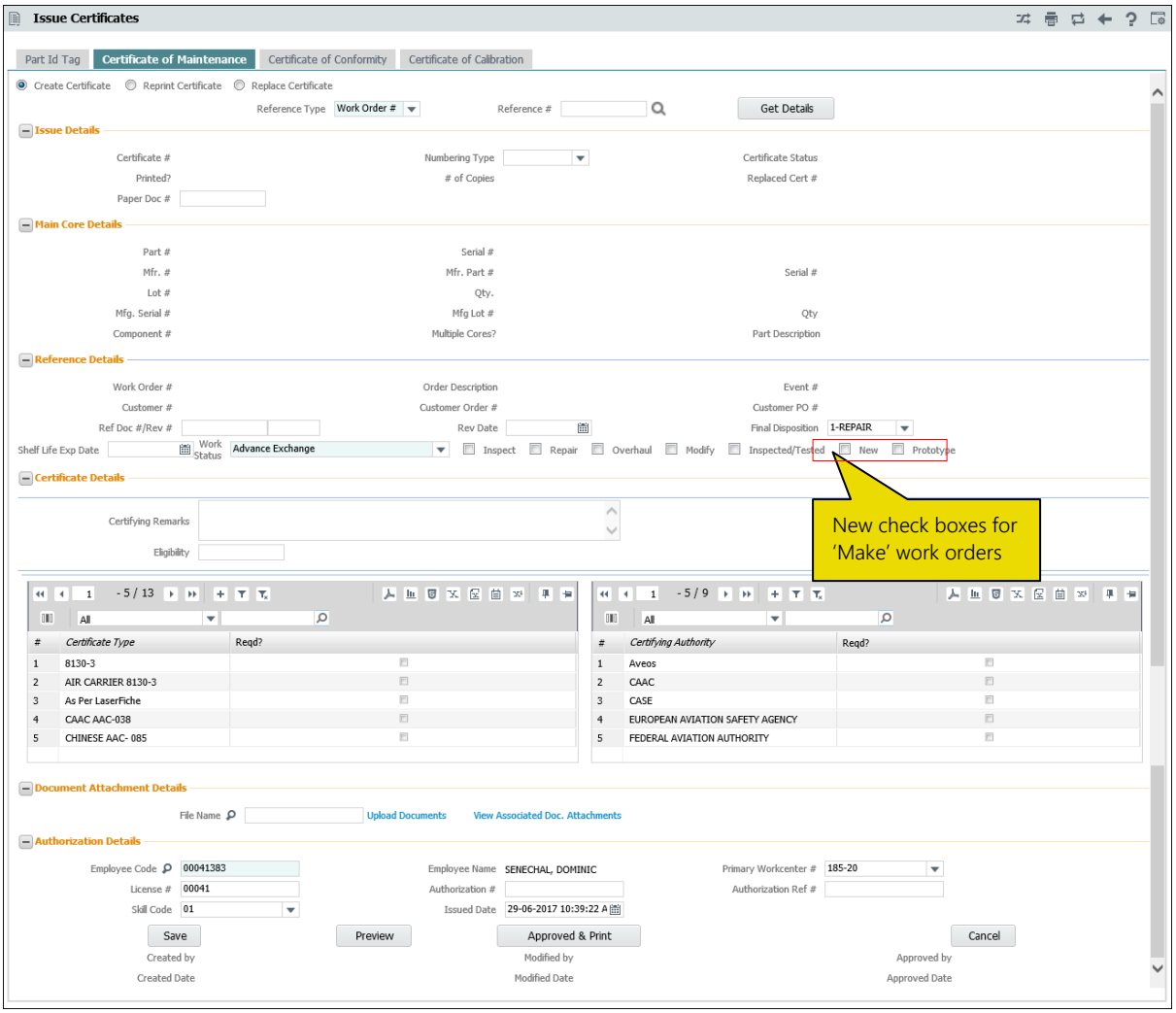


Exhibit 2: Identifies the check boxes introduced in the **Certificate of Conformity** tab of the **Issue Certificates** screen

