RAMCO AVIATION SOLUTION

ENHANCEMENT NOTIFICATION

Version 5.8.7

MX-Mobility

contents

contents

contents

contents

WHAT'S NEW IN MOBILITY?

Mobile Application for Risk Management - CrewAnywhere

Reference: AHBG-29182, AHBG-29188, AHBG-29187; AHBG-29189, AHBG-29190; AHBG-29191; AHBG-29192, AHBG-29193, AHBG-29196, AHBG-29197

Background

For On Demand Operators and HEMS, to operate as efficiently and profitably, their Flight Operations must be agile, prompt and must meet the safety standards as 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.

To achieve the highest level of efficiency from the Pilots, Co-Pilots, Instructor Pilots and Cabin Crew) in the Flight Operations process, a new mobile application has been designed and developed to evaluate and mitigate the human risks emanating from them.

Pilots and the Flight Operations crew with the required login user – current role mapping can login to the application and access the relevant Risk Assessment questionnaires and record responses. The responses are evaluated and the response scores are derived based on predefined score for reach of the responses to a question in the questionnaires.

This mobile application works in conjunction with the desktop business component Risk Management under the BPC of Flight Operations. Risk Management provides the framework and the infrastructure for establishment of the Risk Assessment survey and the employee response evaluation processing.

Change Details

The **CrewAnywhere** mobile application has been developed to manage the entire process of evaluation and mitigation of risks that Flight Operations face from the Pilots, Co-Pilots, Instructor Pilots and Cabin crew. The application covers the entire process of risk assessment including downloading the relevant questionnaires, recording responses and then evaluating the scores to determine risks. The risks are categorized as Acceptable, Mitigable and High Risk.

The mobile application of CrewAnywhere includes the following features that drive the Risk Assessment process.

- Duty check in and check out
- Reading Notification Messages
- Risk Assessment
- Manage Trips

Check in and Check Out

- The dashboard is a centralized platform that enables Pilots, Co-Pilots, Instructor Pilot and Cabin crew to perform the following crucial tasks:
    - Check-in and Check-Out for duty
    - Manage Risk Assessment

- Execute required actions for mitigating risks
- View Notification Messages
- Manage Trips
- Pilot Currency including pilot duty details

- On successful launch of CrewAnywhere, the users are placed in the CrewAnywhere Dashboard page. The dashboard based on the activity-role mapping of the login user displays the following information:
  - Employee & Work center information
  - Alerts
  - Risk Assessment: Record New Risk Assessment: Assessment History, Action Required
  - Trip Details: New Trip, Trip List
  - Notification Messages
  - Pilot Currency Information

Reading Notification Messages

It is mandatory for Pilots and other Flight Operations crew to read the Notification messages before they check-in for duty. Upon successful login, the users are placed in the Dashboard screen. They can also read messages at any point of time from the dashboard. They can also view the images attached to the messages. However, the system does not allow the users to check-in prior to reading the messages. However, the act of reading messages upon mandatory upon clock in configurable based on process parameters that can be pre-defined in the system depending on organization practices. Again, it could also be mandatory for the pilots and crew to read and the notification messages before they proceed to modify the Risk Assessment questionnaire response depending on organization practices. This kind of restriction has been built in the application to ensure that no critical information misses the attention of the pilots and crew to ensure the safety of the flight operations.

Risk Assessment

Typically, the pilot creates a trip, which is a essentially flight journey. Then, the pilot proceeds to add crew to the trip.

The Risk Assessment feature of CrewAnywhere offers the following abilities to the Pilot, Co-Pilot and crew:

- Select the applicable questionnaire type to perform risk assessment after duty check-in
- Record responses to risk assessment form and mitigations comments
- Submit the assessment form for approval to supervisors
- Display of assessment level total score
- Review the required actions based on risk assessment

The users can specify search criteria to retrieve the risk assessment they wish to view or respond to. The risk assessment response can be completed in one or more sessions. The responses of the Flight Operations staff to the questionnaire are evaluated, any risk ascertained and categorized into three levels: Acceptable, Mitigable and High Risk. The response score levels are highlighted to the users by means of color-coded indicators. The supervisors can return the responses to the questioned employee for reassessment. These are termed as the Action Required risk assessments.

- The process parameter “Role for which auto approval of Risk Assessment is enabled" has been added under the entity type Mobility and the entity CrewAnywhere to specify roles for which the risk assessment is automatically approved.

Process Parameter: Role for which auto approval of Risk Assessment is enabled	
Process Parameter Value	Impact
Enter 1/ 2/3/4 or a combination of these separated by comma. 1 for Pilot 2 for Co-Pilot 3 for Instructor Pilot 4 for Crew	The risk assessment of the login user will be automatically approved, if his / her current role is same as the parameter value.

- The process parameter "Show default Mitigation Comments in new Risk Assessment and Risk Assessment in fresh status" has been added under the entity type Mobility and the entity CrewAnywhere to automatically default mitigation comments for new risk assessment or risk assessment in Fresh status.

Process Parameter: Show default Mitigation Comments in new Risk Assessment and Risk Assessment in fresh status	
Process Parameter Value	Impact
Enter 0 for No	A new Risk assessment or risk assessment in the Ffresh status will not display default mitigation comments, Comply button and other comments
1 for Yes	A new Risk assessment and risk assessment in fresh status will display default mitigation comments, the Comply button and other comments

- The process parameter "Show Response level score in new Risk Assessment and Risk Assessment in fresh status has been added under the entity type Mobility and the entity CrewAnywhere to automatically evaluate and display response score for risk assessments in the Fresh status.

Process Parameter: Show Response level score in new Risk Assessment and Risk Assessment in fresh status	
Process Parameter Value	Impact
Enter 0 for No	A new Risk assessment and risk assessment in the Fresh status will not display response level scores
1 for Yes	A new Risk assessment and risk assessment in the Fresh status will display response level scores

- The process parameter "Is Signoff required in Risk Assessment?” has been added under the entity type Mobility and the entity CrewAnywhere to specify whether the employee must sign off the risk assessment form after completing response.

Process Parameter: "Is Signoff required in Risk Assessment?”	
Process Parameter Value	Impact
Enter 0 for No	Sign off by the employee after risk assessment response is not required.
1 for Yes	Sign off by the employee after risk assessment response is mandatory.

- The life cycle of risk assessment based on the status is explained in the

User Action	Status
Save of Risk Assessment	Fresh
Submit for Approval	Pending Approval
Approved by Supervisor	Approved
Returned by Supervisor	Returned
Rejected by Supervisor	Rejected
Cancelled by Employee	Cancelled

Manage Trips

The "**Manage Trip"** feature of **CrewAnywhere** enables the pilots to manage trips and associate crew to the trips for their journeys. However, the pilot must be a login user holding the relevant authorization to be able to manage trips and associate crew to trips. Trips are typically flight journeys that the pilots and the crew carry out as part of Flight operations. A trip is essentially a flight journey commanded by the pilots.

When a pilot adds crew from the selected work center, their Risk Assessment details also becomes accessible

This feature supports the following tasks to be executed by pilots:

- Manage Trips: You can retrieve all the previously created trips based on search filters. You can also left swipe and record response to risk assessment questionnaire for an yet-to-be-completed trip
- Create New Trip: A pilot can create a trip and then associate a crew to the trip for the flight / journey with or without flight requests.
- Edit / View Trip: A pilot can search and retrieve the required trips and then change or delete the crew members from a not yet completed trip. Or the pilot can just view the details of trips based on certain search criteria. However, a trip cannot be modified, if it has already been completed.
- The users can specify search criteria including Aircraft Reg. #, Call Sign, Trip No., Trip date, Employee Code, Departure-Arriving Station, Request No. and Status to precisely retrieve the trips you want to view or modify.
- The process parameter "No. of days considered to fetch trips in manage trip screen when no date filter is mentioned" has been added under the entity type Mobility and the entity CrewAnywhere for the users to specify the number of days for which trips can be retrieved in the event of the users not specifying any trip date in the **Manage Trips** or **Edit/ / View Trips** screen.

Process Parameter: "No. of days considered to fetch trips in manage trip screen when no date filter is mentioned"	
Process Parameter Value	Impact
Enter a whole number	For example, if the value of the process parameter is 10 and the current date is 24th June, the search will retrieve trips for the period starting 10 days prior to the current date.

- The process parameter "Is Trip reference in Risk Assessment mandatory for role "Pilot" has been added under the entity type Mobility and the entity CrewAnywhere to ensure that the pilots specify the trip # in the risk assessment form

Process Parameter: " "Is Trip reference in Risk Assessment mandatory for role "Pilot"	
Process Parameter Value	Impact
Enter 0 for No	Trip # field is not mandatory *in the risk assessment form*

1 for yes	Trip # field is mandatory for an employee mapped to the sales role of pilot.

- Once the trip / flight journey is completed and journey log created, the journey log # is back updated in the trip record based on risk assessment used in the journey. Then, the journey log # is linked to the trip and the trip status changed to Completed.

