

RAMCO AVIATION SOLUTION

ENHANCEMENT NOTIFICATION

Version 5.8.7

Maintenance

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WHAT'S NEW IN NOTIFICATIONS & ALERTS?

Alert, Notification and Action (ANA) in Maintenance

Reference: AHBG-29217, AHBG-27310

Background

To enhance the Aircraft Maintenance process, the Notification feature has been designed and developed in the **Ramco Aviation** suite to notify planners / mechanics. These notifications aim to make the aircraft maintenance process intuitive thereby making the planning and execution tasks easier. Notifications are essentially precise messages/alerts that popup on the screens prompting the planners / mechanics to perform specific actions in current time. Examples of notifications include: alerting the planners on release of a package for execution, informing a mechanic on assignment of a task / discrepancy, notifying the Engineering department staff that the parts against an aged MR have been received in the stores.

Change Details

How to access Notifications:

In the **Desktop** system, the users can click the bell icon  at the top of the application to open **My Inbox**. The icon also displays the current count of unread notification messages. The users can access the entire list of messages from **My Inbox** and proceed to act on them. In case of **Mobile application**, notification will be sent only to registered users identified as those who have logged into the device at least once.

Prerequisites for enabling Notifications:

A. Set Options:

The Notification feature is enabled based on process parameter settings defined under the **Entity Type** 'Notifications' in the **Define Process Entities** activity in **Common Master** business component. Each notification is dependent on a specific process parameter and will be triggered only if the process parameter is set as '1' (Yes). All these process parameters are controlled by a global process parameter 'Enables Notifications?' defined under the **Entity** 'Notifications' and **Entity Type** 'General' in the **Define Process Entities** activity. Only if this global set option is set as 'Yes', the parameters specific to the notifications can be enabled.

B. Configuration Setup:

The configuration Setup requirements for enabling the Notification features are defined in the following documents which will be available in the Maintenance Release:

- Ramco Notifications Service - Overview and Developer Usage.docx
- How-To-Setup.docx
- Steps to be followed in FCM Console.docx

C. Scheduler Details:

Notifications will be triggered by an offline scheduler 'CMN_Notification_Schedular_sp' defined in the document 'Trn-Bsg-EAR5.8.7-SchedulerList.xlsx' which will be available in the Maintenance Release.



Note: Please contact Ramco Support for further details of Configuration Setup Requirements and Scheduler details.

Exhibit 1: Identifies the Bell icon in the Ramco Aviation desktop suite

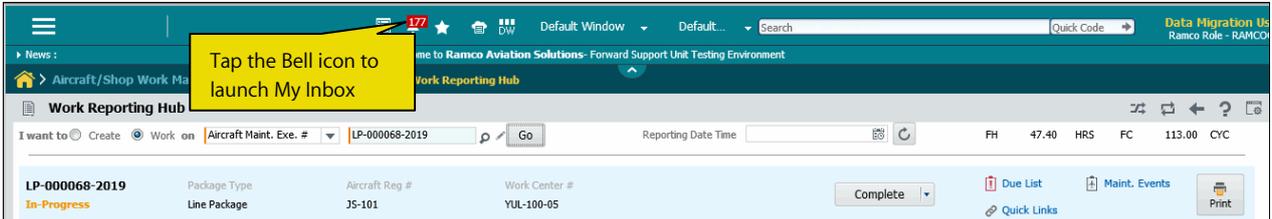


Exhibit 2: Identifies the global process parameter defined in the Set Process Parameters activity of Common for enabling the individual notifications

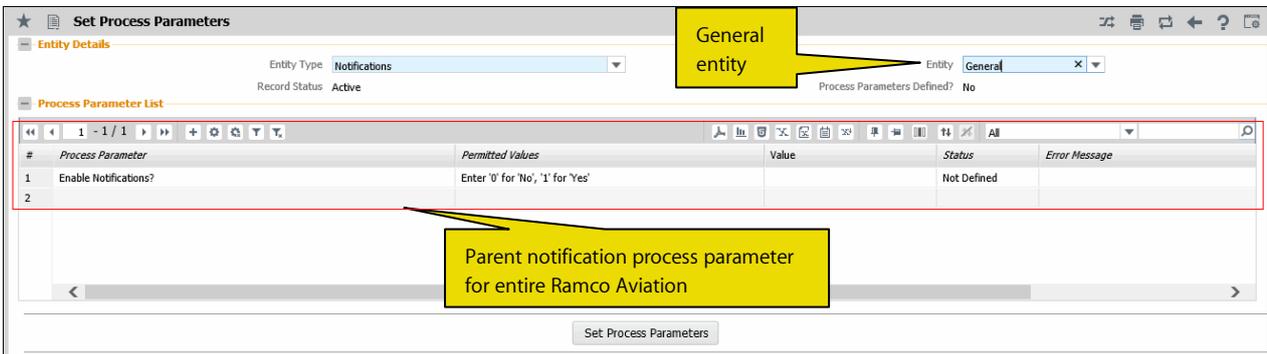
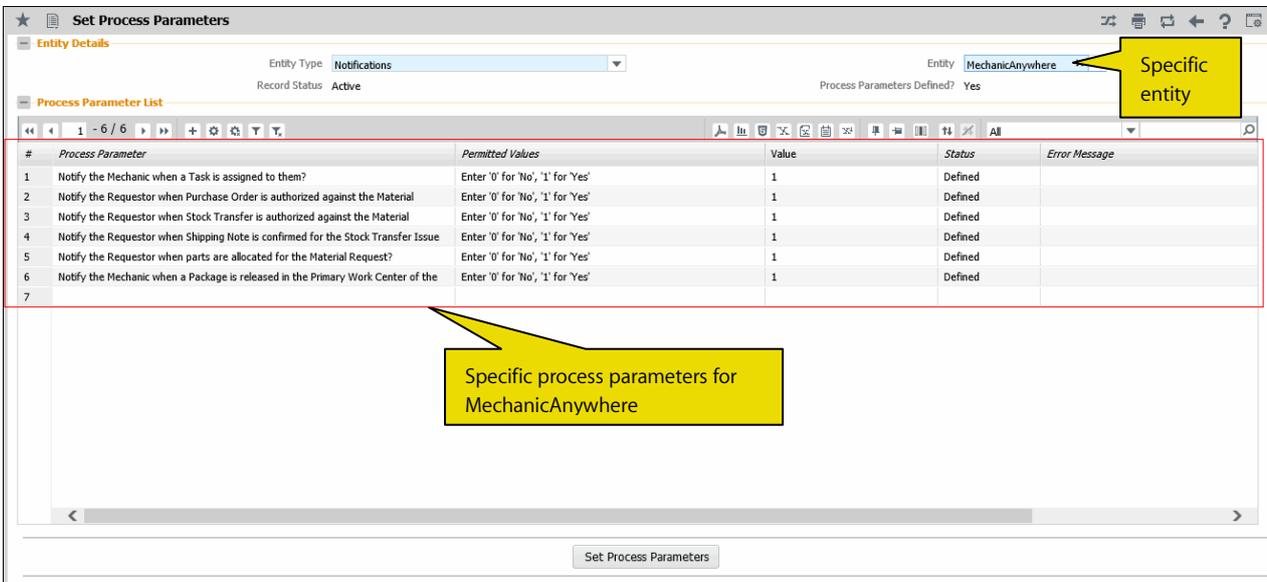


Exhibit 3: Identifies the specific process parameters defined in the Set Process Parameters activity of Common for enabling the individual notifications



The **Notification** details, event, role applicable, target application (Desktop/mobile), sample notification messages, message recipients, related action and process parameter for each notification are explained next:

1. **Release of a Package for Execution:**

Description	To notify the Mechanic that a package has been released for execution
Event / Condition	<u>Event:</u> Release of package from Review Fleet Maintenance Plan screen <u>Condition:</u> The package must have been released from Review Fleet Maintenance Plan screen
Target Application	MechanicAnywhere
User Identification	All those users who have the Work Center # (in which the Package is released) selected in the MechanicAnywhere app settings
Sample Notification Message	Package # "VP-031500-2018" is released for the Aircraft Reg. # "VT-017" in the Work Center # "185-20" for execution
Action Type on Notification	Tap-Go To UI
Action	Launch the eLog screen: Tap the Manage Package tab
Process Parameter	Notify the Mechanic when a Package is released in the Primary Work Center of the Mechanic? The process parameter value must be set as 1 / Yes to enable the generation of the notification

2. **Assignment of Aircraft to a Mechanic :**

Description	To notify the mechanic that an aircraft has been assigned to him / her
Event / Condition	<u>Event:</u> Assignment of an aircraft to a Primary employee in the Manage Aircraft - Employee Assignment screen
Target Application	Ramco Aviation Desktop Suite
User Identification	The primary employee assigned to the aircraft will be the recipient of the notification
Sample Notification Message	Aircraft Reg. # "VT-017" is assigned to 00041383 – DOMINIC SENECHAL, Aircraft Details – Flight #: CHI-AIR, ETA: Nov 1 2018 9:45 AM, Station: AIR.
Action Type on Notification	Click-Go To UI
Action	Launch the Manage Aircraft - Employee Assignment screen
Process Parameter	Notify the Mechanic when a Task is assigned to them? The process parameter value must be set as 1 / Yes to enable the

	generation of the notification
--	--------------------------------

3. Unassignment of Aircraft to Mechanic:

Description	To notify the Mechanic that an aircraft has been unassigned from him/her.
Notification Triggering Event / Condition	<u>Event:</u> 1. Unassignment of an aircraft to a Primary employee in the Manage Aircraft - Employee Assignment screen
Target Application	Ramco Aviation Desktop Suite
User Identification	The primary employee who has been unassigned from the aircraft
Sample Notification Message	Aircraft Reg. # "VT-017" is unassigned from 00041383 – DOMINIC SENECHAL, Aircraft Details – Flight #: CHI-AIR, ETA: Nov 1 2018 9:45 AM, Station: AIR.
Action Type on Notification	Click-Go To UI
Action	Launch Manage Aircraft - Employee Assignment screen
Process Parameter	Notify the Mechanic when an Aircraft is unassigned to them? The process parameter value must be set as 1 / Yes to enable the generation of the notification

4. Release of Engineering Order for a task that is packaged:

Description	To notify Maintenance Planner that an engineering document having a Packaged task is released
Notification Triggering Event / Condition	<u>Event:</u> Release EO, Revise and Release EO <u>Condition:</u> 1. The EO Task which undergoes attribute changes is already associated to the package. 2. Package Type must be Planned. 3. Package status must be Draft or Fresh. 4. Any change in Effectivity, Schedule (Threshold, Interval, NSD/NSV, and Tracking Type), Part Requirements, and Resource/Sign-Off Requirements shall trigger the notification. 5. Upon change in EO, the system checks for the existence of the updated engineering task in the packages of all the effected Aircraft/Component and generates notifications
Target Application	Ramco Aviation Desktop Suite
User Identification	The users with access privileges to the Review Fleet Maintenance Plan screen in Aircraft Maintenance Planning component

Sample Notification Message	Engineering Document "EO-000653-2018" is released for the Packaged Task # "Pneumatic – system inspection" available in Package # "VP-013490-2018" for the Aircraft Reg "VT-017".
Action Type on Notification	Click-Go To UI
Action	Launch the Review Fleet Maintenance Plan screen in Aircraft Maintenance Planning Component`
Process Parameter	Notify the Maintenance Planner when an Engineering Document having a Packaged Task is released? The process parameter value must be set as 1 / Yes to enable the generation of the notification

5. Task / Discrepancy Assigned to Mechanic for Aircraft Maintenance Execution

Description	To notify the mechanic that a task has been assigned to him / her
Notification Triggering Event / Condition	<u>Event:</u> Assignment of task / discrepancy to mechanic <u>Condition:</u> 1) Individual notifications for each task / discrepancy assignment
Target Application	MechanicAnywhere
User Identification	The users mapped to the employee to whom the task has been assigned for execution
Sample Notification Message	You need to pick parts allocated against Issue MIS-008694-2019 (MIS-008694-2019 – Issue #)
Action Type on Notification	Tap-Go To UI
Action	<u>Scenario: The user is currently working in the MechanicAnywhere application environment</u> The user can tap on the notification and; <ul style="list-style-type: none"> • The Task card screen appears, if a task has been assigned to the mechanic • The Discrepancy Card appears, if a discrepancy has been assigned to the mechanic <u>Scenario: The user is currently out of the MechanicAnywhere application environment</u> The user can tap on the notification to open the Login page from MechanicAnywhere . The user then has to login to MechanicAnywhere and navigate to the Task card or Discrepancy Card screen based on the

	assigned task / discrepancy
Process Parameter	<p>Notify the Mechanic when a Task is assigned to them?</p> <p>The process parameter value must be set as 1 / Yes to enable the generation of the notification</p>

6. Purchase Order raised for Material Request:

Description	To notify the Mechanic that a Purchase Order has been raised to cover the Material Request raised by him/her.
Event / Condition	<p><u>Event:</u></p> <p>Authorization of PO i.e., PO status changes to 'Open'. This can be done from desktop or mobile application.</p> <p><u>Condition:</u></p> <ol style="list-style-type: none"> 1) PO Authorized has PR Coverage for at least one record. 2) PR Line Covered in the PO has MR reference in it. 3) MR Class of referred MR is Maintenance. 4) Ref. Document Type in MR is AME/SWO. 5) MR is not in closed or short closed status.
User Identification	<ol style="list-style-type: none"> 1. User mapped to the Requested by Employee # in the Material Request involved if the user has access rights to Work Reporting Hub screen or Record Aircraft Maint. Exe. Ref. # screen/Record Shop Execution Details screen. 2. If the user does not have access to that screen, user corresponding to the Employee # for which the Task # for the Part # - MR # combination involved has been assigned in the Manage Work Assignments screen. 3. If assignment is not available as well, then the User who is the Last modified user for the Task # - Ref. Doc # in MR combination.
Target Application	Mech Anywhere
Sample Notification Message	<p>Your Part KIT-100 – Kit Part requested in MR MR-00302-2017 on the Aircraft 101 will be delivered by Mar 31 2017 12:00 AM against PO PO-00080-2017.</p> <p>(KIT-100 – Part #; Kit Part – Part Description; MR-00302-2017 – MR #; 101-AC Reg. #, Mar 31 2017 12:00 AM – Earliest Due Date in PO; PO-00080-2017 – PO #)</p>
Action Type on Notification	Tap-Go To UI
Action	Launch View Material Request screen
Process Parameter	Notify the Requestor when Purchase Order is authorized against the Material Request?

7. Stock Transfer raised for material request:

Description	To notify the Mechanic that a Stock Transfer Order has been raised to cover the Material Request raised by him/her.
Event / Condition	<p><u>Event:</u></p> <p>Authorization of Stock Transfer Order (manual or automatic STO creation in authorized status).</p> <p><u>Condition:</u></p> <ol style="list-style-type: none"> 1) STO Authorized has MR as Reference Document. 2) MR Class of referred MR is Maintenance. 3) Ref. Document Type in MR is AME/SWO. 4) MR is not in closed or short closed status.
User Identification	<ol style="list-style-type: none"> 1. User mapped to the Requested by Employee # in the Material Request involved if the user has access rights to Work Reporting Hub screen or Record Aircraft Maint. Exe. Ref. # screen/Record Shop Execution Details screen. 2. If the user does not have access to that screen, user corresponding to the Employee # for which the Task # for the Part # - MR # combination involved has been assigned in the Manage Work Assignments screen. 3. If assignment is not available as well, then the User who is the Last modified user for the Task # - Ref. Doc # in MR combination.
Target Application	Mech Anywhere
Sample Notification Message	<p>Your Part 30526A – 30526A requested in MR MR-004505-2019 on the Aircraft vt-666 has been planned for delivery from Warehouse 0123 against Stock Transfer ST-001195-2019.</p> <p>(30526A – Part # /Description; MR-004505-2019 - MR#; vt-666 – AC Reg. #, 0123 – Warehouse; ST-001195-2019 - Stock Transfer #)</p>
Action Type on Notification	Tap-Go To UI
Action	Launch View Material Request screen
Process Parameter	Notify the Requestor when Stock Transfer is authorized against the Material Request?

8. Shipment of parts for a material request:

Description	To notify the Mechanic that parts have been shipped from the sourcing warehouse against the Stock Transfer Order raised to cover the Material Request raised by him/her.
Event / Condition	<u>Event:</u>

	<p>Confirmation of Shipping Note with respect to Stock Transfer.</p> <p><u>Condition:</u></p> <ol style="list-style-type: none"> 1) Shipping Note is confirmed for a Stock Transfer Issue. 2) Stock Transfer Issue i.e., Order, Issue referred has MR as Reference Document. 3) MR Class of referred MR is Maintenance. 4) Ref. Document Type in MR is AME/SWO. 5) MR is not in closed or short closed status.
User Identification	<ol style="list-style-type: none"> 1. User mapped to the Requested by Employee # in the Material Request involved if the user has access rights to Work Reporting Hub screen or Record Aircraft Maint. Exe. Ref. # screen/Record Shop Execution Details screen. 2. If the user does not have access to that screen, user corresponding to the Employee # for which the Task # for the Part # - MR # combination involved has been assigned in the Manage Work Assignments screen. 3. If assignment is not available as well, then the User who is the Last modified user for the Task # - Ref. Doc # in MR combination.
Target Application	Mech Anywhere
Sample Notification Message	<p>Your Part 30526A – 30526A requested in MR MR-004505-2019 on the Aircraft vt-666 has been shipped from Warehouse 0123. Shipment Details - Shipping Note # RSN-000001-2011, Way Bill # AWB 1123 and Carrier DHL.</p> <p>(30526A – Part #/Description; MR-004505-2019 - MR#; vt-666 – AC Reg. #, 0123 – Warehouse; RSN-000001-2011 – Shipping Note #, AWB 1123 – Way Bill #, DHL – Carrier)</p>
Action Type on Notification	Tap-Go To UI
Action	Launch View Material Request screen
Process Parameter	Notify the Requestor when Shipping Note is confirmed for the Stock Transfer Issue raised against the Material Request?

9. Allocation of Part for a material request:

Description	To notify the Mechanic that Parts requested are allocated in the requested Warehouse for the Material Request raised by him/her, so that Mechanic can collect the Parts.
Event / Condition	<p><u>Event:</u></p> <p>Generation of Issue in Fresh Status (manual or automatic).</p> <p><u>Condition:</u></p> <ol style="list-style-type: none"> 1) Issue Type is Maintenance Issue.

	2) Ref. Document Type in MR is AME/SWO.
User Identification	<ol style="list-style-type: none"> 1. User mapped to the Requested by Employee # in the Material Request involved if the user has access rights to Work Reporting Hub screen or Record Aircraft Maint. Exe. Ref. # screen/Record Shop Execution Details screen. 2. If the user does not have access to that screen, user corresponding to the Employee # for which the Task # for the Part # - MR # combination involved has been assigned in the Manage Work Assignments screen. 3. If assignment is not available as well, then the User who is the Last modified user for the Task # - Ref. Doc # in MR combination.
Target Application	Mech Anywhere
Sample Notification Message	<p>Your Part: 35895 – Actuator requested in MR MR-004531-2019 on the Aircraft 6Y-JMR-1 has been allocated against Issue MIS-008690-2019.</p> <p>(35895 – Part #; Actuator – Part Description; MR-004531-2019 – MR #; 6Y-JMR-1 – AC Reg. #; MIS-008690-2019 – Issue #)</p>
Action Type on Notification	Tap-Go To UI
Action	Launch Material Request screen
Process Parameter	Notify the Requestor when parts are allocated for the Material Request?

Exhibit 4: Identifies the notification informing the employee about the release of package for execution in the **MechanicAnywhere** desktop suite

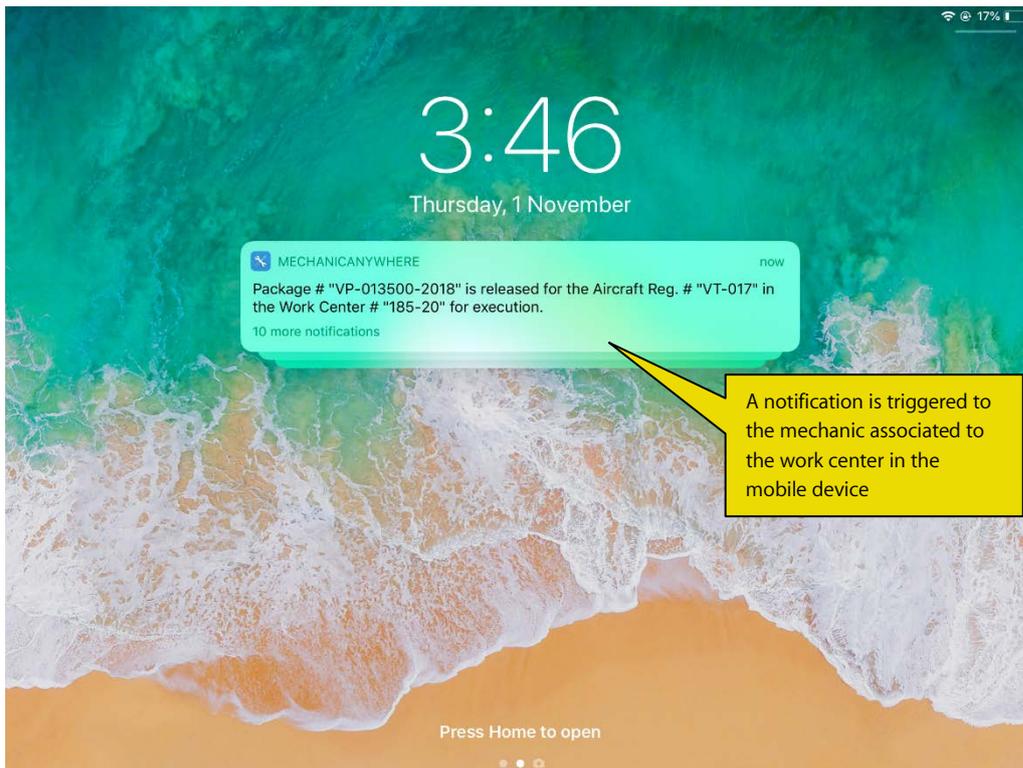


Exhibit 5: Identifies the notification alerting the employee regarding the assignment of aircraft in the Ramco Aviation desktop suite

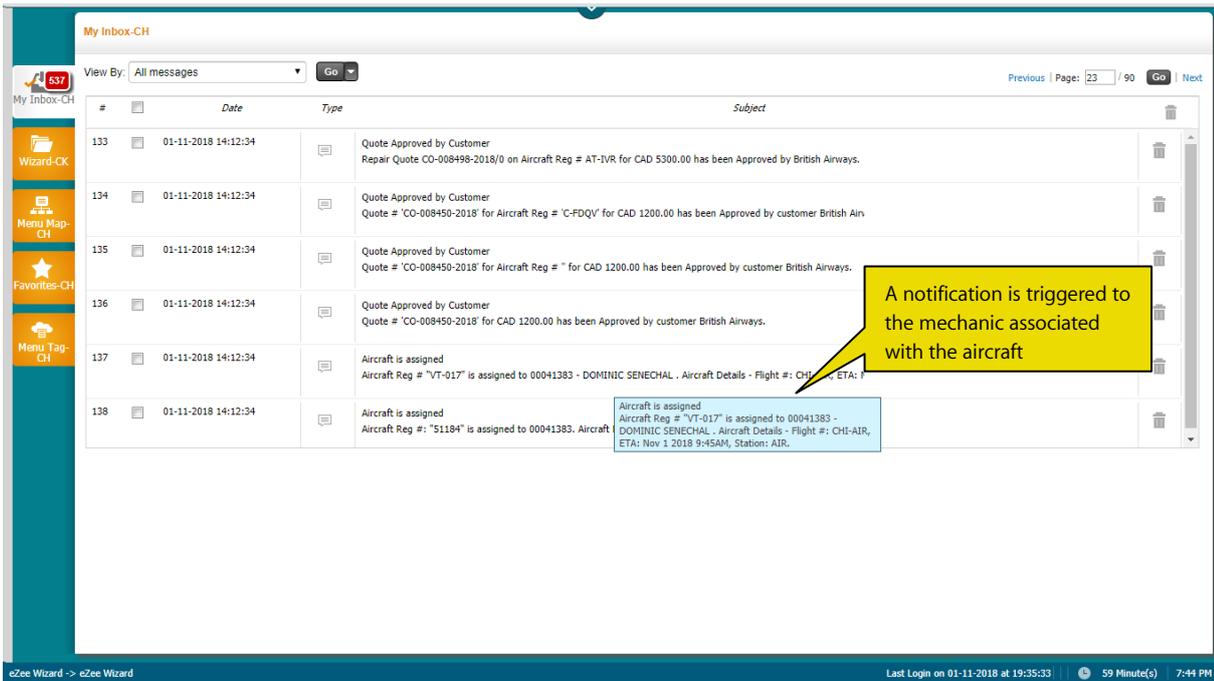


Exhibit 6: Identifies the notification that informs the mechanic that an aircraft has been unassigned from him in the Ramco Aviation desktop suite

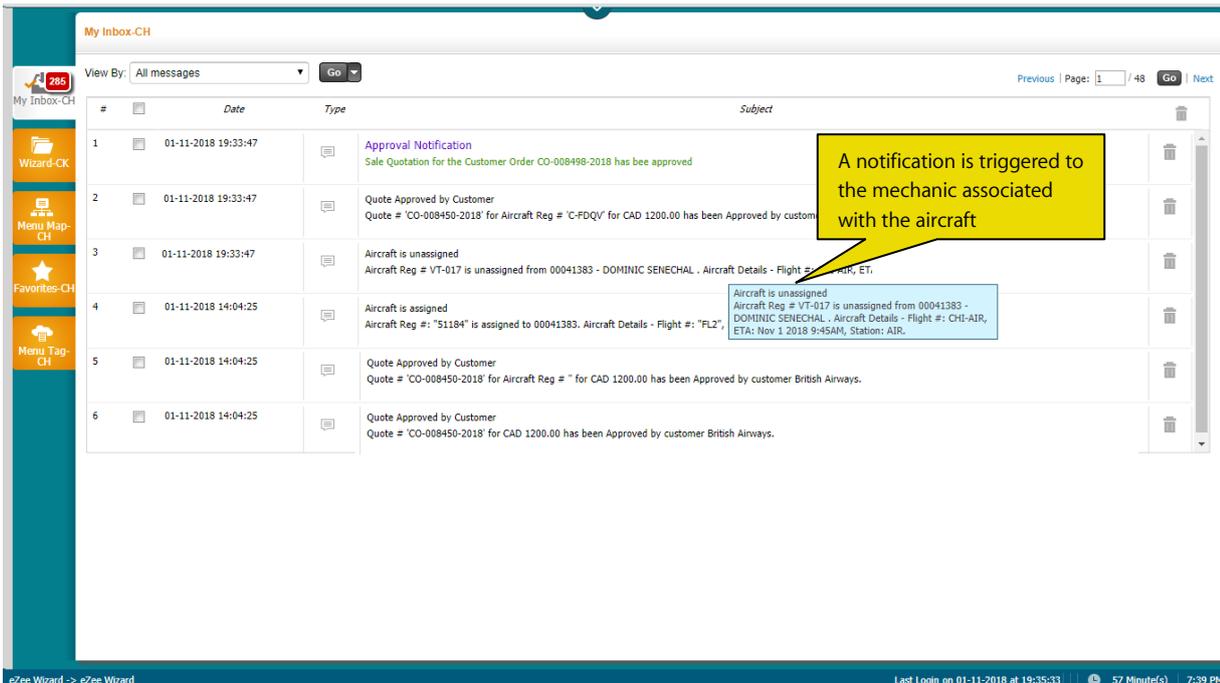


Exhibit 7: Identifies the notification that an engineering document effective for packaged task has been released in the Ramco Aviation desktop suite

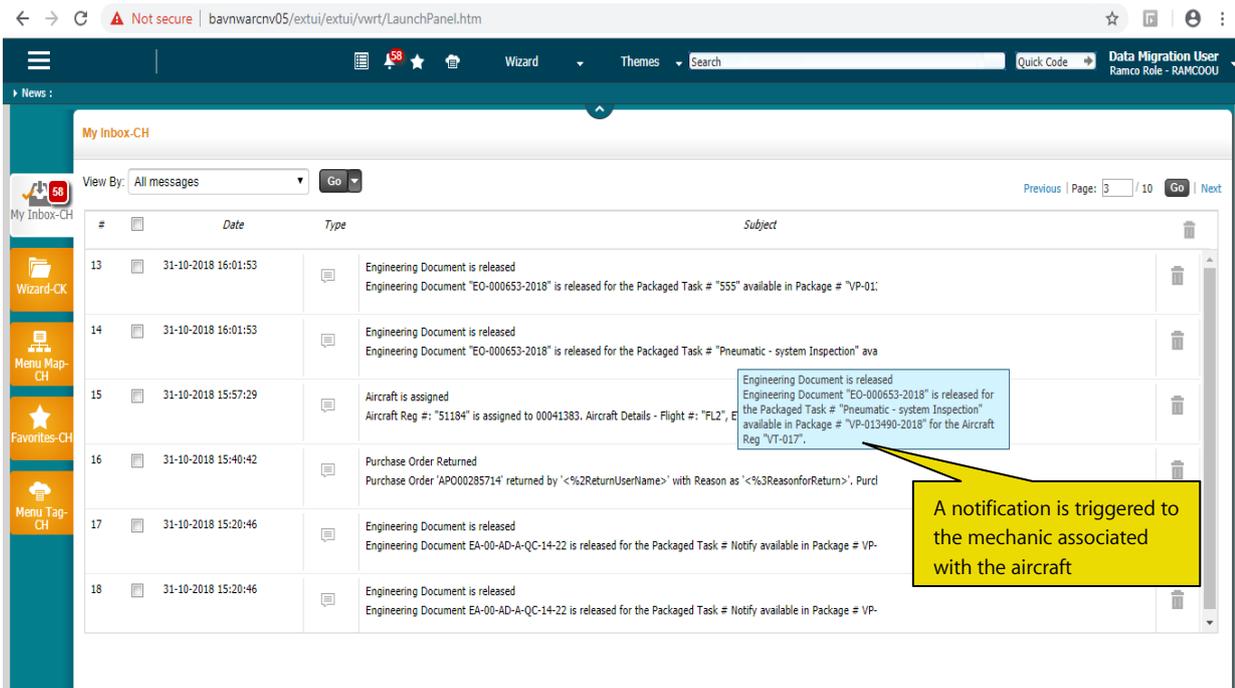


Exhibit 8: Identifies the notification that alerts the mechanic on the assignment of task in the MechanicAnywhere application

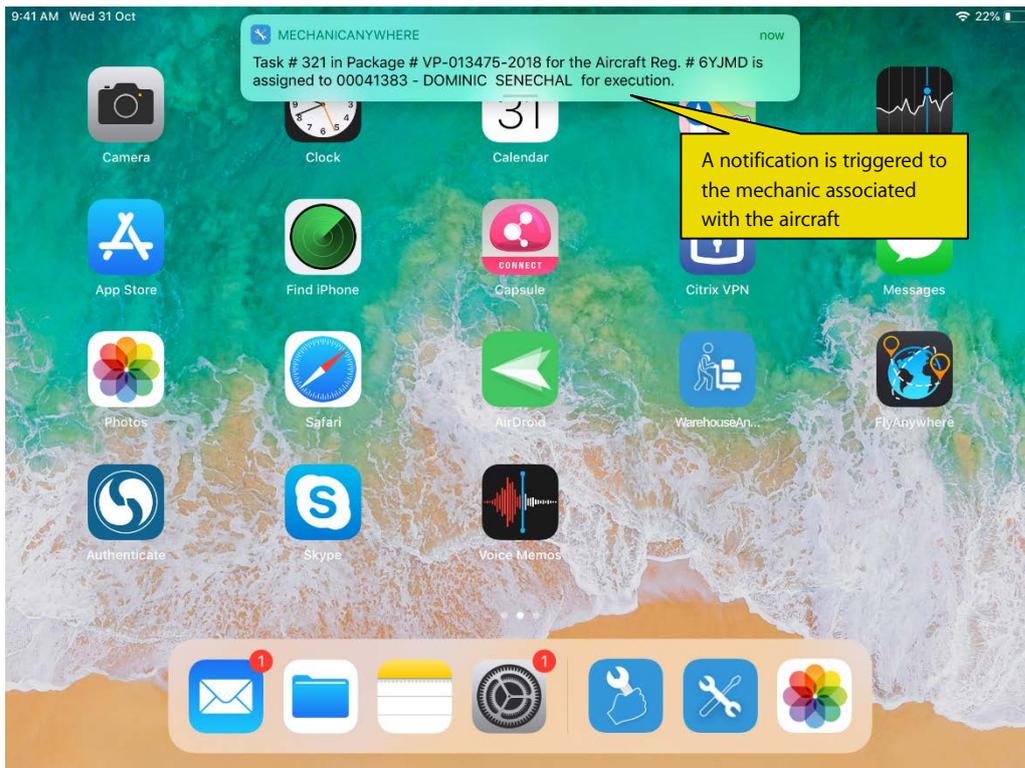


Exhibit 9: Identifies the notification for Purchase Order raised for MR in **MechanicAnywhere** app

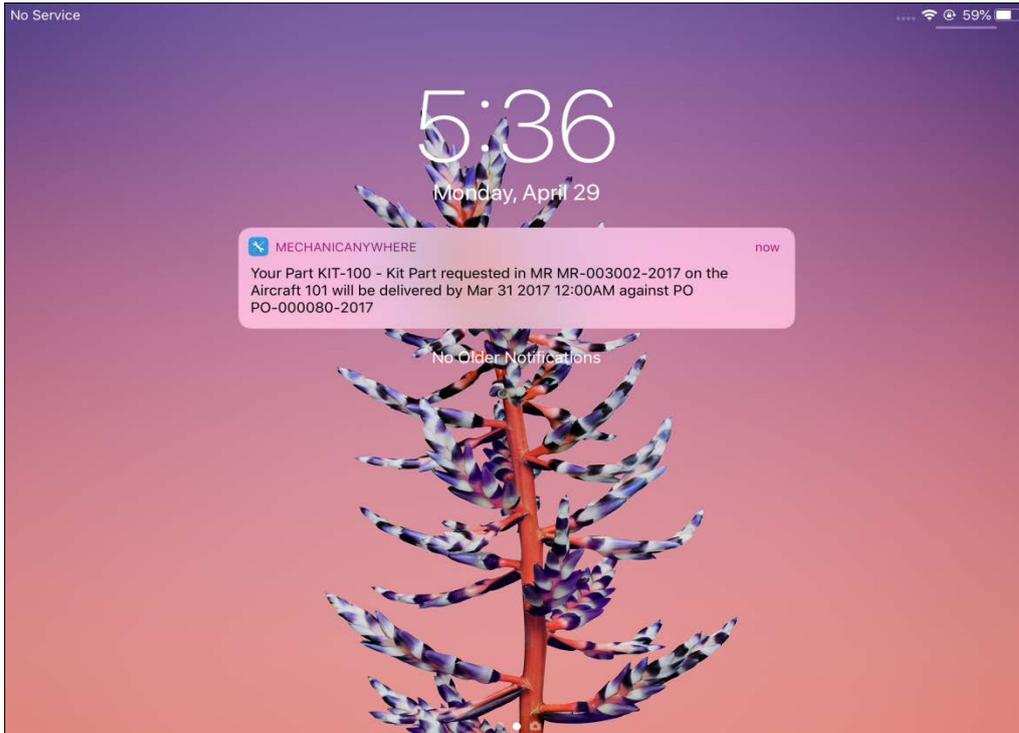


Exhibit 10: Identifies the notification for Stock Transfer raised for MR in **MechanicAnywhere** app

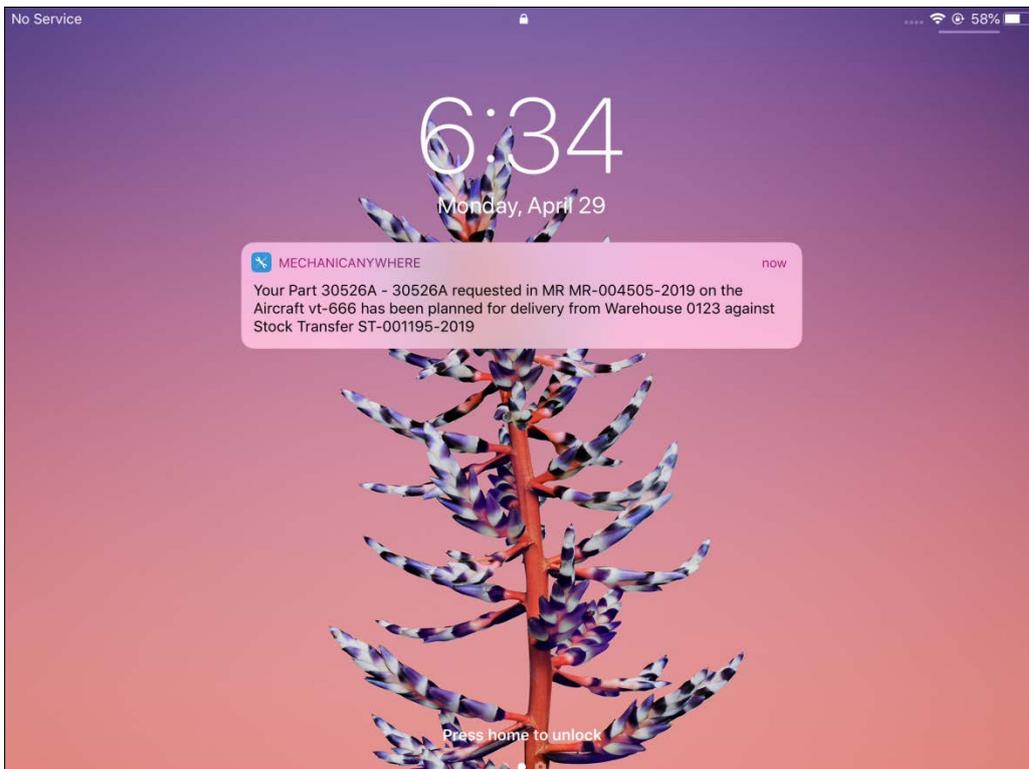
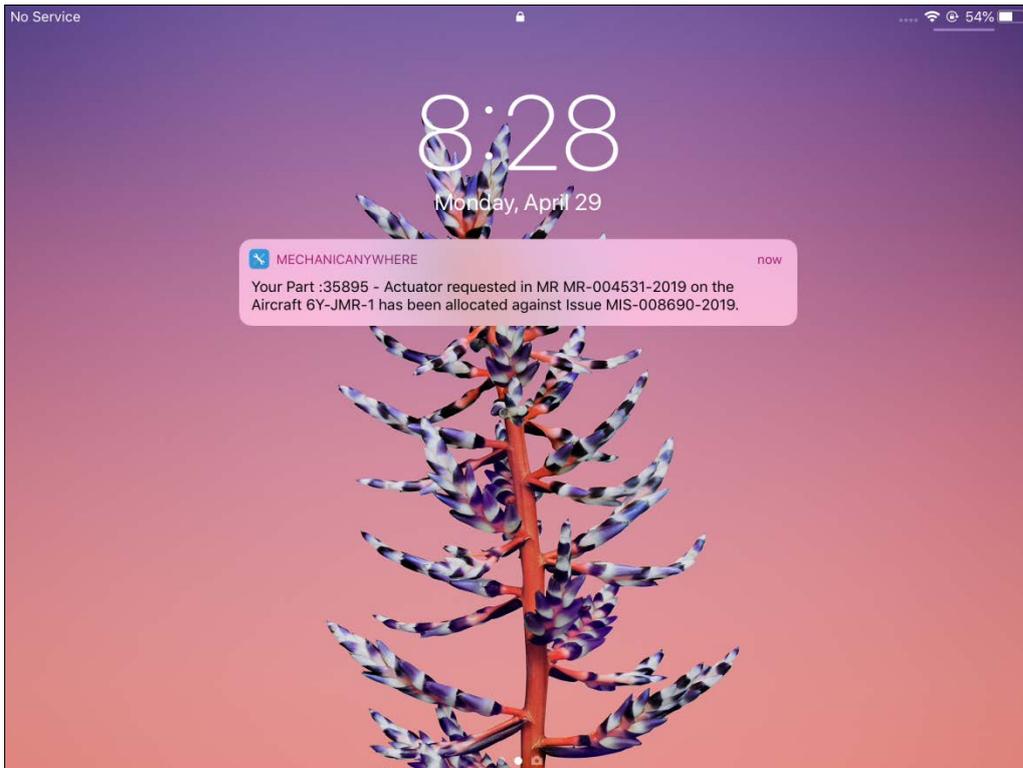


Exhibit 11: Identifies the notification for allocation of part for MR in **MechanicAnywhere** app



WHAT'S NEW IN ROSTER MANAGEMENT?