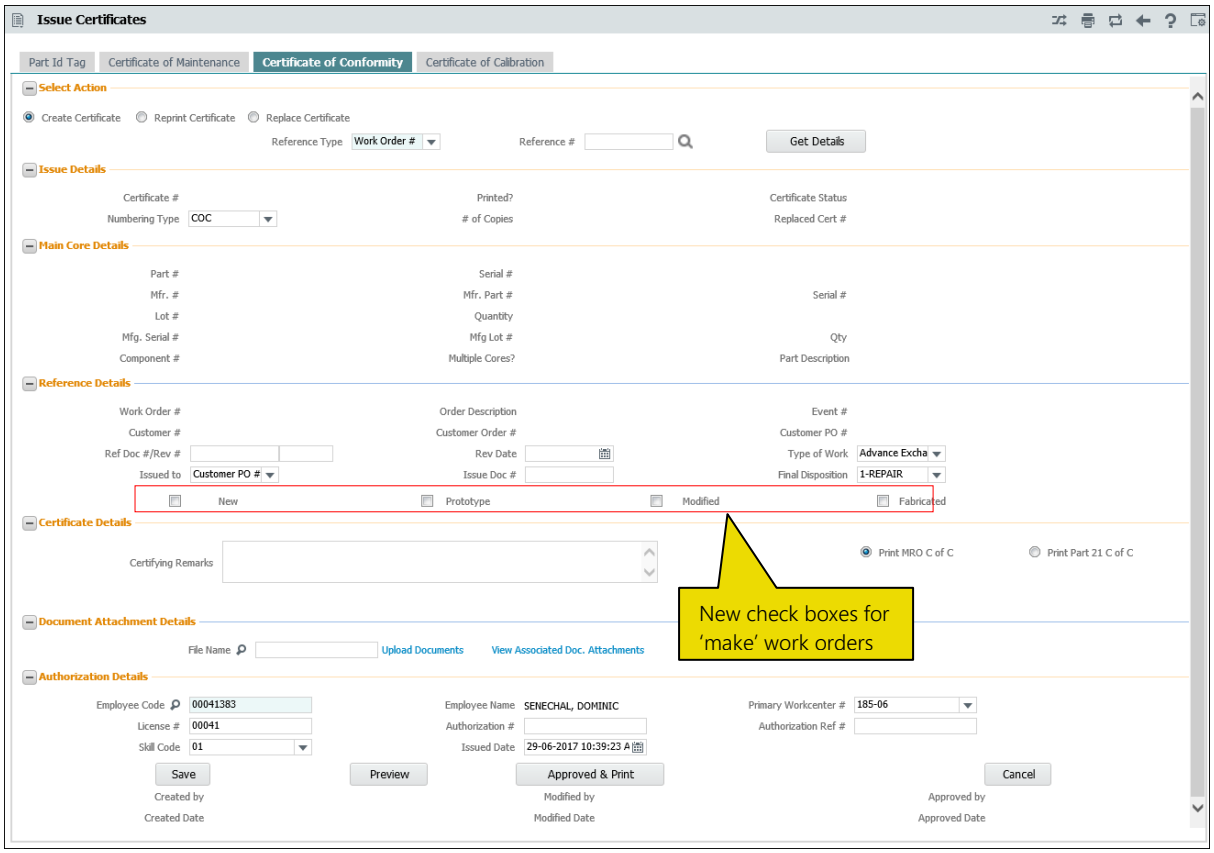
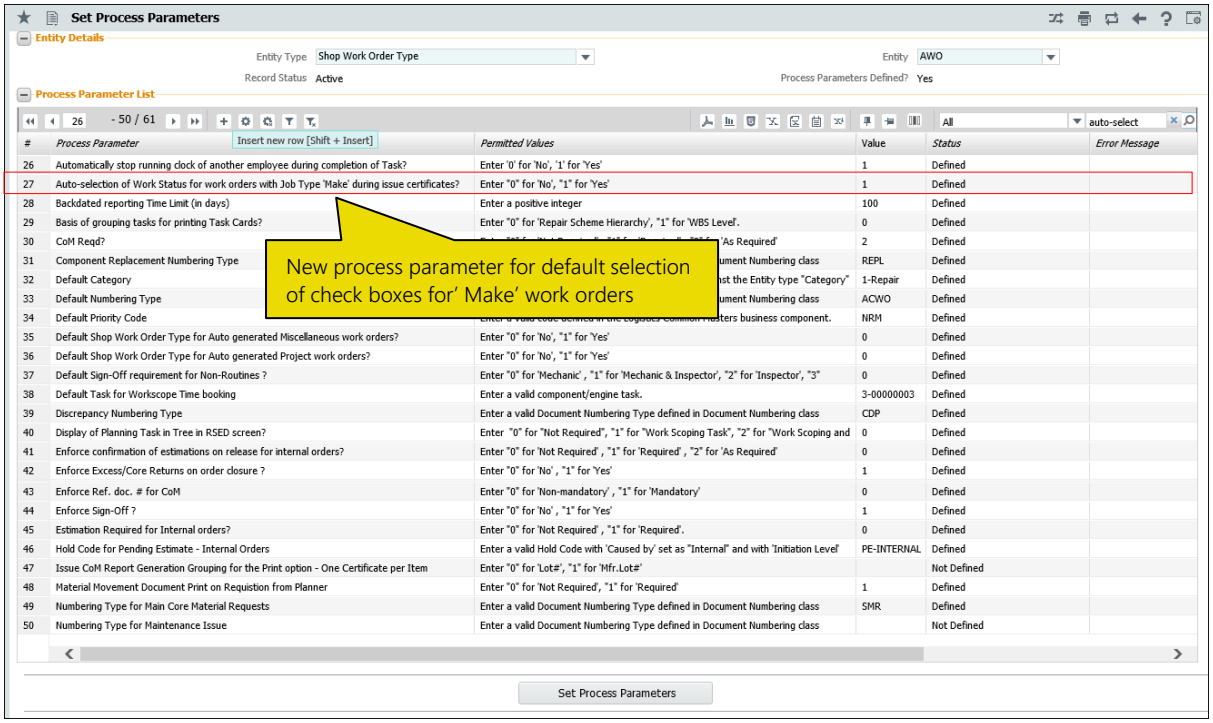


Exhibit 3: Identifies the process parameter introduced in the **Define Process Parameters** screen of Common Master