Exhibit 1: The **Dashboard** screen in **CrewAnywhere**

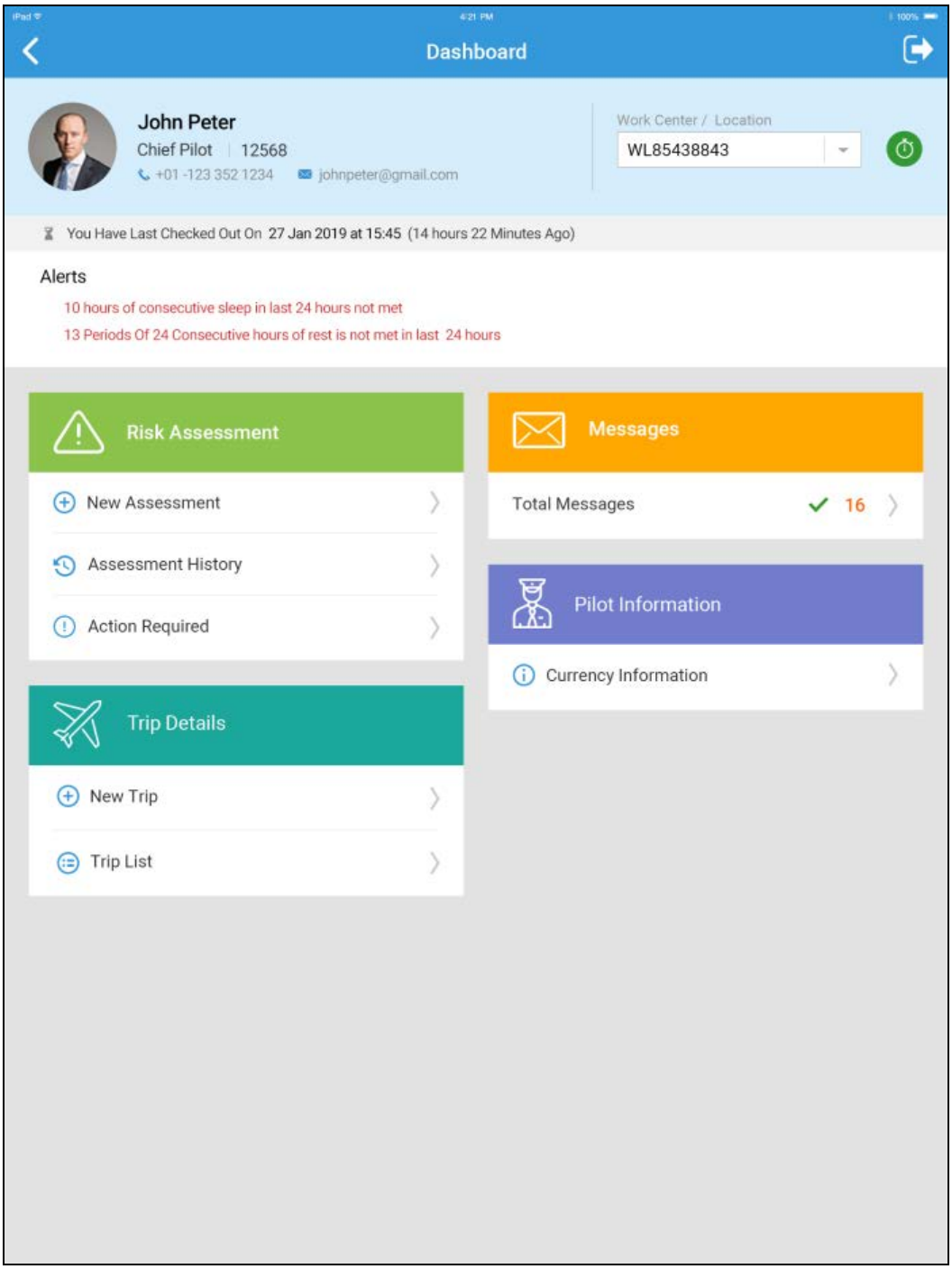


Exhibit 2: The **Messages** screen in **CrewAnywhere**

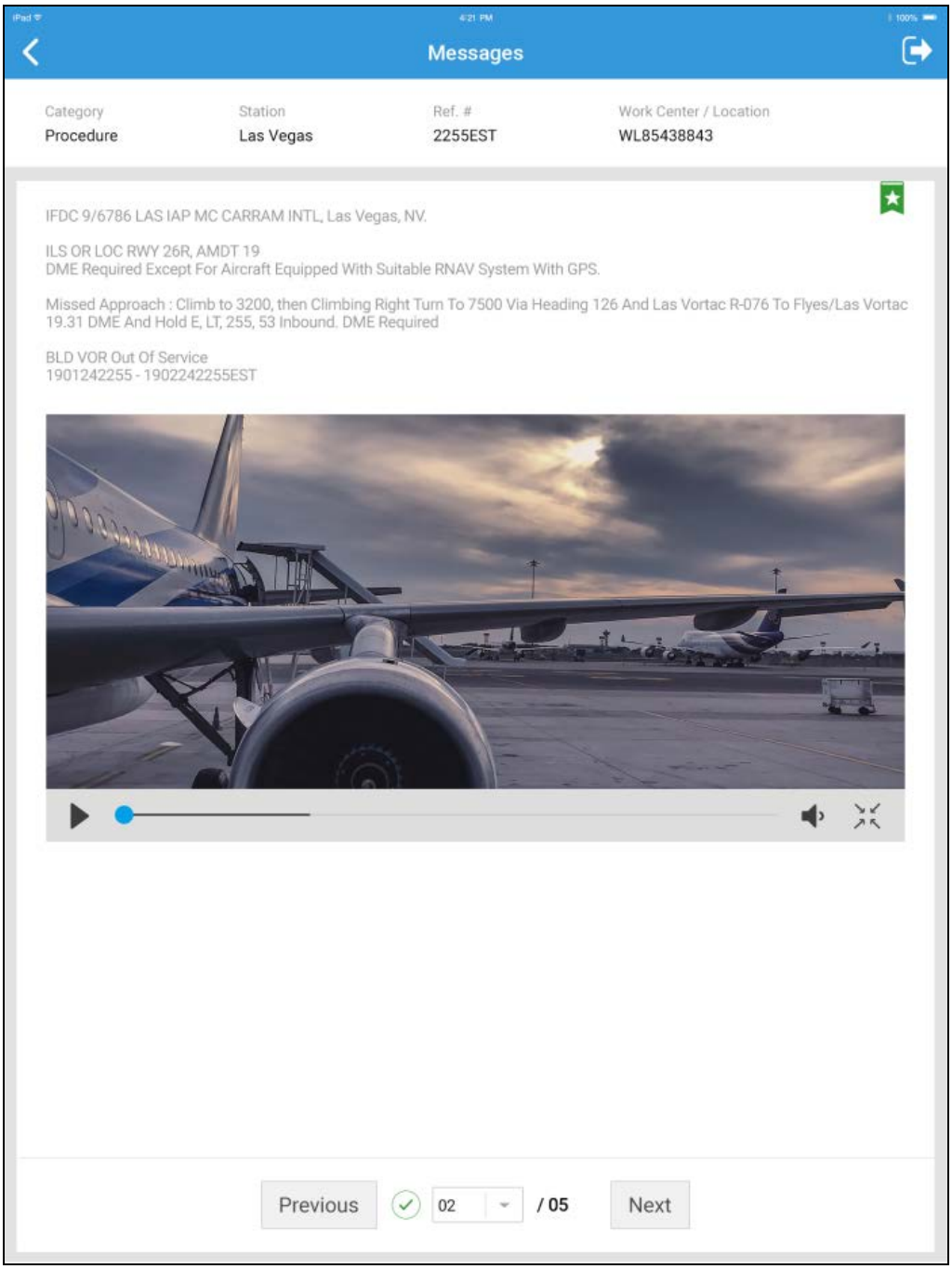


Exhibit 3: The **Risk Assessment** opening screen in **CrewAnywhere**

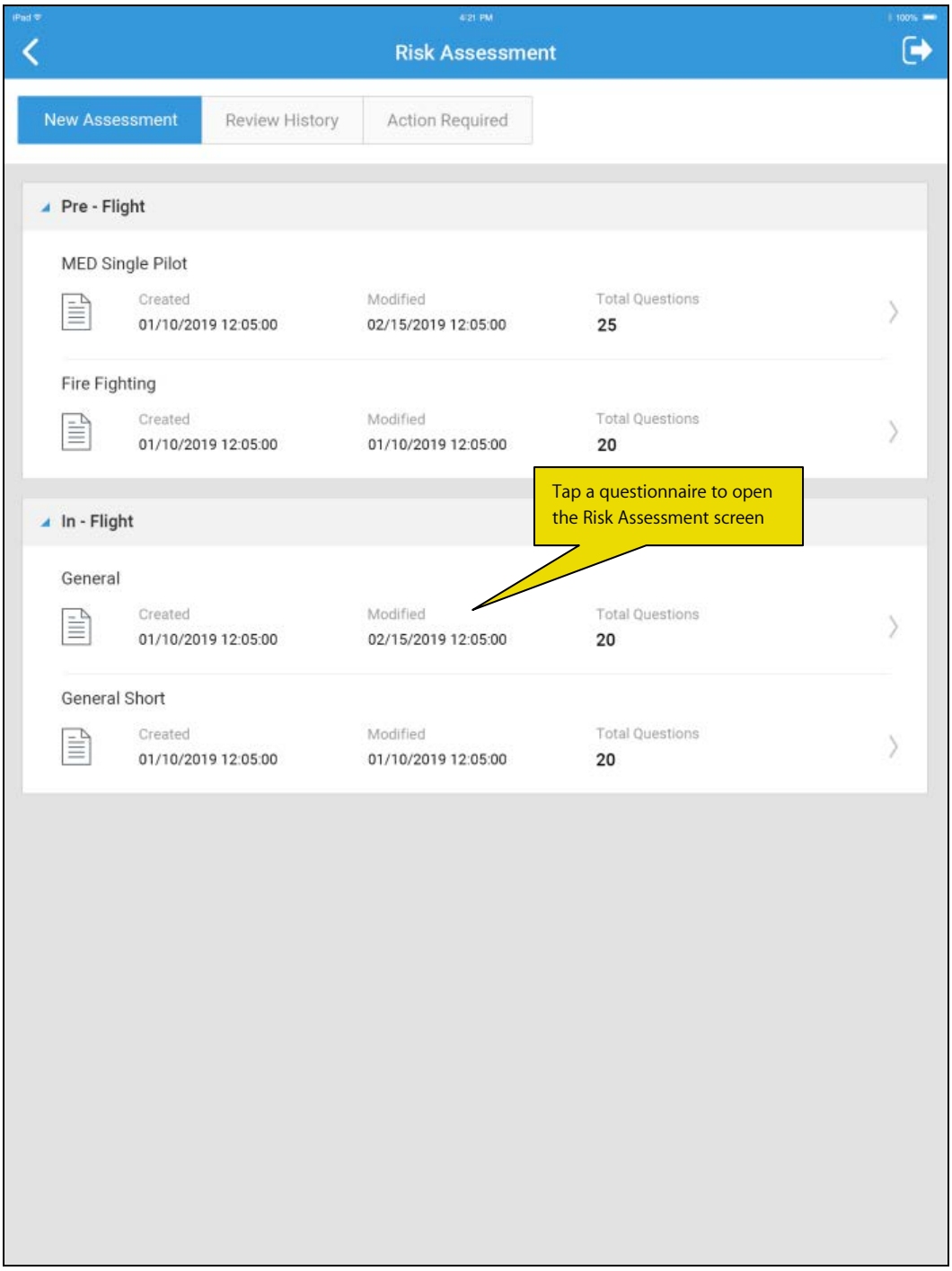


Exhibit 4: The **Risk Assessment** screen in **CrewAnywhere**

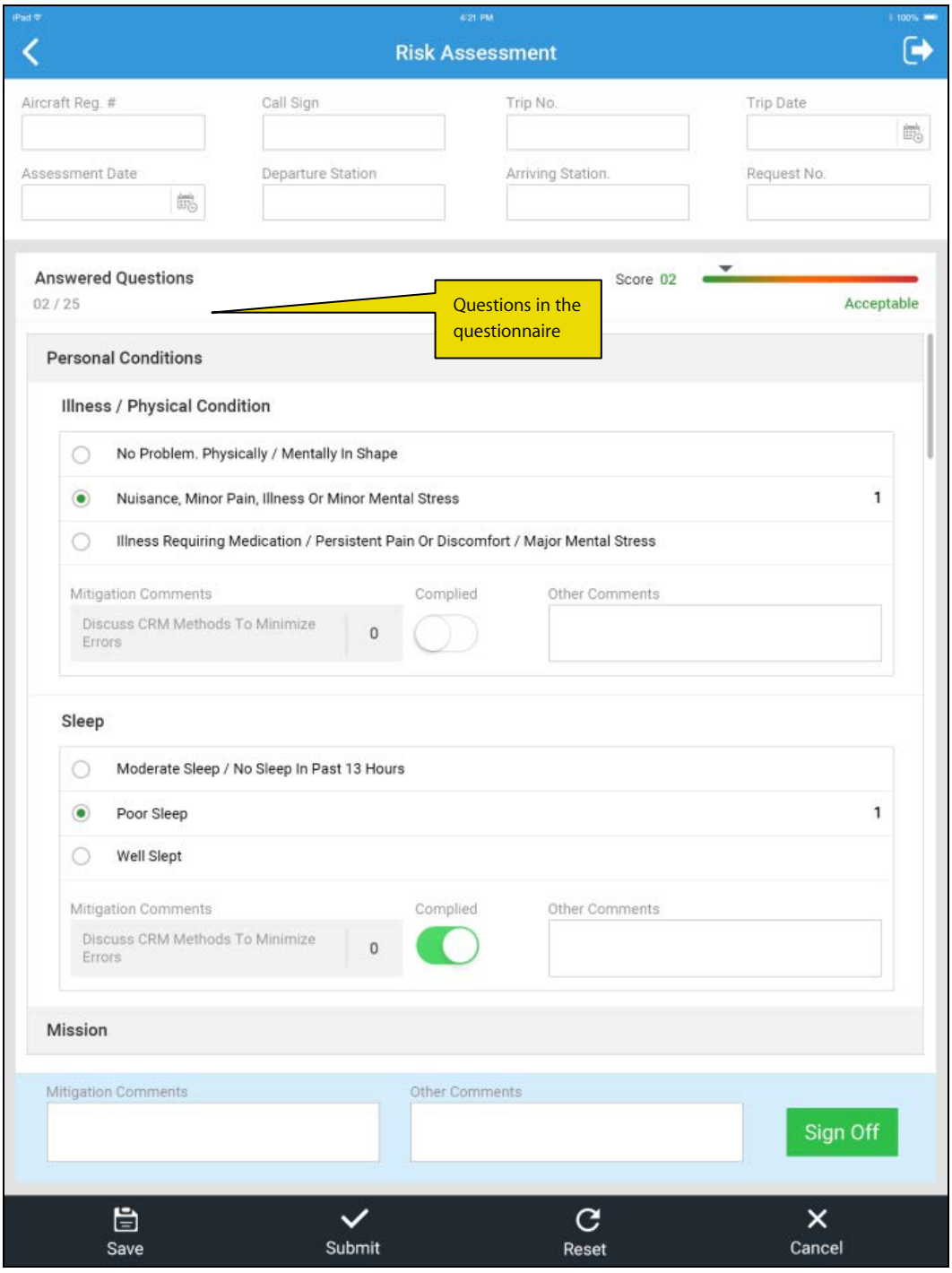


Exhibit 5: The **Review History** screen in **CrewAnywhere**