Roster Management

Reference: AHBG-27030

Background

In the Aviation industry, the Crew Scheduler / shift Planners prepare rosters for a period of a month that contain the flight schedules and duty details of pilots / mechanics. Rostering enables key information including employees' assignment to shifts / re-assignment of employees' to shifts based on employee availability /leave etc. to be recorded and disseminated across the board and aids in the assignment / re-assignment of employees to aircraft. These rosters may also require timely updates based on change in employee availability, assignment of employees to shifts or aircraft. Thus, rosters already published may need to be published again after the details are revised. Hence, a facility to manage and publish rosters is required in the Ramco Aviation system.

Change Details

Document Numbering Class

Maintain Numbering Privileges

A new transaction "Roster Number Generation" is added under the Business Component 'Roster Management' and Function Area 'Roster Management' in the **Maintain Numbering Privileges** activity of the **Document Numbering Class** business component provide numbering privileges to the user.

Common Master

Manage Quick Code

Quick Code values are defined for the Entity 'Roster Management' and 'Quick Code Type' combination in the **Manage Quick Code** activity of the **Common Master** business component.

The Quick code values are defined under the entity 'Roster Management' and Quick Code type 'Category' or 'User Status'.

Roster Management

Create/Edit Roster

The **Create/Edit Roster** screen under the **Roster Management** business component facilitates Shift/Duty Roster creation every month for the mechanics/pilots.

- The 'Create' and 'Edit/View' radio buttons enables the user to create, modify and view the Shift/Duty Roster.
- The 'Roster #/Rev. #' displayed in the "Edit" mode along with the 'Go' pushbutton provides a help link screen to retrieve the already created roster in fresh and Confirmed status as well as the published roster with revision #.
- Select the 'Category' and 'User Status' of the roster from the quick codes that are defined in the **Manage Quick Codes** activity of the **Common Master** business component.
- Select the 'Roster Level' drop-down list box to retrieve the employee details corresponding to the roster level selected. The system lists the following options:
 - Roster Group – Facilitates the retrieval of the employees mapped to the entered roster group.
 - Work Center – Facilitates the retrieval of the employees mapped to the entered work center.
 - Span of Control – Facilitates the retrieval of the employees mapped to the supervisor or the Reporter.
- On click of the 'Go' pushbutton next to the Employee control is for the Roster Level 'Span of Control'. If the user selects Roster Level 'Span of Control' and selects an Employee # and click of Go fetch the employees mapped to the supervisor or the reporter.
- The employee details such as 'Employee #', 'Effective From', 'Effective To', 'Exclude', 'Seq #' and 'Remarks' are entered.
- On click of the hyperlink 'Day 1 Shift/Duty' field "Applicable Shift/Duty" of the employee is launched in a pop-up. This pop-up enables the modification of the first day shift/duty of the employee.
- On click of the 'Save' pushbutton, the Roster #/Rev # is created in 'fresh' status, revision with blank for the selected employees along with their shift/duty patterns.
- On click of the 'Confirm' pushbutton, the system will explode the schedule population for Review/Publish roster and creates a schedule # in confirmed status. Also the system increments the schedule # to +1, every time the roster is getting confirmed.
- On click of the 'Cancel' pushbutton, the Roster will be cancelled on entering the cancellation comments.
- Click the **Review/Publish Roster** link to review and publish the Roster.

The status change of the Roster process flow is as follows:

- 1) On creating the roster, the roster status will be in 'Fresh' status, if it is cancelled then the roster # and rev # will move to 'cancelled' status.

- 2) When the roster is created in Fresh status then after confirmation, the status will become to 'confirmed' status. On confirmation of roster, system will explode the schedule population for Review/Publish roster and create a schedule # and keep it in 'confirmed' status.
- 3) On launch of the Review/Publish roster screen the status (roster-schedule) will stay in 'confirmed' status.
- 4) Once the Roster is published in 'Review/Publish' screen then the status will be updated as 'Published' for both the roster template and roster schedule.
- 5) Roster template can be modified when it is in both published and confirmed status. On save, it will be updated as 'Fresh' with a new revision number.

Exhibit 1: Identifies the Create / Edit Roster screen:

Create/Edit Roster

Create Edit/View

Roster Details

Roster #/Rev. # Description Status
 Effective From Category User Status
 Roster Level

Employee Details

#	Employee #	Employee Name	Effective From	Effective To	Exclude?	Seq. #	Remarks
1	00000001	Ramco, Dmuser	May-06-2019	May-29-2019	Yes		
2							

Roster Remarks Cancellation Comments

Record Statistics

Created By DMUSER Created Date Apr-23-2019
 Last Modified By DMUSER Last Modified Date Apr-24-2019

Cancellation will be done only after capturing cancellation comments

Maintain Shift/Duty

Reference: AHBG-28661

Background

The shift / duty details of mechanics / pilots are recorded in rosters and these rosters are published every month. The shift / duty details in the roster may be required to be updated / modified after the rosters have already been published. The revised rosters are published once again. Hence, a facility to record and modify shift / duty records in roster is required to enable seamless management of rosters.

Change Details

The following changes have been done to enable maintenance of employee shift/duty records:

Common Master

Define Process Entities

A new process parameter "Mandate Start Time and End Time in Maintain Shift/Duty screen?" is added under the Entity Type 'Roster Management' and Entity 'Maintain Shift/Duty' in the **Set Process Parameters** screen of the **Define Process Entities** activity of the **Common Master** business component.

- If the set option is set as '0' (No), then the Start Time and the End Time is not mandatory for the Shift/Duty.
- If the set option is set as '1' (Yes), then the Start Time and the End Time is mandatory for the Shift/Duty.

Manage Quick Code

Quick Code values are defined for the 'Entity' and 'Quick Code Type' combination in the **Manage Quick Code** activity of the **Common Master** business component.

The Quick code values are defined under the entity 'Roster Management' and Quick Code type 'Shift/Duty Category'.

Roster Management

Maintain Shift/Duty

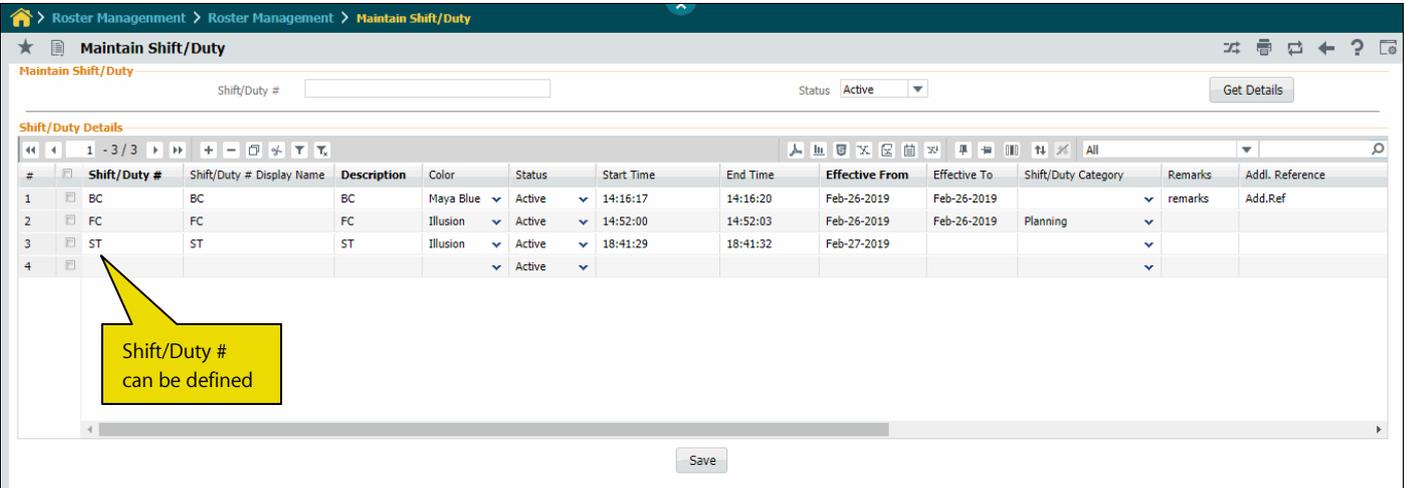
The **Maintain Shift/Duty** screen under the **Roster Management** business component allows creating and editing the Shift/Duty details that are used in the roster. The previously created Shift/Duty details can be retrieved on click of the "Get Details" pushbutton.

In the "Shift/Duty Details" multiline,

- The 'Shift/Duty #', 'Shift/Duty # Display Name' and 'Description' fields are entered.
 - Select the 'Color' from the drop-down list box to specify the color of the Shift/Duty.
 - Select the 'Status' of the Shift/Duty which could be "Active" or "Inactive".
 - Enter the 'Start Time', 'End Time', 'Effective From' and 'Effective To' values of the Shift/Duty.
-  *Note: The 'Start Date' and 'End Date' fields are mandatory based on the process parameter "Mandate Start Time and End Time in Maintain Shift/Duty screen?" set in the **Set Process Parameters** screen of the **Common Master** business component.*
- Select the 'Shift/Duty Category' from the Quick code values defined for the Shift Category in the **Manage Quick Code** screen of the **common Master** business component.
 - Enter the 'Remarks' and 'Addl. Reference' fields, if required.
 - The system displays the 'Created By', 'Created Date', 'Last Modified By' and 'Last Modified Date' of the Shift/Duty in the respective fields.
 - On click of the 'Save' pushbutton, the system saves the Shift/Duty # entered along with the details.

 *Note: Any modification in the Shift/Duty will get impact only on the newly creating Roster #/Rev #. The changes will not affect the already created roster, Upon revision of Roster the modified changes will get impact.*

Exhibit 2: Identifies the **Maintain Shift/Duty** screen:



The screenshot displays the 'Maintain Shift/Duty' screen. At the top, there is a breadcrumb trail: 'Roster Management > Roster Management > Maintain Shift/Duty'. Below this, the screen title is 'Maintain Shift/Duty'. There is a search field for 'Shift/Duty #' and a 'Status' dropdown menu set to 'Active'. A 'Get Details' button is visible on the right. The main area contains a table titled 'Shift/Duty Details' with the following data:

#	Shift/Duty #	Shift/Duty # Display Name	Description	Color	Status	Start Time	End Time	Effective From	Effective To	Shift/Duty Category	Remarks	Addl. Reference
1	BC	BC	BC	Maya Blue	Active	14:16:17	14:16:20	Feb-26-2019	Feb-26-2019		remarks	Add.Ref
2	FC	FC	FC	Illusion	Active	14:52:00	14:52:03	Feb-26-2019	Feb-26-2019	Planning		
3	ST	ST	ST	Illusion	Active	18:41:29	18:41:32	Feb-27-2019				
4					Active							

A yellow callout box points to the 'Shift/Duty #' column in the table, containing the text: 'Shift/Duty # can be defined'.

Maintain Shift/Duty Pattern & Associate Employees

Reference: AHBG-29090

Background

The **Maintain Shift/Duty Pattern & Associate Employees** screen facilitates Shift/Duty Pattern creation and associating the Employees with the Shift/Duty Pattern. The same screen can be used to modify the already mapped employee details.

Change Details

Maintain Shift/Duty Pattern & Associate Employees

The **Maintain Shift/Duty Pattern & Associate Employees** screen added under the **Roster Management** business component comprises two tabs: **Maintain Shift/Duty Pattern** tab and **Associate Employees** tab.

In the **Maintain Shift/Duty Pattern** tab,

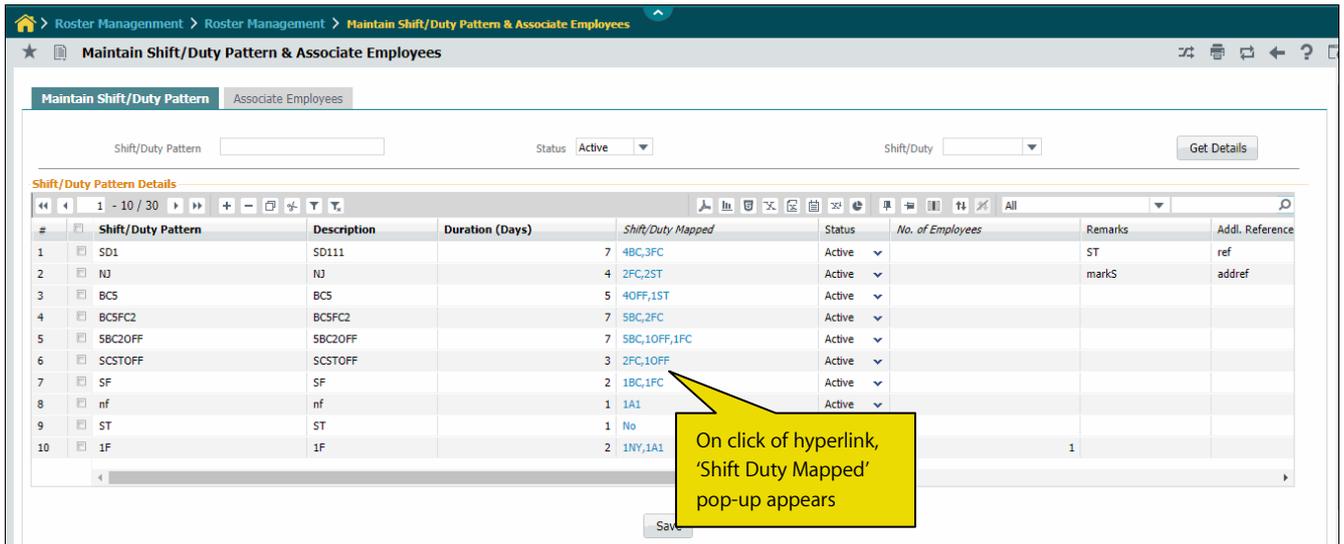
Based on the filter criteria provided in the 'Shift/Duty Pattern', 'Status' and 'Shift/Duty' and on click of "Get Details" pushbutton, the system fetches the details in the "Shift/Duty Pattern Details" multiline.

- The 'Shift/Duty Pattern', 'Description' and 'Duration(Days)' fields will be entered in the multiline.
- In 'Shift/Duty Mapped' field, concatenation of Duration and shift/duty with hyperlink will be displayed, once the applicable shift/duty and duration is mapped to it. Shift/Duty Mapped column will be displayed as 'No' with hyperlink enabled, if the shift/duty is not mapped. By clicking on the 'No' hyperlink, a pop up "Shift/Duty Mapped" will launch to map the applicable shift/duty and duration. The shifts which are effective for current date will be loaded in the shift/duty combo in the pop up.
- For the Previously saved shift/duty pattern, user can modify the description, duration and inactive the shift/duty pattern. If user modifies the duration, on save system will check for the Shift/Duty mapped matches the duration mentioned.
- On click of the "Save" pushbutton, the Shift/Duty pattern details will be saved.



Note: Any modification in the Shift/Duty Pattern will get impact only on newly creating Roster #/Rev #. The changes will not affect the already created roster; Upon revision of Roster the modified changes will get impact.

Exhibit 3: Identifies the **Maintain Shift/Duty Pattern** tab in the **Maintain Shift/Duty Pattern & Associate Employees** screen:

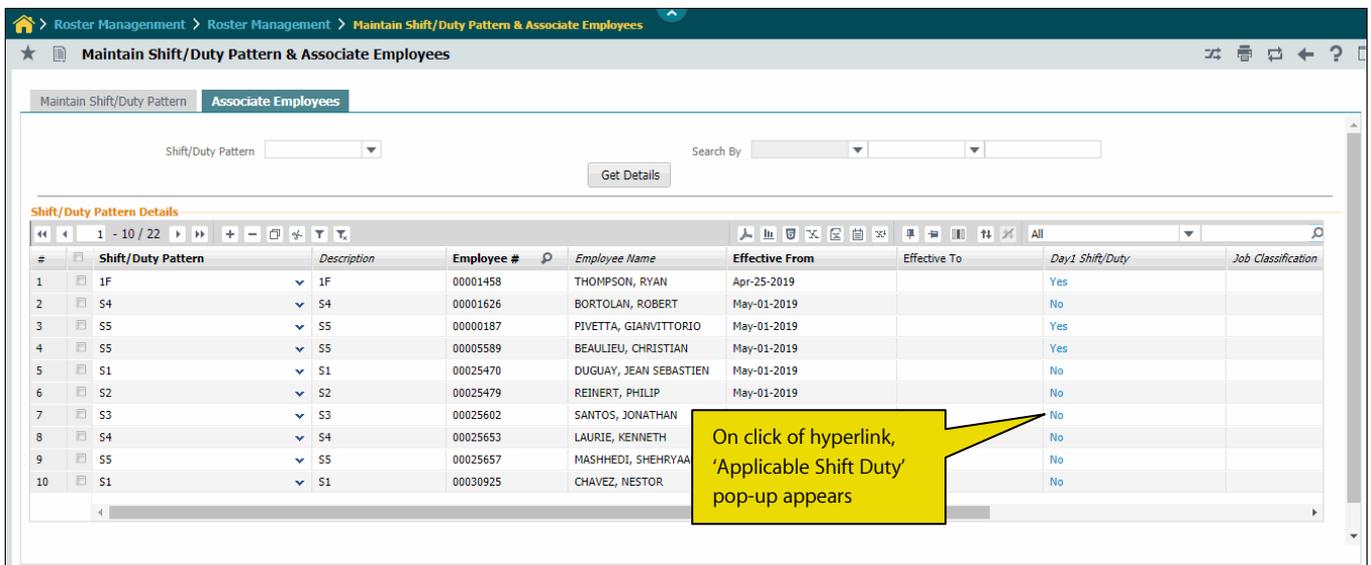


In the **Associate Employees** tab,

Based on the filter criteria provided and on click of "Get Details" pushbutton, the system fetches the details in the "Shift/Duty Pattern Details" multiline.

- The 'Shift/Duty Pattern', 'Employee #' and 'Effective From' fields will be entered in the multiline.
- In 'Day1 Shift/Duty' field, hyperlinked 'Yes' or 'No' will be displayed based on the mapping of Day 1 Shift/Duty with the Employee. By clicking on the hyperlink, "Applicable Shift/Duty" pop-up appears.
- On click of the "Save" pushbutton, the Shift/Duty pattern details mapped to the employees will be saved.

Exhibit 4: Identifies the **Associate Employees** tab in the **Maintain Shift/Duty Pattern & Associate Employees** screen:

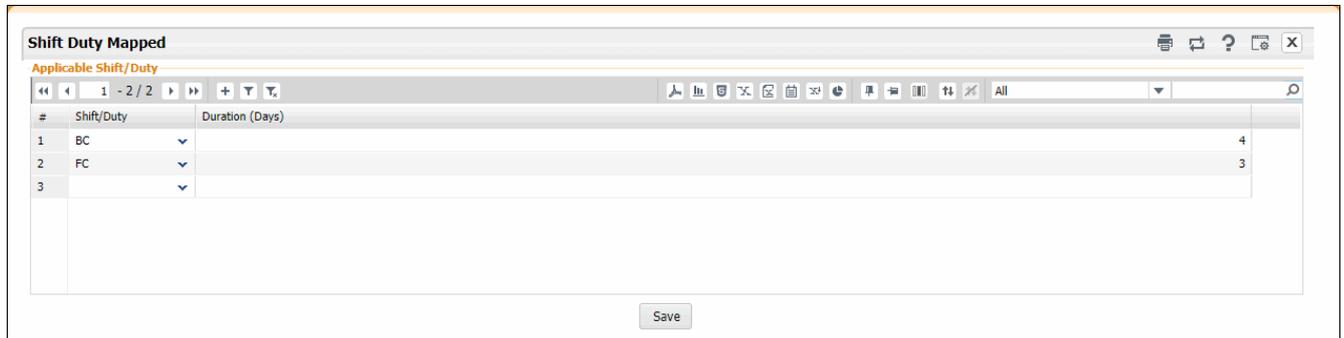


Shift Duty Mapped pop-up:

This pop-up enables defining the Shift/Duty pattern by concatenating the duration and the Shift/Duty.

- The active Shift/Duty will be selected from the 'Shift/Duty' field.
- The duration for the selected Shift/Duty will be selected from the 'Duration(Days)' field.
- On click of "Save" pushbutton, the system saves the entered values in the respective columns.

Exhibit 5: Identifies the **Shift Duty Mapped** pop-up screen:

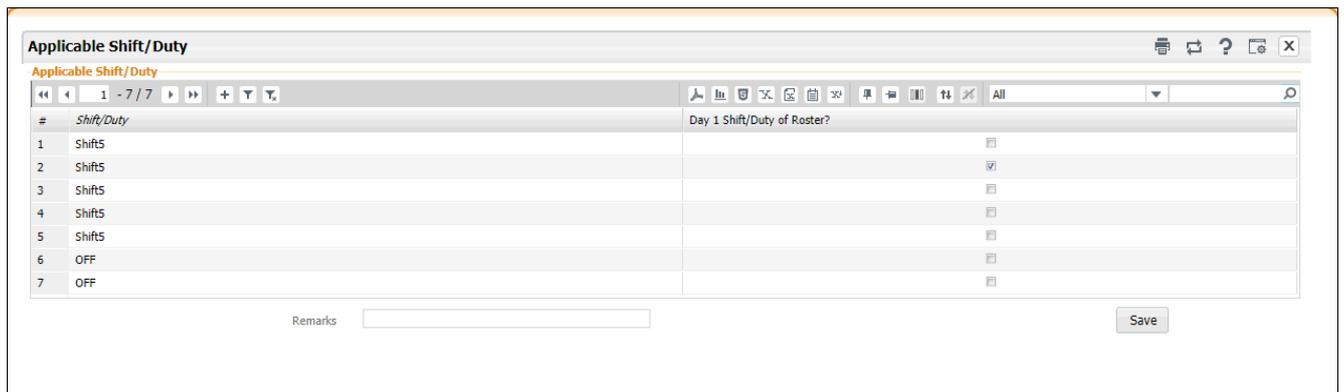


Applicable Shift/Duty pop-up:

This pop-up enables defining the Day1 Shift/Duty of the roster for the employee.

- Select the checkbox to define the Day1 Shift/Duty of the roster for the employee.
- On click of "Save" pushbutton, the system saves the Day1 Shift/Duty of the roster.

Exhibit 6: Identifies the **Applicable Shift/Duty** pop-up screen:



Maintain Roster Group

Reference: AHBG-29362

Background

This Maintain Roster Group screen enables defining Roster group and association of the Roster group to the employees. Roster Group with description & group type will be defined in 'Roster Group' tab. Employees will be associated to roster group with effective from/to in 'Associate Employees' tab.

Change Details

Common Master

Manage Quick Code

Quick Code values are defined for the Entity 'Roster Management' and 'Quick Code Type' combination in the **Manage Quick Code** activity of the **Common Master** business component.

The Quick code values are defined under the entity 'Roster Management' and Quick Code type 'Roster Group Type'.

Roster Management

Maintain Roster Group

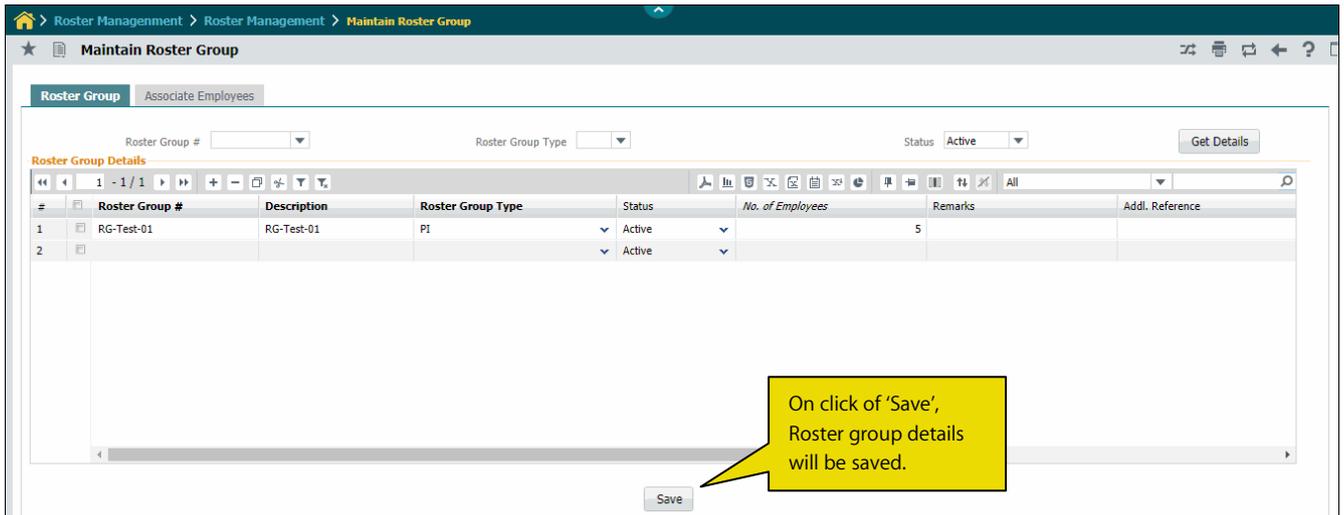
The **Maintain Roster Group** screen under the **Roster Management** business component comprises two tabs: **Roster Group** tab and **Associate Employees** tab.

In the **Roster Group** tab,

Based on the filter criteria provided in the 'Roster Group #', 'Roster Group Type' and 'Status' and on click of "Get Details" pushbutton, the system fetches the details in the "Roster Group Details" multiline.

- The 'Roster Group #' and 'Description' fields will be entered in the multiline.
- The 'Roster Group Type' field can be selected from the drop-down values that are defined for the Entity 'Roster Management' and Quick Code Type 'Roster Group Type' combination in the **Manage Quick Code** activity of the **Common Master** business component.
- On click of the "Save" pushbutton, the system saves the Roster Group # entered with the description, Roster Group Type and status.

Exhibit 7: Identifies the Roster Group tab in the Maintain Roster Group screen:

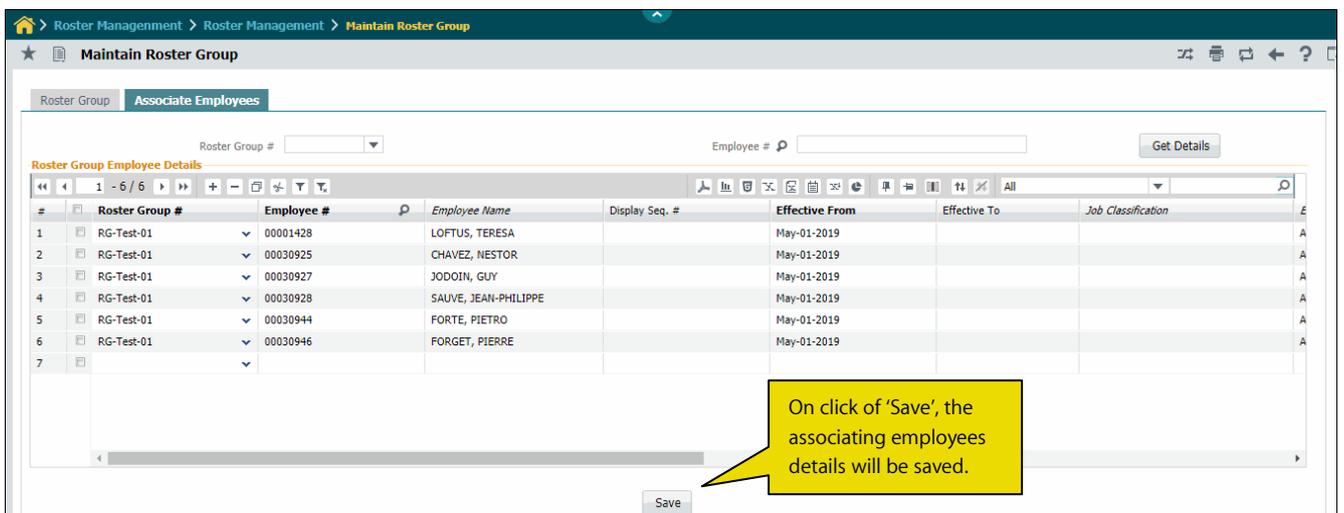


In the Associate Employees tab,

Based on the filter criteria provided in the 'Roster Group #' and 'Employee #' and on click of "Get Details" pushbutton, the system fetches the details in the "Roster Group Employee Details" multiline.

- The 'Roster Group #' and 'Description' fields will be entered in the multiline.
- The 'Employee #' and the 'Effective From' fields will be mapped with the Roster Group #.
- On click of the "Save" pushbutton, the system saves the Roster Group #, Employee # and Effective From details.

Exhibit 8: Identifies the Associate Employees tab in the Maintain Roster Group screen:



Review/Publish Roster

Reference: AHBG-28095

Background

This **Review/Publish Roster** screen facilitates the review and modification of the Shift/Duty Roster of the mechanics/pilots. Timely updates based on change in employee availability, assignment of employees to shifts or aircraft may be required. Thus, rosters already published may need to be published again after the details are revised. Hence, a facility to manage and publish rosters is required in the Ramco Aviation system.

Change Details

Roster Management

Review/Publish Roster

The **Review/Publish Roster** screen under the **Roster Management** business component facilitates review and modification of the Shift/Duty Roster of the mechanics/pilots.

- The 'Review/Update' and 'View' radio buttons enables the user to review, update and view the Shift/Duty Roster.
- Select one of the following actions from the 'Action' drop-down listbox:
 - Review/Update Plan
 - Review/Update Actual
- Using the help icon in 'Roster #/Rev. #' and choose one and click the 'Go' pushbutton in the "Roster Details" header section to retrieve the roster directly without using the search criteria.

In the "Additional Search" section,

- Select the 'Shift/Duty #' and click the 'Go' pushbutton to retrieve the corresponding shift/duty in the selected roster.
- Select the 'Job Classification" from the drop-down list box to select one of the values defined in the **HRMS** business component.
- Select the entity "Skill", "License Category", "Qualification #", "Aircraft Model" based on which the employees will get filtered in the selected roster.
- The "Roster Details" tab displays the normalized Shift/Duty details for the mapped employees for the roster period with color codes defined for the shift/Duty.
- On click of the  icon, 'Change Shift/Duty' popup appears.
- The "Roster Summary" tab displays the shift/duty wise employee count for the individual days of the roster period.

On successful creation and publishing the roster, the status changes to 'publish' and revision number will be blank. When the published roster is modified and saved then the status of roster will be updated as 'fresh' and the revision number increments to +1. However the changes and modification done on actual mode in the previous revision of roster will be carried forward to the new revision.