#	Process Parameter	Permitted Values	Value	Status	Error Message
26	Automatically stop running clock of another employee during completion of Task?	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
27	Auto-selection of Work Status for work orders with Job Type 'Make' during issue certificates?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
28	Backdated reporting Time Limit (in days)	Enter a positive integer	100	Defined	
29	Basis of grouping tasks for printing Task Cards?	Enter "0" for 'Repair Scheme Hierarchy', "1" for 'WBS Level'.	0	Defined	
30	CoM Reqd?	'As Required'	2	Defined	
31	Component Replacement Numbering Type	ument Numbering class	REPL	Defined	
32	Default Category	st the Entity type "Category"	1-Repair	Defined	
33	Default Numbering Type	ument Numbering class	ACWO	Defined	
34	Default Priority Code	sters business component.	NRM	Defined	
35	Default Shop Work Order Type for Auto generated Miscellaneous work orders?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
36	Default Shop Work Order Type for Auto generated Project work orders?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
37	Default Sign-Off requirement for Non-Routines ?	Enter "0" for 'Mechanic' , "1" for 'Mechanic & Inspector', "2" for 'Inspector', "3"	0	Defined	
38	Default Task for Workscope Time booking	Enter a valid component/engine task.	3-00000003	Defined	
39	Discrepancy Numbering Type	Enter a valid Document Numbering Type defined in Document Numbering class	CDP	Defined	
40	Display of Planning Task in Tree in RSED screen?	Enter "0" for "Not Required", "1" for "Work Scoping Task", "2" for "Work Scoping and	0	Defined	
41	Enforce confirmation of estimations on release for internal orders?	Enter "0" for 'Not Required' , "1" for 'Required' , "2" for 'As Required'	0	Defined	
42	Enforce Excess/Core Returns on order closure ?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
43	Enforce Ref. doc. # for CoM	Enter "0" for 'Non-mandatory' , "1" for 'Mandatory'	0	Defined	
44	Enforce Sign-Off ?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
45	Estimation Required for Internal orders?	Enter "0" for 'Not Required' , "1" for 'Required'.	0	Defined	
46	Hold Code for Pending Estimate - Internal Orders	Enter a valid Hold Code with 'Caused by' set as "Internal" and with 'Initiation Level'	PE-INTERNAL	Defined	
47	Issue CoM Report Generation Grouping for the Print option - One Certificate per Item	Enter "0" for 'Lot#', "1" for 'Mfr.Lot#'		Not Defined	
48	Material Movement Document Print on Requistion from Planner	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined	
49	Numbering Type for Main Core Material Requests	Enter a valid Document Numbering Type defined in Document Numbering class	SMR	Defined	
50	Numbering Type for Maintenance Issue	Enter a valid Document Numbering Type defined in Document Numbering class		Not Defined	

WHAT'S NEW IN AIRCRAFT MAINTENANCE PLANNING?

Enhancements in Daily Planning Report

Reference: AHBG-14602

Background

Maintenance planners have the prime responsibility to schedule the due tasks and send the schedule details to the relevant work center on a daily basis for execution. The Daily Planning report helps planners and AMEs in planning and execution of tasks in the requested work center spanning a specified period. However, the start and end dates of the planning period for packages were not available in the report as was the rationale behind the scheduling of packages in the work center. Further, the report contained the entire tasks in the scheduled package, which could make the report lengthy or may not be necessary in certain situations.

Change Details

This enhancement will enable the Daily Planning report to display the following additional details:

- Planned Date From and Planned Date To for the package
- Comments for each task in the package and, If multiple comments have been recorded for a task, they will be displayed in the chronological order.

Included in this enhancement is also an option in the form of the "Show Related Tasks" check box to retrieve in the report only the parent tasks from the packages scheduled in the given period at the selected work center. Users may choose to retrieve parent tasks alone and not the related tasks by leaving the check box blank. Conversely, selection of the check box would show related tasks in addition to parent tasks in the report.

Example: T1 is the primary block task and T2 is a base task of T2 and T2 has Concurrent Exe. Specific relationship with T3 (related task). T1, T2 and T3 are packaged to P1.

If the checkbox 'Show Related Tasks' is checked, the T1, T2 and T3 tasks from the package P1 will be retrieved in the report. If the checkbox 'Show Related Tasks' is not selected, only the T1 task from the package P1 will be displayed in the report.

Next, a new column 'Comments' has been added in the Daily Planning report to display the planner / execution comments recorded at the time of creating the package in the Plan Aircraft Maintenance screen of Aircraft Maintenance Planning or Record AME Details screen of Aircraft Maintenance Execution.

The planner comments would reveal the reasoning behind the task scheduling to the AME in the work center. However, the 'Comments' column in the report has been made optional depending on the process parameter "Display Comments?" under the entity type "Reports" and entity "Daily Planning Report" in the Define Process Parameters activity of Common Master.

The table below illustrates the impact of the process parameter on the 'Comments' column.