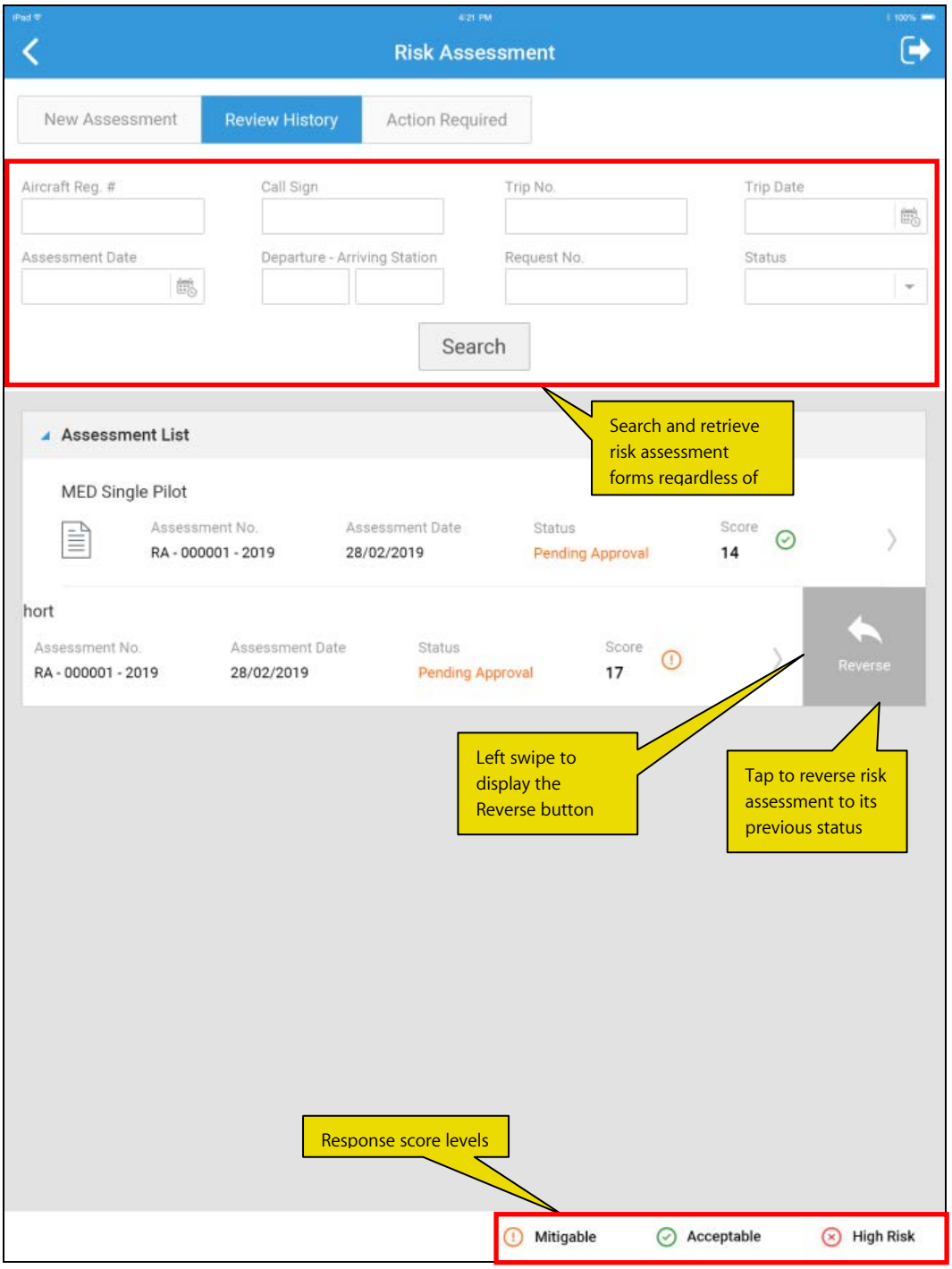


Exhibit 6: The **Action Required** screen in **CrewAnywhere**

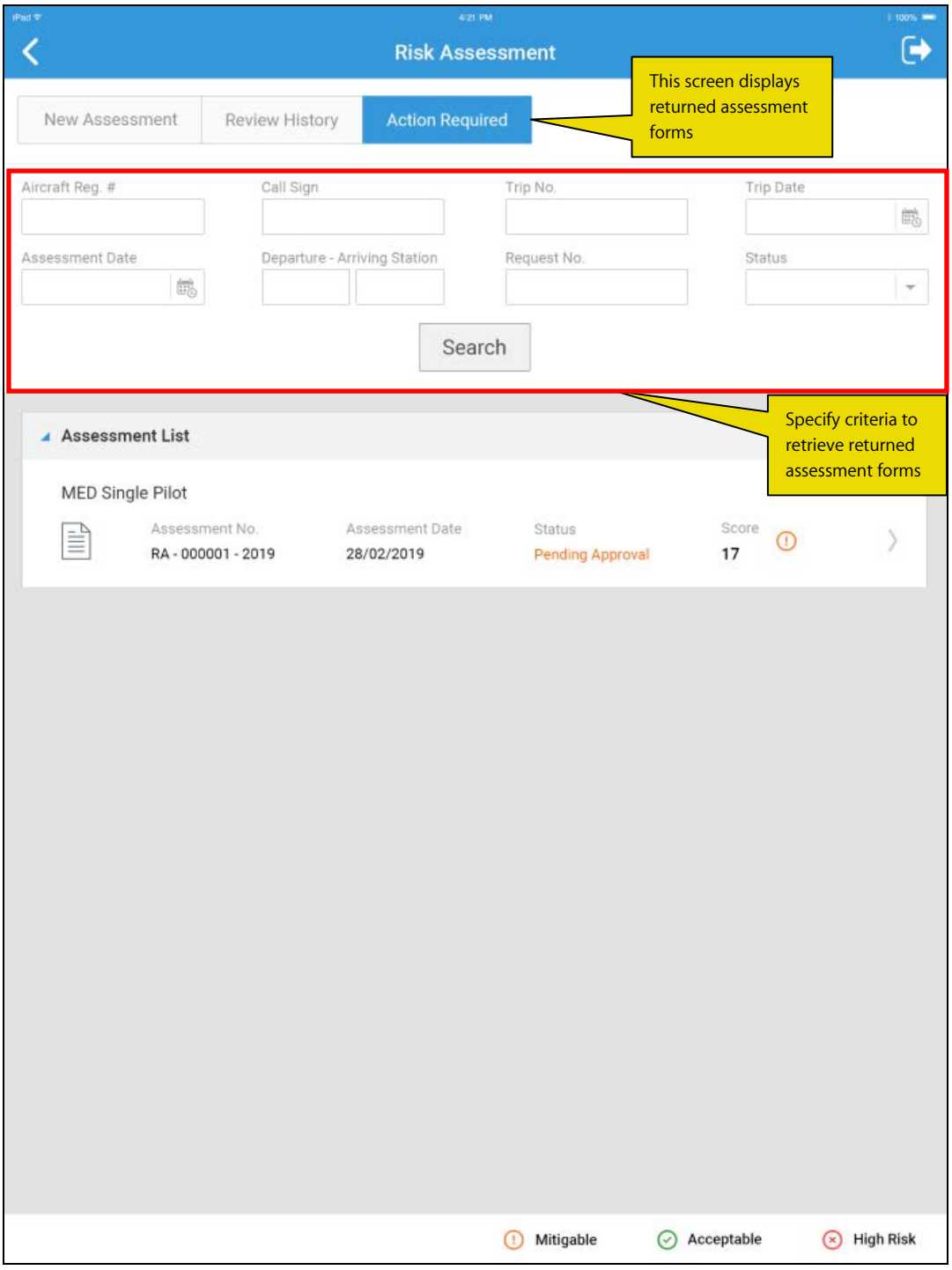


Exhibit 7: The **Manage Trips** screen in **CrewAnywhere**

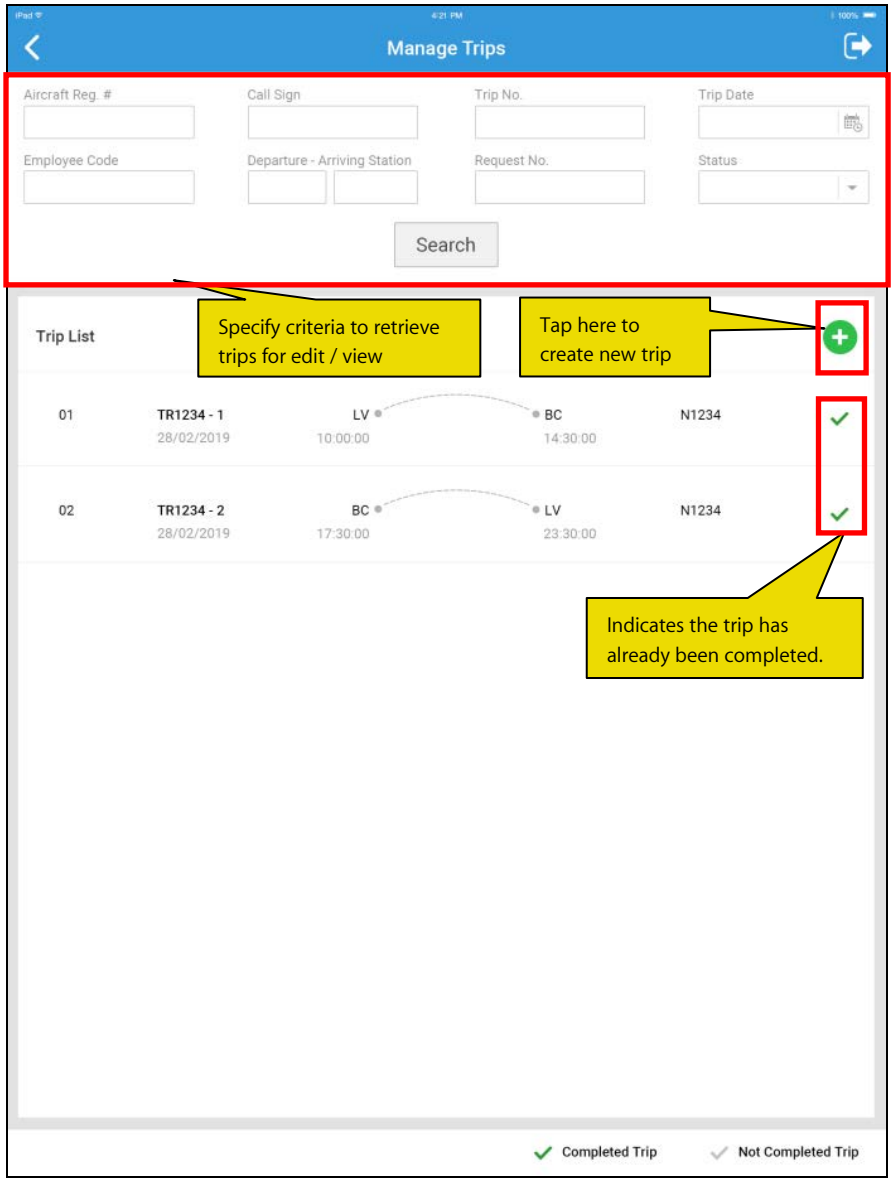


Exhibit 8: The **New Trip** screen in **CrewAnywhere**

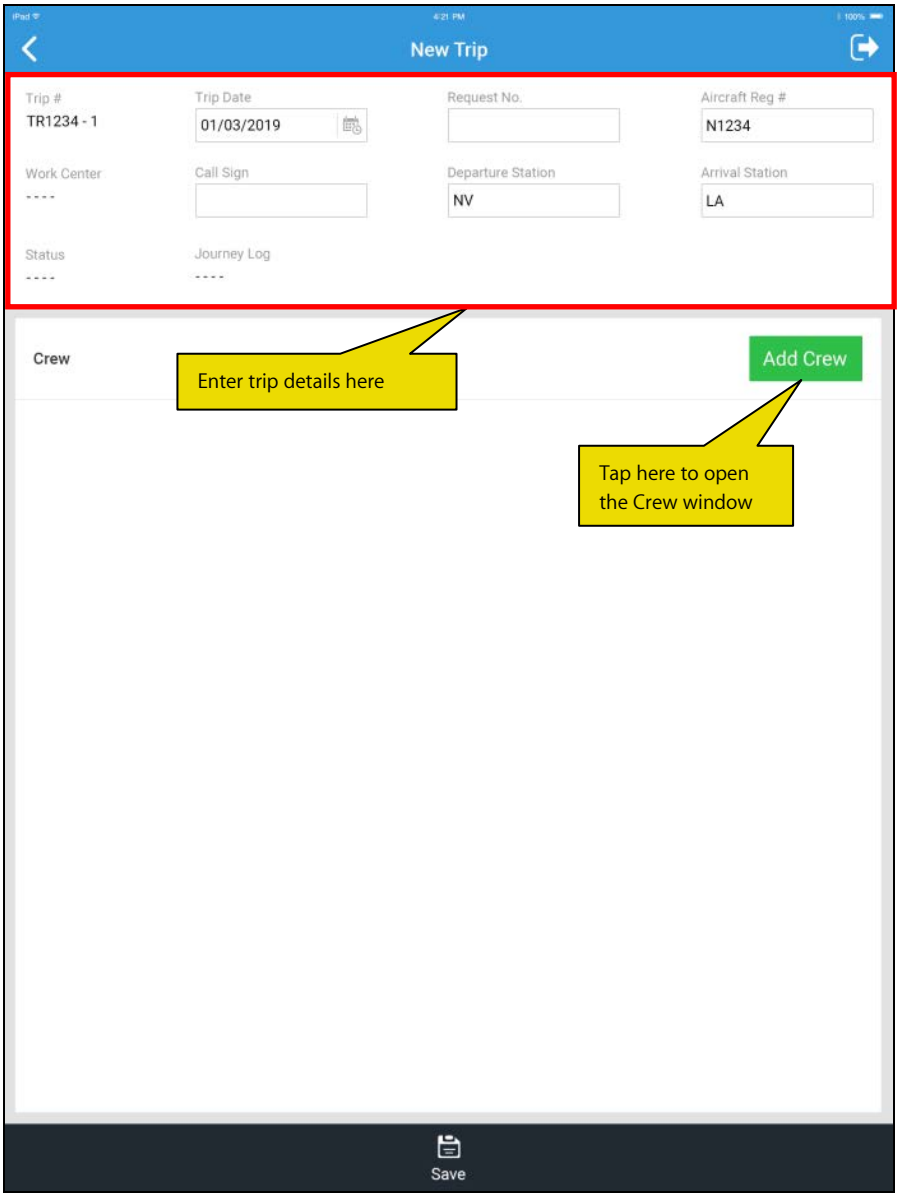


Exhibit 9: The **Crew** window in the **New Trip** screen

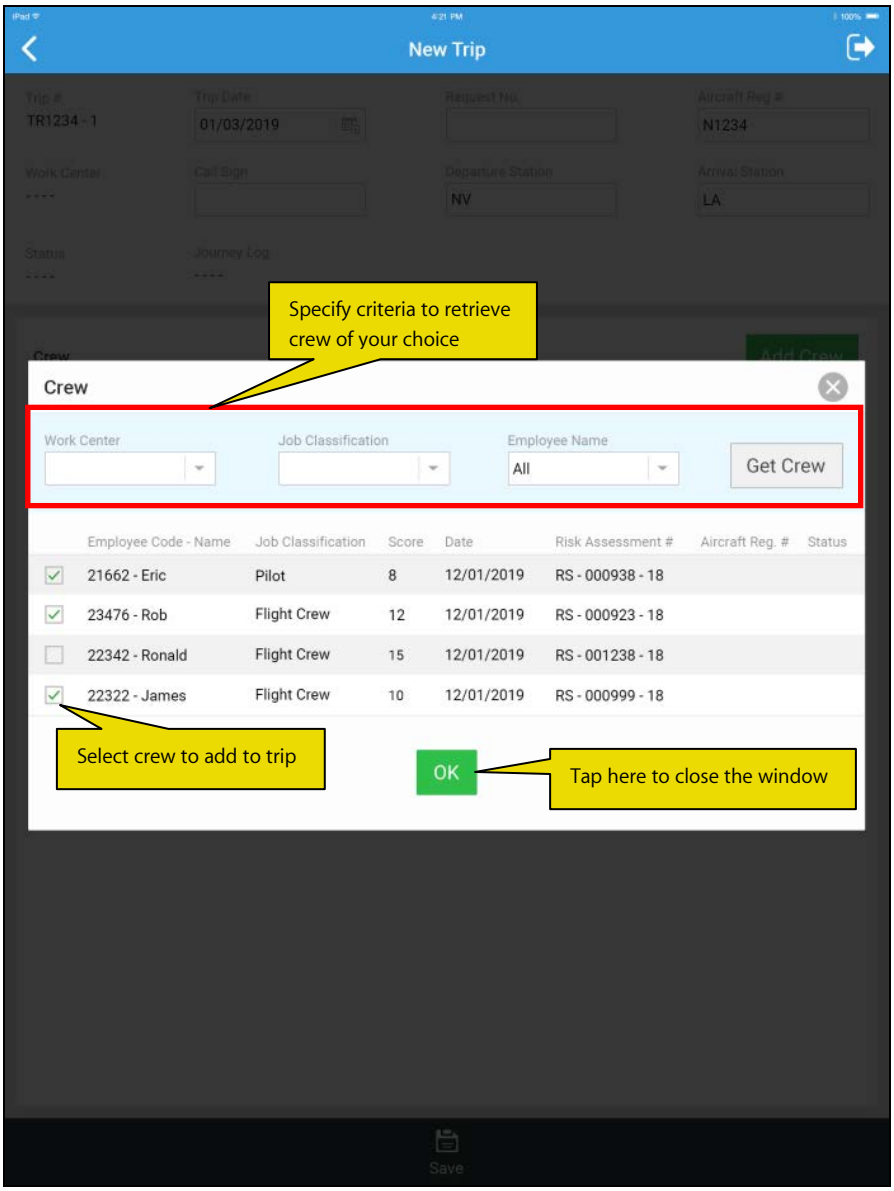