Exhibit 9: Identifies the Review / Publish Roster screen:

Change Shift/Duty pop-up:

Using this pop-up, the shift/duty details of particular period in the roster schedule details can be updated.

- Select the 'Shift/Duty' and modify the 'From' and 'To' fields.
- On click of "Save" pushbutton, the system saves the altered Shift/Duty details of the roster.

Exhibit 10: Identifies the Change Shift/Duty popup screen:

WHAT'S NEW IN HUBS?

Fleet Operations Hub

Reference: AHBG-30517

Background

In order to satisfy the different needs of the Communication Center, OCC, Tech Records, Pilots, Mechanics and DoM, a centralized screen is required where the details of the Aircraft and the Work Center's condition, Aircraft's location, the latest Risk Assessment details on an Aircraft, Notes for an Aircraft, Unallocated Aircrafts, are available. Hence Fleet Operations Hub is developed where multiple roles can refer to information that is needed for them and take necessary actions.

Change Details

Common Master

Define Process Entities

A new Entity Type 'Flight Operations' and Entity 'Fleet Operations Hub' is added in the **Define Process Entities** activity of the **Common Master** business component.

A process parameter "Inherit A/C Config's status in arriving at 'A/C Cond'n' in Fleet Operations Hub?" is added under the Entity 'Fleet Operations Hub' and Entity Type 'Flight Operations' with the following permitted values:

- '0'(No) – 'A/C Cond'n' will be determined excluding the Aircraft's Configuration and the Assembly status.
- '1'(Yes) – 'A/C Cond'n' will be determined including the Aircraft's Configuration and the Assembly status.

A process parameter "Time Window from the current date within which if any tasks fall due, will result in A/C Cond'n. as 'Upcoming Due?'" is added under the Entity 'Fleet Operations Hub' and Entity Type 'Flight Operations' with the following permitted values:

- '0' or 'Any positive integers'– No. of days from the current date within which if any tasks fall due, will result in 'A/C Cond'n.' as 'Upcoming Due'. If the Next Due date falls after this range, then the A/C Cond'n will be 'In Service', provided all the other parameters that assist in deriving the A/C Cond'n are also favorable.

A new process parameter "Display WC Cond'n. as 'Out of Service' if WC Weather is 'Moderate?'" is added under the Entity 'Fleet Operations Hub' and Entity Type 'Flight Operations' with the following permitted values:

- '0'(No) – 'WC Cond'n' will be 'In Service' if the WC Weather is marked 'Moderate'.
- '1'(Yes) – 'WC Cond'n' will be 'Out of Service' if the WC Weather is marked 'Moderate'.

Fleet Operations Hub

A new activity **Fleet Operations Hub** is introduced under the **Flight Log** business component in the **Flight Operations** business process chain. This screen retrieves and displays the details of the Aircrafts mapped to the Work Centers/Bases to which the login user has access rights.

In the 'Aircraft' tab, the user can view the details of the Aircrafts' Allocation to Work Centers/Bases, Risk Assessment details, Aircraft/WC Condn., and other supplementary information under the status filter.

- On click of the 'Status filter', the following tiles are retrieved along with the count of the Aircrafts in different conditions:
 - All – Indicates the total count of the Aircrafts that are 'In Service' and 'Out of Service' and that are allocated to the active Work Centers (for the current date/time) for which the login user has access rights.
 - In Service – Indicates the total count of the Aircrafts that are 'In Service' and that are allocated to the active Work Centers (for the current date/time) to which Login user has access rights.
 - Out of Service – Indicates the total count of the Aircrafts that are 'Out of Service' and are allocated to the active Work Centers (for the current date/time) to which Login user has access rights.
 - A/C Base Not Mapped(In Service) – Indicates the total count of the Aircrafts that are left unallocated to any active Work Centers (for the current date/time) and are 'In Service'.
 - A/C Base Not Mapped(Out Service) – Indicates the total count of the Aircrafts that are left unallocated to any active Work Centers (for the current date/time) and are 'Out of Service'.

The following Aircraft Allocation Details are retrieved in the multiline:

- 'A/C Reg. #' is hyperlinked to take the user to the 'View Aircraft Record' screen in order to view additional details of an aircraft (E.g. some of the planning details, ownership details and other parameter info, etc.)
- 'A/C Model #' displays the model number of the Aircraft.
- 'A/C Condn.' field displays an icon indicating the condition of the Aircraft based on the following logic:
 - In Service  – If values of
 - I. 'MX Overdue', 'Open Packages', 'Open Discrepancies' are 'No' and
 - II. The 'Next Due On' date falls outside the time window provided against the process parameter "Time Window from the current date within which if any tasks fall due, will result in A/C Condn. as Upcoming Due?" and
 - III. 'A/C Config.' field value is 'Active' (only if the process parameter 'Inherit A/C Config's status in arriving at 'A/C Condn' in Fleet Operations Hub?' is set as 'Yes').
 - IV. A/C Assembly status is 'Complete' (only if the process parameter 'Inherit A/C Config's status in arriving at 'A/C Condn' in Fleet Operations Hub?' is set as 'Yes').

V. Aircraft is Operational.

- Out of Service  – If values of
 - I. 'MX Overdue' (AND/OR) 'Open Packages' (AND/OR) 'Open Discrepancies' is 'Yes' (OR)
 - II. 'A/C Config' field value is other than 'Active' (only if the process parameter 'Inherit A/C Config's status in arriving at 'A/C Condn' in Fleet Operations Hub?' is set as 'Yes') (OR)
 - III. A/C Assembly status is 'Dormant' or 'Error' (only if the process parameter 'Inherit A/C Config's status in arriving at 'A/C Condn' in Fleet Operations Hub?' is set as 'Yes'). (OR)
 - IV. Aircraft is 'Under Maintenance' or 'Phased Out'.

 *Note: Upcoming Due icon  will be displayed if the next due task to be performed in the corresponding aircraft falls within the days as specified in the process parameter "Time Window from the current date within which if any tasks fall due, will result in A/C Condn. as 'Upcoming Due'?"*

- The hyperlinked 'MX Overdue' field indicates if any tasks/discrepancies available for the respective Aircraft is overdue to be performed/closed on the aircraft as on the current date.
 - If 'Yes' then the value 'Yes' is displayed along with the 'Red' colored icon.
 - If 'No' then the value 'No' is displayed along with the 'Green' colored icon.

 *Note: Discrepancies that were deferred and not closed within the deferral limits will also be considered as Overdue.*

- The 'Next Due' field indicates the date of the very next task/discrepancy that is due to be performed on the aircraft, from the list of what was planned for the Aircraft.
- The hyperlinked 'Open Pkgs' field indicates if any packages that are in-progress for the corresponding aircraft are available as on the current date/time.
 - If 'Yes' then the value 'Yes' is displayed along with the 'Red' colored icon.
 - If 'No' then the value 'No' is displayed along with the 'Green' colored icon.
- The hyperlinked 'Open DPs' field indicates if any discrepancies that are in 'under-resolution' or 'pending deferral' or 'pending' status on the corresponding aircraft are available as on the current date/time.
 - If 'Yes' then the value 'Yes' is displayed along with the 'Red' colored icon.
 - If 'No' then the value 'No' is displayed along with the 'Green' colored icon.
- The 'A/C Config.' will display the corresponding Aircraft's Configuration status.
- The 'WC #' field displays the 'WC #' to which the Aircraft is mapped from the 'Allocated Aircraft to Maintenance Base' screen.
- The 'Station' field displays the station to which the WC is mapped in the system.
- The 'WC Condn.' field displays the following icons indicating the condition of the Work Center:
 - In Service  – If values of

- I. Work Center Ops Status is 'Operational' and
 - II. The value of 'WC Weather' is 'Good' or 'Moderate'(Moderate- only if the process parameter "Display WC Condn. as 'Out of Service' if WC Weather is 'Moderate?'" is set as 'No').
- o  Out of Service – If values of
- I. Work Center Ops Status is 'Not Operational' or
 - II. The value of 'WC Weather' is 'Bad' or 'Moderate'(Moderate- only if the process parameter "Display WC Condn. as 'Out of Service' if WC Weather is 'Moderate?'" is set as 'Yes').

 *Note: The 'WC Condn.' field displays grey icon if either 'WC Ops Status' or 'WC Weather' is blank or both the fields are blank.*

 *The above icons are hyperlinked to launch the ['WC Operation & Weather Status'](#) pop-up.*

- The 'WC Ops Status' field displays the latest value set in the 'WC Operation & Weather Status' pop-up for the entity 'WC Ops Status'.
- The 'WC Weather' field display the latest value set in the 'WC Operation & Weather Status' pop-up for the entity 'WC Weather'.
- The hyperlinked 'Last RA Score' field displays the latest Risk Assessment's (that of a pilot) score for the corresponding A/C Reg. # available in the 'Aircraft Allocation Details' multiline.
- The 'Last RA Status' field displays the status of the latest Risk Assessment # taken by the pilot for the corresponding Aircraft Reg. # available in the 'Aircraft Allocation Details' multiline.
- The 'Last RA #' field displays the latest Risk Assessment # taken by the pilot for the corresponding Aircraft Reg. # available in the 'Aircraft Allocation Details' multiline.
- The 'Last RA By' field displays the name of the pilot who took the latest Risk Assessment # for the corresponding Aircraft Reg. # available in the 'Aircraft Allocation Details' multiline.
- The 'Notes' field displays the latest Notes available for the corresponding 'Aircraft Reg. #' provided from the 'Edit Notes' screen.
- The 'Last JL On' field displays the date of the latest JL recorded for the corresponding A/C Reg. # available in the 'Aircraft Allocation Details' multiline.
- The hyperlinked 'Last JL #' field displays the latest recorded Journey Log # for the corresponding aircraft.
- The 'Last Package Status' field displays the status of the package # and hyperlinked 'Last Package #' field displays the corresponding latest package #.

 *Note: The system will check if any packages are available for the corresponding Aircraft in the following hierarchical order: In Progress, Completed, Closed, Planned.*

- The 'WC Weather Modified On' field will display the date/time in which the WC Weather was lastly modified.
- 'WC Remarks' will display the WC Remarks that is available against the corresponding WC #, provided in the 'WC Weather & Operation Status' pop up.
- 'Last Modified By' and 'Last Modified Date' fields are displayed in the multiline, which is based on the modification of either the corresponding 'Aircraft' record or the entities inside the 'WC Weather &

Operation Status' pop up- based on whichever is the latest.

- Select the 'Quick Links' drop-down list to navigate to the required screen. This will be useful for bulk records viewing/processing from another screen. The system lists the following options:
 - Due List
 - Approve Risk Assessment
 - Allocate Aircraft to Maintenance Base
 - Edit Notes
 - View Notes
 - View Discrepancies
 - View Aircraft Exe. Ref. #
 - View Aircraft Configuration
 - View Risk Assessment

Exhibit 1: Identifies the **Fleet Operations Hub** screen:

The screenshot displays the 'Fleet Operations Hub' interface. At the top, there is a navigation breadcrumb: 'Flight Operations > Flight Log > Fleet Operations Hub'. Below this, the main header shows 'Fleet Operations Hub' with a star icon and navigation controls. A yellow callout box labeled 'Status filter' points to a filter bar containing several status tiles: 'ALL' (2), 'In Service' (1), 'Out of Service' (1), 'A/C Base Not Mapped (In Service)' (641), and 'A/C Base Not Mapped (Out of Service)' (140). Below the filter bar is the 'Aircraft Allocation Details' table. A yellow callout box labeled 'Tiles displaying Aircraft Allocation statuses' points to the table. The table has columns for '#', 'A/C Reg. #', 'A/C Model #', 'A/C', 'MX Overdue', 'Next', 'Open Pkgs', 'Open DPs', 'A/C', 'WC #', 'Station', 'WC Condn.', 'WC Op. Status', and 'WC Weather'. Two rows of data are visible. At the bottom, there is a 'Quick Links' section with various status icons and labels: 'In Service', 'Upcoming Due', 'Out of Service', 'In Service', 'Out of Service', 'Caution', 'Acceptable', and 'High Risk'.

#	A/C Reg. #	A/C Model #	A/C	MX Overdue	Next	Open Pkgs	Open DPs	A/C	WC #	Station	WC Condn.	WC Op. Status	WC Weather
1	N178JB	190-100AR	✈️	• No		• No	• No		185-20	New York	✔️	Operational	Moderate
2	6YJMA	737-300	✈️	• No		• Yes	• Yes		185-20	New York	✔️	Operational	Moderate

WC Operation & Weather Status pop-up:

This pop-up enables the user to set the Operational Status and Weather Condition of the Work Center.

- The 'WC #', 'WC Desc.', 'Station' and 'WC Condition' are displayed in the pop-up.
- The 'WC Ops Status' indicates the operational status of the corresponding WC # for which the pop up was launched which could be "Blank Value", "Operational" or "Not Operational".
- The 'WC Weather' indicates the weather condition of the corresponding WC # for which the pop up was launched which could be "Blank Value", "Good", "Moderate" or "Bad".
- The user can enter 'WC Remarks' to give additional information.
- Click the "Save" pushbutton to save the necessary values.

Exhibit 2: Identifies the WC Operations & Weather Status pop-up screen:

WC Weather & Operation Status

WC # 185-20 WC Desc. PLUMBING/FABRICATION Station New York

WC Condition ✔ WC Operational Status WC Weather Status

WC Remarks

Journey Log Hub

Reference: AHBG-25314

Background

In the **Aviation** industry, managing flight schedules and journey logs are the most frequently carried out tasks. Hence, a shared central platform to execute end-to-end management of journey logs is required to speed up the **Journey Log** process. Identifying and retrieving journey logs with precise search filters is required to enable the mechanics and the Tech records personnel to access the journey logs from among the multitudes of logs. This would be the key to speeding up the Journey Log process. All essential journey log tasks including creation, update, revision, view, cancellation and closure by means of a single platform would prove to be extremely friendly to the users. It would also reduce navigation and the resultant time.

Change Details

Here are the salient features of **Journey Hub**:

- Enables selection of the fleet for which the journey logs must be retrieved
- Instant retrieval and display of key information on the selected fleet based on the journey log on selection of fleet. The information retrieved includes the count of **Fresh** and **Under Amendment** journey logs, **Zero** Hours and Missing journey logs against the fleet.
- Alternatively, enables retrieval of journey logs based on user-specific attributes for a specific period
- Enables generation, modification, revision, update and viewing of journey logs
- Enables recording of Aircraft Maintenance Execution details for aircraft associated with the journey log
- Enables generation of Aircraft Utilization Report for aircraft associated with the journey log
- Enables approval or cancellation of individual or multiple journey logs
- Retrieves / displays Leg Level details and Parameter details consequent to the flight

Exhibit 1: The new Journey Log Hub screen

Click icon to select fleet for retrieving logs

Click on these boxes to display logs in the multiline

List of journey logs available against the selected fleet

Key info on logs against fleet

Overview of the journey selected in the multiline

Leg level details retrieved for the journey log selected in the multiline

#	Journey Log #	Log #	Status	A/C Model #	A/C Reg #	Flight Date	From/To Stn	Flight Ops. Type	Hours	Cycles	File
1	JL-0002062013		Fresh	737-300	6VJMA	2017/02/09	BKK - AIR	Regular	14	1	
2	JL-0002082013					2017/04/02	MAD - KIN	Regular	4	2	
3	JL-0002312013					2017/08/02	1 - 1	Regular	49	1	
4	JL-0002402013					2017/10/03	CBE - NGL	Regular	0	1	
5	JL-0003062013					2018/01/10	101 - 101	Regular	3	1	
6	JL-0003162013		Fresh	A310	101	2018/03/01	AIR - BGI	Regular	6	1	
7	JL-0003292013		Fresh	A320-211	2092	2018/01/07		Regular			

Exhibit 2: The default Auto All-search mode of the Journey Log Hub screen

The Auto All-search mode that appears on launch of the screen

Click the button to create journey log record

Click on the data hyperlink to display details of journey log, Leg level and Parameter details below

Click on data link to view journey log

#	Journey Log #	Log #	Status	A/C Model #	A/C Reg #	Flight Date	From/To Stn	Flight Ops. Type	Hours	Cycles	File
1	JL-0002062013		Fresh					Regular	14	1	
2	JL-0002082013							Regular	4	2	
3	JL-0002312013		Fresh					Regular	49	1	
4	JL-0002402013		Fresh					Regular	0	1	
5	JL-0003062013		Fresh	A310	101	2018/01/10	101 - 101	Regular	3	1	
6	JL-0003162013		Fresh	A310	101	2018/03/01	AIR - BGI	Regular	6	1	
7	JL-0003292013		Fresh	A320-211	2092	2018/01/07		Regular			

Exhibit 3: The User-specific search mode in the new Journey Log Hub screen

The screenshot shows the 'Journey Log Hub' search interface. At the top, there are search filters for 'Flight Date Range' (2019/04/01 to 2019/04/10) and a 'Get Details' button. A dropdown menu is open, showing search criteria like 'A/C Group #', 'A/C Model #', 'A/C Reg. #', 'Customer # / Name', 'Journey Log #', and 'Sub Fleet #'. Below the search bar is a table of 'Journey Log List' with columns for Journey Log #, A/C Model #, A/C Reg #, Flight Date, From/To Stn, Flight Ops. Type, Hours, Cycles, and File. A callout points to the 'Approve' button, stating 'Click here to confirm journey logs selected in multiline'. Another callout points to the 'Go' button, stating 'Enter journey log # here and click Go to view journey log record'. A third callout points to the search filters, stating 'Specify search criteria and click here to retrieve journey logs'. Below the table, there are 'Approve' and 'Cancel' buttons. A callout points to the 'Cancel' button, stating 'Click here to cancel journey logs selected in multiline'. At the bottom, there is a 'Journey Log Details' section with a 'Log Level Details' tab. A callout points to a pencil icon, stating 'Click icon to modify Fresh journey logs or amend Under Amendment journey logs'.

Exhibit 4: The Parameter tab in the new Journey Log Hub screen

The screenshot shows the 'Journey Log Hub' parameter tab. At the top, there are search filters for 'Flight Date Range' (03-04-2019 to 10-04-2019) and a 'Get Details' button. Below the search bar is a table of 'Journey Log List' with columns for Journey Log #, Log #, Status, A/C Model #, A/C Reg #, Flight Date, From/To Stn, Flight Ops. Type, Hours, Cycles, and File. A callout points to the 'A/C Utilization Report' button, stating 'Click here to generate Aircraft Utilization report for the aircraft related to journey log'. Below the table, there are 'Approve' and 'Cancel' buttons. A callout points to the 'Approve' button, stating 'Click here to confirm single journey log selected in multiline'. Another callout points to the 'Cancel' button, stating 'Click here to reject single journey log selected in multiline'. At the bottom, there is a 'Journey Log Details' section with a 'Summary Details' tab. A callout points to the 'Summary Details' tab, stating 'Parameters details of the aircraft'. Below the tab, there is a table with columns for #, Parameter, Value, Position #, Part #, UOM, Update Mode, Current Value, and Resultant Value. A callout points to the 'Update Mode' column, stating 'Click here to create work package for the aircraft related to journey log'.

WHAT'S NEW IN AIRCRAFT WORK REPORTING HUB?

Ability to dual authenticate employee in Work Reporting Hub upon Sign Off

Reference: AHBG-25928

Background

Aircraft and Component maintenance operations in Aviation are critical in nature and hence face stringent regulatory requirements. In consideration of this, the MRO organizations pursue authentication procedures during task and discrepancy sign off. To meet this requirement, a provision is required in the **Ramco Aviation** suite to enforce dual authentication of employees during task / discrepancy sign off to ensure that the employee # provided in the sign off section is the same employee who has actually signed off.

Change Details

In order to enable dual authentication of employees who performed sign off of tasks and discrepancies, the following entity in the **Smart Card Interface** business component (the **Configure Dual Authentication** screen) will be made use of:

- **Application Group: Desktop**
- **Entity: Aircraft Maintenance Execution**
- **Action: Sign-Off**
- **Authentication Type: Not Required, Login Password, Login Password & PIN or PIN**
- For successful sign off of a task/discrepancy, the mechanic / inspector will be required to provide PIN or Login Password or both as set for the employee ID based on the authentication type set for the entity **Aircraft Maintenance Execution** in the **Smart Card Interface** business component.

Authentication Type	Mandatory Credentials
Not Required	The employee can sign off tasks/discrepancies without Dual Authentication. The User Authentication popup will not appear on sign off
PIN	The employee must provide PIN for successful sign off as set in the Set / Change PIN activity in Smart Card Interface
Login Password	The employee must provide Login Password for successful sign off
PIN & Password	The employee must provide both PIN and Login Password for successful sign off (PIN, as set in the Set / Change PIN activity in Smart Card Interface

- If the authentication type is PIN, Password or PIN & Password and the PIN has not been set, the **Set / Change PIN** popup appears to enable the employees to define the PIN. After the PIN is saved, the employees can complete the sign off by authenticating using the new PIN and / or Login Password

- In the **Work Reporting Hub** screen, the employees can sign off tasks in the **Task** tab multiline and the **Task Actions** popup; while the discrepancies can be signed off in the **Discrepancy** tab multiline and **Discrepancy Actions** popups.
- In order to dismiss the **User Authentication** or the **Set/Change PIN** popups and get back to the previous screen/popup, the employee can make use of the **Cancel** button in the respective popups.

Exhibit 1: The Work Reporting Hub screen

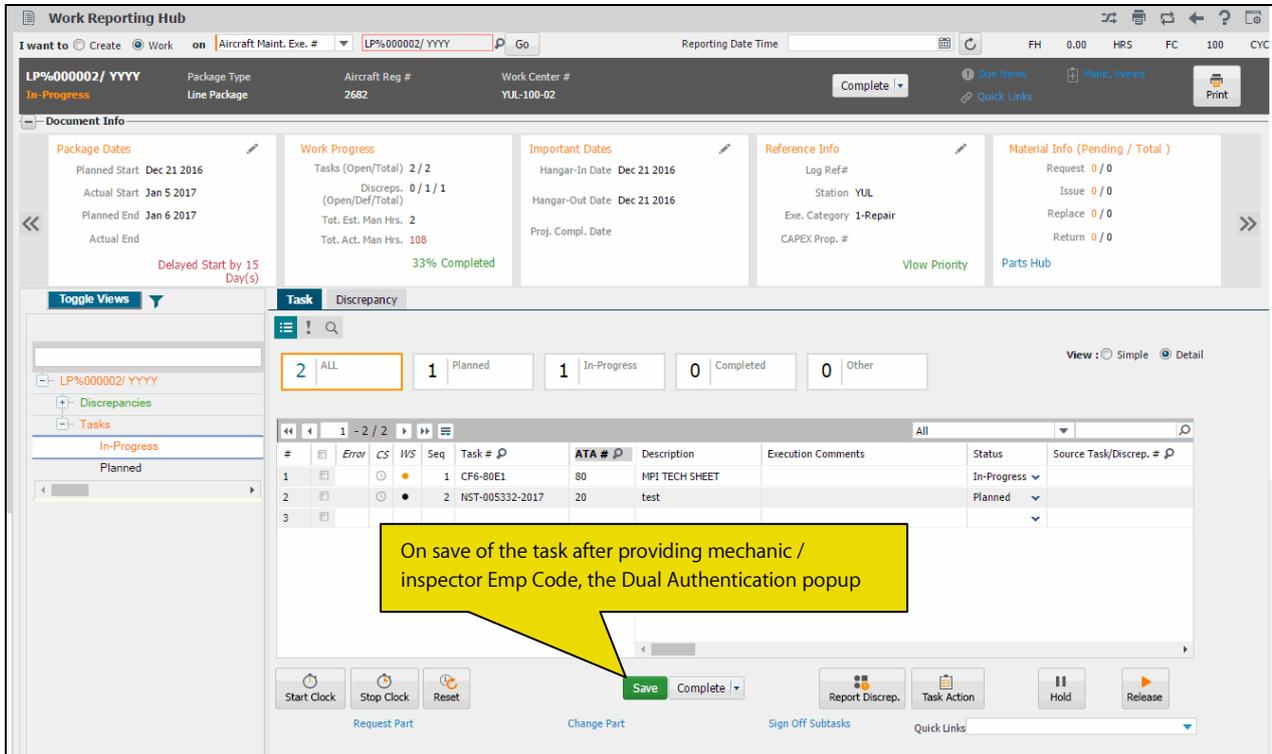


Exhibit 2: The User Authentication popup in the Work Reporting Hub screen

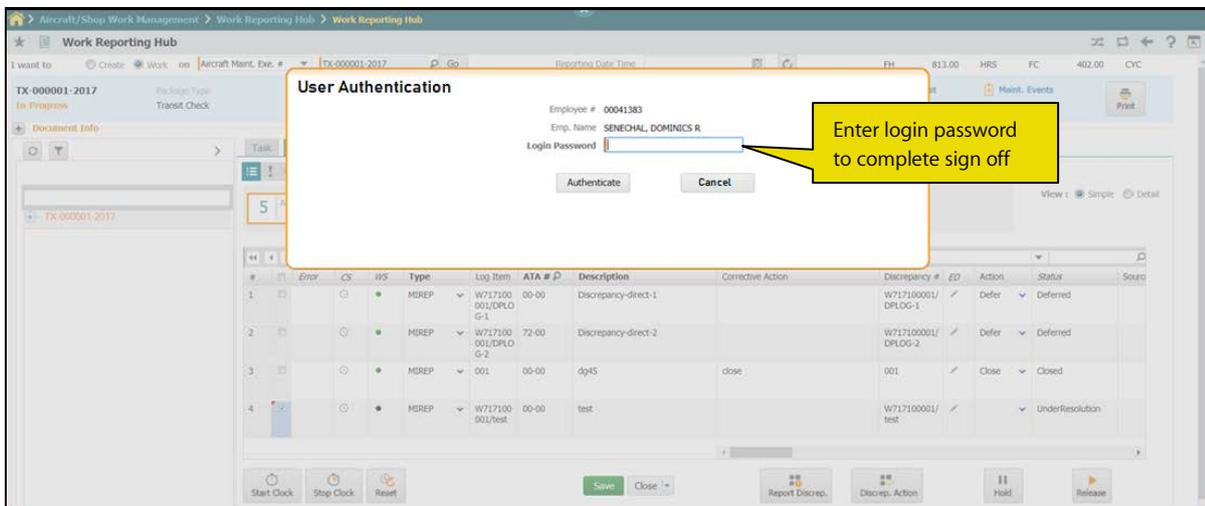


Exhibit 3: The Set/Change PIN popup in the Work Reporting Hub screen

Set/Change PIN

Employee # 00001413 Employee Name RICHARD RAM

Login Password OR Old PIN

New PIN

Confirm New PIN

Define new PIN to making use of in signing off

Ability to Display and Save License/Certificate # & Category information during Sign Off using Dual Authentication in Work Reporting Hub

Reference: AHBG-25231

Background

On completion of task / discrepancy Sign Off, the ARC report is generated that also displays the sign off information of the technicians along with license / certificate details, etc. In order to ensure that this information is currently relevant / correct, an opportunity must be provided to aircraft mechanics/inspectors to view this information before it is printed in the report. In this way, the reports can be generated with the updated information while avoiding errors / rework.

Change Details

To facilitate review and update of license / certificate details of mechanics / inspectors during sign off, the following developments have been built in the **Work Reporting Hub** screen.



Note: Then User Authentication popup appears only if Dual Authentication for the entity 'Aircraft Maintenance Execution' has been enabled in the Configure Dual Authentication activity of Smart Card Interface.

- New fields have been added in the **User Authentication** popup
 - License / Certificate #, a drop-down list box from which the users can select the License / Certificate # that they hold (displayed based on the process parameter 'Display & Capture License/Certificate information during Task/Discrepancy Sign Off using Dual Authentication?')
 - Category, a display-only field that indicates the category to which the License / Certificate # belongs (displayed based on the process parameter 'Display & Capture License/Certificate information during Task/Discrepancy Sign Off using Dual Authentication?')
- On tap of **Authenticate** button, the Certificate / License # will be saved against the task or corrective action.
- However, new process parameter 'Display & Capture License/Certificate information during Task/Discrepancy Sign Off using Dual Authentication?' has been added under the entity types Package Type and entity All Packages in the **Define Process Entities** activity of **Common Master** will decide whether viewing / updating license / certificate information can happen during sign off as illustrated in the next table:

Process parameter	Value	Impact
Display & Capture License/Certificate information during Task/Discrepancy Sign	0 / Not Required	The new fields - License/Certificate #, Category will not be available in the User Authentication / E-Sign Off popup during sign off

Off using Dual Authentication?		
	1 / License #	Two new fields - License #/Certificate # and Category will appear in the User Authentication popup during sign off. The License #/Certificate # drop-down list box will fetch and display the License data)
	2 / Certificate #	Two new fields - License #/Certificate # and Category will appear in the User Authentication popup during sign off. The License #/Certificate # drop-down list box will fetch and display the Certificate data)

- If the process parameter is set to 1 or 2, the **License / Certificate #** drop-down list box and the **Category** field appear in the **User Authentication** popup. The drop-down list box displays licenses held by the employee ID, if the process parameter value is set as 1 while certificates are listed in the drop-down list box, if the process parameter is 2. The **License / Certificate #** drop-down list box retrieves license / certificate for **Employee ID** taking into consideration the skill code required for sign Off.
- The **Category** field displays the corresponding category of the **License / Certificate #**.

Exhibit 1: The Work Reporting Hub screen

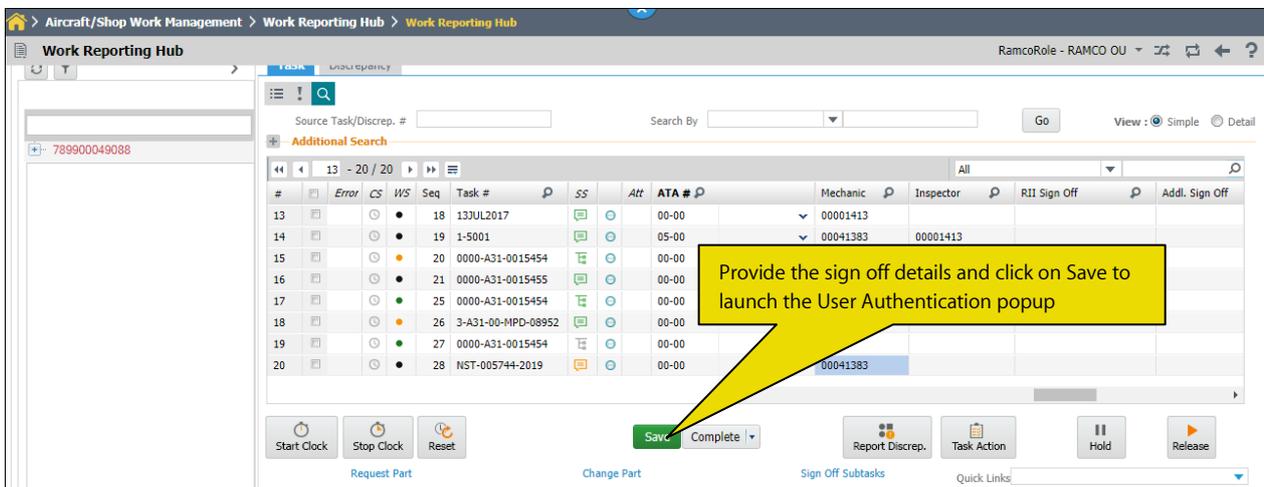
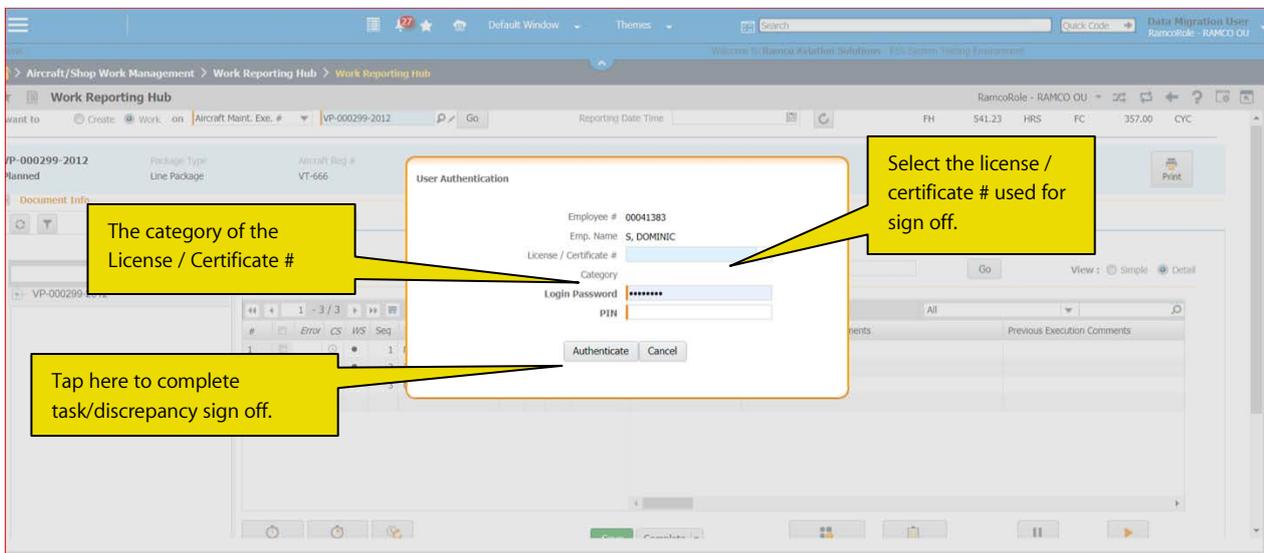


Exhibit 2: The User Authentication popup in the Work Reporting Hub screen



Ability to associate work center, release and execute package from Work Reporting Hub

Reference: AHBG-24896

Background

Currently, in Ramco Aviation, aircraft work package can be released by MCC only after specifying the work center in which the package must be executed. However, in Line Maintenance operations, the station (work center) where the aircraft was previously planned for night-halt could unpredictably change due to changed flight schedule, delay or diversion. As the aircraft has halted in a station that is different from earlier scheduled station, the line mechanics will not be able to view/execute package as they would not have access to the work center. As a result, the details of the undertaken maintenance are manually entered in logs and then this data is entered into the system on a future date resulting in paperwork and backlogs. Therefore, a provision to enable line mechanics to specify the work center, release and then execute the work package must be supported by the system.

Change Details

To allow mechanics in stations to assign or change the work center for packages in the Fresh status, the following developments have been incorporated in the **Ramco Aviation** suite

- The process parameter 'Allow Work Center Assignment in Work Reporting Hub?' under the entity type **Package Type** and the entity **All User Defined values including Log Card but excluding "--All Packages--"** has been added in the **Define Process Parameters** activity of **Common Master** to allow / disallow users from specifying the work center for aircraft work packages in the **Work Reporting Hub** page.

Allow Work Center Assignment in Work Reporting Hub? value	Impact based on process parameter value
No / 0	The users cannot specify the work center for execution of packages in Fresh / Draft status.
Yes / 1	The Assign Work Center and Release Package popup appears in the Work Reporting Hub page for users to specify the work center for package execution, if a work center was not already assigned. The users can thus release and execute package in the station at which the aircraft has halted for line maintenance.

- The **Assign Work Center and Release Package** popup has been created for users to specify the work center for the release and execution of the package. The users are given the option to select any of the work centers for which they have access rights.
- The status of the package changes from Fresh to Planned on assigning work center and work reporting details can now be recorded for the package.