Process Parameter "Display Comments?" value	Impact in the Daily Planning Report
1	Displays the "Comments" column
0	Hides the "Comments" column

Exhibit 1: Identifies the changes in **Daily Planning Report** entry screen

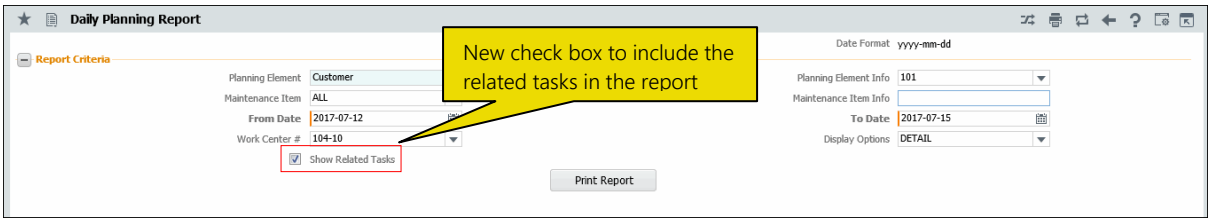
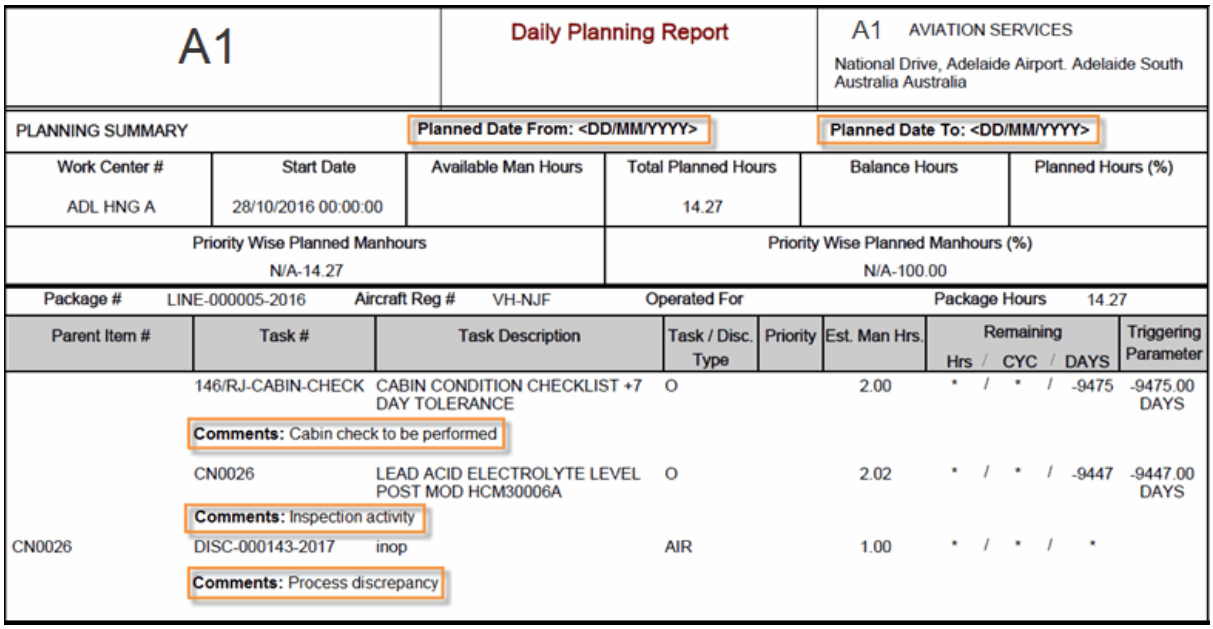


Exhibit 2: Daily Planning Report



A1 | Daily Planning Report | A1 AVIATION SERVICES
National Drive, Adelaide Airport. Adelaide South Australia Australia

PLANNING SUMMARY | Planned Date From: <DD/MM/YYYY> | Planned Date To: <DD/MM/YYYY>

Work Center #	Start Date	Available Man Hours	Total Planned Hours	Balance Hours	Planned Hours (%)
ADL HNG A	28/10/2016 00:00:00		14.27		

Priority Wise Planned Manhours	Priority Wise Planned Manhours (%)
N/A-14.27	N/A-100.00

Package # LINE-000005-2016 Aircraft Reg # VH-NJF Operated For Package Hours 14.27

Parent Item #	Task #	Task Description	Task / Disc. Type	Priority	Est. Man Hrs.	Remaining Hrs / CYC / DAYS	Triggering Parameter
	146/RJ-CABIN-CHECK	CABIN CONDITION CHECKLIST +7 DAY TOLERANCE	O		2.00	* / * / -9475	-9475.00 DAYS
	Comments: Cabin check to be performed						
	CN0026	LEAD ACID ELECTROLYTE LEVEL POST MOD HCM30006A	O		2.02	* / * / -9447	-9447.00 DAYS
	Comments: Inspection activity						
CN0026	DISC-000143-2017	inop	AIR		1.00	* / * / *	
	Comments: Process discrepancy						

Packaging multiple instances of Task

Reference: AHBG-15055

Background

Currently, the users can create multiple packages with an instance of the same task in **Aircraft Maintenance Planning**. However, the system allows for the release of a package with an instance of a task only if the previous instances of the same task have already been complied. However, in certain scenarios, (elaborated later in the document) it may become inevitable to package and release a task even when the previous instances of the task are due or not complied yet.

Change Details

In order to facilitate the release of a package with a task ahead of packages comprising previous instances of the same task based on user discretion, a new process parameter 'Allow release of Package with a task whose previous instance(s) is not complied?' has been created under the entity type "Maintenance Planning" and entity "Aircraft Maint. Planning" combination in the **Define Process Parameters** activity of **Common Master**. The process parameter decides whether a package with a task whose previous instances have not been complied yet can be released.

Process Parameter Value	Impact on release of the package
1/Yes	Any instance of the packaged task can be released for execution regardless of the chronological order of the planned execution in 'Planned' status.
0/No	The user has to release the package for execution containing the earlier instance of the task first. Instances of the task must be complied with in the chronological order of planned execution.