Exhibit 10: The **New Trip** screen after addition of crew

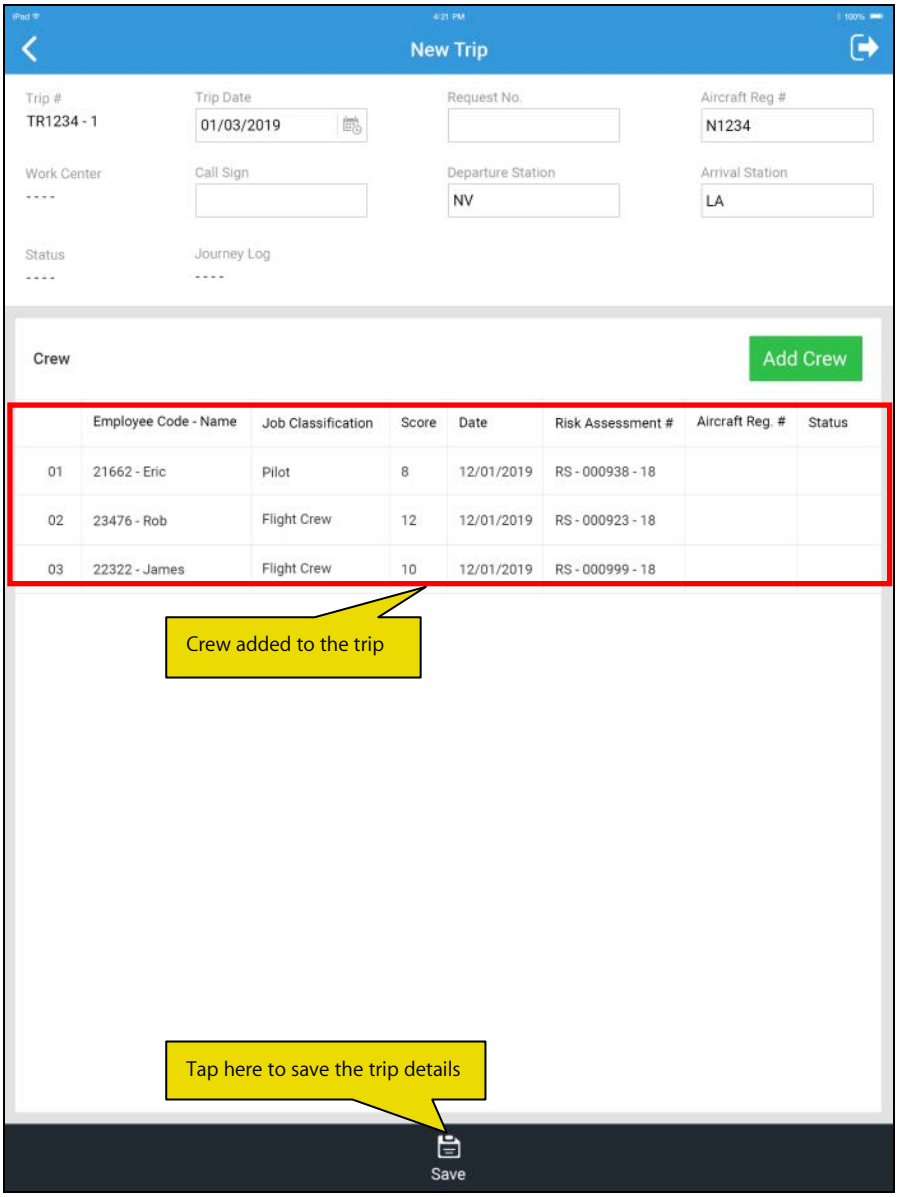
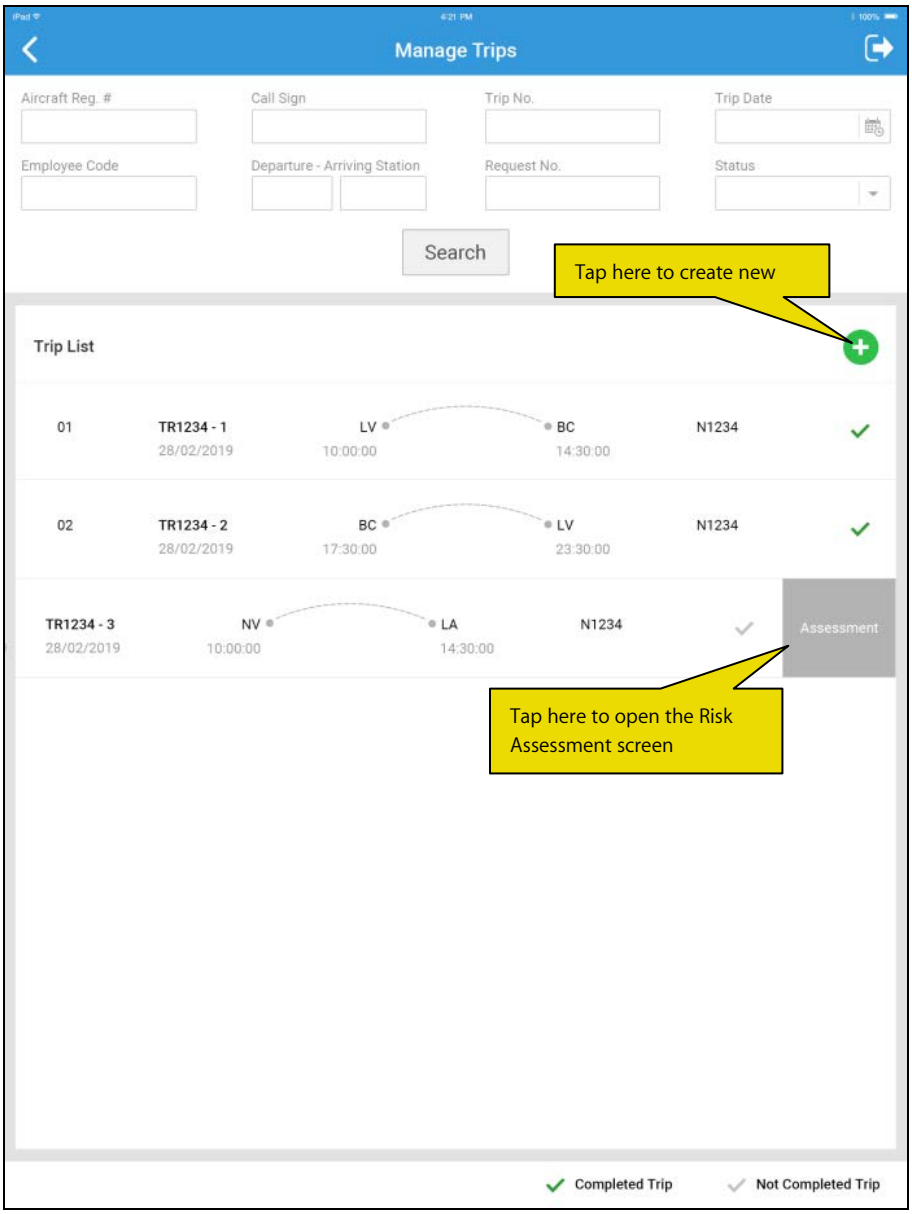


Exhibit 11: Risk Assessment from the **Manage Trips** screen after addition of crew



WHAT'S NEW IN MECHANICANYWHERE?

Ability to record parts that are frequently requested together during Material Request in MechanicAnywhere

Reference: AHBG-25545

Background

During the material requisition process for a part, the mechanics require assistance on the list of parts that can be sourced along with the requested part. For example, the parts A, B, C and D are typically requested together and whenever the mechanics raise a material request for part A, the system must intuitively suggest parts B, C and D. Therefore, a mechanism to put forth the parts that can be ordered along with a requested part is required in **MechanicAnywhere** for mobile users.