Exhibit 1: The Work Reporting Hub page

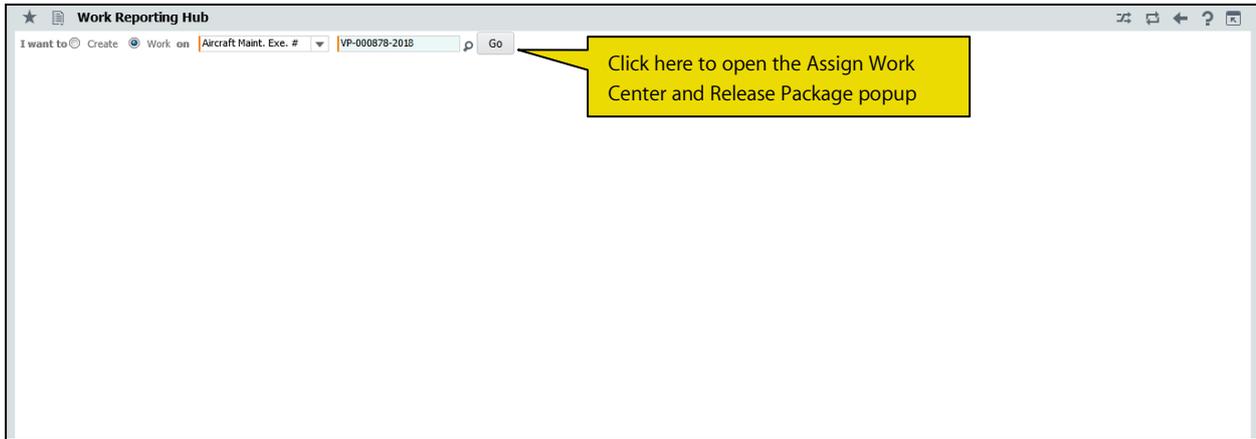
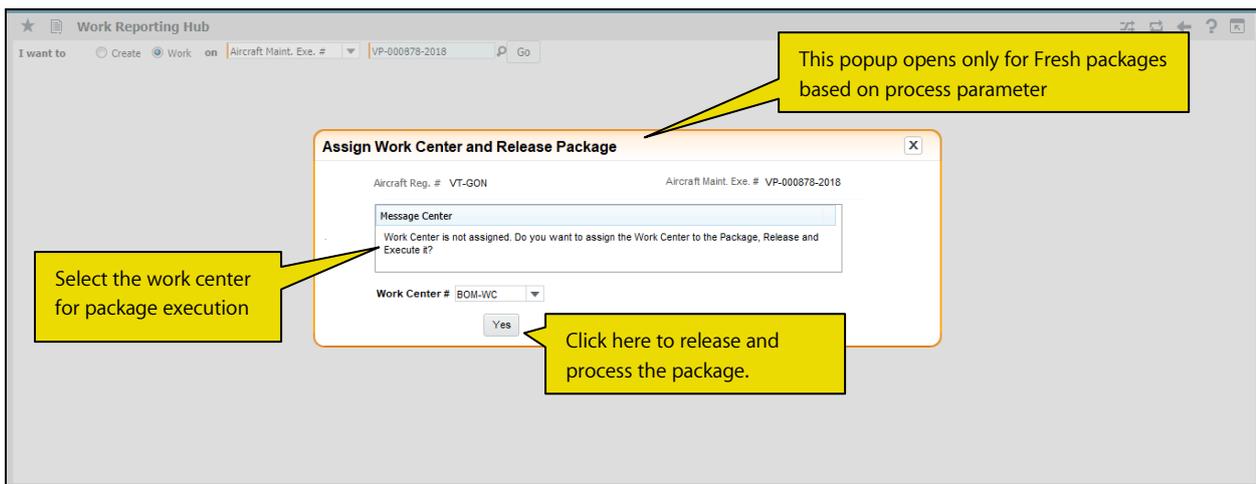


Exhibit 2: The Assign Work Center and Release Package popup in the Work Reporting Hub page



Ability to create a work package in WR Hub without a Work Center

Reference: AHBG-27940

Background

Currently, in Ramco Aviation, it is mandatory for the aircraft mechanics to specify the work center for the execution of the package at the time of package creation itself. However, in real time, it is not uncommon for flights to be diverted to a station other than the arrival station that was earlier planned. As a result, the work center planned for maintenance would not be relevant anymore and hence a new work center would have to be assigned for the execution of the planned package. To address such circumstances, the users must be allowed to create work packages without assigned work center. However, the package can be assigned to the work center attached to the station at which the incoming flight eventually arrives.

Change Details

To facilitate creation of work packages without a specific work center in the **I want to Create** mode in the **Work Reporting Hub** screen, new process parameter "Allow Creation of Package in the Work Reporting Hub without a Work Center?" has been added under the entity type Package Type and the entity Log Card and All User-Defined Package Types in the **Define Process Entities** activity of **Common Master** as illustrated in below table.

Process Parameter Value	Impact
1 for Allowed	The users can create work packages without specifying work center. in the Fresh status
0 for Not Allowed	The users cannot create work packages without specifying work center in the Fresh status

New Edit icon has been added on top of the **Work Reporting Hub** page to enable the users to modify / update the packages. The users can tap on the **Edit** icon to open the **Edit Package Additional Information** popup and update the details including the work center as and when the arrival station is confirmed.

Exhibit 1: The "I want to Create" mode in the Work Reporting Hub screen

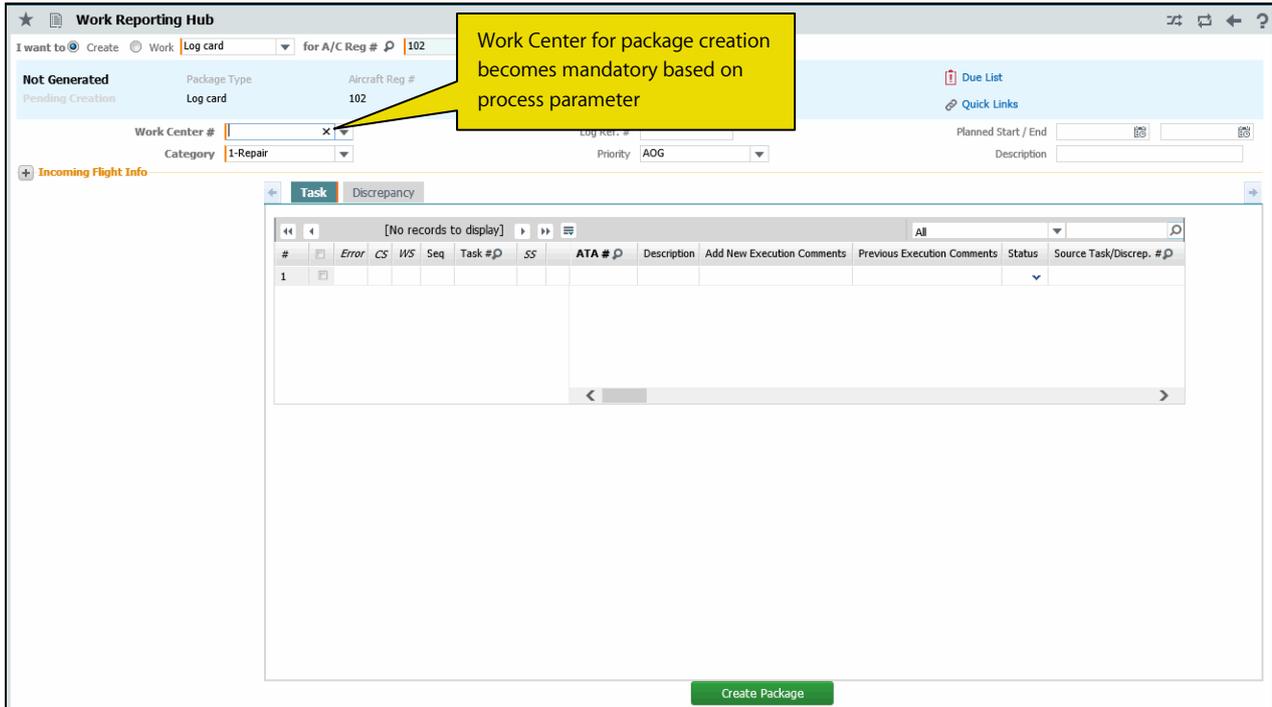
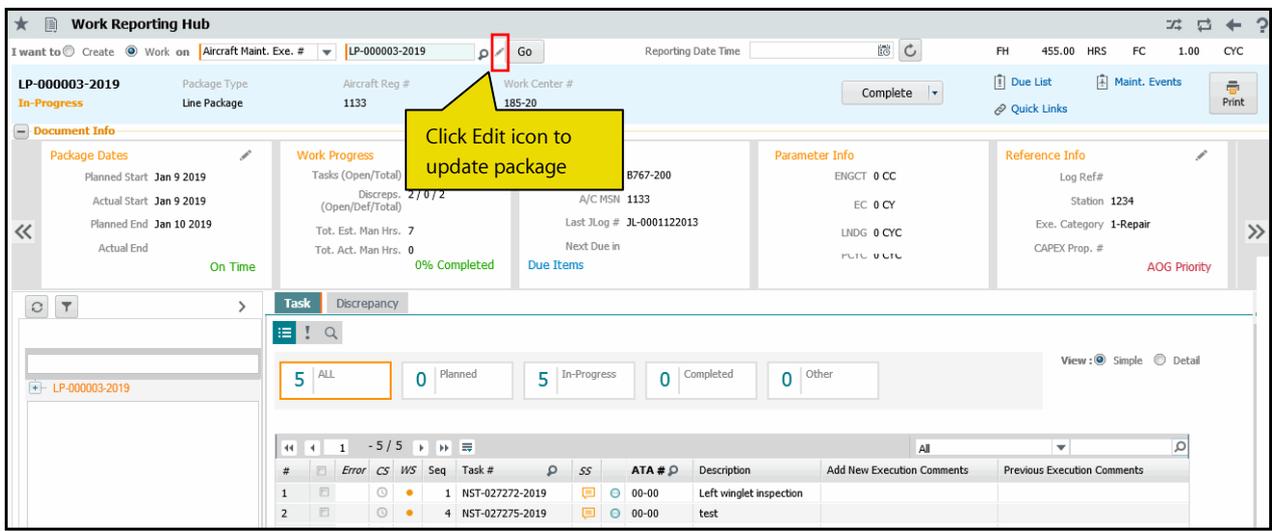


Exhibit 2: The I want to Work mode in the Work Reporting Hub screen



Ability to Sign Off Subtasks in a Popup in the AME Hub

Reference: AHBG-27282

Background

Currently, the mechanics/inspectors can record work against sub tasks in the **Aircraft Maintenance Hub**. However, the users are required to traverse to the **Record Sign Off & Work Completion** screen in **Aircraft Maintenance Execution** to perform the following subsequent functions:

- Signing off at the sub task level
- Viewing Sub tasks
- Signing off at the skill level

A functionality wherein the above actions are supported is now needed in the **Work Reporting Hub** screen to cut out the navigation.

Change Details

In order to enable mechanics and inspectors to sign off tasks right away in the **Work Reporting Hub** screen, the following changes have been incorporated in the **Work Reporting Hub** screen:

- New column **SS** added in the **Task and Discrepancy** tab multilines. This column indicates the sign off status of sub tasks as well as the availability / non-availability of sub tasks for the task. On click of these icons, the **Record Sign-Off & Work Completion** popup showing the associated sub tasks appears. The below tables illustrates the symbolic representation by the icons in the new column SS.

Icons	Meaning
	The task / discrepancy task does has sub tasks and the sign off status is 'Not Required' or 'Signed Off (Voided)
	The task / discrepancy task has sub tasks and is pending for sign off
	The task / discrepancy task has sub tasks and is signed off
	The task /discrepancy task does not have sub tasks and has sign off status as 'Not Required' or 'Signed Off (Voided)'
	The task / discrepancy task does not have sub tasks and is pending for Sign off (could be Pending Mechanic / Pending Inspector / Pending Mech & Insp)
	Task / discrepancy task does not have sub tasks and is signed off

- The users can click the  and  icons for pending tasks and sub tasks to open the **Record Sign-Off & Work Completion** popup. The users can record necessary details for sub tasks in the **Record Sign-Off & Work Completion** popup.
- However, the users can click the **Sign Off Sub Tasks** link to sign off sub tasks of multiple tasks in one go.

Exhibit 1: The Work Reporting Hub page

The screenshot shows the 'Work Reporting Hub' interface. At the top, there are navigation options like 'Create', 'Work on', and 'Aircraft Maint. Ex. #'. Below that, document information for 'VP-000717-2015' is displayed. The main area features a 'Task' tab with a table of tasks. A yellow callout points to a new column labeled 'SS' in the table header, with the text 'New column indicating sign off status of sub tasks'. The table contains 6 rows of task data with columns for #, Error, CS, WS, Seq, Task #, SS, ATA #, Description, Add New Execution Comments, and Previous Execution Comments. Below the table are various action buttons like 'Start Clock', 'Stop Clock', 'Reset', 'Save', 'Complete', 'Report Discrep.', 'Task Action', 'Hold', and 'Release'. At the bottom, there is an 'In-Direct Time Reporting' section with fields for 'In-Direct Category', 'Attendance Type', 'Start Date & Time', and 'End Date & Time'.

Exhibit 2: The Record Sign-Off and Work Completion popup in the Work Reporting Hub page

The screenshot shows the 'Record Sign-Off & Work Completion' popup window. It has a header with 'Date & Time' and 'Flight Hours / Cycles'. Below the header are sections for 'Execution Document Details', 'Search Option', and 'Default Option'. The 'Default Option' section includes fields for 'Mechanic', 'Inspector', 'RII', and 'Add. Sign-Off'. A yellow callout points to these fields with the text 'Specify these fields to sign off tasks / sub tasks'. The main area is a table titled 'Task Sign-Off Details' with columns for #, Task Description, Sub Task Description, Sign-Off Action, Mechanic, Inspector, RII, Add. Sign-Off, and Sign-Off Comments. A red box highlights the 'Sign-Off Action' column, and a yellow callout points to it with the text 'Click here to save the work and sign off details'. At the bottom, there is an 'Update Option' section with a 'Change Status to Completed' dropdown and a 'Record Sign-Off & Completion' button. The bottom right corner shows 'Compliance Date & Time' as '11-16-2018' and '03:50:32 PM'.

Ability to display Detail view by default on launch of Aircraft Work Reporting Hub and Parts Hub

Reference: AHBG-27492

Background

In the screens of **Aircraft Execution Hub**, the users have the option to select either Simple or Detail views of AME packages. However, a provision to launch the screens of **Aircraft Execution Hub** in the **Detail** view at the onset is required so that the users do not have to toggle to the **Detail** view to view the additionally required data in the Detail view columns.

Change Details

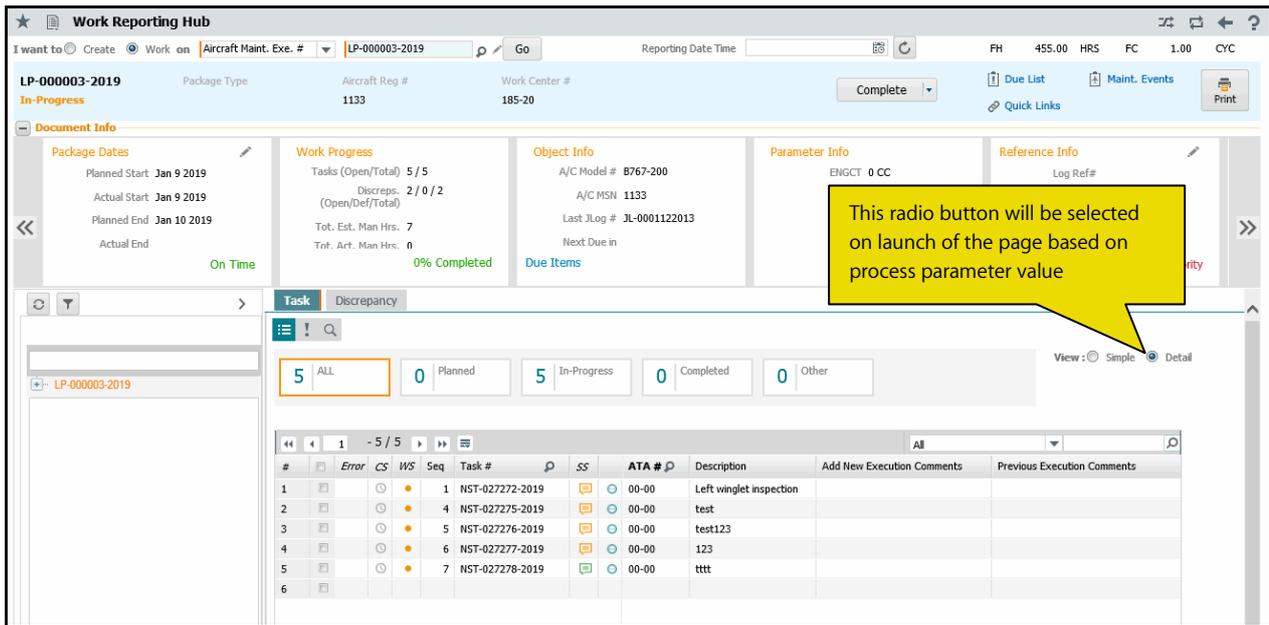
In order to launch the **Detail** view by default, the following additions have been carried out in **Aircraft**

Execution Hub:

- Two new process parameters have been added under the entity type Package Type and the entity All User Defined Package Types including Log Card in the **Define Process Entities** activity of **Common Master** to make the **Detail** view as the default view of the tabs in the **Aircraft Execution Hub** screens. These process parameters can be configured in such a way that the screens of the **Aircraft Execution Hub** component appear in the **Detail** view as illustrated in the below table.

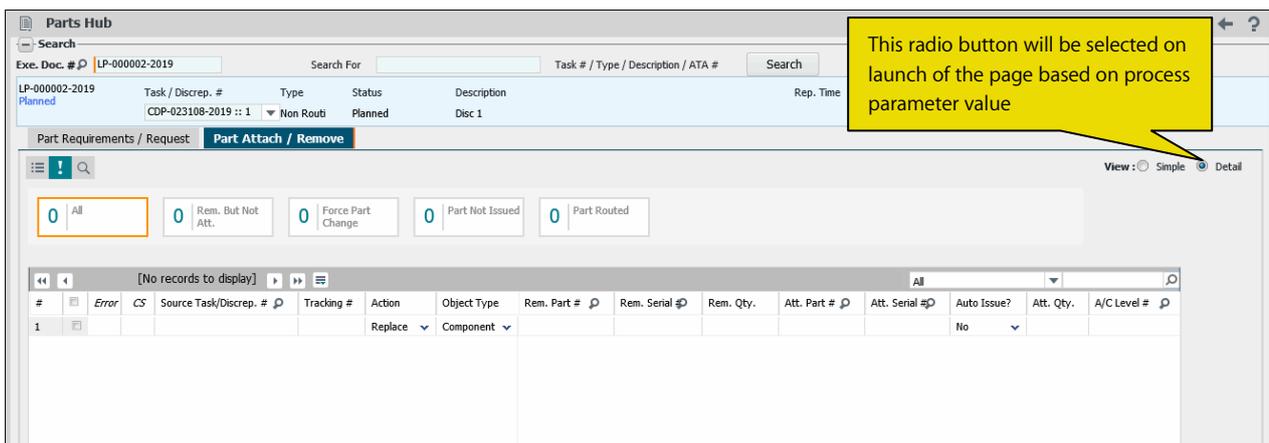
Process Parameter: Default View for Task/Discrepancy tabs on launch of Work Reporting Hub?	
Process Parameter Value	Impact on Task / Discrepancy tab
0 for Simple	On launch of the page, the Task / Discrepancy tab appears in the Simple view of the Task tab
1 for Detail	On launch of the page, the Task tab appears in the Detail view of the Task tab
Process Parameter: Default View for Part Requirements / Request & Part Attach / Remove tabs on launch of Parts Hub?	
Process Parameter Value	Impact on Part Requirements / Request / Part Attach / Remove tab
0 for Simple	On launch, the Part Requirements / Request / Part Attach / Remove tab appears in the Simple view
1 for Detail	On launch, the Part Requirements / Request / Part Attach / Remove tab appears in the Detail view

Exhibit 1: The Task tab in the Work Reporting Hub screen



- On click of Enter in the Exec. Doc. # field / GO button, the Work Reporting Hub screen displays in the Detail view, if the process parameter 'Default View for Task/Discrepancy tabs on launch of Work Reporting Hub?' is set as 1 for Detail.

Exhibit 2: The Part Attach / Remove tab in the Parts Hub screen



- On click of Enter in the Exec. Doc. # field / Search button, the Parts Hub screen displays in the Detail view, if the process parameter Default View for Part Requirements / Request & Part Attach / Remove tabs on launch of Parts Hub? is set as 1 for Detail.

Ability to book Indirect Time from the AME Hub

Reference: AHBG-27348

Background

The Aircraft mechanics / inspectors devote time on meetings, training sessions, team outing, technical records evaluation, etc. in addition to maintenance execution and inspection. Hence, a provision to enable the mechanics / inspectors to book time against tasks other than aircraft / component maintenance is required in **Work Reporting Hub**.

Change Details

In order to facilitate the mechanics / inspectors to book time against non-maintenance related tasks, the following changes have been incorporated in the **Work Reporting Hub** screen:

- The new section **In-Direct Time Reporting** has been added in the **Work Reporting Hub** screen.
- The **In-Direct Time Reporting** section will have the following fields:
 - In-Direct Category drop-down list box to select the category for indirect time booking
 - Attendance Type drop-down list box to select the type of attendance for indirect time booking
 - Start Date & Time of task
 - End Date & Time of task
 - Comments on task /time booking
 - New buttons Start Clock, Stop Clock and Reset buttons introduced in the new section. The Start Clock and Stop Clock buttons enable users to begin and end time booking to the current UTC / Station date & time for non-maintenance tasks. The Reset button resets the start time to the current UTC / Station date & time.

Exhibit 1: The In-Direct Time Booking section in the Tasks tab of the eLog screen

The screenshot displays the 'Work Reporting Hub' interface. At the top, it shows document information for 'VP-000717-2015' with status 'In-Progress'. Below this is a 'Task' tab with a summary bar showing 4 tasks in 'ALL' status, 0 'Planned', 2 'In-Progress', 2 'Completed', and 0 'Other'. A table lists 6 tasks with columns for #, Error, CS, WS, Seq, Task #, SS, ATA #, Description, Add New Execution Comments, and Previous Execution Comments. The tasks include 'Aircraft Inspection', 'Cleaning', 'Check IFE', and 'New task'. Below the table are buttons for 'Start Clock', 'Stop Clock', 'Reset', 'Save', 'Complete', 'Report Discrep.', 'Task Action', 'Hold', and 'Release'. At the bottom, the 'In-Direct Time Reporting' section is highlighted in red, containing fields for 'In-Direct Category', 'Attendance Type', 'Start Date & Time', 'End Date & Time', and 'Comments', along with 'Start Clock', 'Stop Clock', and 'Reset' buttons. A yellow callout box on the left points to this section with the text 'New section for In-Direct time booking'.

Ability to restrict deferral of discrepancy without sign off information

Reference: AHBG-27922

Background

In aircraft maintenance, the deferring of a discrepancy is considered a critical action that must be tracked for the purpose of future reference / maintenance needs. Currently, Ramco Aviation allows the aircraft mechanics to defer a discrepancy without sign off. However, it is required that the system sets the sign off as mandatory for discrepancy deferral for a superior / closer tracking of maintenance execution.

Change Details

Now, a provision to mandate the corrective action upon discrepancy deferral (thereby mandating sign off requirements) will be provided in the following screens:

1. Record Aircraft Maintenance Execution Details
 - i. Discrepancies tab
2. Aircraft Work Reporting Hub:
 - i. Discrepancy tab Multiline
 - ii. Discrepancy Action popup
 - iii. Manage Discrepancy popup
3. MechanicAnywhere
 - i. Create Discrepancy screen
 - ii. Discrepancy Write Up popup
 - iii. New Corrective Action popup
 - iv. Action Change popup

In order to mandate sign off during discrepancy deferral, the following developments have been incorporated in Ramco Aviation:

- New process parameter 'Mandate Corrective Action during discrepancy deferral?' has been added under the entity type Package Type and the entity All User-Defined Package Types in the
- Define Process Parameters activity of Common Master to mandate corrective action against a deferred discrepancy.

Process Parameter Value	Impact in the above-listed screens
1 for Yes	The system will mandate the entry of corrective action when the mechanic/inspector tries to defer a discrepancy
0 for No	The system will not mandate the entry of corrective action when the mechanic/inspector tries to defer a discrepancy

- Now, after the user enters corrective action, the system will fetch the sign off requirements based on the process parameter 'Default Sign-off Requirement for Non Routines' and then if the process parameter 'Enforce Sign-Off' is set as 1 (Yes), the system mandates sign off details upon deferral of the

discrepancy.

Exhibit 1: The Discrepancies tab of the Record Aircraft Maintenance Execution screen

Record Aircraft Maintenance Execution Details

Exec. Details Aircraft Reg # 10000 Station Montreal Work Center YUL-104-02 Date & Time 23-01-2019 01:04:46 PM Fit. Hrs 15.00 Fit. Cycles 17.00

Open Items (26) Discrepancies (3) Work Information (1) Component Replacement (1) Material Request (0)

Search Options: Log Cards Minor Major Search by --Search by-- Search For Go

Execution Record Details

Exe. Ref. # Line Pack VP-002097-2016 Status In-Progress HS ES NR Category 1-Repair Ref. Time Zone ET

Log # 467 Orig. Work Center YUL-104-02 Maint.Event Package Desc.

Discrepancy

Log Item # - Tracking # - Seq #	Record Status	Status	HS	ES
467/1 2 2	UnderResolution	Not Required		NR

Type MIREP ATA # 00-00 Action Defer Repair Classification Source Type & No

Discrepancy Description dis1 Corrective Action

Part Required? No Corrosion Related? No

Major Item? No Repeat No

Radio FH Other Parameters Calendar Days

Report 14-07-2016 02:04:44 PM Deferral Type Reason for Deferral Auth. Ref. #

Next Steps

Important Dates

Links

Check Part Availability

Bulk Material Request

Create Engg. Service Request

Select Action as Defer for deferring discrepancy

Corrective Action mandatory for deferring discrepancy based on process parameter

Exhibit 2: The Discrepancy tab of the Work Reporting Hub screen

Work Reporting Hub

I want to Create Work on Aircraft Maint. Exe. # 789900042873 Reporting Date Time FH 0.00 HRS FC 0.00 CYC

789900042873 Hold Package Type Visit Package Aircraft Reg # AC-STE-01 Work Center # 185-20 Complete Due List Maint. Events Quick Links Print

Document Info

Task Discrepancy

Source Task/Discrep. # 789900120758 Search By Go View: Simple Detail

#	Error	CS	WS	Type	Log Item	SS	ATA #	Description	Corrective Action	Discrepancy #	Action	Status	Source Task/Discrep. #
1				MIREP	789900042873/1		05-00	testy		789900120758	Defer	UnderResolution	ME/Log-1.3
2				MIREP									

Start Clock Stop Clock Reset Save Close Report Discrep. Discrep. Action Hold Release

Request Part Change Part Sign Off Subtasks Quick Links

In-Direct Time Reporting

Corrective Action mandatory for deferring discrepancy based on process parameter

Select Action as Defer for deferring discrepancy

Ability to display all Deferred Discrepancies in AME Hub Due Items popup including the ones in open packages

Reference: AHBG-26554

Background

Currently, the users are able to retrieve deferred discrepancies from packages only in the Completed or Closed status from the **Work Reporting Hub** screen. However, a provision is required wherein the users are able to access deferred discrepancies from the open packages also.

Change Details

To enable the retrieval of deferred discrepancies from the Planned and In Progress packages in addition to Completed and Closed packages in the **Deferred Discreps.** tile card in the **Due Items** popup of the **Work Reporting Hub** screen, the following has been developed as part of the enhancement:

- New process parameter 'Display Option for Deferred Discrepancies in Due Items of Work Reporting Hub?' under the entity type Package Type and the entity All Packages has been defined in the **Define Process Entities** activity of **Common Master** to determine the retrieval and display of deferred discrepancies based on the status of the package in the **Deferred Discreps.** tile card.

Process Parameter Value	Impact on Retrieval of Deferred discrepancies in Due Items popup
1 for All Deferred Discrepancies	The Deferred Discreps. tile card displays the count of discrepancies in the 'Deferred' status from the Planned, In Progress, Completed and Closed packages
0 for Only Deferred Discrepancies from Completed/Closed Packages	The Deferred Discreps. tile card displays the count of discrepancies in the 'Deferred' status from the Completed and Closed packages

Exhibit 1: The Due Items popup in the Work Reporting Hub screen

The screenshot displays the 'Due Items' popup window. At the top, there are search criteria and filters. Below that, search results are shown with counts for different statuses: 0 Selected, 95 Scheduled Tasks, 14 As Required Tasks, 2 Deferred Discreps., and 5 Pending Discreps. A table lists the items, with columns for #, Due, Task / Discrep #, Description, ATA #, Type, Job, EO #, Part #, Serial, Rem. FH, Rem. FC, Rem. Days, Trig. Param, and Exe. Doc. #. A yellow callout box points to the 'Deferred Discreps.' filter and the table rows, containing the text: 'Retrieves Deferred discrepancies from packages based on status'.

#	Due	Task / Discrep #	Description	ATA #	Type	Job	EO #	Part #	Serial	Rem. FH	Rem. FC	Rem. Days	Trig. Param	Exe. Doc. #
1		W717100002/1	DirectDP1	00-00								-565D 7H 4M	Calendar	
2		W717100002/2	DirectDP2									-565D 7H 4M	Calendar	

Addition of Radio Communication in Manage Discrepancy pop-up in AME Hub

Reference: AHBG-27930

Background

In real time aircraft maintenance, the aircraft mechanics who report discrepancies also suggest corrective action for resolving the discrepancy at the same time. Hence, a provision to record the suggestive action at the time of creation / reporting the discrepancy is required to be built in the **Ramco Aviation** system.

Change Details

To enable the users to suggest corrective action for a discrepancy at the time of reporting / creation, the following change has been undertaken in the **Work Reporting Hub** screen:

- New input field **Radio Communication** has been added in the **Manage Discrepancy** popup
- Further, in the event of the user not providing description for the discrepancy, the system copies the text provided in the **Radio Communication** field to the **Description** field.

Exhibit 1: The **Manage Discrepancy** popup in the **Work Reporting Hub** screen

The screenshot shows the 'Manage Discrepancy' popup window. At the top, there are fields for 'Source Task/Discrep. #', 'Source Desc.', 'Type' (set to MIREP), 'Log Item #', 'ATA #', 'Reported By' (00041383), 'Reported Date', and 'Reported Time'. A yellow callout box labeled 'New input field' points to the 'Radio Communication' field. Below this is a 'Description' field. The 'More Info' section contains several dropdown menus: 'Parts Required?', 'Corrosion Related?', 'Major Item?', 'Category', 'Repair Class.', 'Repeat?' (set to No), 'Skill #', 'Zone #', 'Work Area #', 'Est. Man Hrs.', 'Exe. Phase', and 'Exec. Category'. At the bottom, there is an 'Action' section with a green 'Report Discrepancy' button.

Review and modification of Corrective Action in AME Hub

Reference: AHBG-27946

Background

Currently, Ramco Aviation does not allow the users to review / modify corrective action of discrepancies that have been closed / deferred in the **Work Reporting Hub** screen. However, a provision to allow review and modification of corrective action of closed / deferred discrepancies is required for the supervisors to update the corrective action entered by the mechanics / supervisors.

Change Details

To enable the users to review / modify corrective action of discrepancies in the Closed/Deferred status, the following development has been built-in in the **Work Reporting Hub** screen:

- New process parameter “Allow review of Closed/Deferred Discrepancies in Discrepancy Action popup of Work Reporting Hub?” has been added under the entity type Package Type and the entity Log Card and all user defined Package Types in the **Define Process Entities** activity of **Common Master** to enable the users to access the **Discrepancy Actions** popup for the closed /deferred discrepancies.

Process Parameter Value	Impact
1 for Allowed	On click of the Discrep. Actions button, the Discrepancy Actions window opens up for the closed / deferred discrepancies allowing the users to review the discrepancy details
0 for Not Allowed	The Discrep. Actions button is not enabled for the closed / deferred discrepancies

- New process parameter “Allow modification of Corrective Action of Closed Discrepancies in Discrepancy Action popup of Work Reporting Hub?” has been added under the entity type Package Type and the entity Log Card and all user defined Package Types in the Define Process Entities activity of Common Master to enable users to modify corrective action against a closed discrepancy in the **Discrepancy Actions** popup.

Process Parameter Value	Impact
1 for Allowed	The users can update/modify the corrective action for the closed discrepancies in the Discrepancy Actions window.
0 for Not Allowed	The users cannot update/ modify the corrective action for the closed discrepancies in the Discrepancy Actions window.

Exhibit 1: The Work Reporting Hub screen

The screenshot shows the 'Work Reporting Hub' interface. At the top, there are navigation options like 'I want to Create Work on' and filters for 'Aircraft Maint. Exe. #', 'Aircraft Reg #', and 'Work Center #'. Below this is a 'Document Info' section with a 'Task' dropdown set to 'Discrepancy'. A summary bar shows counts for 'ALL' (3), 'Under Resolution' (2), 'Completed' (1), 'Closed' (0), and 'Other' (0). A table lists discrepancies with columns for #, Error, CS, WS, Type, Log Item, ATA #, Description, Corrective Action, Discrepancy #, ED, Action, Status, and Source Task/Discrep. #. A yellow callout points to the 'Discrep. Action' button, stating 'This button is enabled based on process parameter'. At the bottom, there are buttons for 'Start Clock', 'Stop Clock', 'Reset', 'Save', 'Close', 'Report Discrep.', 'Discrep. Action', 'Hold', and 'Release'.

Exhibit 2: The Discrepancy Actions popup in the Work Reporting Hub screen

The screenshot shows the 'Discrepancy Actions' popup window. It displays the discrepancy number 'CDP-023106-2019' and description 'Test 123'. There are tabs for 'Corrective Action' and 'Status Change'. Under 'Corrective Actions', a table shows one entry with 'SS' and 'Corrective Action' 'test 35ty'. A yellow callout points to the 'Corrective Action' text field, stating 'The field becomes modifiable for closed discrepancies based on process parameter'. The 'Sign Off Details' section includes 'Requirement' (Mechanic, Inspector, RII, Additional) and 'Employee' (00001421, DWIGHT NIGHTINGALE). At the bottom, there are sections for 'Sign Off Comments' (Prev. Comments, New Comments), 'Actual Date Time', and 'Component Details'. A 'Save' button is visible at the bottom right.

Ability to restrict deferral of discrepancy without sign off information

Reference: AHBG-27922

Background

In aircraft maintenance, the deferring of a discrepancy is considered a critical action that must be tracked for the purpose of future reference / maintenance needs. Currently, Ramco Aviation allows the aircraft mechanics to defer a discrepancy without sign off. However, it is required that the system sets the sign off as mandatory for discrepancy deferral for a superior / closer tracking of maintenance execution.

Change Details

Now, a provision to mandate the corrective action upon discrepancy deferral (thereby mandating sign off requirements) will be provided in the following screens:

1. Record Aircraft Maintenance Execution Details
 - i. Discrepancies tab
2. Aircraft Work Reporting Hub:
 - i. Discrepancy tab Multiline
 - ii. Discrepancy Action popup
 - iii. Manage Discrepancy popup
3. MechanicAnywhere
 - i. Create Discrepancy screen
 - ii. Discrepancy Write Up popup
 - iii. New Corrective Action popup
 - iv. Action Change popup

In order to mandate sign off during discrepancy deferral, the following developments have been incorporated in Ramco Aviation:

- New process parameter 'Mandate Corrective Action during discrepancy deferral?' has been added under the entity type Package Type and the entity All User-Defined Package Types in the Define Process Parameters activity of Common Master to mandate corrective action against a deferred discrepancy.