Scenario:

- Service Check is due once every seven days: 1st, 8th, 15th, 22nd and 29th of each month on an aircraft.
- Major packages are planned in advance and one such major package comprises the 5th instance of Service Check that is due for compliance on 29th of the month.

- In such a situation, the major package cannot be released, if the compliance of the previous Service Check scheduled on 22nd or even earlier has not been complied. To ensure that such major checks well-planned in advance are released even when the earlier instances of the tasks are not yet complied, it was necessary that the condition on the compliance of the earlier instances of a task to release a package with a later instance of the task be relaxed.

Exhibit 1: The **Set Process Parameters** screen of the **Define Process Parameters** activity in **Common Master**

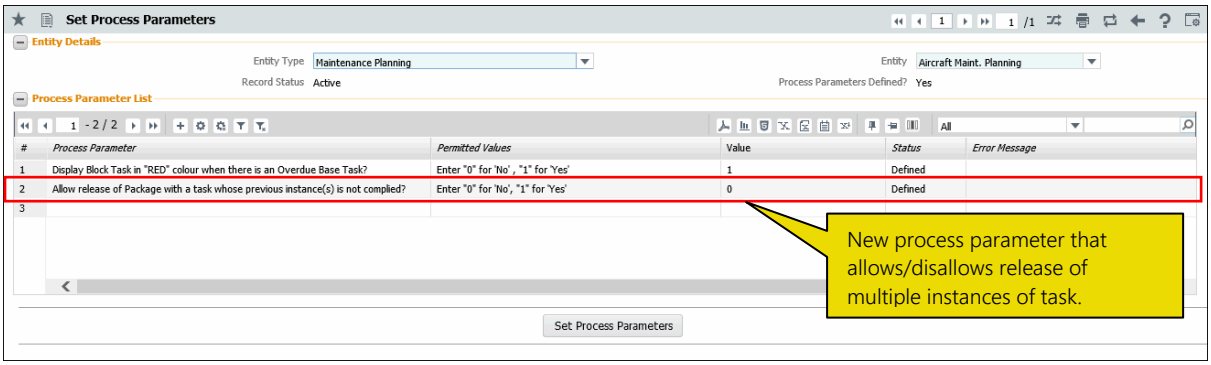
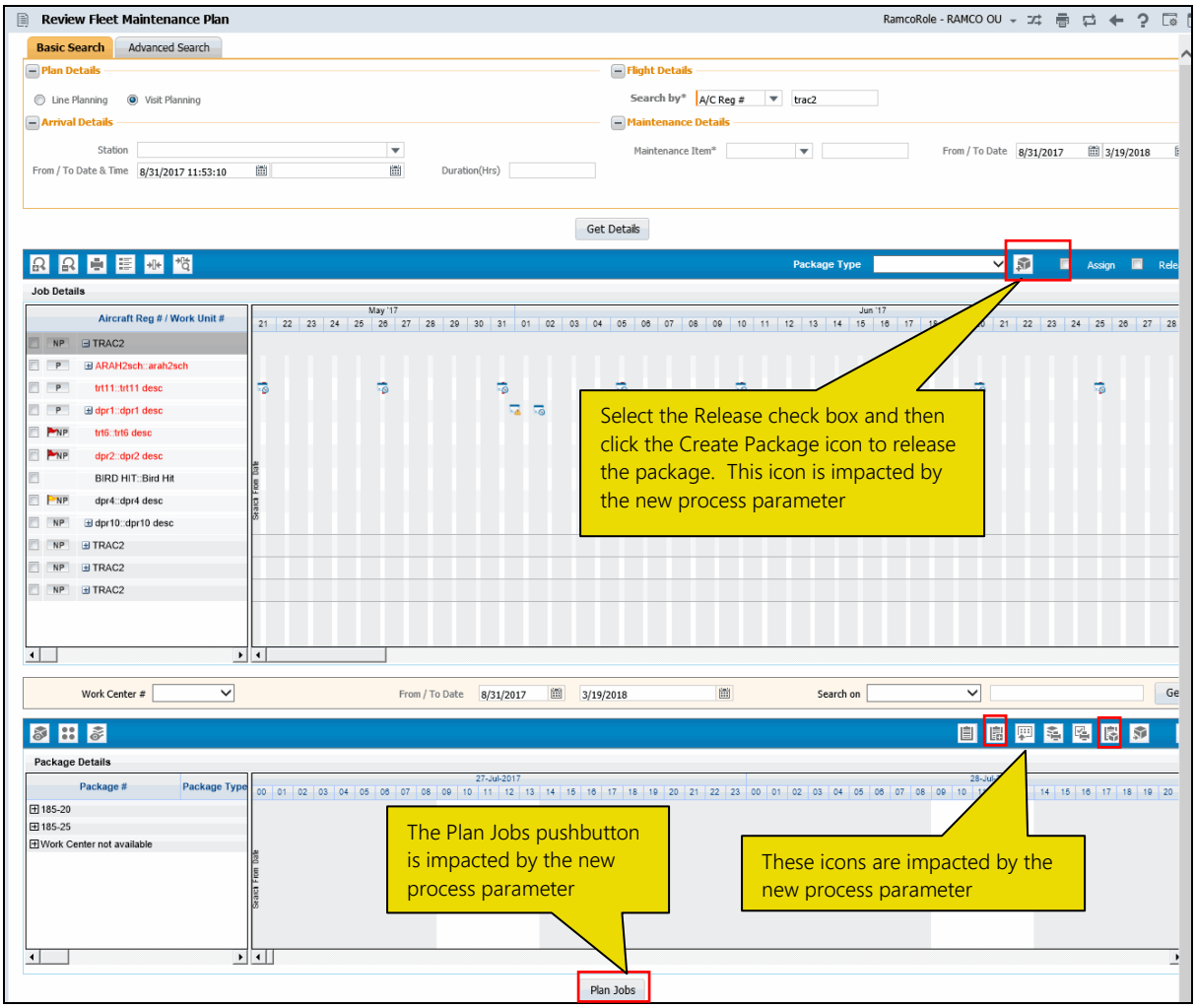