Change Details

In order to provide assistance to the users during creation of material requests for parts in **MechanicAnywhere**, the following changes have been included in the mobile application:

- New process parameter 'Show parts frequently requested together while raising MR?' under the entity type Package Type and the entity Log Card, User Defined values has been added in the **Define Process Entities** activity of **Common Master** to enable the display of the **Frequented Requested Together** popup in the **Create Material Requests** screen.

Process Parameter: Show parts frequently requested together while raising MR?	
Value	**Impact on the Show parts frequently requested together popup**
0/ Not Required	The popup will not appear on adding a part to a material request.
1 / Required	The popup will not appear on adding a part to a material request.

- New process parameter 'Show parts frequently requested together based on Part Relationship definition or MR history' under the entity type Package Type and the entity Log Card, User Defined values has been added in the **Define Process Entities** activity of **Common Master** to determine the parts that will be displayed in the **Frequented Requested Together** popup.

Process Parameter: Show parts frequently requested together based on Part Relationship definition or MR history	
Value	**Impact on the data in the Frequented Requested Together popup**
O /Part Relationship Definition	The pop up will display the parts based on the Parts relationship defined in the **Manage Parts frequently requested together** activity of **Part Administration** in the desktop application.

1 / MR History	The popup will display parts that were requested along with the requested part in previous material requests based on Aircraft Model, Type of package, Aircraft Reg # and Task

Exhibit 1: The **Create Material Request** tab of **E-Log**

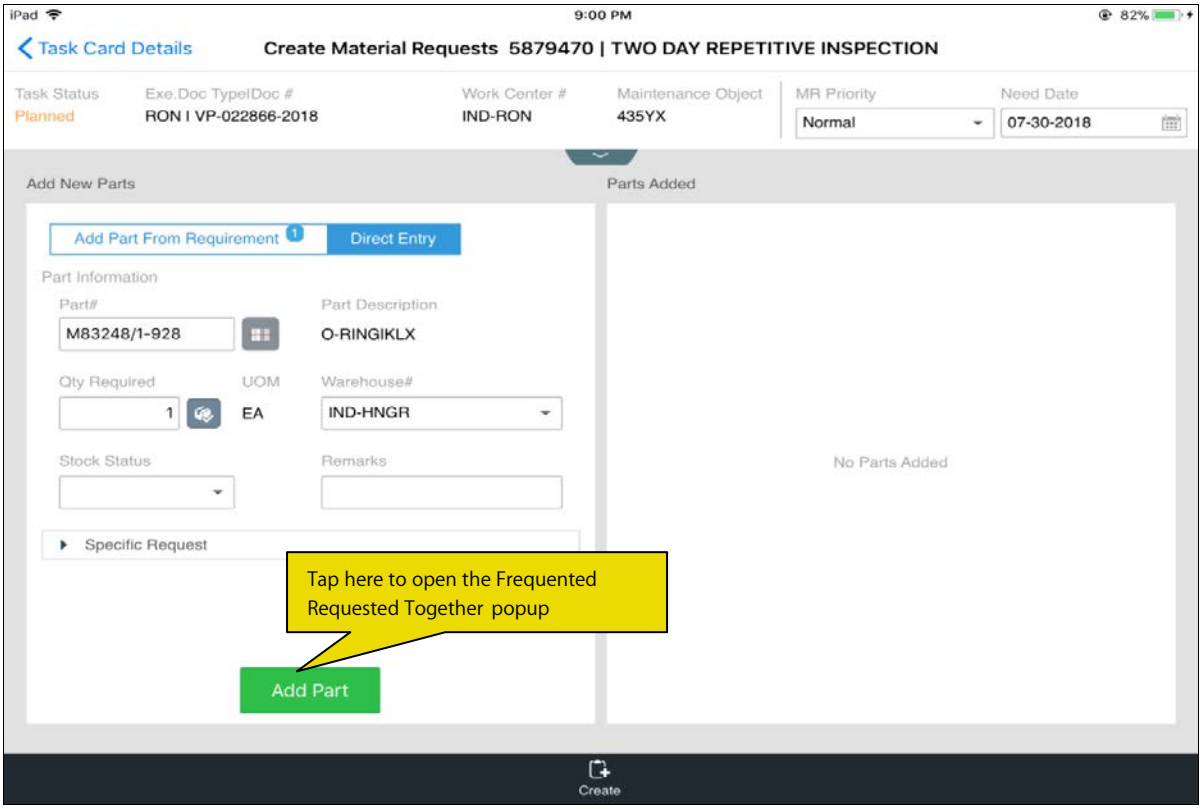


Exhibit 2: The **Frequently Requested Parts** popup

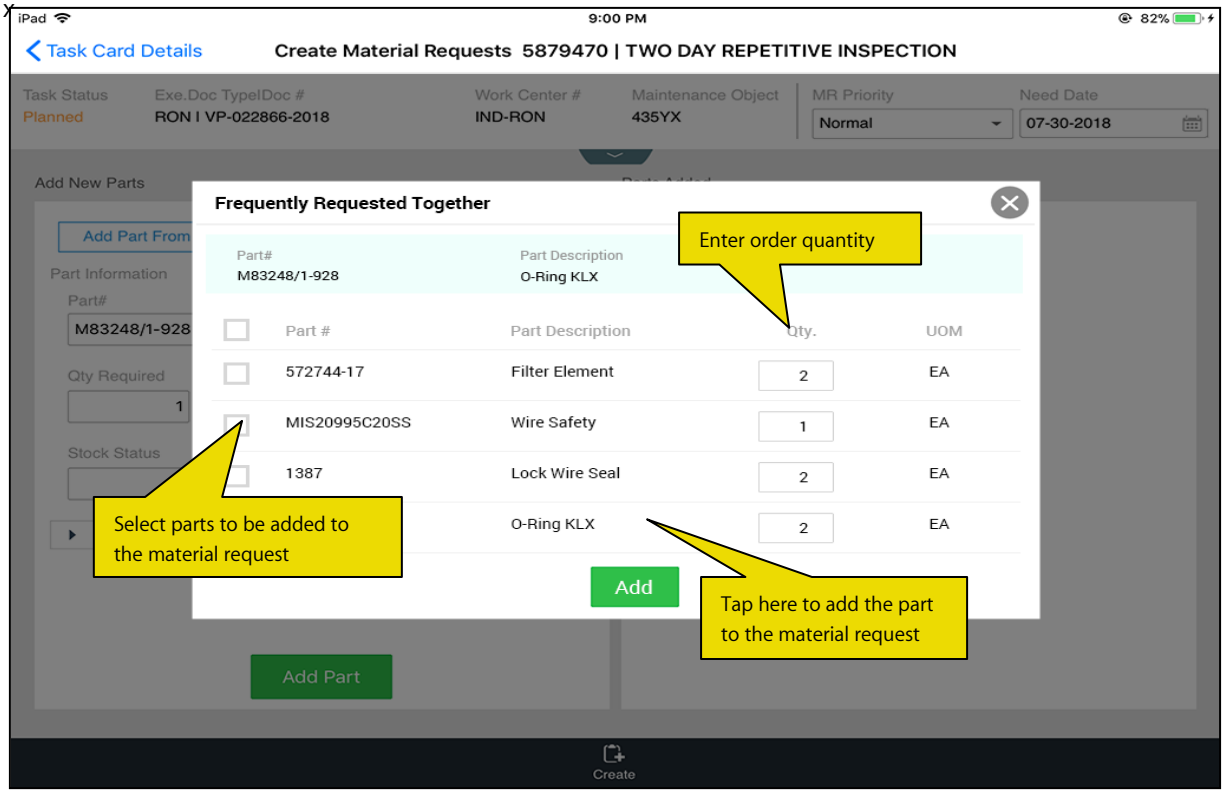
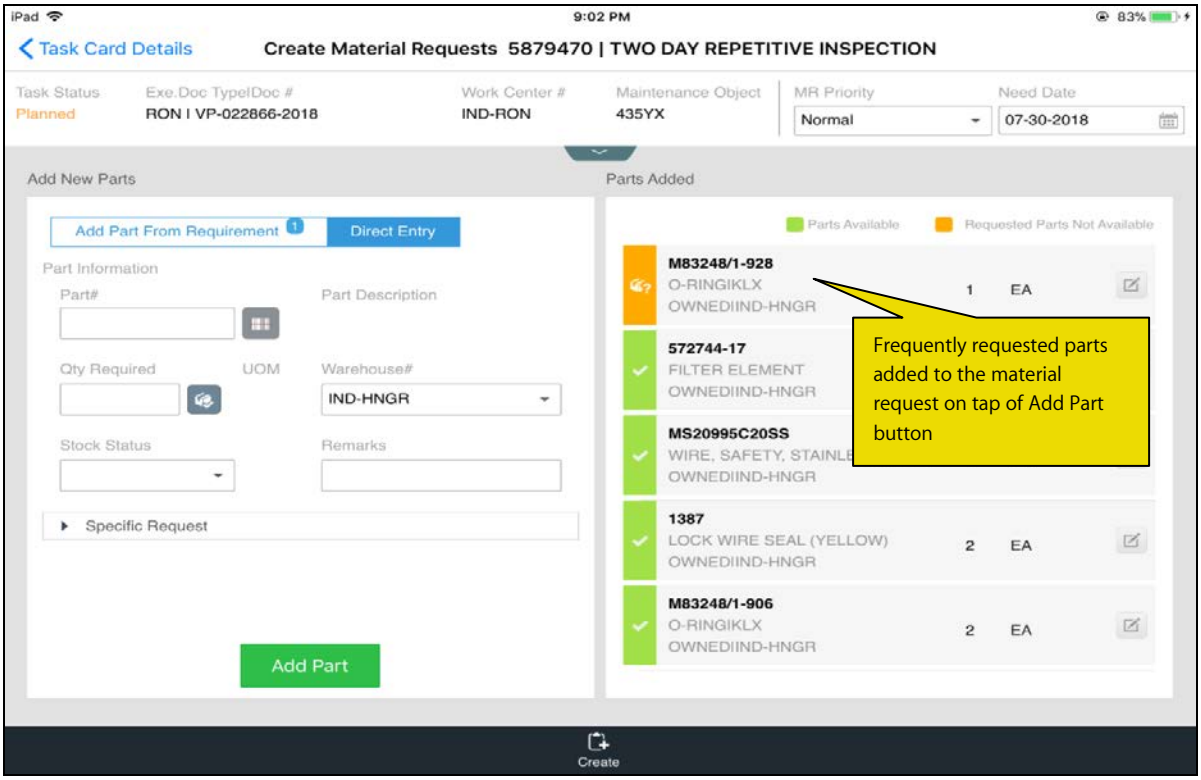


Exhibit 3: The **Create Material Request screen** after addition of parts



'This feature uses the capability of Artificial Intelligence/Machine Learning (AI/ML) for processing usage patterns and history data. Please contact your Ramco Account Manager for AI/ML installation and usage requirements.