Process Parameter Value	Impact in the above-listed screens
1 for Yes	The system will mandate the entry of corrective action when the mechanic/inspector tries to defer a discrepancy
0 for No	The system will not mandate the entry of corrective action when the mechanic/inspector tries to defer a discrepancy

- Now, after the user enters corrective action, the system will fetch the sign off requirements based on the process parameter 'Default Sign-off Requirement for Non Routines' and then if the process parameter 'Enforce Sign-Off' is set as 1 (Yes), the system mandates sign off details upon deferral of the discrepancy.

Exhibit 1: The Discrepancies tab of the Record Aircraft Maintenance Execution screen

Exhibit 2: The Discrepancy tab of the Work Reporting Hub screen

Ability to indicate Task level Doc. Attachments inside a package from the Work Reporting Hub

Reference: AHBG-28434

Background

From the **Work Reporting Hub** screen, the users are required to use the quick links to navigate to the **Delete/View Associated Doc. Attachments** screen of the **Object Attachment** business component in the **Utilities BPC**, if they wish to view documents attached to tasks / packages. However, more often than not, the users would realize that there are no documents attached against the task/discrepancy for which they have taken the link. Hence, a provision to quickly indicate to the user as to whether any document(s) is available against the tasks/discrepancies in the **Work Reporting Hub** screen is needed, so that they can traverse to the relevant screen to view the documents for tasks/discrepancies and not for the tasks / packages for which no attachments are available.

Change Details

To indicate whether attachments are available against tasks / discrepancies and to view attachments, if available, the following development has been built in the **Work Reporting Hub** screen:

- New column Att added in the multiline in the Task and Discrepancy tabs in both the Simple and Detail views
- The new column - Att will display the  icon, if any attachments have been uploaded against the task / discrepancy in the package. On the contrary, the Att column does not show any icon, if no associated attachments exist for the task / discrepancy
- The users can click the  icon to open the Deleted / View Associated Doc. Attachments screen and then view the complete list of files uploaded against the task / discrepancy. On launch of the Deleted / View Associated Doc. Attachments screen, the key code details of the task / discrepancy are copied to the Key Code field in the Additional Search drop-down list box in the Search section and auto-search is executed to retrieve files related to the task / discrepancy.
- A hyperlink text '**Attachment(s) Available**' in the **Description** tile in the **Document Info** section will indicate whether attachments are indeed available against the package, as a whole. On click of the link, the users will be placed in the **Deleted / View Associated Doc. Attachments** screen. On launch of the **Deleted / View Associated Doc. Attachments** screen, the package # is copied to the Aircraft Maintenance Exe. Ref. # field and auto-search is executed to retrieve files related to the tasks / discrepancies in the package. If no documents are attached against the package, the system will display '**Attachment(s) Not Available**' as a hyperlink

Exhibit 1: The Task tab in the Work Reporting Hub screen

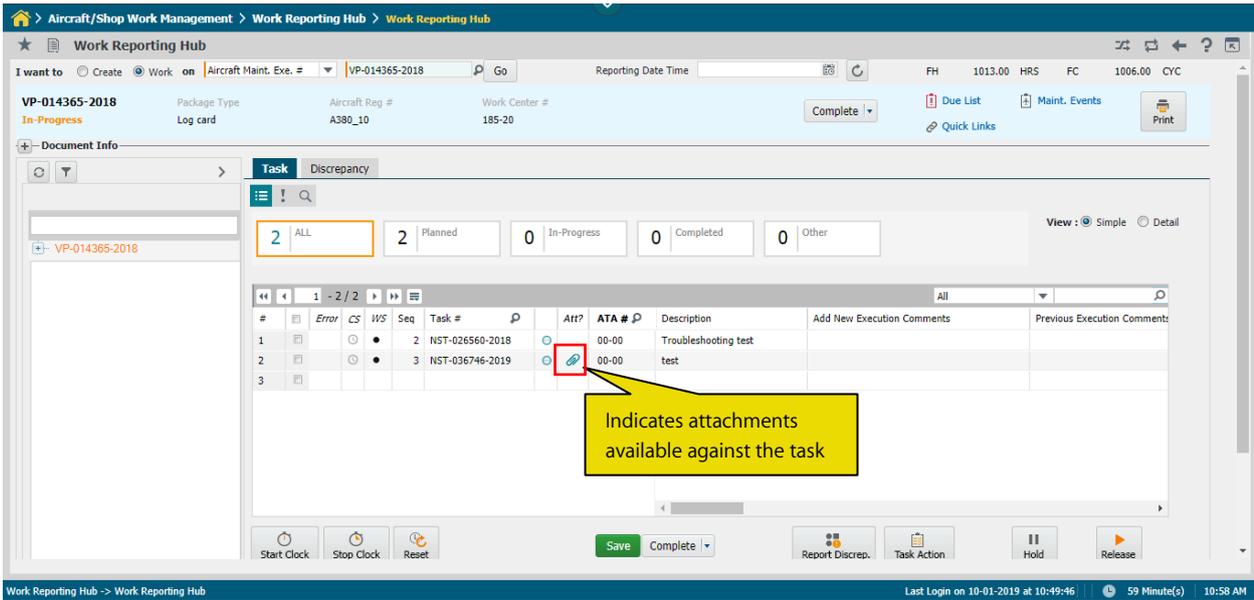


Exhibit 2: The Discrepancy tab in the Work Reporting Hub screen

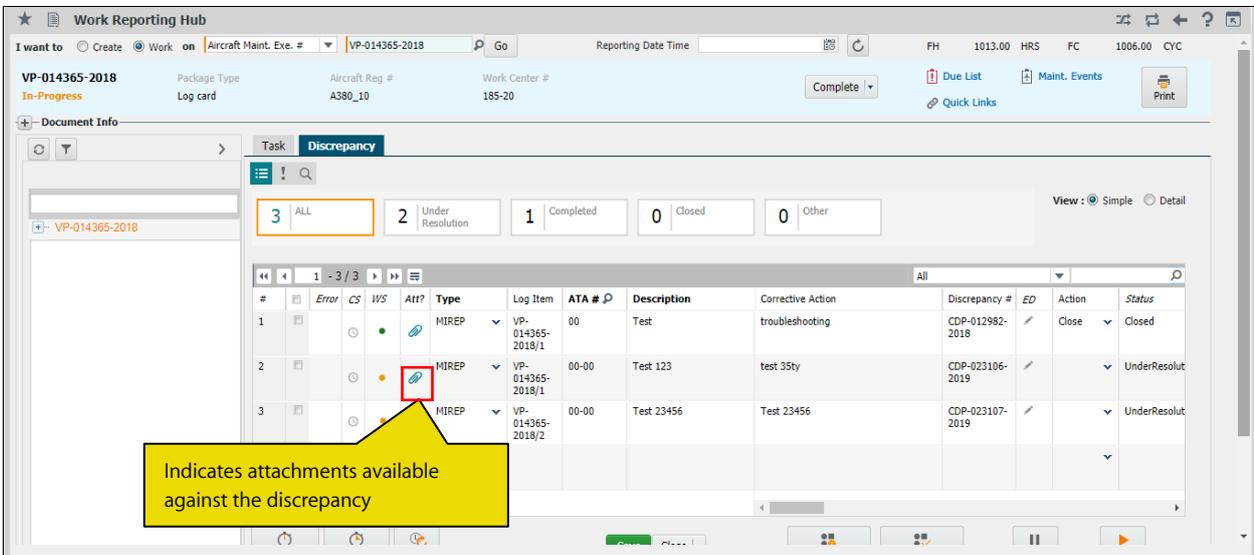
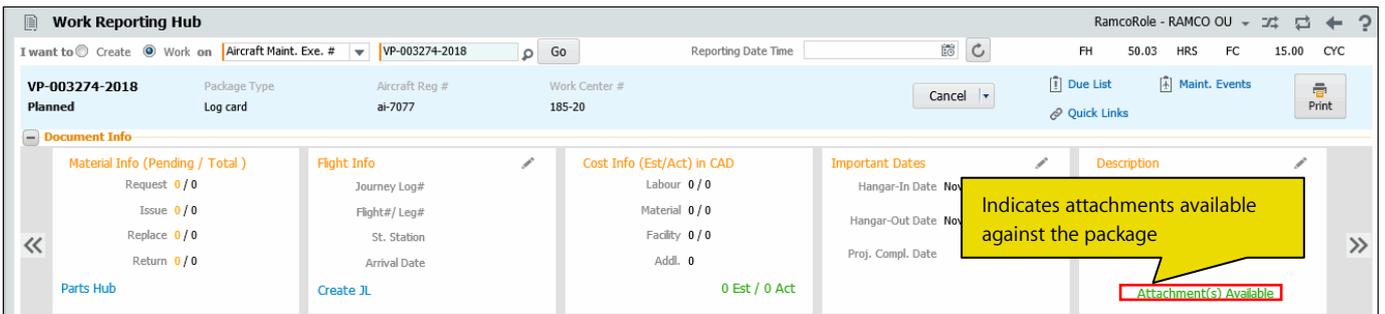


Exhibit 3: The Description tile in the Document Info section in the Work Reporting Hub screen



WHAT'S NEW IN PARTS HUB?

Ability to display Task Description in the Task/Discrep. # combo of Parts Hub

Reference: AHBG-29133

Background

In the **Parts Hub** screen, the mechanics are required to select the task / discrepancy against which they intend to execute the component replacement or generate the material request. However, in selecting the task / discrepancy from the package, the description of the task / description would help them better to identify the task besides the identifier (task # / discrepancy #). Currently, the search filter only displays the task # / discrepancy # and seq #. Hence, it would help the users to precisely identify the task / discrepancy that they wish to work with, if the search filter provides the task description in addition to its identifier.

Change Details

With this enhancement, the users will now be able to view the task description besides the task # / discrepancy # and the seq # in the **Task / Discrepancy #** drop-down list box in the **Search** section of the **Parts Hub** screen in the following format:

Task # :: Seq # :: Task Description ▼

The **Task / Discrepancy #** drop-down list box has now been enabled to dynamically change its width depending on the length of the field options.



Note: In effect, all drop-down list boxes in the Ramco Aviation product have now been enabled to widen in direct proportion to the length of the list values.

Exhibit 1: Identifies the changes in the **Parts Hub** screen

The screenshot shows the 'Parts Hub' application interface. At the top, there is a search bar with a dropdown menu. The dropdown menu is open, showing a list of options. A yellow callout box points to the dropdown menu with the text: 'The drop-down list box now also displays task description'. Below the search bar, there is a table with columns: #, Error, MS, AVL, Source Task/Discrep. #, Seq #, Tracking #, Part #, Required Qty, Qty. Available, UOM, Priority, Stock Status, Warehouse #, Part Description, and Need. The table contains 8 rows of data.

#	Error	MS	AVL	Source Task/Discrep. #	Seq #	Tracking #	Part #	Required Qty	Qty. Available	UOM	Priority	Stock Status	Warehouse #	Part Description	Need
1			No	0000-B76-0007999	1	1	00-0001-	1.00000000	0.00000000	EA		Aveos O...	0123	PACKING	
2			No	0000-B76-0007999	1	1	00-200-	1.00000000	0.00000000	EA		Aveos O...	0123	LOCKWASHER WASHER	
3			No	0000-B76-0007999	1	1	0-0510-3-	1.00000000	0.00000000	EA		Aveos O...	0123	WOOD FLATHEAD BR	
4			No	0000-B76-0007999	1	1	02432:P9910	1.00000000	0.00000000	EA		Aveos O...	0123	CLOTH	
5			Yes	0000-B76-0007999	1	1	3445MK6229:812	1.00000000	11,940.000000	EA	Normal	Aveos O...	0123	TCAS 7-COMPLIANT KIT	2019
6			No	0000-B76-0007999	1	1	D5211125800050:	1.00000000	0.00000000	EA	Normal	Aveos O...	0123	ROD END BEARING	2019
7			No	0000-B76-0008000	2	2	00-200-	3.00000000	0.00000000	EA		Aveos O...	0123	LOCKWASHER WASHER	
8			No	0000-B76-0008000	2	2	D5211125800050:	2.00000000	0.00000000	EA		Aveos O...	0123	ROD END BEARING	

Ability to group parts and create one SWO/RO from Parts Hub based on Group ID

Reference: AHBG-29085

Background

Currently, in **Parts Hub**, each part removal record generates an individual shop work order or repair order based on the pre-defined execution facility defined for the part. This results in the generation of multiple shop work orders / repair orders for multiple Component Removal transactions. Further, each of these orders would generate as many customer orders leading to billing issues for customers. Therefore, it would be prudent to have a feature wherein all the removals against multiple CR transaction are bundled together to generate a single work order / repair order. Similar feature is already available to the users in the **Shop Work Order** business component.

Change Details

In order to facilitate the generation of a single work order or repair order against multiple component removals in the **Parts Attach / Remove** tab of the **Parts Hub** screen, the following new developments have been incorporated in the **Ramco Aviation** system:

- New input field - **Group ID** added in the **Parts Attach / Remove** tab to record the identifier that will group multiple removals
- Single shop work / repair order to be created for a Group ID. In other words, a single shop work order / repair order will be created for all component removals with the same group ID.
- The shop work orders generated based on Group ID will have **Job Type** set as **Piece Part** and **Status** set as **Draft** for removed parts with **Exe. Facility** set as **In-House** in **Part Administration / Parts Hub**
- The repair orders generated based on Group ID will have **Shop Job Type** set as **Piece Part** and **Status** set as **Draft** for removed parts with **Exe. Facility** set as **Outsource** in **Part Administration / Parts Hub**
- On click of the **Change Part** pushbutton, single shop work orders / repair orders will be generated for all removals based on Group ID.

Exhibit 1: Identifies the changes in the **Parts Hub** screen

The screenshot shows the 'Parts Hub' interface. At the top, there is a search bar and filters for 'Exe. Doc. #', 'Task / Discrep. #', 'Type', 'Status', 'Description', and 'Rep. Time'. Below this is a summary bar with 'Part Requirements / Request' and 'Part Attach / Remove' tabs. A summary row shows counts for 'All' (15), 'Pending' (3), 'Removed' (8), 'Replaced' (4), and 'Other' (0). The main table has columns: #, Error, CS, Source Task/Discrep. #, Tracking #, Action, Object Type, Att. Qty., A/C Level #, A/C Position #, Rem. Disposition, Group ID, and Rem. Condition. The 'Group ID' column is highlighted with a yellow callout. A dropdown arrow in the 'Object Type' column is also highlighted with a yellow callout. At the bottom, there are buttons for 'Save as Draft', 'Change Part', and 'Delete Draft'.

#	Error	CS	Source Task/Discrep. #	Tracking #	Action	Object Type	Att. Qty.	A/C Level #	A/C Position #	Rem. Disposition	Group ID	Rem. Condition
1			NST-027522-2019	1	Remove	Other Parts				1-Repair		
2			NST-027522-2019	1	Remove	Other Parts				1-Repair		
3			NST-027522-2019	1	Remove	Other Parts						
4												
5												
6												
7												
8												

Ability to Route Removed Parts to Internal or External Repair from the Parts Hub

Reference: AHBG-28359

Background

In aircraft maintenance, there are some parts that can be maintained at both internal work centers and external repair agencies. For such parts on removal, the Exe. Facility attribute is set as In-house & Outsource and the system by default generates shop work order (indicating routing to internal work center). However, a decision to route the part to an external or internal execution facility is taken during removal based on many factors, such as the condition of the part and the capabilities existing at the execution facilities. Hence, the **Parts Hub** screen must enable the mechanics to choose between internal or external maintenance for those removed parts that are entitled to both internal and external maintenance.

Change Details

To enable the mechanics to select the execution facility for a maintenance object in the **Parts Hub**, the following development has been incorporated:

- New drop-down list box – **Exe. Facility** added in the multiline in the **Part Attach / Remove** tab. The new field will display in both **Simple** and **Detailed** views
- The drop-down list box will display these values
 - Blank
 - In-house
 - Outsource
- The users can select the **In-House** to generate a shop work order or **Outsource** to generate a repair order for the part on click of the **Change Part** pushbutton in the **Part Attach / Remove** tab

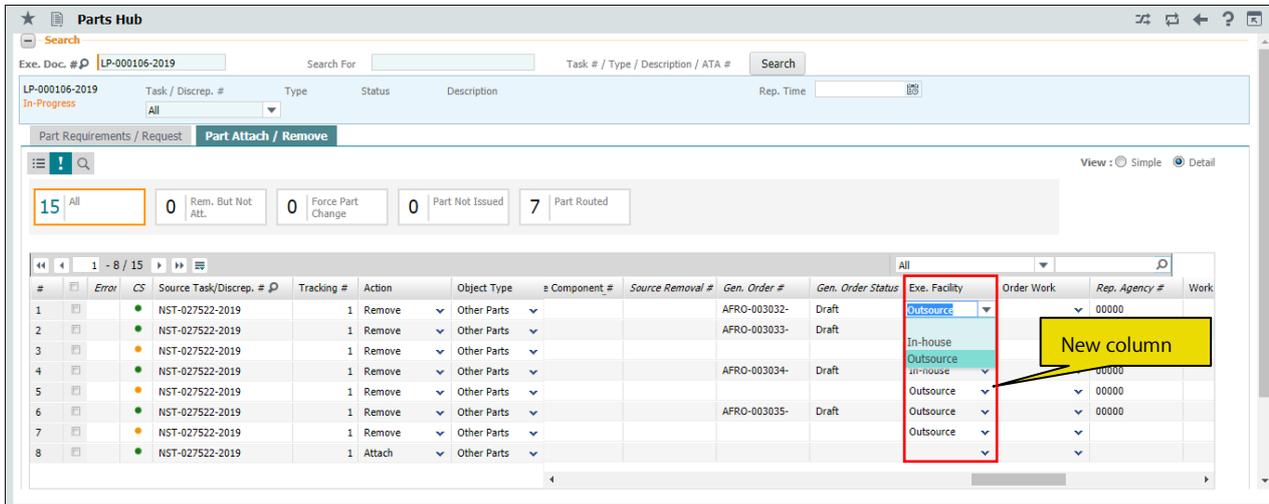


Note: The “Create Order on Disposition” process parameter must be set as Execution Order for the disposition code of CR

Execution Order for the disposition code of CR	Exe. Facility as set for part	Exe. Facility as selected by user in Parts Hub	Impact on routing of removed part
Execution Order	In-house	Blank	On click of Change Part , the Exe. Facility is set to In-house and a shop work order is generated for the part, if not specified in the CR
Execution Order	Outsource	Blank	On click of Change Part , the Exe. Facility is set to Outsource and a repair order is generated for the part, if not specified in the CR
Execution Order	In-house	In-house	On click of Change Part , a shop work

			order is generated for the part against the work center as defined for the part in the Maintain Maintenance Information for Parts activity, if not specified in the CR
Execution Order	Outsource	Outsource	On click of Change Part , the repair order is generated for the part against the repair agency as defined for the part in the Maintain Maintenance Information for Parts activity, if not specified in the CR
Execution Order	In-house & Outsource	In-house	On click of Change Part , a shop work order is generated for the part against the work center as defined for the part in the Maintain Maint. Information for Parts activity, if not specified in the CR
Execution Order	In-house & Outsource	Outsource	On click of Change Part , the repair order is generated for the part against the repair agency as defined for the part in the Maintain Maintenance Information for Parts activity, if not specified in the CR

Exhibit 1: The Part Hub screen



Ability to view Removed and Attached Part Description for Component Removals/Attachments/Replacements done in Parts Hub

Reference: AHBG-27492

Background

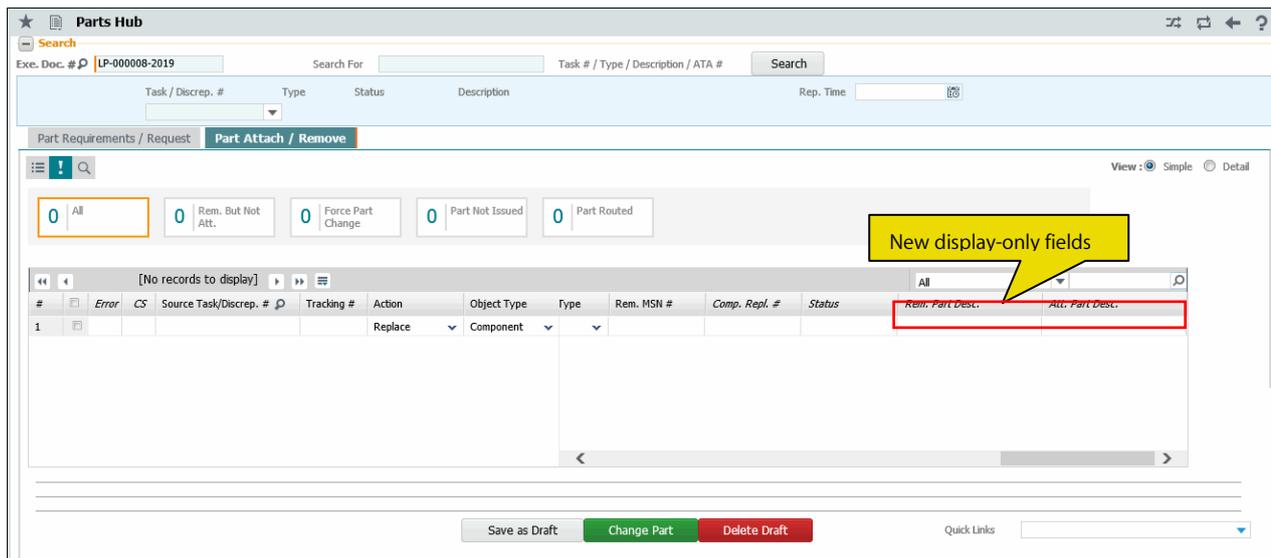
Currently, in the **Parts Hub** screen, under the **Part Attach/Remove** tab, the removed part # and installed part # are displayed without the part description. However, the mechanics / inspectors may not be able to identify the actual parts based on the part #. Hence, the description of both removed and installed parts is required at the time of performing component removal/attachment/replacement transactions.

Change Details

In order to facilitate the users in identifying the exact parts that are being removed / attached in the **Parts Hub** screen, the following improvements have been undertaken in the **Part Attach/Remove** tab:

- The **Rem. Part Description** column has been added in the multiline to retrieve / display the description of the part being removed
- The **Att. Part Description** column has been added in the multiline to retrieve / display description of the part being attached

Exhibit 1: The **Part Attach / Remove** tab in the **Parts Hub** screen



Ability to display Task Description in the Task/Discrep. # combo of Parts Hub

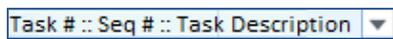
Reference: AHBG-29133

Background

In the **Parts Hub** screen, the mechanics are required to select the task / discrepancy against which they intend to execute the component replacement or generate the material request. However, in selecting the task / discrepancy from the package, the description of the task / description would help them better to identify the task besides the identifier (task # / discrepancy #). Currently, the search filter only displays the task # / discrepancy # and seq #. Hence, it would help the users to precisely identify the task / discrepancy that they wish to work with, if the search filter provides the task description in addition to its identifier.

Change Details

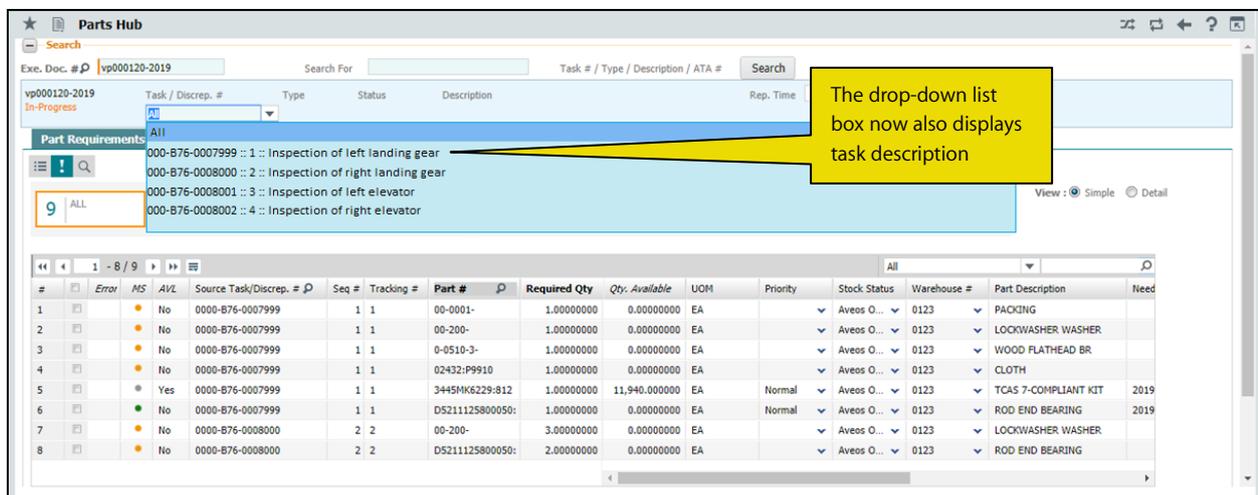
With this enhancement, the users will now be able to view the task description besides the task # / discrepancy # and the seq # in the **Task / Discrepancy #** drop-down list box in the **Search** section of the **Parts Hub** screen in the following format:



The **Task / Discrepancy #** drop-down list box has now been enabled to dynamically change its width depending on the length of the field options.

Note: In effect, all drop-down list boxes in the **Ramco Aviation** product have now been enabled to widen in direct proportion to the length of the list values.

Exhibit 1: Identifies the changes in the **Parts Hub** screen



WHAT'S NEW IN CONFIGURATION MANAGEMENT?

Ability to induct PBH Parts into Technical Records Hub

Reference: AHBG-27920

Background

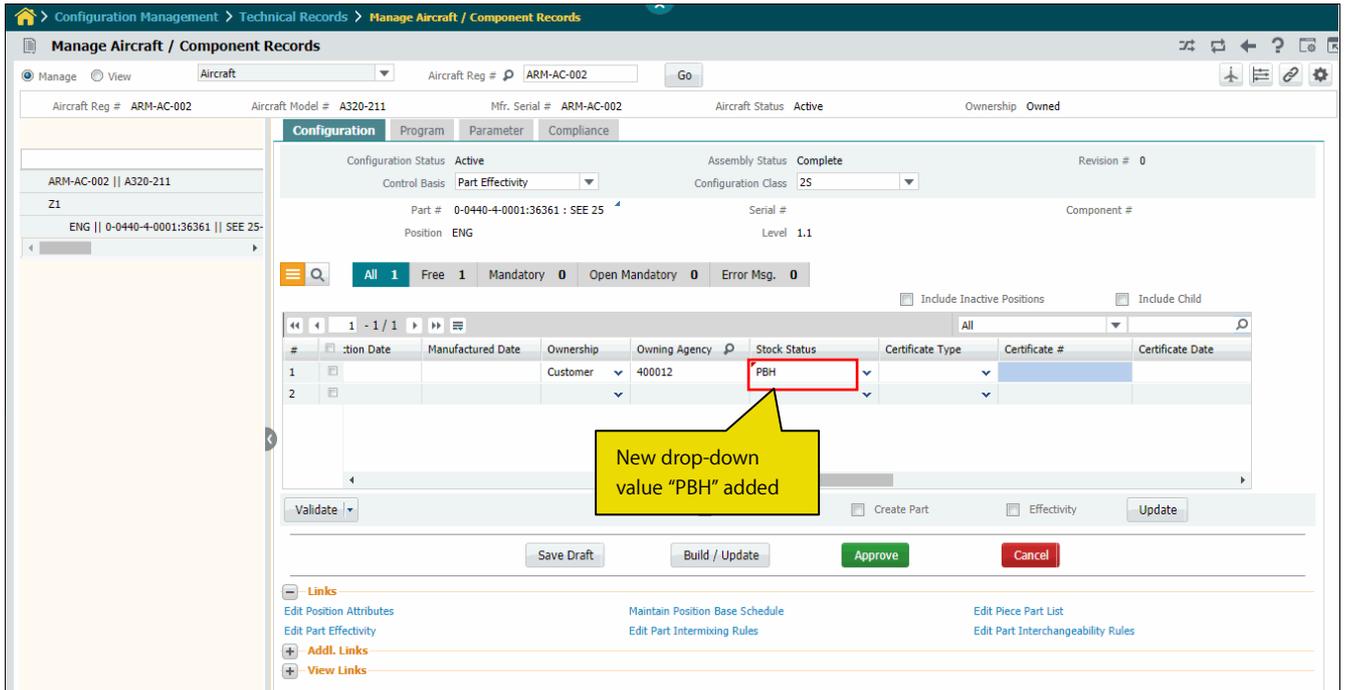
In this enhancement the ability to induct PBH Parts while building an Aircraft or Component Configuration when a new Manufacturer Serial Number is inducted into the configuration of the Maintenance Object is provided.

Change Details

To facilitate the induction of PBH parts into aircraft configuration, the following changes have been incorporated in the **Manage Aircraft / Component Records** screen of the **Technical Records** business component:

- A new drop-down value "PBH" is added in the 'Stock Status' field of the 'Configuration' tab in the **Manage Aircraft / Component Records** screen.
- On inducting a component, the system will allow the user to select the stock status as "PBH" only if the following conditions are satisfied:
 - NHA should be under PBH (either the immediate NHA or any NHA until EIPN. The End Item Part Number can be the 'Aircraft Reg. #' even if the Maintenance object is Component and it is attached to an Aircraft).
 - The inducted Part should be under PBH with any one of the Suppliers against which the NHA is under PBH.
- The Stock Status and Ownership for component will be allowed to be entered by the user while building Configuration with new Manufacturer Serial number for Aircraft or Component satisfying the following conditions:
 - If the ownership of the Maintenance Object is customer, then the stock status of the components attached to this maintenance object should either be Customer owned or Supplier owned.
 - If the ownership of the Maintenance Object is internal /Supplier Owned (Aircraft Ownership: Owned/Leased/Leased Out; Component Ownership: Owned/Supplier), then the Stock status of the Components attached to this Maintenance object should belong to Ownership-Internal or Ownership-Supplier.

Exhibit 1: Identifies the Manage Aircraft / Component Records screen



WHAT'S NEW IN MAINTENANCE TASK?

Ability to automatically update Task-Part effectivity during Repair Scheme Definition

Reference: AHBG-28112

Background

While defining repair scheme for the top assembly components like Landing Gear Assembly, Barrel Assembly, etc., the system has a provision to specify Child Position # in order to track the repair scheme/tasks for the child assemblies. When the repair scheme is added in a shop work order, based on top assembly configuration, only those child repair schemes/tasks that are effective to the physically attached child parts are retrieved. It is possible that the child part attached can be any one of its alternate parts. Manually setting up the task effectivity for the position part (child part) and its alternate part is cumbersome and a provision is required to automate the task effectivity setup based on the top assembly part configuration once the task effectivity is defined for the parent repair scheme.

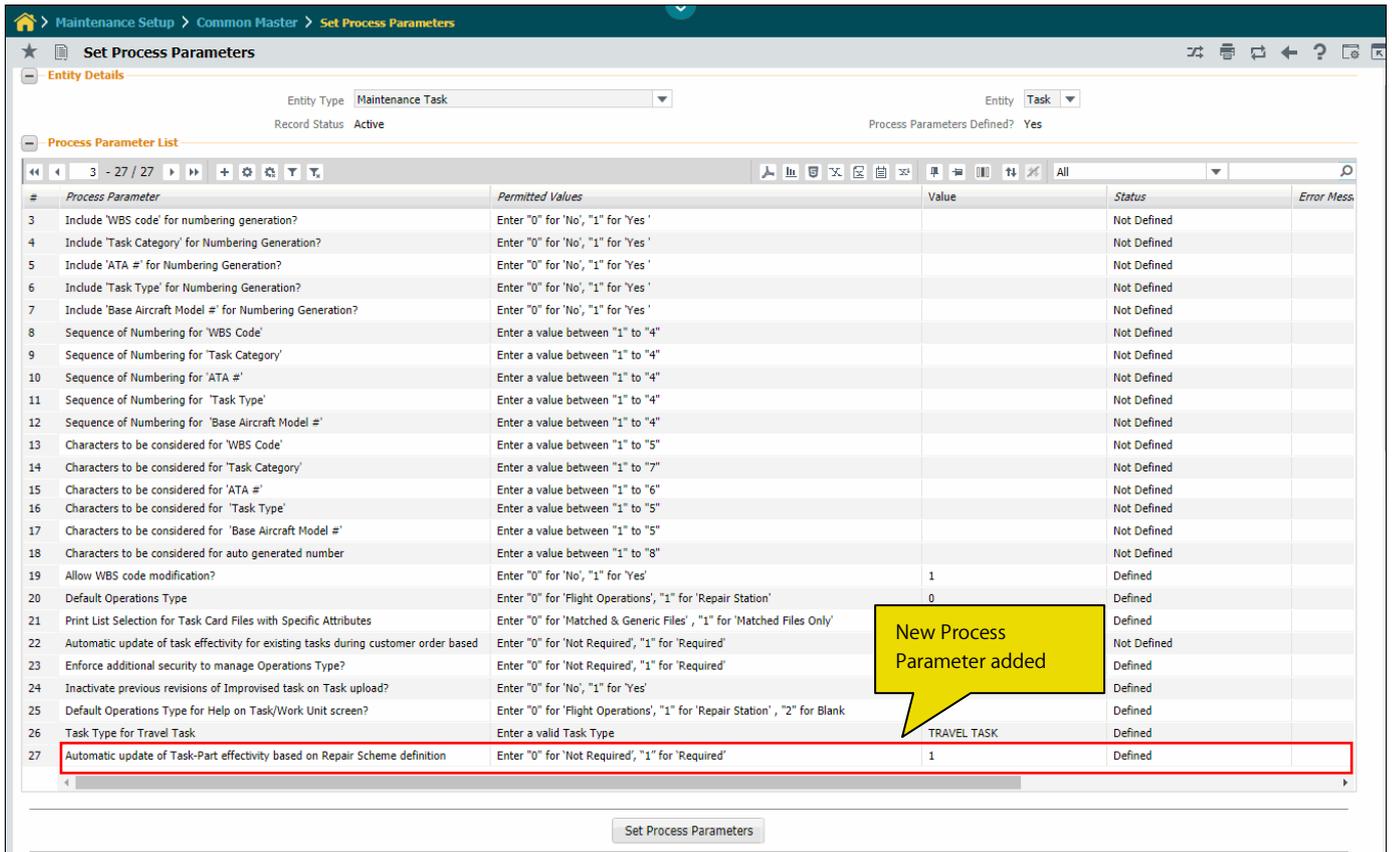
Change Details

Common Master

A new process parameter "Automatic update of Task-Part effectivity based on Repair Scheme definition" is added in the **Set Process Parameters** page (**Define Process Entities** activity) of the **Common Master** business component, under the Entity Type 'Maintenance Task' and Entity 'Task'.

- If the Process Parameter is set as '0' (Not Required) then the Task-Part effectivity is not updated automatically.
- If the Process Parameter is set as '1' (Required) then the Task-Part effectivity is automatically updated based on the Repair Scheme Definition.

Exhibit 1: Identifies the Set Process Parameters screen



Maintenance Task

Manage Repair Scheme Definition

The Part effectivity of the Child Tasks (only those having restricted Component Effectivity) in a Repair scheme will be automatically updated with the Position Part # and its alternate Part # based on the Part Configuration of the Repair scheme's effective Part. This logic will be implemented based on option settings defined in the **Common Master** business component.