Exhibit 2: The **Review Fleet Maintenance Plan** screen of **Maintenance Planning**



What's New in Ramco ePublications?

Ability to Generate Manufacturing Work Package Report

Reference: AHBG-15815

Background

Whenever a manufacturing work package is planned, a work package print will be taken with all the necessary details to support the work execution. This should include all the details regarding the part to be manufactured, its Bill of Material (BOM) and task details as per the defined process plan.

Change Details

Ramco ePublications is enhanced to generate work package report as per the specification to meet the manufacturing process.

Exhibit 1: Work Package report template

Based on the Job Type, Manufacturing Work Package will be generated in customized format

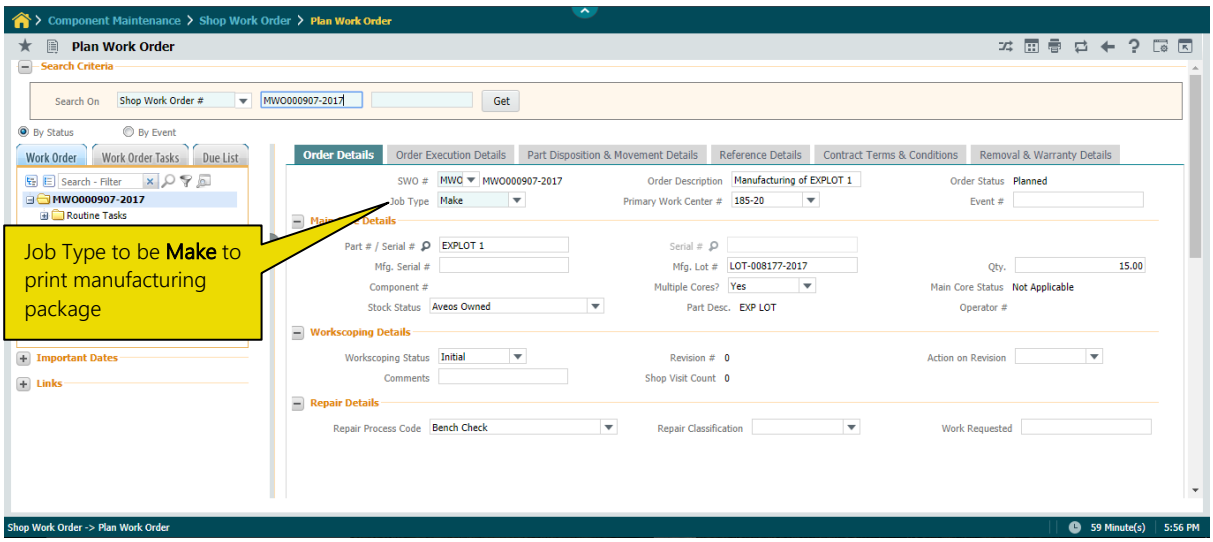
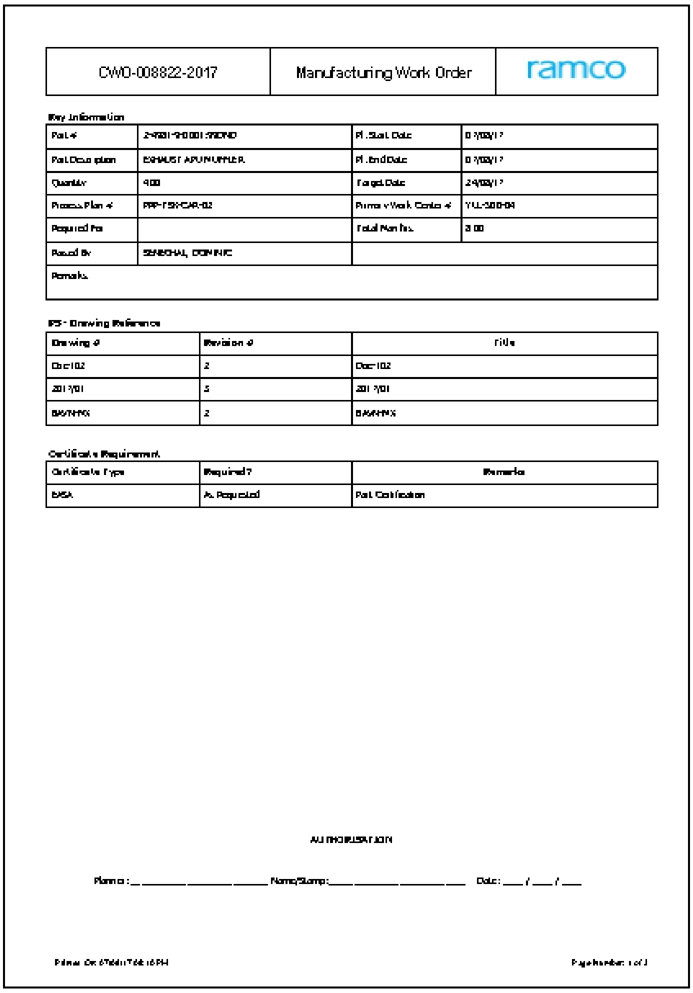