Cognitive Discrepancy Reporting from Mechanic Anywhere

Reference: AHBG-27932

Background

In the MRO scenario, it is common for aircraft mechanics to report similar discrepancies from time to time. For instance, a discrepancy that a mechanic reports today may quite resemble a discrepancy reported sometime in the past. Considering different parameters using Machine Learning, it could be possible to list out the frequently reported discrepancies as options to the users to choose from at the time of creation / reporting of discrepancies in the mobile application of MechanicAnywhere. Such a facility would assist the mobile users in shortening the discrepancy creation / reporting process.

Change Details

To facilitate cognitive discrepancy reporting wherein the system recognizes the fresh / new discrepancy and instantly provides a list of relatable discrepancies to users at the time of creating / reporting, the following developments have been built in **MechanicAnywhere**:

- New process parameter 'Cognitive support for Discrepancy reporting?' has been introduced under the entity type Package Type and the entity All Packages in the **Define Process Entities** activity of **Common Master** to suggest a list of discrepancies at the time of creation / reporting to the users.

Process Parameter Value	Impact
1 for Required	The cognitive capability is enabled in the system by means of which the users are provided a list of relatable discrepancies in the **Description** field.
0 for Not Required	The cognitive capability of the system is not enabled and as a result, the users are not provided any discrepancy options at the time of creation / reporting.

- The users can benefit from the cognitive discrepancy reporting feature in the following screen"
    - Create Discrepancy
    - Record Discrepancy Writeup
- Taking into consideration inputs from the Description, Aircraft Reg. # / ATA # fields and the historical data of discrepancies reported in the past to fetch similar discrepancies. The users can choose from the results one of the discrepancies that they find closest to the one that is being reported / created.

Exhibit 1: The Discrepancy Write Up screen in E-Log

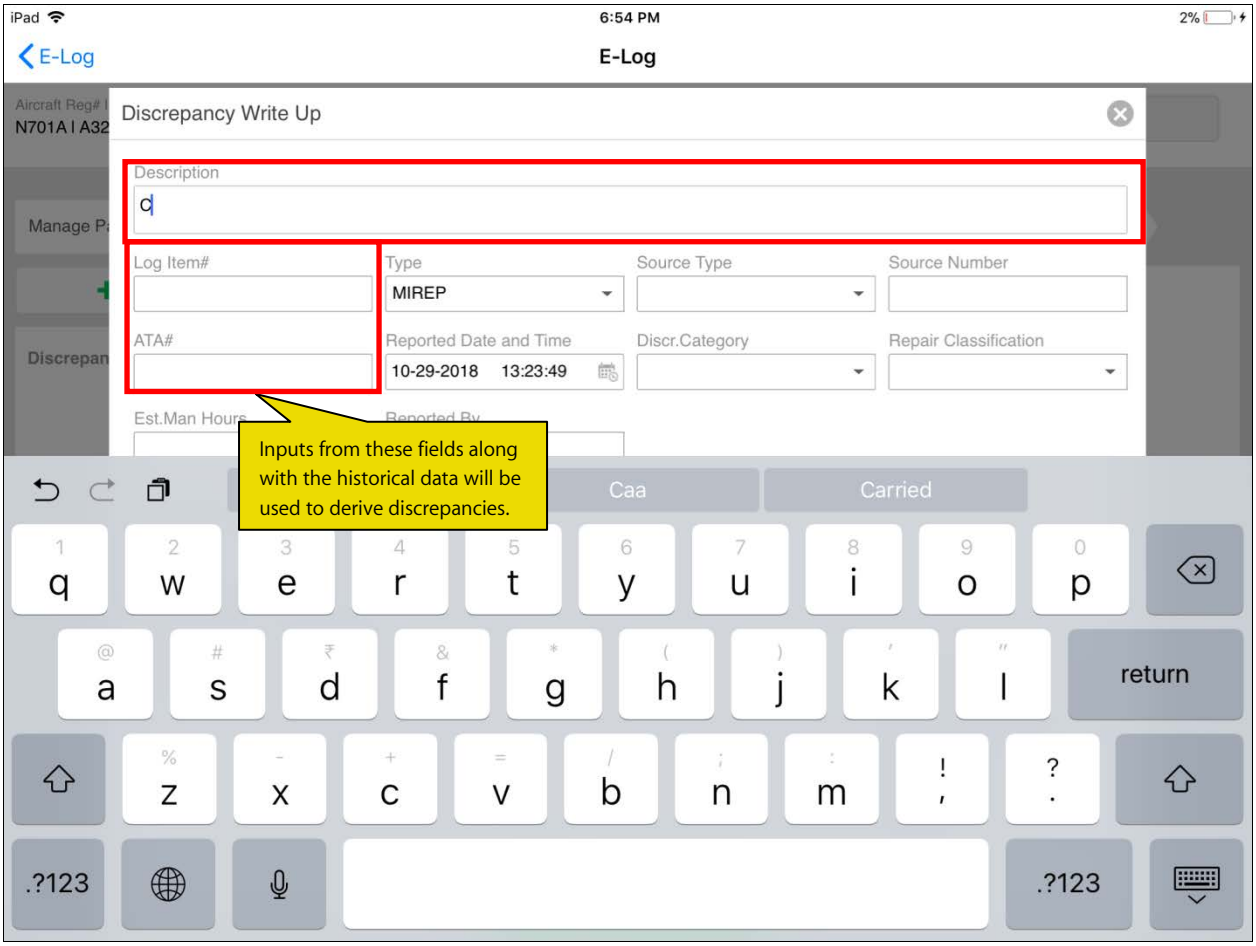
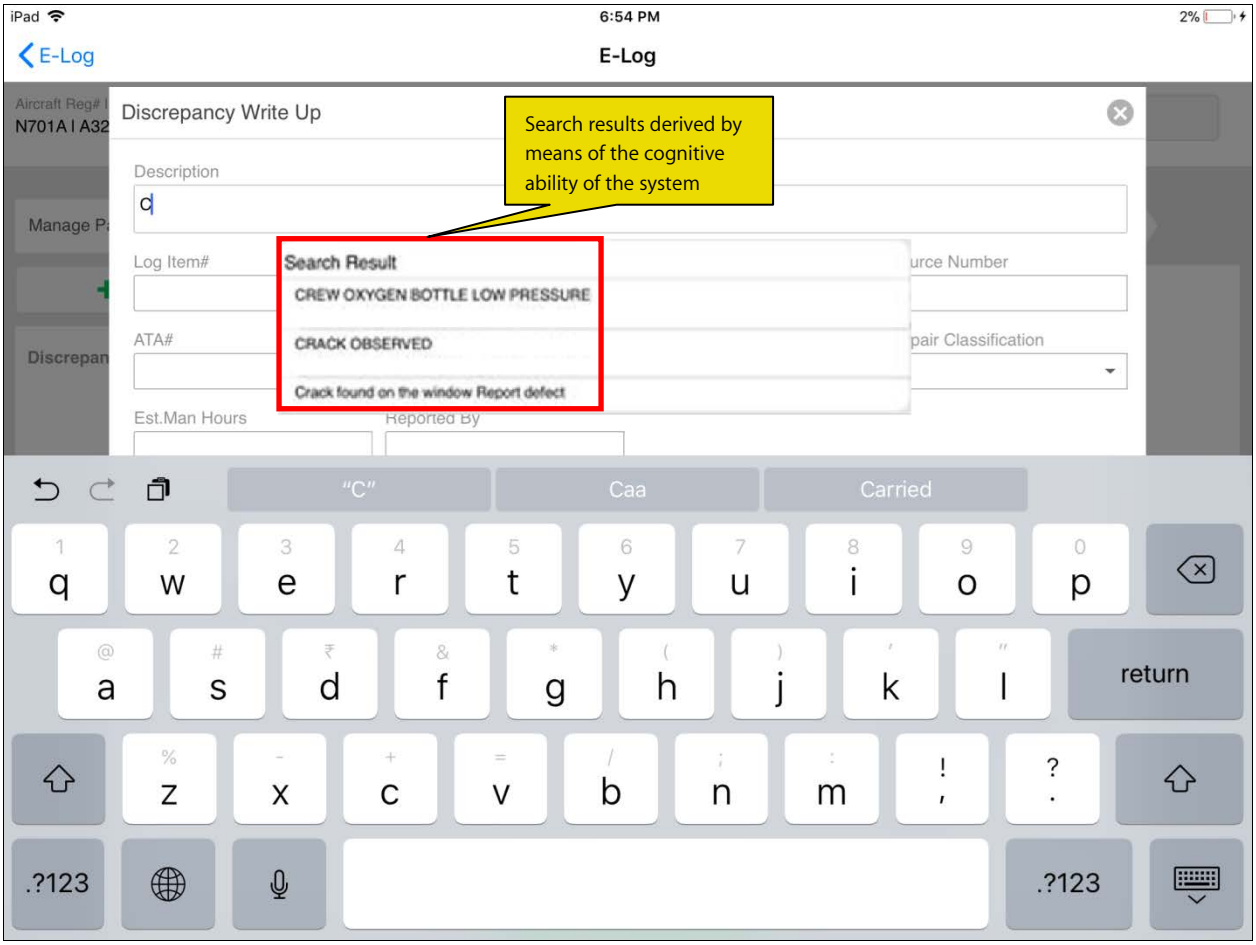


Exhibit 2: Search results in the **Discrepancy Write up** screen **in E-Log**



Note: This feature uses the capability of Artificial Intelligence/Machine Learning (AI/ML) for processing usage patterns and history data. Please contact your Ramco Account Manager for AI/ML installation and usage requirements

Ability to book Time at Corr. Action level in MechanicAnywhere

Reference: AHBG-25411

Background

In Aircraft Maintenance real time, discrepancies are resolved by means of a set of corrective actions. Hence, it is mandatory for mechanics / technicians to report time against each of the corrective actions for a discrepancy. A provision is required in **MechanicAnywhere** to record timesheet entries at the corrective action level for discrepancies.