The following logic is applied at each child Task level to update the Part effectivity for the child Tasks in a Repair scheme in the following sequence:

1. Checks if the status of the Task (latest revision #) for which the Repair Scheme is defined is in 'Active' status.
2. Checks if the latest active Revision of the Task for which the Repair Scheme is defined has restricted Component effectivity.

Note: If the Repair scheme is defined for the Task with Effectivity control set as "specific" and the Task has 'all-component' effectivity, then the Part effectivity update logic (as specified in the below steps) will not be applied.

3. If the Repair scheme Task has Effectivity control set as "None" then the system checks if at least one or more Parts defined in the effectivity of the Repair scheme Task has active Part Configuration.
4. If the Repair scheme Task has effectivity control set as "Specific" and a specific Part # is entered, then the system checks if the specific Part # has an active Configuration.

Note: Only those Parts which have active Configuration will be referred to. The latest active Configuration will be considered.

5. Checks if there exists any Child Task against which Child Position Code is defined.
 *Note: If both Child Position Code and Child Part # are defined, only Child Position Code will be considered for the update.*
6. Checks if the latest 'Active' revision of the child Task for which Child Position Code is defined has restricted Component effectivity.
7. Checks if the Child Position code exists in the configuration of the Repair scheme task's effective Part. (Part list having active Configuration is obtained in Step 3).
8. From the configuration of the Repair scheme task's effective Part, the Position Part # corresponding to the Child Position code is derived. Also the alternate Part of the Position Part # is derived from the Part master.

With this data, the system updates the effectivity list of the child Task with the Position Part # and its alternate Part # if they do not exist already.

Manage Task Effectivity

There are situations where a task has 'All Component effectivity' at the start. Then, Repair Scheme can be defined for the same task. If this task's effectivity gets restricted, then the same logic that was used for updating the child tasks' part effectivity should be implemented.

The following logic is applied at each child Task level to update the Part effectivity for the child Tasks in the following sequence:

1. Checks if the latest revision of the Task for which effectivity is updated is in 'Active' status.
2. Checks if the latest active revision of the Task has restricted Component effectivity. The system derives the Part effectivity list and considers this list to refer to the Configuration.
3. Checks if the Task has a Repair scheme defined.
 *Note: There can be more than one Repair scheme for the same Task. All the Repair schemes will be considered.*
4. Then the same steps are followed as defined for the 'Manage Repair Scheme Definition' logic (*the one specified above*) and system updates the effectivity list of the child Tasks with the Position Part # and its alternate Part # if they do not exist already.

Authorize Tasks

Users can create a Primary Maintenance Event task, provide part effectivity list for the same, and then define a repair scheme for this task. Post repair scheme definition, the user would come back and try authorizing the same task. By this instance, the system will implement the same logic that was used for updating the child tasks' part effectivity.

The following logic is applied at each child Task level to update the Part effectivity for the child Tasks in the following sequence:

1. Checks if the Task being authorized has restricted Component effectivity. The Part effectivity list will be derived and this list will be referred to the Configuration list.
2. Checks if the Task has a Repair scheme defined.



Note: There can be more than one Repair scheme for the same Task. All the Repair schemes should be considered.

3. Then the same steps are followed as defined for the 'Manage Repair Scheme Definition' logic (*the one specified above*), and system updates the effectivity list of the child Tasks with the Position Part # and its alternate Part # if they do not exist already.

Note that the system will auto-update the Task Part Effectivity, only from the 3 screens specified above and only when the conditions specified above are satisfied, if the process parameter is set accordingly.

WHAT'S NEW IN MAINTENANCE PROGRAMS?

Ability to display Component Record Status as a filter criteria in Authorize CMP screen

Reference: AHBG-27657

Background

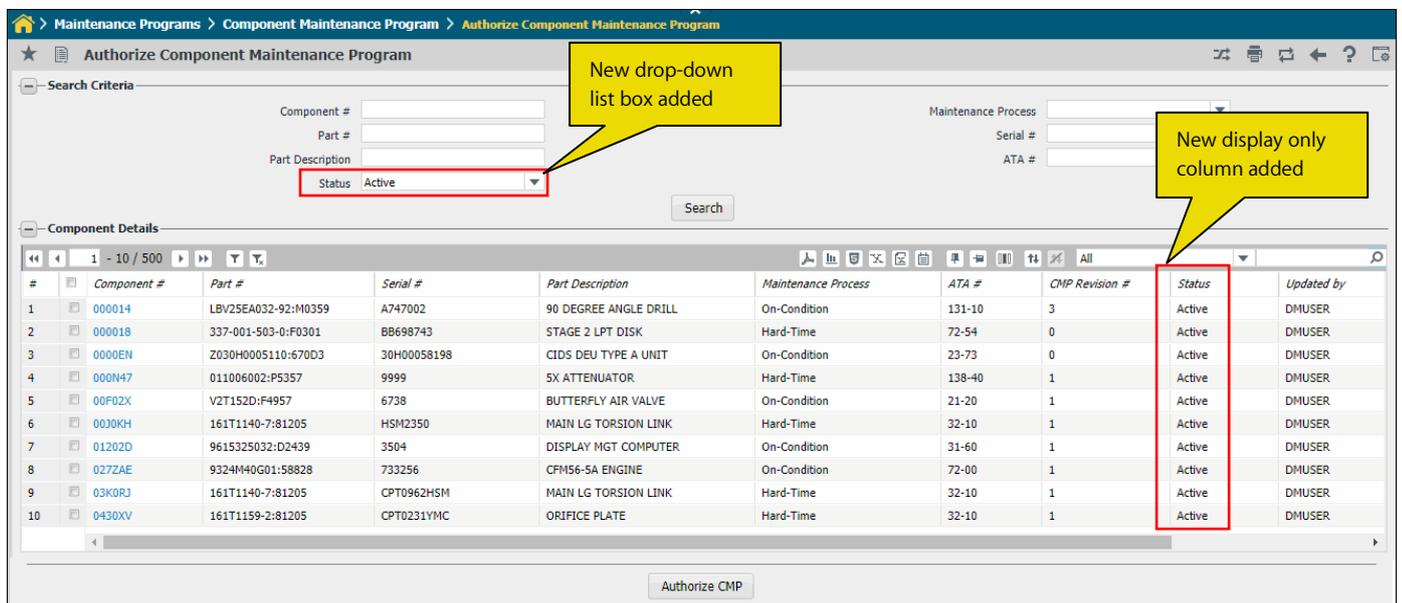
This enhancement provides the ability to filter the Components based on its status and authorize the Component Maintenance Program.

Change Details

Component Maintenance Program

- A new drop-down list field "Status" is added in the 'Search Criteria' section in the **Authorize Component Maintenance Program** activity of the **Component Maintenance Program** business component. The "Status" field lists the values 'Active' and 'Inactive'.
 - Active- Only those Components which are in 'Active' Status will be retrieved for authorizing the Component Maintenance Program.
 - Inactive - Only those Components which are in 'Inactive' Status will be retrieved for authorizing the Component Maintenance Program.
 - If the field is left blank, the system retrieves both 'Active' and 'Inactive' status components for authorizing the Component Maintenance Program.
- A new display field "Status" is added in the "Component Details" multiline. On clicking the "Search" pushbutton, the system retrieves and displays the Status of the Component in each row in the newly added 'Status' column of the multiline.

Exhibit 1: Identifies the Authorize Component Maintenance Program screen



WHAT'S NEW IN ENGINEERING CHANGE MANAGEMENT?

Ability to upload documents against PCR

Reference: AHBG-25413

Background

Ability for the users to upload / view the scanned copies of approved PCR documents is required from **Engineering Document** for the purpose of future reference.

Change Details

- In order to facilitate the upload / view of PCR reference documents in the **Process Change Request** screen of **Engineering Document**, the following improvements have been carried out in **Object Attachments**: New option 'Process Ref. #' has been added in the drop-down list box Ref. Doc #' in the **Upload Documents** activity of the **Object Attachments** business component to facilitate upload of process request documents to the central repository. The option **Process Ref #** will be loaded in the Ref. Doc #' drop-down only if the user selects **Engineering Document** in the **Business Component Name** drop-down list box.
- Similarly, new option, **Process Ref. #** has been added in the drop-down list box **Ref. Doc #** in the **Delete/View Associated Doc. Attachments** activity of the **Object Attachments** business component to facilitate deleting / viewing of process request documents from the central repository.

Exhibit 1: Identifies the **Upload Documents** screen in the **Object Attachments** business component:

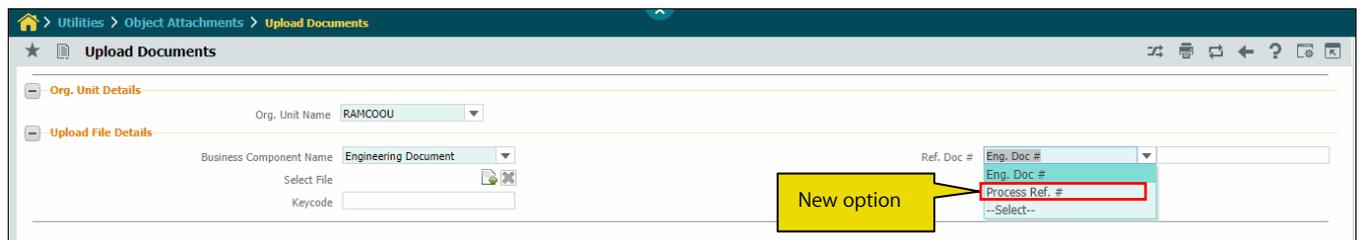
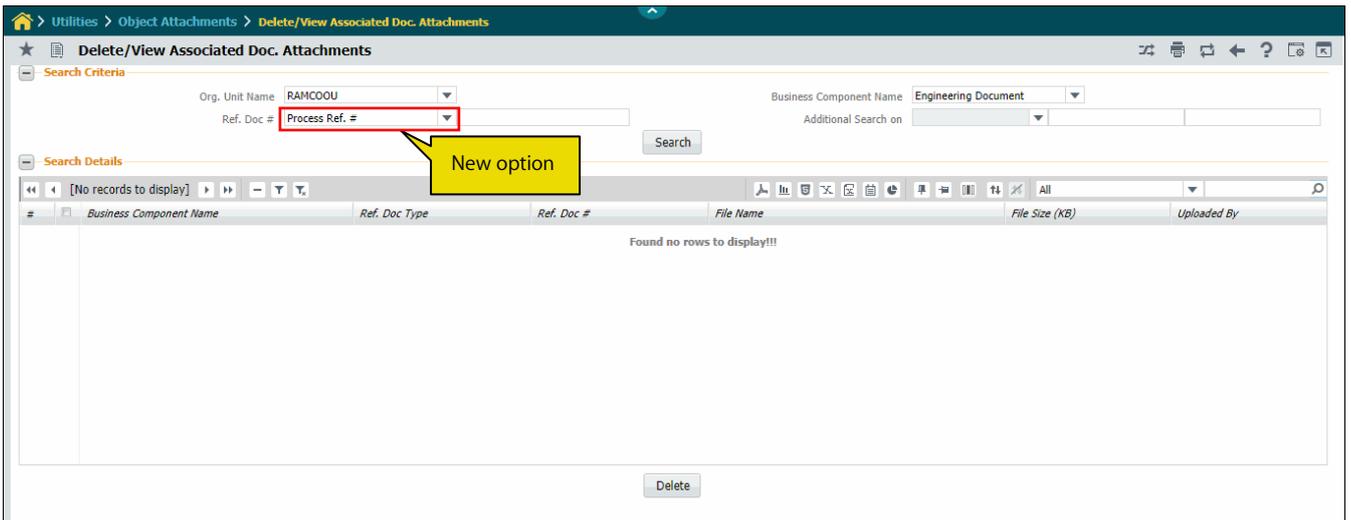


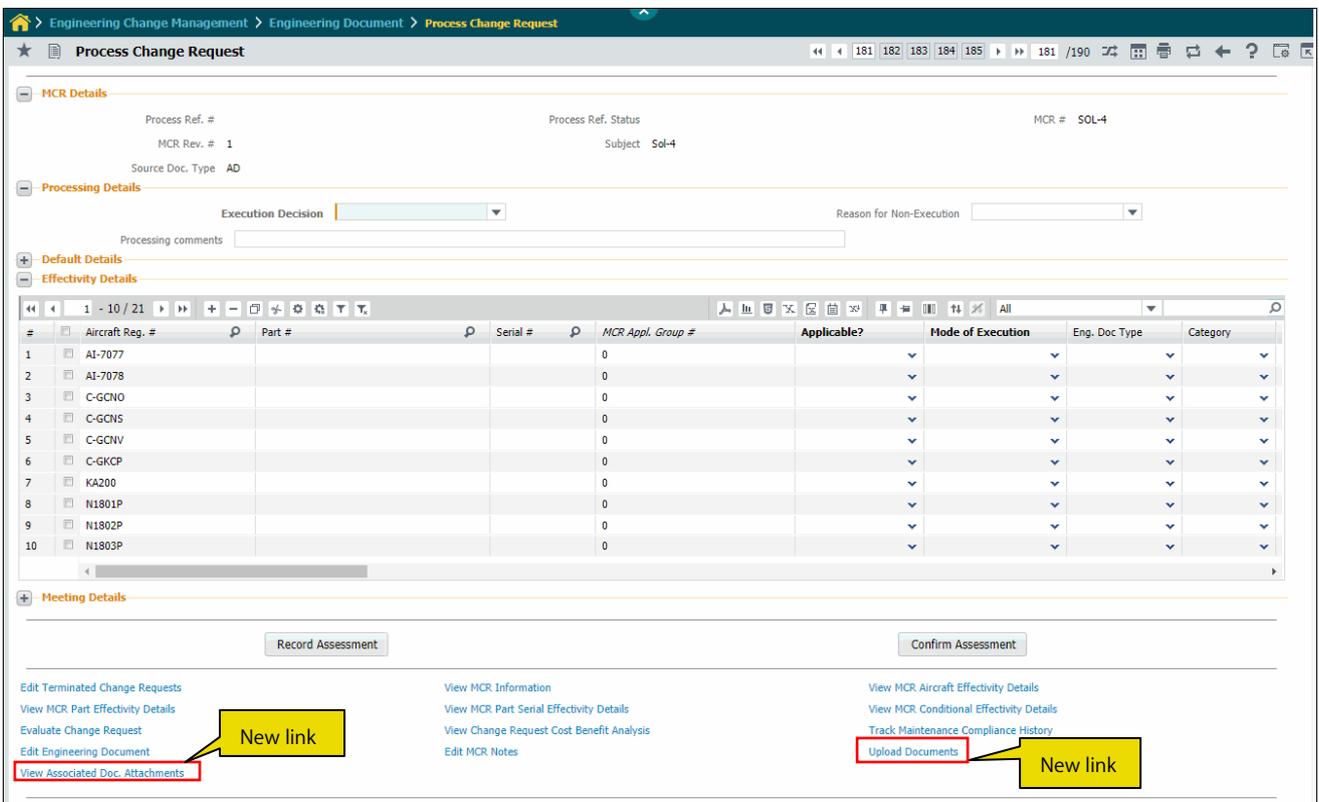
Exhibit 2: Identifies the **Delete/View Associated Doc. Attachments** screen in the **Object Attachments** business component:



Engineering Document

Two new links 'Upload Documents' and 'View Associated Doc. Attachments' are added in the **Process Change Request** screen of the **Engineering Document** business component.

Exhibit 3: Identifies the **Process Change Request** screen in the **Engineering Document** business component:



WHAT'S NEW IN AIRCRAFT MAINTENANCE PLANNING

Display Task Interval, Rev # and last forecasted info in Planning board

Reference: AHBG-27935

Background

In the **Aircraft Maintenance Planning** business component, currently, the task interval, task revision # and the last forecasted journey log details are also not displayed in the planning board. Visibility of such critical information on tasks for an aircraft provides an holistic view essential for the maintenance planners.

Further, the information in the **Job Details** Gantt must be sequenced in such a way that the details most required for package creation are easily accessible to maintenance planners to avoid unnecessary traversal / navigation.

Change Details

The following improvements have been incorporated in the **Review Fleet Maintenance Plan** screen of **Aircraft Maintenance Planning**:

- New display-only field, **Task Rev. #** to retrieve the revision # of the task has been added in the **Job Details** Gantt. This is for tasks only.
- New display-only field, **Task Interval** to retrieve the interval of tasks from the maintenance program has been added in the **Job Details** Gantt. If the task has multiple schedules defined to it, the schedule values will be concatenated and the day based schedule will be shown first in the following manner: This is for tasks only.

- 5D/50APUH/50 FH/20 FC



*Note: The **Task Interval** field will display blank for aircraft level, maintenance events, As Required and Ad hoc tasks and discrepancies.*

- New display-only column **Other Info.** to retrieve details from the last forecasted journey log for the aircraft, in the **Job Details** Gantt . Details including journey date, log #, forecast date and time will be concatenated and displayed in the following manner: This is for aircraft only.
 - AJL-005119-2018 / Log #: 17708 / Flgt Dt: 20/06/2018 / Forecast: 20/06/2018 10:59:18.023
- Columns in the **Job Details Gantt** have been rearranged based on the data requirement for packaging. For example, **Due Date**, **Plan Start Date**, **Plan End Date** fields are crucial for operations and hence have been shifted to the beginning of the Gantt. Now, the sequence of columns in the **Job Details** Gantt has been reset in the following order of listing:
 - Aircraft Reg. # / Work Unit #
 - Task Rev. # (new field)
 - Rem. time
 - Task Interval (new field)
 - Package Status
 - Def. Item Count / Package #
 - Due date
 - Pl. Start Dt.
 - Pl. End Dt.

- Work Center
- Job Type
- Part # / Serial # / Position #
- Est. Time
- Skill
- MEL & CDL Count / Def. Type
- Sch. Item Count / Driver Task
- Eng Doc Count / Type
- Comments
- Customer #
- Customer Order #
- Promised Delivery Date
- Priority
- Def. Reason / Exec. Code
- Parts Avail. ?
- Incoming Flight Details
- Outgoing Flight Details
- Other Info. (new field)

Exhibit 1: The Job Details Gantt in the Review Fleet Maintenance Plan screen

Aircraft Reg # / Work Unit #	Task Rev. #	Rem. Time	Task Interval	Package Status	Def. Item Count / Package #	Due Date	Pl. Start Dt.	Pl. End Dt.	Work Center	J
VH-NJF		(1D) /62.18FH/34.00FC			0					
6 MONTH:6 MONTH / 500L WOR	1	(43D) /224.00FC	6(MO)/500.00 FC	Fresh	ABASE-000135-2	30/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 17:18:4	ADL HNG C 1	Aird
CN0041 ITEM 1::CONFIGURATI		(43D) /224.00FC	6(MO)/625.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:48:4	ADL HNG C 1	Aird
CN0054:STALL WARNINGIDE	2	(43D) /224.00FC	6(MO)/625.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 18:03:4	ADL HNG C 1	Aird
CN0055 ITEM 2::THROTTLE LE	1	(43D) /349.00FC	6(MO)/500.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:30:4	ADL HNG C 1	Aird
CN0056 ITEM 2::MAINTENANC		(43D) /224.00FC	6(MO)/500.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:25:4	ADL HNG C 1	Aird
CN0047 ITEM 1::CAPTAIN, 1ST	3	(45D) /232.00FC	6(MO)/625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:24:4	ADL HNG C 1	Aird
CN0047 ITEM 4::4TH CREW M		(45D) /232.00FC	6(MO)/500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:20:4	ADL HNG C 1	Aird
CN0049 ITEM 1::ZONAL - POW	1	(45D) /232.00FC	6(MO)/500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:37:4	ADL HNG C 1	Aird
CN0049 ITEM 2::ZONAL - POW	1	(45D) /232.00FC	6(MO)/625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:37:4	ADL HNG C 1	Aird
CN0049 ITEM 3::ZONAL - POW		(45D) /232.00FC	6(MO)/500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:54:4	ADL HNG C 1	Aird
CN0049 ITEM 4::ENGINE FUEL	2	(45D) /232.00FC	6(MO)/625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:48:4	ADL HNG C 1	Aird
CN0049 ITEM 5::IDG CHARGE	5	(45D) /232.00FC	6(MO)/500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:27:4	ADL HNG C 1	Aird
CN0498::SMOKE HOOD CONT		(45D) /232.00FC	6(MO)/625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:24:4	ADL HNG C 1	Aird

Exhibit 2: The Job Details Gantt in the Review Fleet Maintenance Plan screen

The screenshot shows the 'Review Fleet Maintenance Plan' interface. At the top, there is a 'Get Details' button and a 'Package Type' dropdown menu. Below this is the 'Job Details' table. The table has columns for 'nts', 'Est. Time', 'Skill', 'Job Type', 'Part# / Serial# / Position#', 'Customer #', 'Customer Order #', 'promised Delivery Date', 'Priority', and 'Other Info.'. The 'Other Info.' column is highlighted with a red border and contains the text 'All-005119-2018 / Log # 17708 / Flt Dt: 20/06/2018 / Forecast: 20/06/2018 10:59:18 023'. A yellow callout box points to this column with the text 'New display-only field'. The table contains 14 rows of data, all with 'Aircraft' as the Job Type.

nts	Est. Time	Skill	Job Type	Part# / Serial# / Position#	Customer #	Customer Order #	promised Delivery Date	Priority	Other Info.
									All-005119-2018 / Log # 17708 / Flt Dt: 20/06/2018 / Forecast: 20/06/2018 10:59:18 023
1.50H		146-B1,	Aircraft						
0.25H		146-B2,	Aircraft						
0.35H		146-B1,	Aircraft						
0.50H		146-B2,	Aircraft						
0.25H		146-B1,	Aircraft						
0.63H		146-B1,	Aircraft						
0.01H			Aircraft						
0.50H		146-B1,	Aircraft						
0.01H			Aircraft						
0.01H			Aircraft						
23.50H			Aircraft						
23.50H			Aircraft						
8.00H			Aircraft						

Ability to display Planning status and Package reference for As Required Tasks

Reference: AHBG-28503

Background

Currently, in Ramco Aviation, the planning board does not provide visibility for the packaging details of “As Required” tasks. As a result, the maintenance planners are not in a position to know whether the “As Required” tasks are packaged or not, if they have been already assigned to a package.

Hence, it is required that the planning status and the package reference # for “As Required” tasks be displayed in the Planning board screen to facilitate effective planning.

Change Details

Maintenance Setup

A new process parameter “Display the Planning Status and Package Reference for As Required Tasks?” is added under the Entity Type ‘Maintenance Planning’ and Entity ‘Aircraft Maint. Planning’ in the **Set Process Parameters** screen of the **Define Process Entities** activity of the **Common Master** business component.

Process Parameter	Value	Impact
Display the Planning Status and Package Reference for As Required Tasks?	0	The planning status and package reference for the ‘As Required’ tasks will not be displayed in the “Job Details gantt” of Planning board screen.
	1	The planning status and package reference for the ‘As Required’ tasks will be displayed in the “Job Details gantt” of Planning board screen.

Maintenance Planning

When the process parameter “Display the Planning Status and Package Reference for As Required Tasks?” is set as “1”, then the “Job Details” Gantt chart displays the ‘planning status’ and ‘package reference’ for the “As Required” tasks in the **Review Fleet Maintenance Plan** screen of the **Aircraft Maintenance Planning** business component.

The ‘Planning status’ will be displayed for “As Required” tasks as follows:

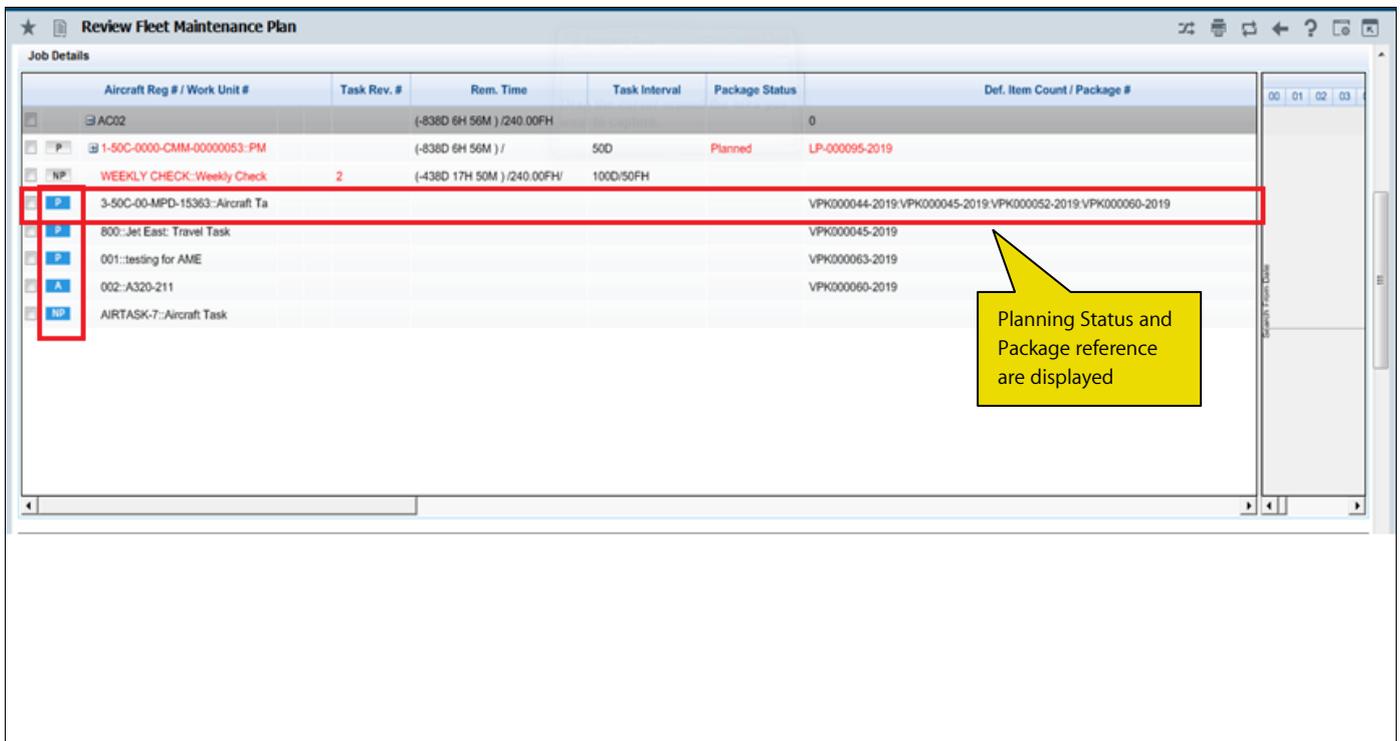
- NP: When there is no Package associated to the “As-Required” task.
- P: When there is at least one Package associated to the “As Required” task.
- A: When there is at least one Package which is assigned to a slot and has the “As Required” task.

Note: The Planning status for “As Required” tasks will be displayed in a different colour code to differentiate it from the regular tasks.

In the ‘Package #’ field, all the open Packages are concatenated and displayed when the Package has the “As Required” task in ‘Fresh’, ‘Planned’ or ‘In-progress’ status.

Note: Packages in ‘Closed’, ‘Preclosed’ and ‘Cancelled’ status will not be considered.

Exhibit 2: Identifies the **Review Fleet Maintenance Plan** screen:



Ability to display the due date of the earliest Base Task as the due date for Block Task

Reference: AHBG-27973

Background

In aircraft maintenance, Block tasks and Base tasks have different schedules and the due date of each task is displayed individually in the **Job Details** Gantt of the **Planning Board** screen. The base task with the earliest due date is considered the Driver task. The due date of the driver task is deemed as the due date of the Block task, if the due date of the Block task is not the earliest among the base tasks. However, the due of the Block task is displayed and not the due date of the driver task in the **Planning Board** screen. Hence, a provision to display the due date of the Driver task as the due date of the Block task in the **Planning Board** screen is required for the benefit of the maintenance planners.

Change Details

To ensure that the due date of the Driver task is displayed as the due of the Block task (if its own due date is not the earliest among the base tasks) in the **Review Fleet Maintenance Plan** screen of the **Aircraft Maintenance Planning** business component, the following development has been undertaken as part of the enhancement:

- New process parameter 'Display the due date of the earliest Base Task as the due date for Block Task?' has been added under the entity type Maintenance Planning and the entity Aircraft Maint. Planning in the **Define Process Entities** activity of **Common Master** to decide whether due date of the Driver task or Block task must be displayed in the **Job Details** Gantt

Process Parameter: Display the due date of the earliest Base Task as the due date for Block Task?	
Value	Impact
1 for Yes	The due date of the earliest Base task is displayed as the due date for the Block task in the Job Details Gantt, if the Block task due date is not the earliest.
0 for No	The due date of Block task is displayed as the due date in the Job Details Gantt

Exhibit 1: The Review Fleet Maintenance Plan screen in Aircraft Maintenance Planning

Review Fleet Maintenance Plan

Get Details

Package Type: [Dropdown] Assign Release

Job Details

Aircraft Reg # / Work Unit #	Task Rev. #	Rem. Time	Task Interval	Package Status	Def. Item Count / Package #	Due Date	Pl. Start Dt.	Pl. End Dt.	Work Center
VH-NJF		(1D) / 62.18FH34.00FC			0				
6 MONTH: 6 MONTH / 500L WOR	1	(43D) / 224.00FC	6(MO) / 500.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 17:18:4	ADL HNG C 1
CN0041 ITEM 1: CONFIGURATI		(43D) / 224.00FC	6(MO) / 625.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:48:4	ADL HNG C 1
CN0054: STALL WARNINGIDE	2	(43D) / 224.00FC	6(MO) / 625.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4		ADL HNG C 1
CN0055 ITEM 2: THROTTLE LE	1	(43D) / 349.00FC	6(MO) / 500.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4		ADL HNG C 1
CN0056 ITEM 2: MAINTENANC		(43D) / 224.00FC	6(MO) / 500.00 FC	Fresh	ABASE-000135-2	25/01/2019 23:59:5	07/11/2018 16:18:4		ADL HNG C 1
CN0047 ITEM 1: CAPTAIN, 1ST	3	(45D) / 232.00FC	6(MO) / 625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:24:4	ADL HNG C 1
CN0047 ITEM 4: 4TH CREW M		(45D) / 232.00FC	6(MO) / 500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:20:4	ADL HNG C 1
CN0049 ITEM 1: ZONAL - POW	1	(45D) / 232.00FC	6(MO) / 500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:37:4	ADL HNG C 1
CN0049 ITEM 2: ZONAL - POW	1	(45D) / 232.00FC	6(MO) / 625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:37:4	ADL HNG C 1
CN0049 ITEM 3: ZONAL - POW		(45D) / 232.00FC	6(MO) / 500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:54:4	ADL HNG C 1
CN0049 ITEM 4: ENGINE FUEL	2	(45D) / 232.00FC	6(MO) / 625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:48:4	ADL HNG C 1
CN0049 ITEM 5: IDG CHARGE	5	(45D) / 232.00FC	6(MO) / 500.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:27:4	ADL HNG C 1
CN0498: SMOKE HOOD CONT		(45D) / 232.00FC	6(MO) / 625.00 FC	Fresh	ABASE-000135-2	27/01/2019 23:59:5	07/11/2018 16:18:4	07/11/2018 16:24:4	ADL HNG C 1

Work Center # [Dropdown] From / To Date: 13/12/2018 13/03/2019 Search on [Dropdown] Get

Due date based on the schedule defined

Ability to display Tasks in a different color based on Alert Date

Reference: AHBG-24092

Background

Currently, the planners are required to scroll across the **Job Details Gantt** to ascertain the alert / pending status of tasks in the **Review Aircraft Maintenance** screen of **Aircraft Maintenance Planning**. An ability to highlight the tasks in specific colors depending on Alert Date in the left side of the Gantt would instantly provide them the required information thereby making scrolling unnecessary and enhancing user experience.

Change Details

Currently, the system displays tasks in RED color, if Planned Start Date of the Task is later than the Schedule Date even though Current Date falls before Schedule Date. Alert range determination/notification is also made based on Planned Start Date. (Typically, Overdue or Alert status of a task is determined based on Schedule Date / Planned Start Date with respect to Current Date.)

Three new process parameters "Display Block Task in "AMBER" colour when the Base Task reaches Alert Date/Value?", "Reference Date for Overdue and Alert calculation with respect to the Current Date" and "Show a Task as Overdue if Planned Start Date is greater than Schedule Date" have been added under 'Maintenance Planning' Entity Type and 'Aircraft Maint. Planning' Entity in the **Set Process Parameters** screen of the **Define Process Entities** activity of the **Common Master** business component to highlight tasks in specific colors based on Alert / Overdue status.

Process Parameter	Value	Impact on task coloration
Display Block Task in "AMBER" color when the Base Task reaches Alert Date/Value?	No / 0	The system will not display the Block task in AMBER color when the Base task reaches Alert Date/Value.
	Yes / 1	The system will display the Block task in AMBER color (provided it is not RED already) when the Base Task reaches Alert Date/Value. Note: You can set the process parameter 'Display Block Task in "AMBER" color when the Base Task reaches Alert Date/Value?' to Yes/ 1 only if the value for process parameter 'Display Block Task in "RED" color when there is an Overdue Base Task?' is set as Yes / 1.
Reference Date for Overdue and Alert calculation with respect to the Current Date	Schedule Date	The system will compare the Schedule Date of the task with the Current Date to determine Overdue or Alert.
	Planned Start Date	The system will compare the Planned Start Date of the task with the Current Date to determine Overdue or Alert.

Process Parameter	Value	Impact on task coloration
Show a Task as Overdue if Planned Start Date is greater than Schedule Date	No / 0	The system will not display the Task in RED color (Overdue) when Planned Start Date of the task is greater than the Schedule Date.
	Yes / 1	The system will display the task in RED color (Overdue) when Planned Start Date of the Task is greater than the Schedule Date.

Exhibit 1: Identifies the Set Process Parameters screen in the Common Master business component

The screenshot displays the 'Set Process Parameters' interface for 'Aircraft Maint. Planning'. The 'Process Parameter List' table contains the following data:

#	Process Parameter	Permitted Values	Value	Status	Error Message
1	Display Block Task in "RED" colour when there is an Overdue Base Task?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
2	Default Aircraft Employee Assignment Horizon (Hrs.)	Enter a Positive Integer	5	Defined	
3	Allow Employees for Assignment?	Enter "0" for 'All Employees', "1" for 'Privileged Employees' to access Work Center	0	Defined	
4	Allow release of Package with a task whose previous instance(s) is not compiled?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
5	Default Search tab on launch of Plan Aircraft Maintenance screen.	Enter "1" for 'Basic Search', "2" for 'Advanced Search'.	1	Defined	
6	Aircraft Maintenance Planning?	Enter "1" for 'Pre-planning and Planning', "2" for 'Only Pre-planning'.	1	Defined	
7	Display Flight routing information in Visit Planning?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
8	Default ATA # for NST created from Plan Aircraft Maintenance screen.	Enter valid ATA # defined in Aircraft component.	00-00	Defined	
9	Mandate Task Category for NST created from Plan Aircraft Maintenance screen.	Enter "0" for 'No', "1" for 'Yes'.	0	Defined	
10	Default state for the checkboxes "Maint. Event, Overdue, Flight Schedule, As	Enter "0" for 'Unchecked', "1" for 'Checked'.	1,1,1,0	Defined	
11	Include Aircrafts that have routing information but there are no due items?	Enter "0" for 'No', "1" for 'Yes'.	1	Defined	
12	Include Aircrafts that do not have routing information and may/may not have open	Enter "0" for 'No', "1" for 'Yes'.	1	Defined	
13	Allow Short Term Escalation beyond positive tolerance limit?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
14	Default Sign-off Requirement for Non Routines created from Plan Aircraft	Enter "0" for 'Not Required', "1" for 'Mechanic', "2" for 'Inspector', "3" for 'Mech. &	0	Defined	
15	Show a Task as Overdue if Planned Start Date is greater than Schedule Date.	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
16	Reference Date for Overdue and Alert calculation with respect to the Current Date	Enter "1" for 'Schedule Date', "2" for 'Planned Start Date'	1	Defined	
17	Display Block Task in "AMBER" colour when the Base Task reaches Alert Date/Value?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
18					

A yellow callout box with the text "Three new process parameters" points to rows 15, 16, and 17 of the table.