Exhibit 2: Manufacturing Package details



CWO-008822-2017	Manufacturing Work Order	ramco

Key Information

Part #	[illegible]	Pl. Start Date	07/02/17
Part Description	EXHAUST APU MUFFLER	Pl. End Date	07/02/17
Quantity	400	Target Date	24/02/17
Process Plan #	PPP-TSX-CAR-02	Primary Work Center #	YUL-300-04
Required For		Total Man hrs.	3.00
Raised By	SENECHAL, DOMINIC		
Remarks			

PS - Drawing Reference

Drawing #	Revision #	Title
Doc102	2	Doc102
2017/01	5	2017/01
BAV-NMX	2	BAV-NMX

Certificate Requirement

Certificate Type	Required?	Remarks
EASA	As Requested	Part Certification

AUTHORISATION

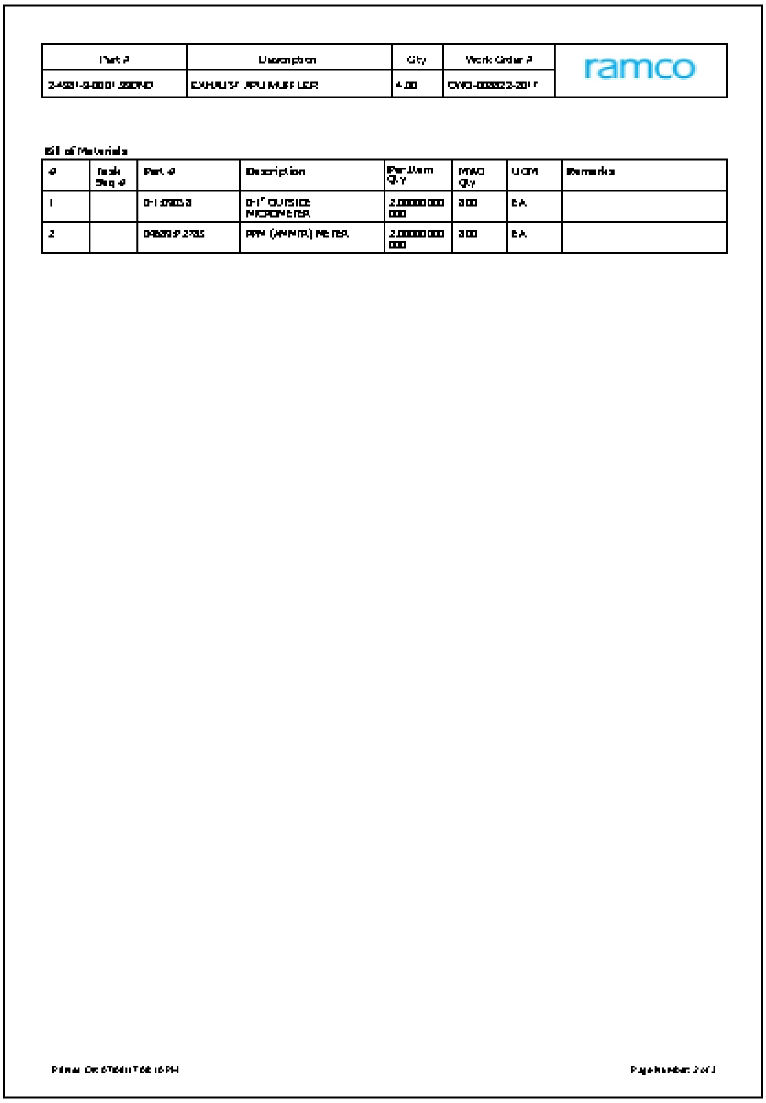
Planner: ________________ Name/Stamp: ________________ Date: ___ / ___ / ___

Printed On: [illegible] Page Number: 1 of 1

Task Card section is printed with the following key info,

- Details about package in Header section.
- Drawing reference detail of product structure
- Certification requirement of the work order

Exhibit 3: Manufacturing Bill of Material (BOM)



Part #	Description	Qty	Work Order #
[illegible]	EXHAUST APU MUFFLER	4.00	[illegible]