WHAT'S NEW IN FLIGHT OPERATIONS?

Managing Risks in Flight Operations with Risk Management

Reference: AHBG-29141, AHBG-29142, AHBG-29179, AHBG-29181, AHBG-29182

Background

For On Demand Operators and HEMS, to operate efficiently and profitably, their Flight Operations must be agile, and must meet the safety standards prescribed by the regulatory authorities. To achieve all these, the entire process must be made infallible by factoring all the functional parameters, such as aircraft maintenance and Flight crew performance.

The Flight Operations staff includes Pilots, Co-Pilots, Instructor Pilots and Cabin Crew. To achieve enhanced flight operations, the human risks emanating from Pilots and other crew must be assessed, evaluated and mitigated. And finally, the impact of mitigation actions must be analyzed to verify the severity/existence of the risk post mitigation. To drive the risk assessment and evaluation process, new business component called Risk Management has been developed under the BPC Flight Operations in the Ramco Aviation desktop suite. The supervisors and administrators of the Flight Operations process can now depend on Risk management to build and maintain a Risk Assessment survey and response management setup. Questionnaires can be created, Scores can be defined for responses to questions and risk assessments of employees can be approved or rejected by supervisors/administrators.

Also, the Air Travel regulatory agencies, such as IATA transmit notification messages to inform aviation airline operators regarding flight delay, cargo, weather or airport. A facility to maintain these notifications and send them to relevant Pilots and other Flight Operations crew must be incorporated in the system.

However, Risk Management works in conjunction with the mobile application –CrewAnywhere. This mobile application provides the platform for the Pilots, Co-Pilots, Instructor-Pilots and Cabin Crew to access the relevant questionnaires and record their responses. The duly answered risk assessments will be routed to the Ramco Aviation Desktop Risk Management. The supervisors can then access the employee responses and approve/ return /reject them. The employees involved in Flight Operations will be also mandated to read notification messages routed from Risk Management before they check-in for duty in CrewAnywhere.

Change Details

The Risk Management business component has been developed to help the airline operators to address the risks that the flight operations face from the Pilots, Co-Pilots, Instructors and cabin crew. Risk Management can be accessed from under the Flight Operations business component in the Ramco Aviation suite. Risk Management facilitates the supervisors of Flight Operations to build and maintain a framework for the Risk Assessment survey process comprising the following tasks:

- Maintain Notification Messages
- Maintain Risk Assessment Questionnaire
- Approve Risk Assessment
- Review Risk Assessment

The Pilots, Co-Pilots, Instructors and cabin crew who form the key drivers in the flight operations are required to respond to the survey by means of the CrewAnywhere mobile application.

Maintain Notification Messages: This feature enables the users to create and maintain notification messages. These messages are sent by the Air Travel regulatory authorities or other entities to airline operators. The notifications are typically delay, cargo, weather or airport facility updates transmitted to airports by air travel agencies, such as FAA or IATA. Every message created in the system is identified by a unique system-generated number. The details of the messages including message text, issue date, effective from and to dates, category and regulatory authority can be recorded and updated, if need be. Every message must be mapped to a specific role, specific station or work center.

This ensures that the appropriate employees in the work centers or reporting stations automatically receive the impacting messages. Key documents / files associated with the notification messages can be uploaded to the central repository for future reference.

Process Parameter Setting: You can map a work center or a station to a message based on the definition of the process parameter "Maintain and track notification messages at" under the entity type Risk Management and the entity Notification Messages in the Define Process Entities activity of Common Master

Process Parameter: Maintain and track notification messages at	
Value	Impact in the Assign Station / Work Center page
1 for Work center	Work Center # and Work Center Description fields appear that the users must specify
0 for Station	Station # and Station Name fields appear that the users must specify

Maintain Risk Assessment Questionnaire: The users can create and maintain questionnaires for eliciting responses from Pilots, Co-Pilots, Instructors and cabin crew. The details of the questionnaire including unique identifier and revision, type, description, target role, effectivity period and approval and additional references can be recorded in the **Maintain Risk Assessment Questionnaire** activity. Further, the limits or score range for Acceptable, Mitigable and High Risk response can also be defined in this activity.

Relevant questions can be included in the questionnaire based on the target audience or respondents. Information on the questions including question ID, listing order in the questionnaire, text and category of the question and whether the question is mandatory must be recorded for a questionnaire

The following additional tasks can be performed in this activity:

- Scores can also be defined for each of the pre-defined response that the respondent might select for each of the questions. Mitigation and Post Mitigation scores can also be defined for each of the response.
- Roles can be mapped to the questionnaires to ensure the applicability of a questionnaire to a specific set of employees. (Roles are essentially job classifications of employees.) The employees whose current role is mapped to the questionnaire will be able to access and respond to the questionnaire in the CrewAnywhere mobile application.
- Any related document / file or a soft copy of the questionnaire can be uploaded to the central repository for future reference.

Approve Risk Assessment: This activity in Risk Assessment enables the supervisors to approve, return or reject a risk assessment of the employees. The supervisors can retrieve specific risk assessment based on questionnaire attributes and then act on them. The breakup of the retrieved risk assessment records on the basis of attributes, such as Pending for approval and scores can be viewed by the users. However, the supervisors are required to record Approval comments on approval, Mitigation comments on return or Rejection comments on rejection of the assessment.

The supervisors can also view

- The risk assessment response, score and mitigation comments of employees in the Manage Risk Assessment page
- The risk assessment response and score of the crew of the trip associated with the employee

Review Risk Assessment: The supervisors can visit this activity to retrieve and view the risk assessment history based on search criteria. A breakup of retrieved risk assessments based on the status (Pending Approval, Approved, Returned and Rejected) is also provided in this page. This helps the supervisors to discern the current status of risk assessment of employees.

The activity facilitates the following additional tasks including:

- View details of risk assessment of employee
- View details of crew of the trip associated with the risk assessed employee
- Generation of Risk Assessment Report
- Quick access to Fleet Operations Dashboard

Exhibit 1: The Maintain Notification Messages for Flight Operations screen

Search Criteria

Category: Effective From Date: Effective To Date: Status:

Regulatory Authority: Issue From Date: Issue To Date:

Work Center #: Work Center Description:

Message Details

#	Message ID	Ref. No.	Category	Message	Status	Mandatory	Issue Date	Effective From Date	Effective To Date	Reg. Auth.	Applicable Role	Applicable Work Center	Attachment
1	MNM000002			Test Message2	Active	Yes	0-05-2019	31-05-2019 13:04:01			1	1	
2	MNM000001			Test Message1	Active	Yes	0-05-2019	30-05-2019 13:03:08			1		
3					Active	Yes							

Exhibit 2: The Assign Role screen

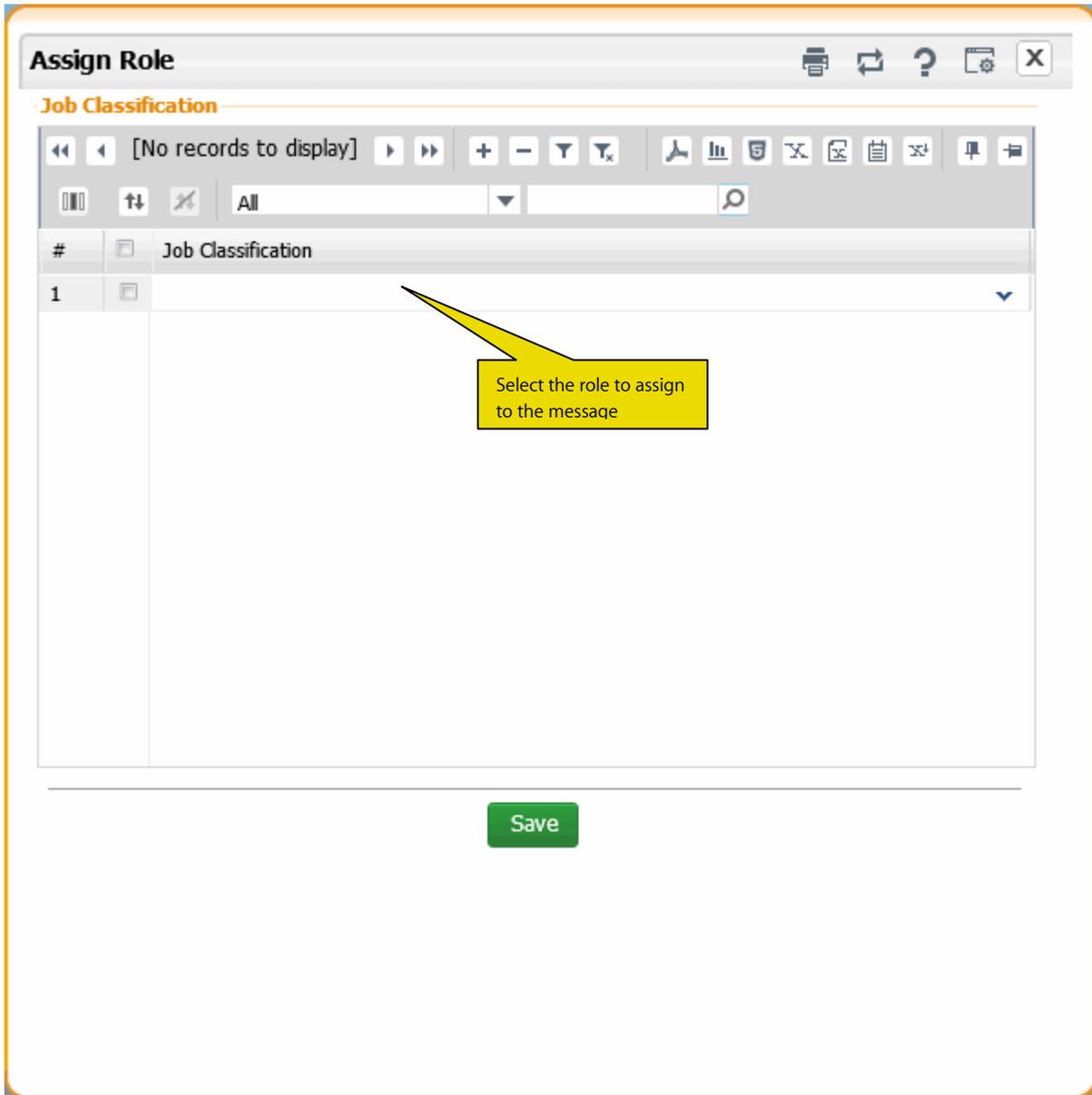


Exhibit 3: The Assign Station / Work Center screen

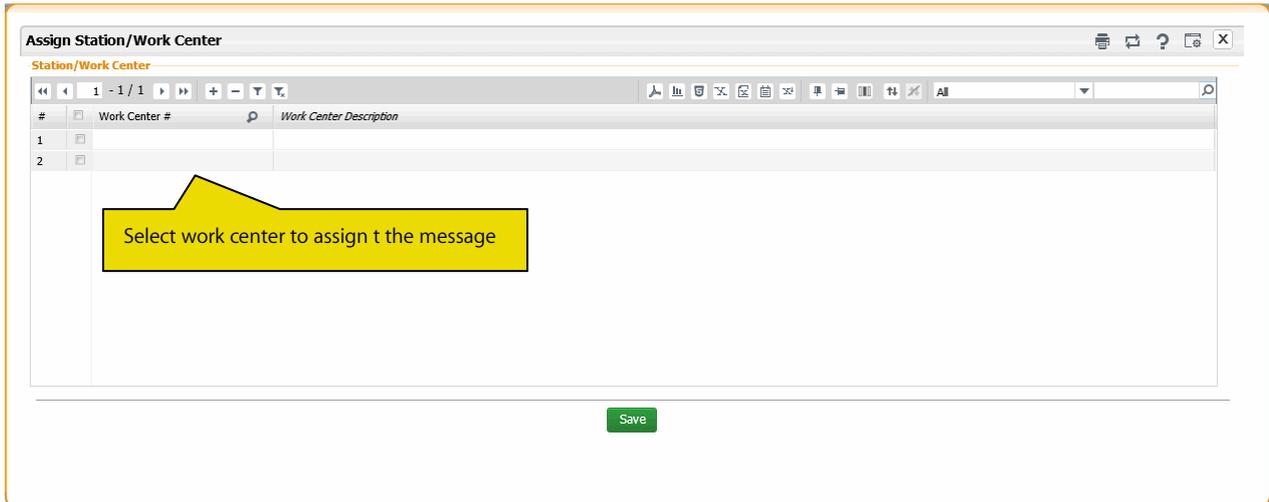


Exhibit 4: The Maintain Risk Assessment Questionnaire screen

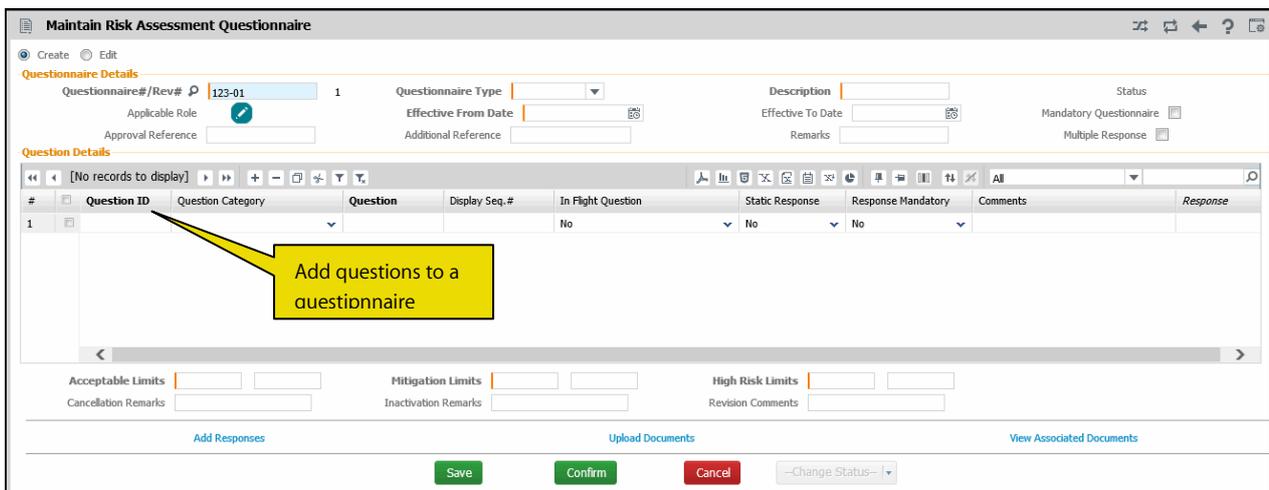


Exhibit 5: The Add Responses link page in the Maintain Risk Assessment Questionnaire screen

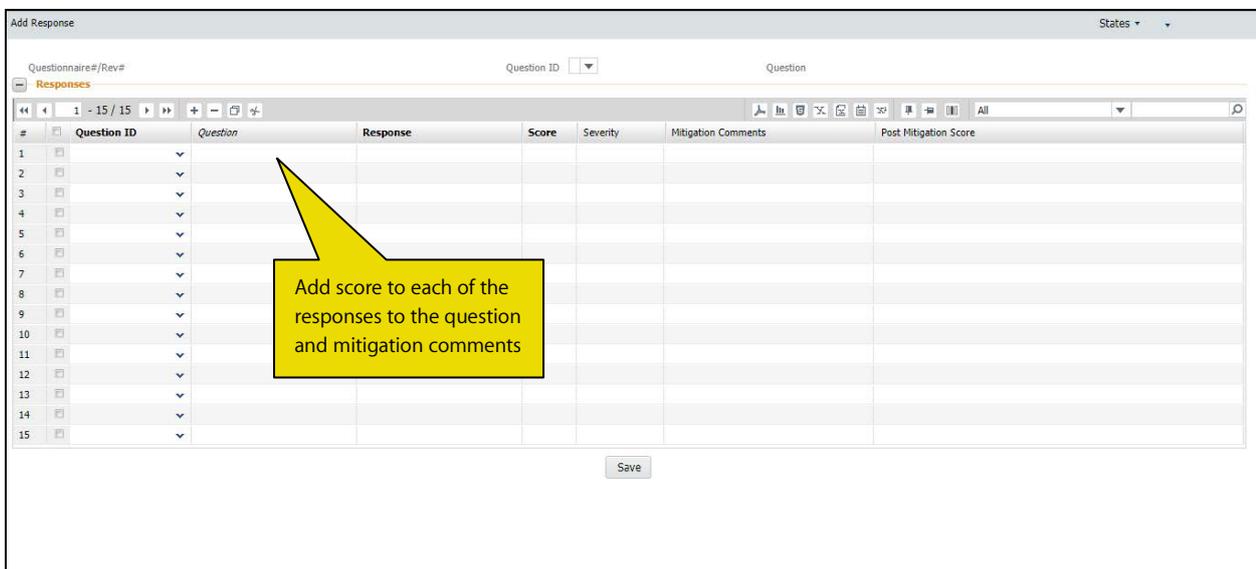


Exhibit 6: The Assign Role link page in the Maintain Approve Risk Assessment screen

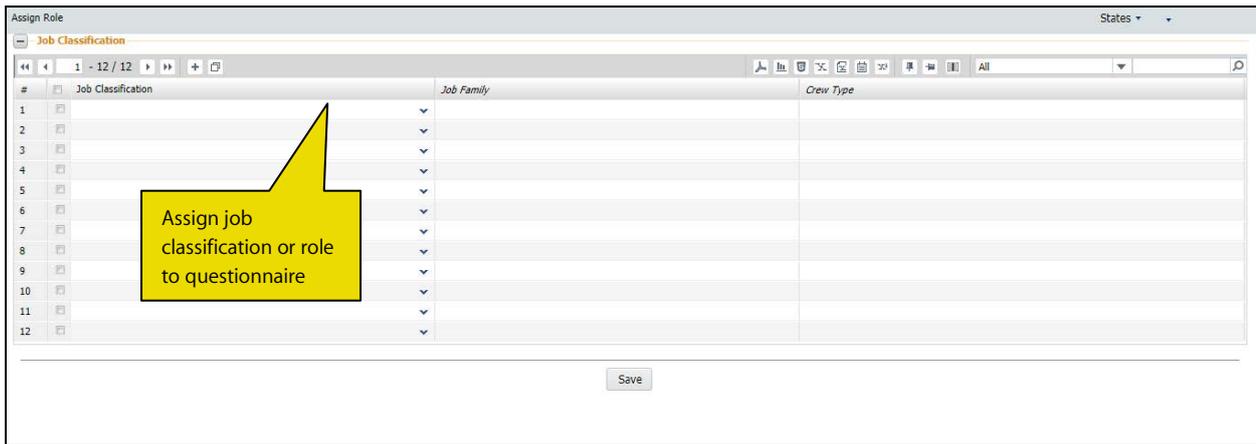


Exhibit 7: The Approve Risk Assessment screen

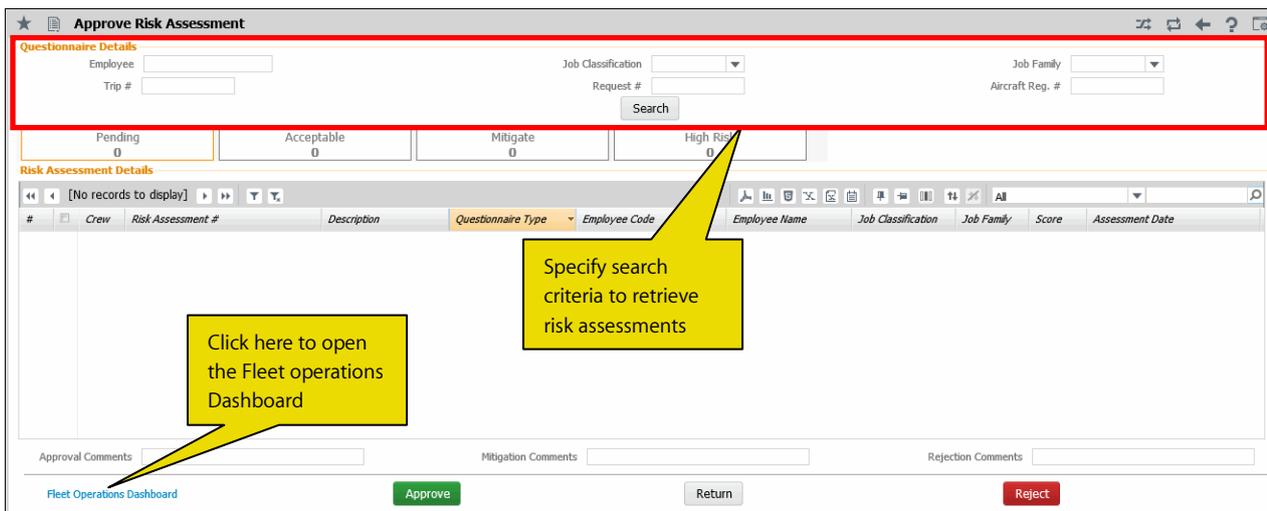
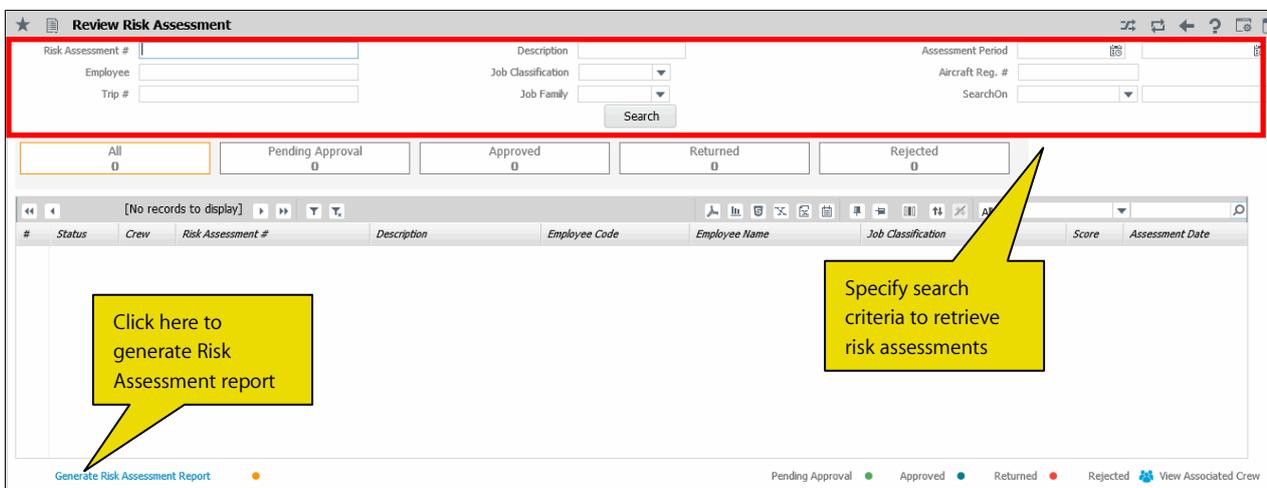


Exhibit 8: The Review Risk Assessment screen



WHAT'S NEW IN FLIGHT LOG?

Ability to view Employee Time Sheet against a Closed Package in View AME

Reference: AHBG-28575

Background

In aircraft maintenance, after the closure of work packages, the execution reference details related to the work package can be viewed in the **View Execution Ref. #** screen of **Flight Log**. Comprehensive information including Work and Sign-Off details, Component Replacement details, Part and Resource Consumption details are available for an AME Package except reported time booking. Therefore, a facility to display the entire time sheet booking entries against the work package in all statuses (including Closed) is required to enable a review of the time sheet entries.

Change Details

To provide visibility to time sheet entries against the packages in all statuses, the following enhancement has been developed in the **Flight Log** business component:

- New screen - **View Employee Time Sheet** created to enable the users to view time sheet bookings made against a package
- New link – **View Employee Time Sheet** added in the **View Execution Ref #** screen to access the page of the same name.
- New screen –**View Employee Time Sheet** will display the entire history of the time sheet entries for a package. This screen comprises two sections:
 - Header – **Execution Ref Details** will display the package details
 - Multiline – **Employee Time Sheet Booking** will display list of all time sheet bookings made against the package

Exhibit 1: The View Execution Ref. # screen in Flight Log

Discrepancy Details

#	Engg Service Req #	Engg Advice Note #	Discrepancy Type	Discrepancy #	Log Item #	Discrepancy Description
1			MIREP	CDP-012565-2019	LP-000112-2019/1	Fault in the 12th left window pane
2			MIREP	CDP-012576-2019	LP-000112-2019/2	Crack behind seat 4B

View Deferral Limits | View Corrective Action History | View Associated Doc. Attachments

Link Info | Work Info | Defer Reported Disc | Emp. Timesheet

View Work and Sign-Off Information | View Component Replacement | View Part Consumption Information
 View Resource Consumption | View References | View Associated Doc. Attachments

View Aircraft Maintenance Log | View Certificate of Maintenance Summary | View Shop Order details | **View Employee Time Sheet** (New link)

Exhibit 2: The View Employee Time Sheet screen

View Employee Time Sheet

Execution Ref # LP-000112-2019 | Package Type Line Package | Status In-Progress
 Work Center # 185-20 | Station air | Aircraft Reg # 1133

Employee Timesheet Booking

#	Seq #	Task #	Employee #	Employee Name	Rep. Work Station	Start Date	Start Time	End Date	End Time	Worked Ho
1	1	NST-027528-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/20	04:14:56 PM	2019/02/20	07:16:00 PM	
2	1	NST-027528-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/21	09:01:08 AM	2019/02/21	11:01:13 AM	
3	1	NST-027528-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/22	01:00:00 PM	2019/02/22	02:00:00 PM	
4	1	NST-027528-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/22	12:00:05 PM	2019/02/22	12:59:56 PM	
5	2	CDP-012565-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/20	04:16:30 PM	2019/02/20	07:16:46 PM	
6	4	NST-027531-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/20	04:38:55 PM	2019/02/20	07:41:26 PM	
7	5	NST-027532-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/20	05:20:56 PM	2019/02/20	05:21:04 PM	
8	6	CDP-012576-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/20	05:26:38 PM	2019/02/20	05:26:42 PM	
9	7	NST-027533-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/20	05:30:53 PM	2019/02/20	08:31:08 PM	
10	8	NST-027538-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/21	09:34:50 AM	2019/02/20	11:05:30 PM	
11	9	NST-027540-2019	00041383	DOMINIC SENECHAL	AIR	2019/02/21	10:30:03 AM	2019/02/21	01:51:05 PM	
12	10	NST-027541-2019	00000011	Dm user	AIR	2019/02/21	11:13:42 AM	2019/02/21	11:13:58 AM	

Ability to print Task/Discrepancy card from View AME screen

Reference: AHBG-26809

Background

Generally, hard copies of task / discrepancy cards are destroyed / shredded for closed packages. However, the users may require these documents at a later point in time for reference. Hence, a facility to reprint task / discrepancy cards when required must be provided for the benefit of aircraft mechanics.

Change Details

To enable the users to print task / discrepancy cards, the link - **Print Task /Discrepancy Card** has been added in the **View Work & Sign-off** screen of the **View A/C Maint. Exe. Ref #** activity. On click of the **Print Task /Discrepancy Card** link, the card will be printed in the PDF format or direct print / display on the screen

Exhibit 1: The View Work & Sign –off screen

The screenshot shows the 'View Work & Sign-off Information' screen. It includes sections for Execution Ref Details, Discrepancy Information, and Work Execution Details. A table lists tasks with columns for Task #, Task Description, Execution Status, Task Type, ATA #, Sign-Off Info, and RII Sign-Off. A yellow callout box labeled 'New link' points to a red-bordered button labeled 'Print Task/Discrepancy Card' located at the bottom of the screen.

#	Task #	Task Description	Execution Status	Task Type	ATA #	Sign-Off Info.	RII Sign-Off
1	CDP-012200-2018	Def Disc 2	Completed		00-00	Not Required	N
2	PERP-TASK-1	Perpetual task	Cancelled	MPD	00-00	Not Required	
3	PERP-TASK-2	Perpetual task	Cancelled	MPD	00-00	Not Required	
4	NST-024843-2018	fgfdg	Planned	Non Routine	00-00	Pending	N

Ability to create and authorize Certificate of Maintenance (CoM) for Aircraft by the Same User

Reference: AHBG-28357

Background

An aircraft upon completion of a maintenance task / event is released for operations only after the issue of the certificate of Maintenance (CoM) or Certificate of Release to Service (CRS). Currently, an employee is not allowed to both create and authorize CoM / CRS for CoM Types - Regular and Test Flight. However, for Forced CoM Type, the same employee can create as well as authorize the CoM / CRS. It is binding that only employees authorized by the regulatory agencies can certify and issue CoM or CRS for an aircraft after maintenance. Therefore, it would be accepted of a certified employee to create and authorize the CoM / CRS irrespective of CoM Type.

Change Details

To facilitate the same employee to create as well as authorize CoM against maintenance tasks / events for any CoM Type, the following addition have been incorporated in Ramco Aviation:

- New process parameter 'Allow same user to create and authorize CoM for aircraft?' introduced under the entity type Package Type and the entity All Packages in the **Define Process Entities** activity of **Common Master** to enable an employee to create as well as authorize CoM / CRS upon successful completion of maintenance tasks / tasks

Process parameter	Value	Impact in the Issue Certificate of Maintenance screen
Allow same user to create and authorize CoM for aircraft?	0 / Not Allowed	On click of the Authorize CoM pushbutton, the system does not allow the user who created the CoM to also authorize the document.
	1 / Allowed	On click of the Authorize CoM pushbutton, the system allows the user who created the CoM to also authorize the document.

Exhibit 1: The Issue Certificate of Maintenance screen in Flight Log

Issue Certificate of Maintenance

RamcoRole - RAMCO OU

Date Format dd-mm-yyyy hh:mm:ss am/pm

CoM # 5676000242 Journey Log # ACTDN
CoM Type Regular CoM Status Confirmed
User Status ENGLISH

Execution Ref # Details
Execution Ref. # VP-003500-2019 Journey Log #
Doc. Category 1-Repair Execution Ref # Status Closed
Station ADELAID Package Description

Aircraft Details
Aircraft Reg. # RF Aircraft Model # A320-211
Configuration Class AI-707

Last CoM Details
CoM # 5676000235 CoM Type Forced
Ref. Document Type 1-Repair Ref. Document # VP-003500-2019
Issued by DMUSER License # 00041
Issued Date 12-02-2019

Employee Details

#	Skill Code	Employee #	Employee Name	License #	Remarks
1					

Key Person Details
Employee # 00001413 Name OWSIANYK, RICHARD
Primary Skill # 01 License # 02
Remarks Date & Time 26-02-2019 12:26:03 PM

Document Attachment Details
File Name View File

Comments
Comments

Create / Edit CoM Authorize CoM Cancel CoM

Print CoM

Record Statistics
Created by DMUSER Created Date 26-02-2019
Last Modified By DMUSER Last Modified Date 26-02-2019
Authorized By DMUSER Authorized Date 26-02-2019

Authorized By is same employee as Created By

Ability to print Task/Discrepancy card from View AME screen

Reference: AHBG-26809

Background

Generally, hard copies of task / discrepancy cards are destroyed / shredded for closed packages. However, the users may require these documents at a later point in time for reference. Hence, a facility to reprint task / discrepancy cards when required must be provided for the benefit of aircraft mechanics.

Change Details

To enable the users to print task / discrepancy cards, the link - **Print Task /Discrepancy Card** has been added in the **View Work & Sign-off** screen of the **View A/C Maint. Exe. Ref #** activity. On click of the **Print Task /Discrepancy Card** link, the card will be printed in the PDF format or direct print / display on the screen

Exhibit 1: The **View Work & Sign –off** screen

The screenshot shows the 'View Work & Sign-off Information' screen. It includes sections for Execution Ref Details, Discrepancy Information, and Work Execution Details. A table lists tasks with columns for Task #, Task Description, Execution Status, Task Type, ATA #, Sign-Off Info, and RII Sign-Off. A yellow callout box labeled 'New link' points to a red-bordered button labeled 'Print Task/Discrepancy Card' located at the bottom of the screen.

#	Task #	Task Description	Execution Status	Task Type	ATA #	Sign-Off Info.	RII Sign-Off
1	CDP-012200-2018	Def Disc 2	Completed		00-00	Not Required	N
2	PERP-TASK-1	Perpetual task	Cancelled	MFD	00-00	Not Required	
3	PERP-TASK-2	Perpetual task	Cancelled	MFD	00-00	Not Required	
4	NST-024843-2018	fgfdg	Planned	Non Routine	00-00	Pending	N

Ability to restrict a lower value (than existing value) for a Parameter as New mode entry in Journey Log

Reference: AHBG-23481

Background

A provision is required to ensure that the value of the **Summary** and **Leg-Wise** parameters for aircraft/component is not lower than the current value when **Update Mode** is **New** during creation and modification of journey logs.

Change Details

Now, new parameter "**Restrict update of Summary and Leg-Wise parameter with a value less than current value when update mode of parameter is New**" has been added under the **Journey Log Computation Options** in the **Flight Log Recording Options** tab in the **Set Options** activity of **Flight Log** to restrict the entry of parameter value for **Summary** and **Leg-Wise** parameters less than their current values when **Update Mode** is **New**.

"Restrict update of Summary and Leg-Wise parameter with a value less than current value when update mode of parameter is New" Value	Impact on parameter value
0 / Not Required	Users can enter Summary and Leg-Wise parameter values less than the current value when Update Mode is New
1 / Summary Parameter	Users must not enter Summary parameter value less than the current value when Update Mode is New
2 / Leg-Wise Parameter	Users must not enter Leg-Wise parameter values that is less than the current value when Update Mode is New
3 / Summary and Leg-Wise Parameter	Users must not enter Summary and Leg-Wise parameter values less than the current value when Update Mode is New

Exhibit 1: The Leg Details tab of the Create Journey Log screen

Parameter values can/cannot be less than current value, if Update Mode is New based on option setting.

Exhibit 2: The Summary Parameter Details tab of Create Journey Log screen

Parameter values can/cannot be less than current value, if Update Mode is New based on option setting.

WHAT'S NEW IN SHOP WORK ORDER?

Auto MR of Child part to parent WO upon closure of child WO

Reference: AHBG- 27161

Background

In component maintenance scenarios, the child work orders are created to execute the off-wing tasks on sub-assemblies while the parent work order executes the maintenance for the main core assembly. However, the maintenance of the sub assembly may require routing to an external repair agency for certain maintenance. Upon return from the repair agency, the rest of the tasks in the child work order are executed on the sub assembly and the child work order is completed. The sub assembly is returned to the work center of the parent work order that is involved in the maintenance of the parent assembly on completion of the child work order. Currently, the system generates a material request in order to track the handover of the sub-Assembly to the work center of the parent work order (if the sub assembly was sent to an external repair during the execution of the child work order). This material request is generated automatically on receipt of the sub-assembly from the repair agency. The Material Planning and Billing summary processes take into account such material requests leading to misleading data. In order to avoid this, it is required that material requests against the parent work order be generated during the closure of the child work order and not at the time of part receipt from repair order.

Change Details

New process parameter 'Automatic routing of Main Core upon closure of child work order to the parent though the child main core is externally repaired and received back?' has been added under the entity type Shop Work Order Type and entity All user defined values in the Define Process Entities activity of Common Master to enable automatic confirmation of Main Core Return generated on the closure of child work order and automatic MR generation for the sub-assembly in the parent work order on confirmation of main core return of child work order.

Process Parameter: Automatic routing of Main Core upon closure of child work order to the parent though the child main core is externally repaired and received back?	
Value	Impact on the Comments field in the Stop Clock at Location popup
0 / Not Allowed	The system will not automatically confirm the child main core return and will not generate the material request upon child work order closure if the child main core is externally repaired and received back.
1 / Allowed	The system automatically confirms the child main core return and creates the material request for the child part to the parent upon child work order closure.

Ability to ignore display of rejected/voided tasks in CoM report

Reference: AHBG-26811

Background

Currently, in the **Certificate of Maintenance** document for a task, **Certifying Remarks** are displayed for all tasks included those voided or rejected by the mechanic / inspector. However, for Rejected or Voided tasks, Certifying Remarks are not relevant and hence must not be displayed in the certificate. (Typically, Certificate of Maintenance is issued only for those tasks that have been successfully signed off resulting in the maintenance object being released for operations.)

Change Details

The following changes have been incorporated in the **Certificate of Maintenance** tab of the **Issue Certificates** activity of Shop Work Order:

- The **Certifying Remarks** field will display the task description as previously recorded for the task based on the sign off status, if the sign off status is Signed Off or Not Required. However, if the sign off status of the task is Voided or Rejected, the **Certifying Remarks** field will display blank.
- In case of tasks having sub tasks, the sign off status of sub tasks will be taken into consideration for displaying text in the **Certifying Remarks** field. The **Certifying Remarks** field will display task description even if the sign off status of one of the sub-tasks is Signed Off or Not Required. However, **Certifying Remarks** will display blank, if the sign off status of all the sub tasks of a task is Voided or Rejected. In other words, the **Certifying Remarks** field displays blank.

Exhibit 1: The Certificate of Maintenance tab of the Issue Certificates screen

Issue Certificates

Part Id Tag: **Certificate of Maintenance** | Certificate of Conformity | Certificate of Calibration

Create Certificate | Reprint Certificate | Replace Certificate

Reference Type: **Work Order #** | Reference # | **Get Details**

Issue Details

Main Core Details

Reference Details

Certificate Details

Certifying Remarks:

Eligibility:

Print Option: **All Items on one Certificate**

#	Certificate Type	Reqd?
1	8130-3	<input type="checkbox"/>
2	AIR CARRIER 8130-3	<input type="checkbox"/>
3	AIRWORTHINESS APPROVAL TA	<input type="checkbox"/>
4	ARWE	<input type="checkbox"/>
5	As Per LaserFiche	<input type="checkbox"/>

#	Certifying Authority	Reqd?
1	ASA	<input type="checkbox"/>
2	Aveos	<input type="checkbox"/>
3	CAAC	<input type="checkbox"/>
4	CASE	<input type="checkbox"/>
5	EUROPEAN AVIATION SAFETY AGENCY	<input type="checkbox"/>

Document Attachment Details

File Name: | **Upload Documents** | **View Associated Doc. Attachments**

Authorization Details

Employee Code: **00041383** | Employee Name: **DOMINIC SENECHAL** | Primary Workcenter #: **185-20**

License #: | Authorization #: | Authorization Ref #:

Skill Code: **01** | Issued Date: **27-12-2018 11:37:50 A**

Save | **Preview** | **Approved & Print** | **Reprint** | **Cancel**

Created by: | Modified by: | Approved by:

Created Date: | Modified Date: | Approved Date:

Ability to generate serviceable certificate for removed parts from SWO

Reference: AHBG-27113

Background

When a part is removed from a main core component, and if the part is found in the Serviceable condition, the part is moved to a Serviceable warehouse/ stores. A certificate indicating the serviceable condition of the part is generated at the time of shifting the part to the serviceable stock. Hence, a facility to generate the serviceable certificate for the part removed from main core is required in **Shop Work Order**.

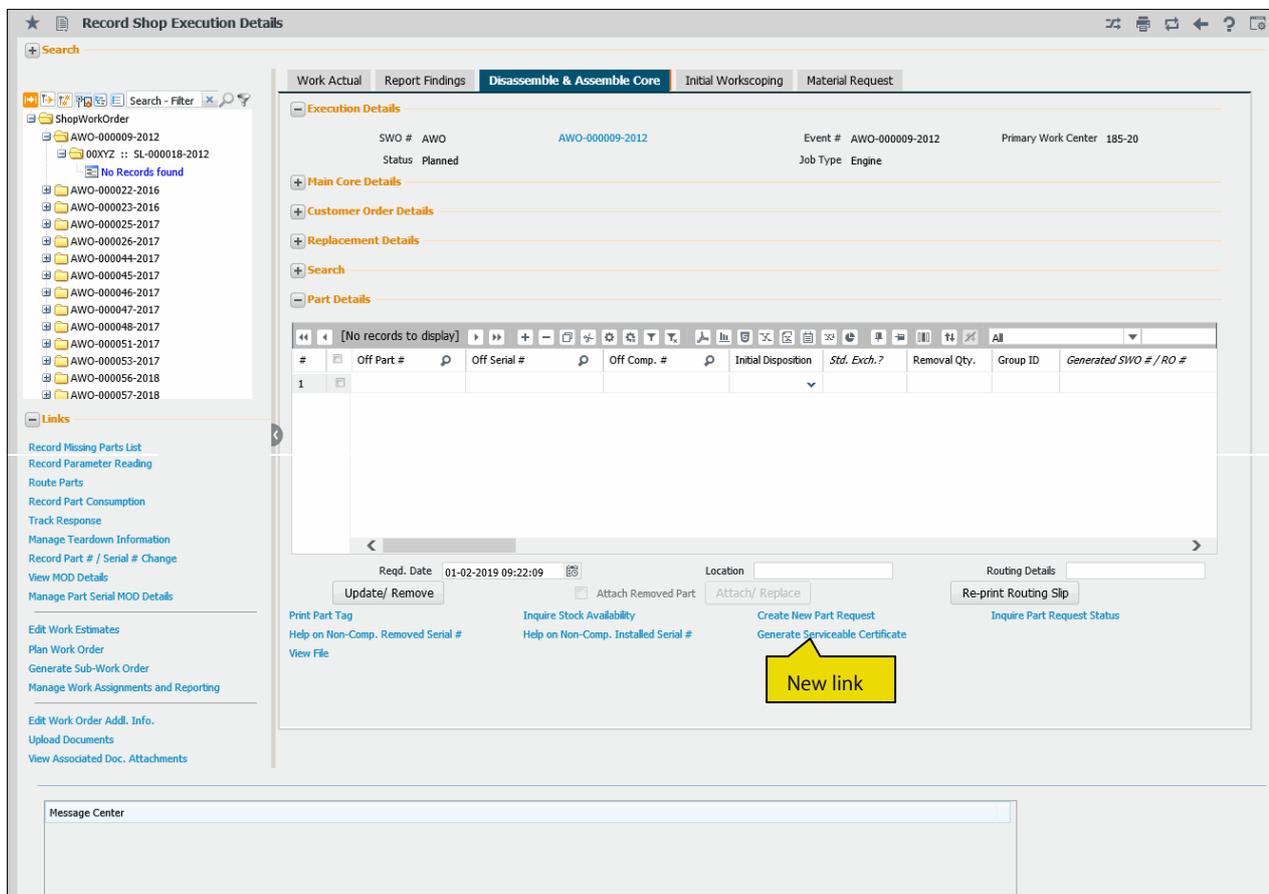
Change Details

In order to enable the users to generate the Serviceable Certificate for the removed part, the following additions have been carried out in the **Record Shop Execution Details** screen

- New link **Generate Serviceable Certificate** has been added in the Link section of the **Disassemble & Assemble Core** tab.

However, the users cannot use the link, if the condition of the removed part is Unserviceable or Phased Out.

Exhibit 1: The **Disassemble & Assemble Core** tab in the **Record Shop Execution Details** screen



Ability to modify description & ATA # of Non Standard Tasks and Discrepancies

Reference: AHBG-23245

Background

Currently, description and ATA # once recorded for non-standard tasks and discrepancies cannot be updated in **Aircraft Maintenance Execution** and **Shop Work Order** business components. In case of incorrect entries, the users are forced to cancel the tasks/discrepancies and then create task/discrepancy records afresh with the correct description and ATA #. This becomes tedious for users and hence a provision to modify description and ATA # is required to simplify the editing process for non-standard tasks and discrepancies.

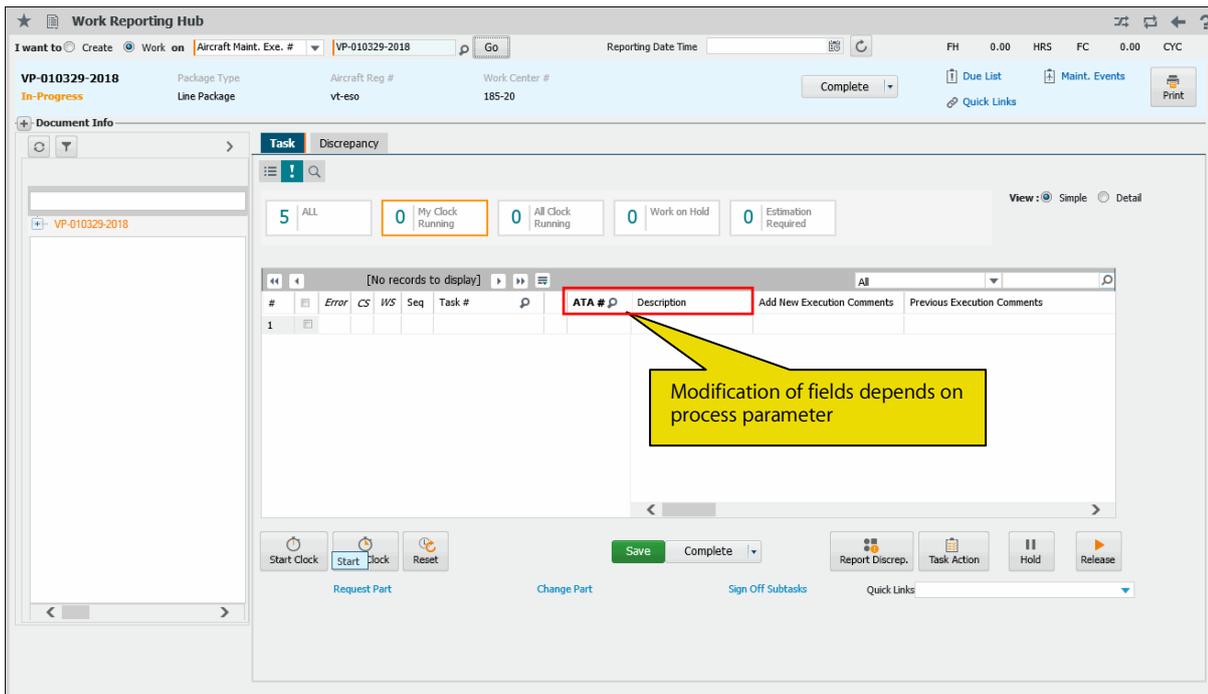
Change Details

Now, the users can modify the description and ATA # of non-standard tasks and discrepancies in the following screens based on the definition of the new process parameter 'Allow modification of Description & ATA # of open Non Routines?' defined in the **Define Process Entities** activity of **Common Master**.

- The **Plan Work Order** and **Record Shop Execution Details** screens in **Shop Work Order**
- The **Work Reporting Hub** screen in **AME Hub**
- The **E-Log** screen and **Discrepancy Card** in **MechanicAnywhere**

Process parameter	Entity Type	Entity	Value	Impact: The system
Allow modification of Description & ATA # of open Non Routines?	Package Type	All User Defined values including Log Card but excluding "--All Packages--"	0	Does not allow changes in Description and ATA # of Non-standard tasks and discrepancies against aircraft
			1	Allows changes in Description and ATA #, if the non-standard tasks and discrepancies against aircraft have not yet been signed off
			2	Allows changes in Description and ATA # of non-standard tasks and discrepancies against aircraft
Allow modification of Description & ATA # of open Non Routines?	Shop Work Order Type	All Work Order Types	0	Does not allow changes in Description and ATA # of non-standard tasks and discrepancies against component
			1	Allows changes in Description and ATA #, if the non-standard tasks and discrepancies against components have not yet been signed off
			2	Allows changes in Description and ATA # of non-standard tasks and discrepancies against component

Exhibit 1: The Work Reporting Hub screen



Ability to Dual Authenticate during approval of Certificate of Maintenance

Reference: AHBG-25119

Background

Currently, **Ramco Aviation** allows aircraft mechanics / inspectors to generate Certificate of Maintenance (CoM) for completed shop work orders without verifying their credentials. However, a process for validating the login user details is required during issue of CoM against work orders to strengthen the certification process.

Change Details

Now, user authentication has been made mandatory for the Approval of CoM against completed work orders. The User Authentication process will be similar to that available in **Aircraft Maintenance Execution** and **Work Reporting Hub**.

First, Authentication Type must be set for the Issue CoM action in the **Configure Dual Authentication** screen of **Smart Card Interface**.

The following changes have been undertaken in the **Certificate of Maintenance** tab of the **Issue Certificates** screen in the **Shop Work Order** business component in order to facilitate dual authentication of users during approval of CoM for completed tasks:

- The hitherto **Approved & Print** button has been split into two buttons: **Approve, Print**
- On click of the **Approve** button, the **User Authentication** popup appears prompting the users to enter their user credentials (PIN/Password/Both), if the dual authentication has been enabled for the CoM issuing process. (A similar User Authentication process is already available in the **Aircraft Maintenance Execution** and **Work Reporting Hub** screens).
- The users have to specify the password and /or PIN in the **User Authentication** popup based on the authentication type defined for the desired action in the **Smart Card Interface** business component
- However, when the authentication type is set as PIN (or) PIN & Password, if PIN has not been set up for the login user, the **Set/Change PIN** screen opens up to facilitate the user in creating PIN.
- In the **Create Certificate** and Replace Certificate modes, the following pushbuttons will be available for the users, when the CoM is not created or in Fresh status:
 - Save
 - Preview
 - Approve
 - Cancel
 - Print
- On the launch of the tab, all the above buttons except the **Print** button will be displayed in the tab.
- Upon authentication of the shop work order, the **Print** button alone will appear in the tab, since Print? will be 'No' at that point of time.
- In the **Reprint** mode, only the **Reprint** button will be available for users
- The **Print** Option drop-down list box will display "All Items on One Certificate" as the default option. The option "One Certificate per Item" will not appear in the drop-down list box, if "Multiple Cores?" is

set as 'No' for the work order.

- The entire **Main Core Details** section will display regardless of the job type of the work order or data availability

Exhibit 1: The Configure Dual Authentication screen in Smart Card Interface

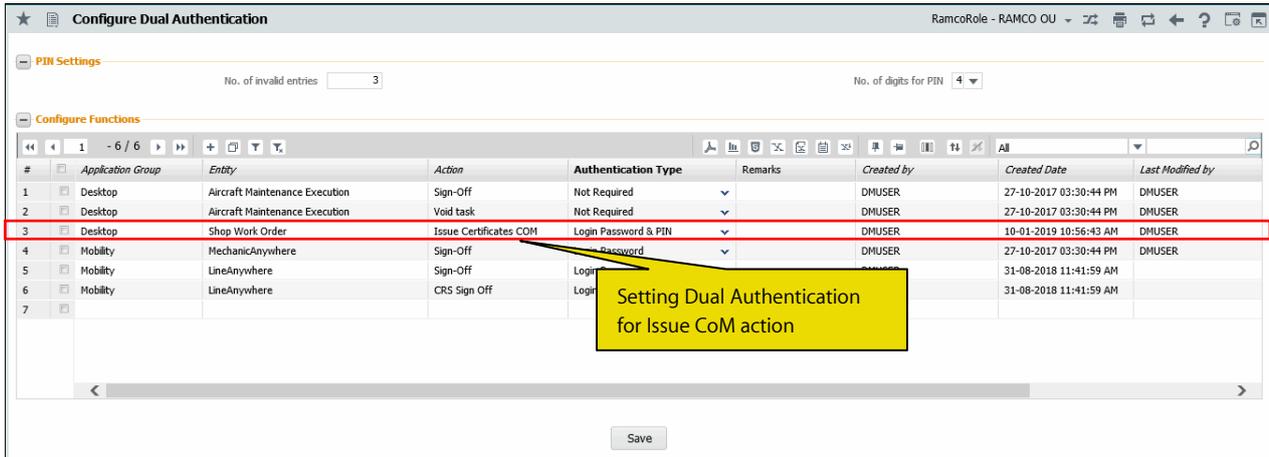


Exhibit 2: The Certificate of Maintenance tab in the Issue Certificates screen

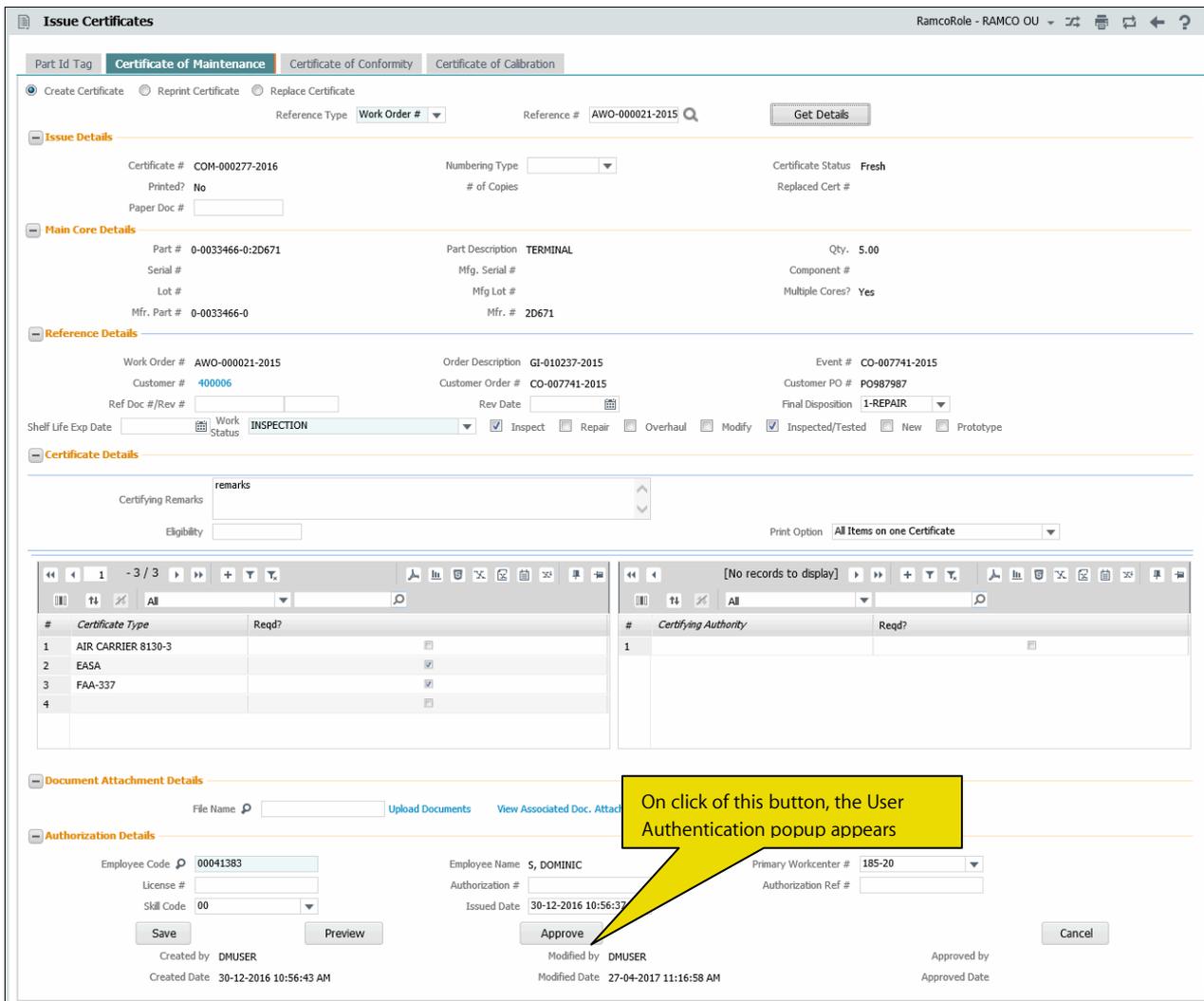
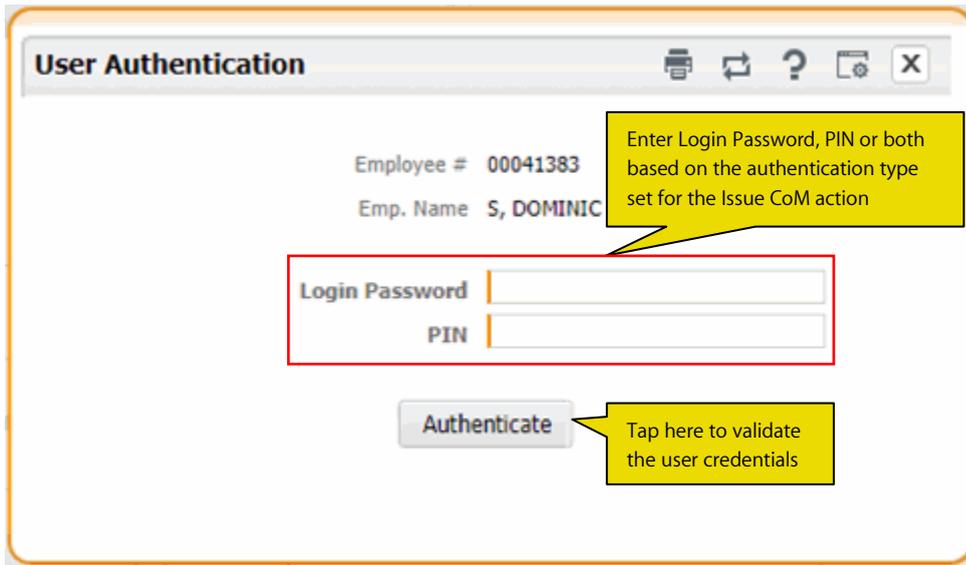


Exhibit 3: The User Authentication popup in the Issue Certificates screen



WHAT'S NEW IN RELIABILITY MANAGEMENT?

Ability to change the formula to calculate Technical Dispatch Reliability

Reference: AHBG-24869

Background

This enhancement provides users the ability to choose the formula for computation Technical Dispatch Reliability in "Fleet Reliability Data Report".

Change Details

A new parameter 'Formula to calculate Technical Dispatch Reliability in Fleet Reliability Data Report' has been added under the category "Analysis Options" in the **Set Options** activity of the **Reliability Analysis** business component. This new set option enables the user to select the formula that the system must consider for computing Technical Dispatch Reliability in "Fleet Reliability Data Report".

- If the option 'Formula to calculate Technical Dispatch Reliability in Fleet Reliability Data Report' is set as,
 - '1' – The system will consider the formula: "100-((Total number of Technical Operational Interruptions/ Total number of Revenue Departures)*100)" for calculating Technical Dispatch Reliability in "Fleet Reliability Data Report".
 - '2' – The system will consider the formula: "100*(FC - Technical Delays) / (FC + Technical Cancellations)" for calculating Technical Dispatch Reliability in "Fleet Reliability Data Report".

Exhibit 1: Identifies the **Set Options** screen in the **Reliability Analysis** business component

The screenshot displays the 'Set Options' interface. At the top, there are search criteria and category filters. Below, the 'Option Setting List' table contains the following data:

#	Category	Parameter	Permitted Value	Value	Status
1	Analysis Options	Basis for Rate computation of Delay	Enter '0' for 'No.Of.Departures', '1' for 'FH/FC'	1	Defined
2	Analysis Options	Rate Calculation Factor for FH/FC	Enter '0' for '100', '1' for '1000'	0	Defined
3	Analysis Options	Rate Calculation Factor for No.of.Departures	Enter '0' for '100', '1' for '1000'	0	Defined
4	Analysis Options	Analysis Period	Enter values between 1 to 12	1	Defined
5	Analysis Options	Reliability Analysis Level	Enter '0' for 'Reliability Reporting group level', '1' for 'Reliability Fleet level'	1	Defined
6	Analysis Options	Report Book Generation level	Enter '0' for 'Reliability Reporting group level', '1' for 'Reliability Fleet level'	1	Defined
7	Analysis Options	Count of Top ATA# determiners of Delay	Enter values between 1 to 25	1	Defined
8	Analysis Options	ATA Level for Alert Definition	Enter '0' for 'System ATA#', '1' for 'Major System ATA#', '2' for 'System ATA# & Major System'	1	Defined
9	Analysis Options	Formula to calculate Technical Dispatch Reliability in Fleet Reliability Data Report	Enter '1' for '100-((Total number of Technical Operational Interruptions/ Total number of	1	Defined
10					

A yellow callout box with the text "New Set Option added" points to the newly added row (row 9).

WHAT'S NEW IN MATERIAL REQUEST?

Ability to restrict automatic generation of Material Requests on Discrepancy Allocation for Parts/Quantities previously issued against the Discrepancy

Reference: AHBG-28505

Background

In **Ramco Aviation**, currently, whenever a discrepancy is deferred and added to another package, the system automatically generates a single material request for all the required parts. The material request thus generated for the deferred discrepancy would also include parts for which the issue was confirmed in the previous package. This would result in the duplication of material requests and parts issue resulting in erroneous material planning and management. Hence, a provision is required to generate material request only for the remaining parts (meaning those parts from the deferred discrepancy for which issue has not been confirmed or parts not automatically pegged to the discrepancy task in the previous package).

Change Details

The following developments have been incorporated in the system to ensure that the material requests are generated only for the parts for which material request was not generated in the previous package from which the discrepancy was deferred.

- New process parameter 'Auto Generate MR on Discrepancy Allocation for Parts/Quantities previously issued against the Discrepancy?' has been added under the entity type Package Type and the entity All Packages in the **Define Process Entities** activity of **Common Master** to ensure that material request is generated only for the parts not requested in the previous package for a deferred discrepancy.

Process Parameter: Auto Generate MR on Discrepancy Allocation for Parts/Quantities previously issued against the Discrepancy?	
0 for No	The system will not raise material request for parts / quantities for deferred discrepancies for which <ul style="list-style-type: none"> • Issue # exists in 'Confirmed ' status • Parts were pegged automatically from the previous instance of the discrepancy # (Material Request Portability)
1 for Yes	The system will generate a material request for all the required parts of deferred discrepancy regardless of the issues/ parts pegged in the previous package.

WHAT'S NEW IN REPAIR ORDER MANAGEMENT?

Ability to automatically generate MR for the source WO for scrappage of parts in Repair Order

Reference: AHBG-22979

Background

During Engine Maintenance, multiple child work orders will be created post disassembly. One or more child assemblies can be routed for External Repair. It is possible that the repair agency can declare the component as BER. In such scenarios, manually tracking scrapped units and planning for replacements will be a difficult task for the technician. This causes delay in work order completion. This enhancement allows the system to generate a Material Request automatically for the Replacement parts whenever a part is declared as a BER by the Repair Agency.

Change Details

Common Master

A new Process Parameter 'Automatic generation of MR when parts routed for External Repair are declared as BER?' is added in the **Define Process Entity** activity of the **Common Master** business component, under the Entity Type 'Shop Work Order Type' with the following values:

- 'Not Allowed' - System does not allow automatic generation of MR for the replacement part when the part routed for external repair is declared as BER as per existing behavior.
- 'Allowed' - System allows automatic generation of MR for the replacement part when part routed for external repair is declared as BER.

Logistics Common Master

A new Process Parameter 'Generate Replenishment PR for the parts declared as BER, if there is an Auto MR initiated during the Scrappage' is added in the **Set Inventory Process Parameters** activity of the **Logistics Common Master** business component, under the Category 'Scrap Note' with the following values:

- 'Not Required' - System does not allow automatic generation of PR for the BER Qty when there is an Auto MR is already created for BER Qty during Authorization of Repair Order.
- 'Required' - System allows automatic generation of PR for the BER Qty, even when there is an existing MR created for the BER Qty during Authorization of Repair Order.

Exhibit 1: Identifies the addition of new set option in Define Process Entity screen

#	Process Parameter	Permitted Values	Value	Status	Error
1	Automatic generation of MR when parts are routed for External Repair is declared as BER?	Enter '0' for 'Not Allowed', '1' for 'Allowed'	1	Defined	
2	Default Numbering Type	Enter a valid Document Numbering Type defined in Document Numbering class	ASWO	Defined	
3	Default Category	Enter '0' for 'none' or a valid entity value defined against the Entity type "Category"	1-Repair	Defined	
4	CoM Req?	Enter "0" for 'Not Required', "1" for 'Required', "2" for 'As Required'	0	Defined	
5	Default Priority Code	Enter a valid code defined in the Logistics Common Masters business component.	NRM	Defined	
6	Work order Creation on	Enter "0" for Unserviceable Routing, Enter "1" for Customer Order Authorization	1	Defined	
7	Work Order status on auto generated work order ?	Enter "0" for 'Draft', "1" for 'Planned'	0	Defined	
8	Addition of Routine Tasks during execution ?	Enter "0" for 'Not Allowed', "1" for 'Allowed in Fresh status', "2" for 'Allowed in	2	Defined	
9	Status of Non-Routine Tasks added during execution ?	Enter "0" for 'Fresh', "1" for 'Planned'	1	Defined	
10	Auto MR Generation on Order Release ?	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	
11	Allow Manual Short Closure of Material Request from Material Request Business	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
12	Request Category for Regular Parts	Enter a valid MR category defined in Material Request business component.	HM	Defined	
13	Request Category for Main Core Parts	Enter a valid MR category defined in Material Request business component.	HM	Defined	
14	Discrepancy Numbering Type	Enter a valid Document Numbering Type defined in Document Numbering class	CDP	Defined	
15	Component Replacement Numbering Type	Enter a valid Document Numbering Type defined in Document Numbering class	REPL	Defined	
16	Numbering Type for Regular Part Material Requests	Enter a valid Document Numbering Type defined in Document Numbering class	SMR	Defined	

Exhibit 2: Identifies the addition of new set option in Set Inventory Process Parameters screen

#	Category	Parameter	Permitted Value	Value	Status
1	Scrap Note	Capital and Revenue Parts in a single Scrap Note	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined
2	Scrap Note	Generate Replenishment PR for the parts declared as BER, if there is an Auto MR initiated during the Scrappage?	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined
3	Scrap Note	Material Group Control	Enter '0' for 'Not Required', '1' for 'Required'	0	Defined
4	Scrap Note	PR generation option for scrapped part	Enter '1' for 'Prime Part', '2' for 'Scrapped Part', '0' for 'Not	1	Defined
5	Scrap Note	Scrap Note for Part declared as BER and salvaged at Repair Shop	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined

Repair Order

Automatic Material Request document will be generated for the BER quantity identified in the Repair Order having the Parent SWO/ Child SWO reference during the following scenarios.

- A. Consider that a Core Part is disassembled from the Parent SWO or a Child SWO is created from Parent SWO, and the core part is routed externally to Repair Agency for repair. If one or more cores shipped to the repair agency is identified as BER during the Repair, upon authorization of Repair order, system generates Automatic Material Request Document for the BER quantity identified in the Repair Order. Respective Parent SWO /Child SWO # will be updated as Reference Document # in the Automatic MR.
- B. Consider that a Child SWO Main core part is routed externally for Repair Agency for repair. If one or more Main Core parts shipped to the Repair Agency are identified as BER during the repair, upon authorization of Repair order, system generates Automatic Material Request Document for the BER quantity identified in the Repair Order. Always Parent SWO # will be updated as Reference Document # in the Automatic MR as the Child SWO Main Core part is scrapped.

Automatic Material Request will be generated for the BER quantity, when the following conditions are met:

- Repair Order having the BER Quantity.
- Repair Order having Parent / Child Shop Work order reference. (i.e. Routing of Parts to external agencies from Work Center).
- If the Set Option "Automatic generation of MR when parts are routed for External Repair is declared as BER?" is set as 'Allowed' in the **Define Process Entities** activity of the **Common Master** business component.



Note: If any of the above conditions fails or if user manually enters the Work order reference in Repair Order, then the system will not generate Automatic Material Requests.



If workflow is enabled for RO authorization, then the system generates the automatic MR when final authorizer approves the RO.



Automatic Material Request will be generated in Authorized status.



If Main Core part of the Parent SWO itself got scrapped, then Automatic MR will not be generated.



If Child / Subassembly SWO or Repair Order is linked with Exchange Order, then Automatic MR will not be generated.



*If an automatic MR is created for the scrapped quantity, then system restricts generation of replenishment PR and direct PR for the scrap note generated based on the option "Generate Replenishment PR for the parts declared as BER, if there is an Auto MR initiated during the Scrappage" defined in **Set Inventory Process Parameters** activity under **Logistics Common Masters** business component.*

WHAT'S NEW IN OBJECT ATTACHMENTS

Ability to upload documents against a Journey Log

Reference: AHBG-22879

Background

Currently, the users can load documents associated with flight / journey under **Business Component Name - Aircraft Maintenance Exe. Ref.** and **Ref. Doc. Type - Aircraft Maintenance Exe. Ref. #**. However, an identifiable **Component Name** and **Ref. Doc. Type** combination is required to upload scanned journey log documents to the central repository of **Ramco Aviation**.

Change Details

In the **Object Attachments** business component, the following changes have been incorporated in order to enable the users to upload scanned copies of journey log documents:

- In the **Upload Documents** page, under the **Upload File Details** group box, the new option **Flight Log** has been added in the **Business Component Name** drop-down list box. Next, the **Ref. Doc. #** drop-down list box will now display two new options: **Journey Log** or **Fuel / Oil Log #**.
- Similarly, in the **Delete / View Associated Doc. Attachments** page, under the **Search Criteria** group box, the new option **Flight Log** has been added in the **Business Component Name** drop-down list box. Next, the **Ref. Doc. #** drop-down list box will now display two new options: **Journey Log** or **Fuel / Oil Log #**.

WHAT'S NEW IN COLLABORATOR?

Ability to display MCR # with PCR # in Collaborate post

Reference: AHBG-28577

Background

Currently, the **Notification Inbox** text message for the **Collaborate** post against the PCR documents displays the PCR # for the post. However, the Engineering personnel search and retrieve the engineering orders based on the MCR # that is associated with the source document (SB or AD). Hence, a provision to display the MCR # in addition to the PCR # in the **Notification Inbox** text message for the **Collaborate** posts against PCR documents would enable the users to swiftly retrieve the engineering orders and proceed with their authoring and release.

Change Details

To ensure that the MCR # is also displayed in the **Notification Inbox** text message for the **Collaborate** posts against the PCR documents, the following developments have been incorporated in the **Ramco Aviation** system:

- New process parameter 'Display MCR # along with PCR # in collaborate post?' has been added under the entity type Eng. Doc. Type and the entity '--All Eng. Doc--' in the **Define Process Entities** activity of **Common Master** to enable the display of the MCR # in the **Notification Inbox** text message for the **Collaborate** posts against the PCR documents.

Process Parameter: Display MCR # along with PCR # in collaborate post?	
Parameter Value	Impact on the Notification text message
0 for No	The Collaborate post listed in the Notification Inbox for the intended user will display only PCR #, if the post is associated with a PCR document.
1 for Yes	The Collaborate post listed in the Notification Inbox for the intended user will display both PCR # and MCR#, if the post is associated with a PCR document.

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