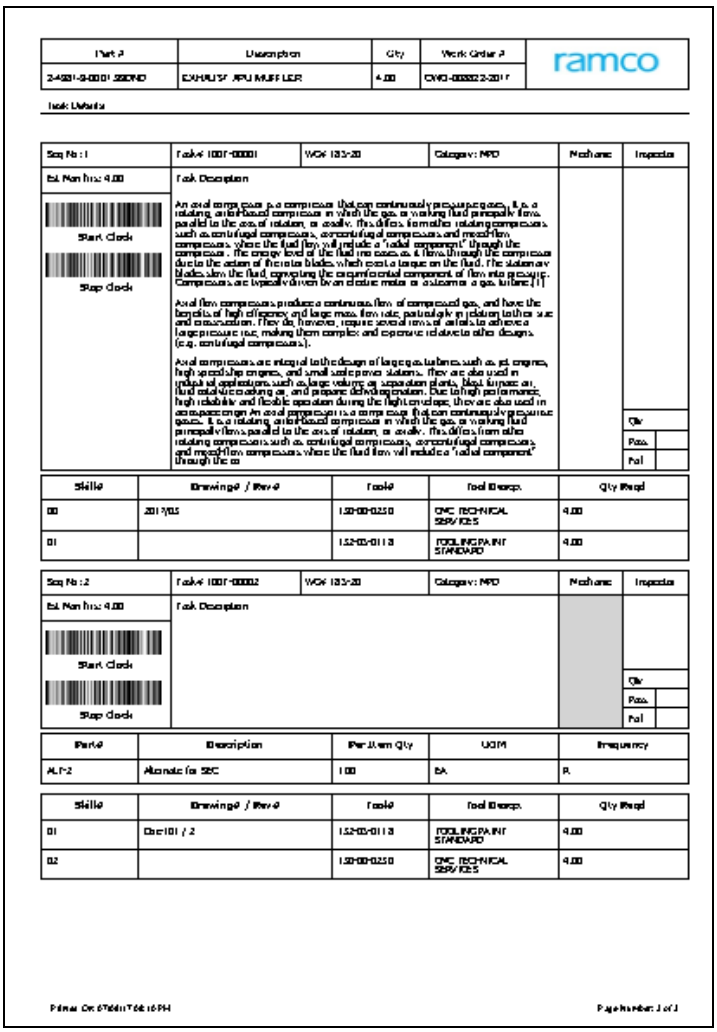
Bill of Materials

#	Task Seq #	Part #	Description	Per Item Qty	MWO Qty	UOM	Remarks
1		[illegible]	0-1" OUTSIDE MICROMETER	2.00000000000	[illegible]	EA	
2		[illegible]	RPM (AMMTR) METER	2.00000000000	[illegible]	EA	

BOM section is printed with the following key info,

- This section will list the Bill of Materials for the part number to be manufactured.

Exhibit 4: Manufacturing Task details



Part #	Description	Qty	Work Order #
2-4331-9-0001 SSDND	EXHAUST APU MUFFLER	4.00	CWO-00002-2017

Task Details

Seq No : 1	Task# 1001-00001	WO# 133-20	Category: MPD	Mechanic	Inspector
Est Man hrs: 4.00	Task Description				
Start Clock	An axial compressor is a compressor that can continuously pressurize gases. It is a rotating, aerodynamic compressor in which the gas or working fluid principally flows parallel to the axis of rotation, or axially. This differs from other rotating compressors such as centrifugal compressors, centrifugal compressors and mixed-flow compressors, where the fluid flow will include a "radial component" through the compressor. The energy level of the fluid increases as it flows through the compressor due to the action of the rotor blades, which exert a torque on the fluid. The stationary blades slow the fluid, converting the circumferential component of flow into pressure. Compressors are typically driven by an electric motor or a steam or a gas turbine.[1]				
Stop Clock	Axial flow compressors produce a continuous flow of compressed gas, and have the benefits of high efficiency and large mass flow rate, particularly in relation to their size and cross-section. They do, however, require several rows of aerofoils to achieve a large pressure rise, making them complex and expensive relative to other designs (e.g. centrifugal compressors).				Qty
	Axial compressors are integral to the design of large gas turbines such as jet engines, high speed ship engines, and small scale power stations. They are also used in a host of applications such as large volume gas separation plants, blast furnace air, fluid catalytic cracking air, and propane dehydrogenation. Due to high performance, high reliability and flexible operation during the flight envelope, they are also used in aerospace engines. An axial compressor is a compressor that can continuously pressurize gases. It is a rotating, aerodynamic compressor in which the gas or working fluid principally flows parallel to the axis of rotation, or axially. This differs from other rotating compressors such as centrifugal compressors, centrifugal compressors and mixed-flow compressors, where the fluid flow will include a "radial component" through the co				Pass
					Fail

Skill#	Drawing# / Rev#	Tool#	Tool Descp.	Qty Req'd
00	2013/05	150-00-0250	CNC TECHNICAL SERVICES	4.00
01		152-00-0113	TOOLING PAINT STANDARD	4.00

Seq No : 2	Task# 1001-00002	WO# 133-20	Category: MPD	Mechanic	Inspector
Est Man hrs: 4.00	Task Description				
Start Clock					Qty
Stop Clock					Pass
					Fail

Part#	Description	Per Item Qty	UOM	Frequency
ALT-2	Alternate for SEC	1.00	EA	R

Skill#	Drawing# / Rev#	Tool#	Tool Descp.	Qty Req'd
01	Doc101 / 2	152-00-0113	TOOLING PAINT STANDARD	4.00
02		150-00-0250	CNC TECHNICAL SERVICES	4.00

Printed On: 6/7/2017 7:56:16 PM

Page Number: 1 of 1

Task detail section is printed with the following key info,

- Details about the task main information
- Bar code action Start/Stop clock
- Sign off requirement of the task
- Part requirement details of the task
- Tool requirement, Skill & drawing details of the task

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