Change Details

To enable the users to record timesheet either against corrective action level or discrepancy level, the following have been incorporated in the **Ramco Aviation** suite

- New process parameter 'Time Booking level for Discrepancies?' under the entity type Package Type and entity All User Defined values including Log Card but excluding "--All Packages--" has been added to provide users the option of time booking at the discrepancy level or the corrective action level.

Process Parameter: Time Booking level for Discrepancies?	
Value	**Impact on time booking level**
0 / Discrepancy Level	On stopping of clock for a discrepancy, the timesheet booking is saved against the discrepancy
1 / Corrective Action Level	On stopping of clock for a discrepancy, the timesheet booking is saved against the latest corrective action.

- New process parameter 'Auto Stop Clock on sign off of Discrepancies?' under the entity type Package Type and entity All User Defined values including Log Card but excluding "--All Packages—has been added in the Define Process Entities of Common Master to provide for automatic stopping of clock for discrepancy upon sign off.

Auto Stop Clock on sign off of Discrepancies?	
Value	**Impact on time booking level based on the previous process parameter**
0 / Not Required	Upon sign off, the system does not stop the clock for the • Discrepancy, if **'Time Booking level for Discrepancies?'** is 0 • Latest Corrective Action, if **'Time Booking level for Discrepancies?'** is 1
1 / Required	Upon sign off, the system stops the clock for the • Discrepancy, if **'Time Booking level for Discrepancies?'** is 0 • Latest Corrective Action, if **'Time Booking level for Discrepancies?'** is 1

Exhibit 1: The **Record Timesheet** page in **MechanicAnywhere:**

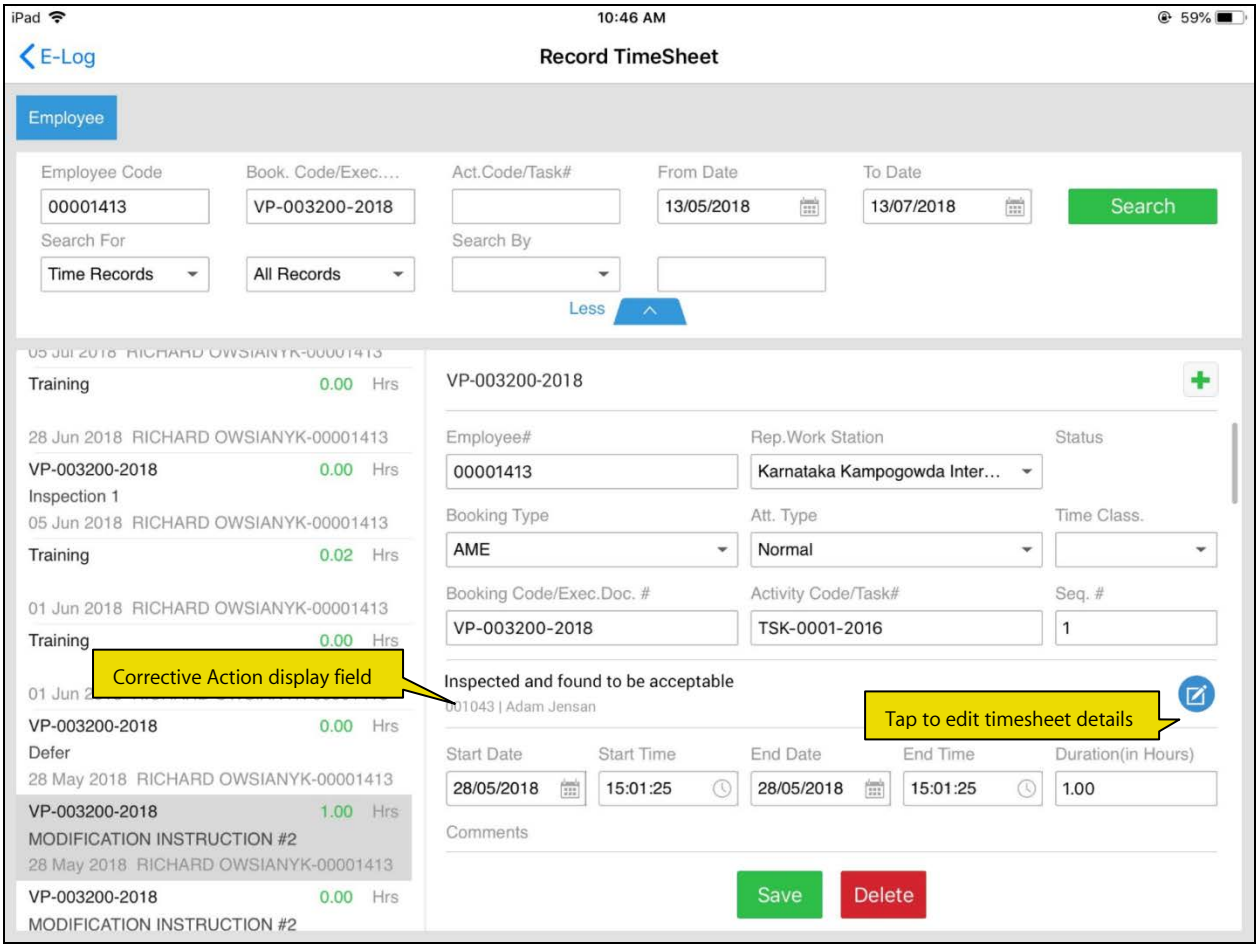


Exhibit 2: The **Record Timesheet** page in **MechanicAnywhere**

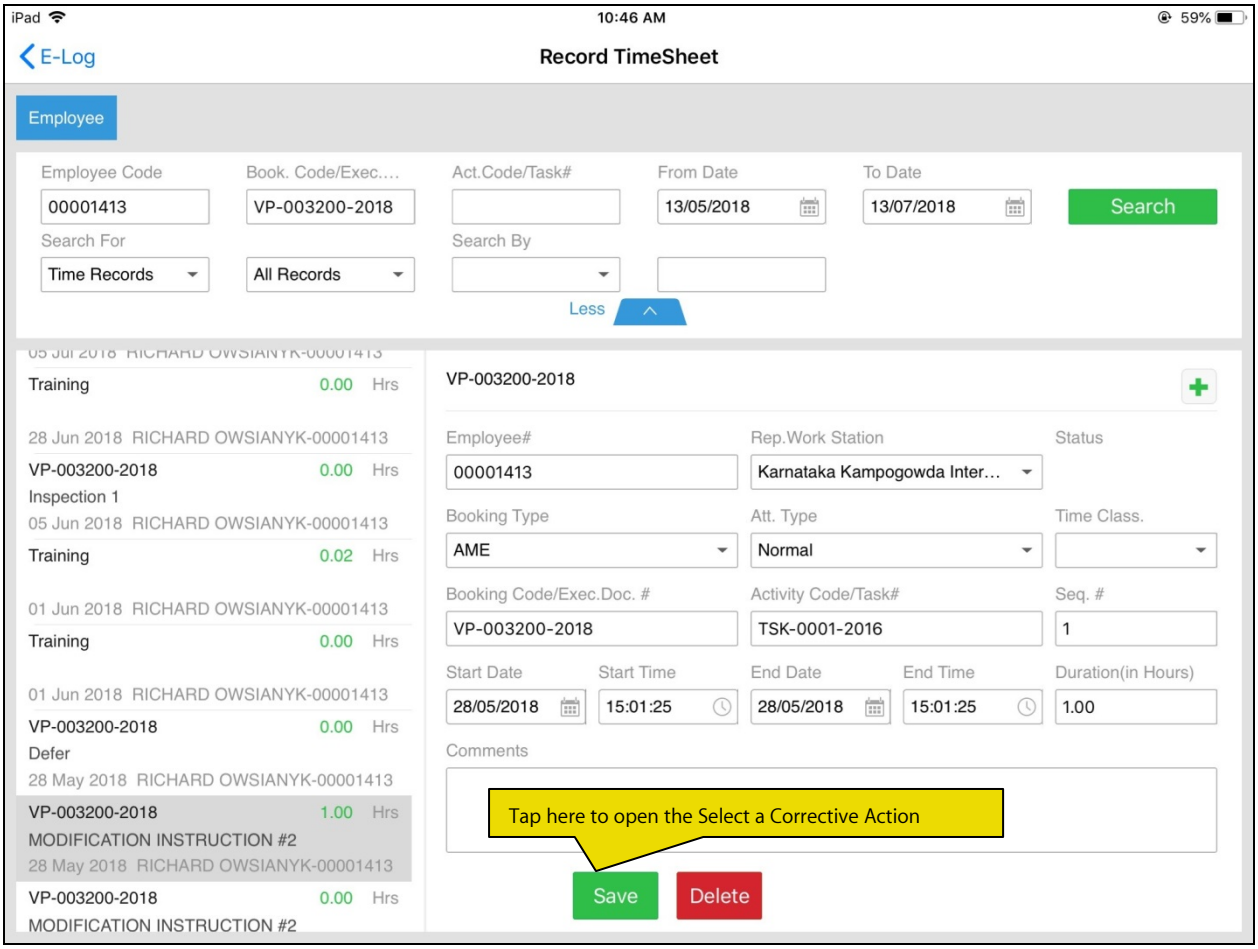


Exhibit 3: The **Select a Corrective Action popup** in the **Record Timesheet screen**

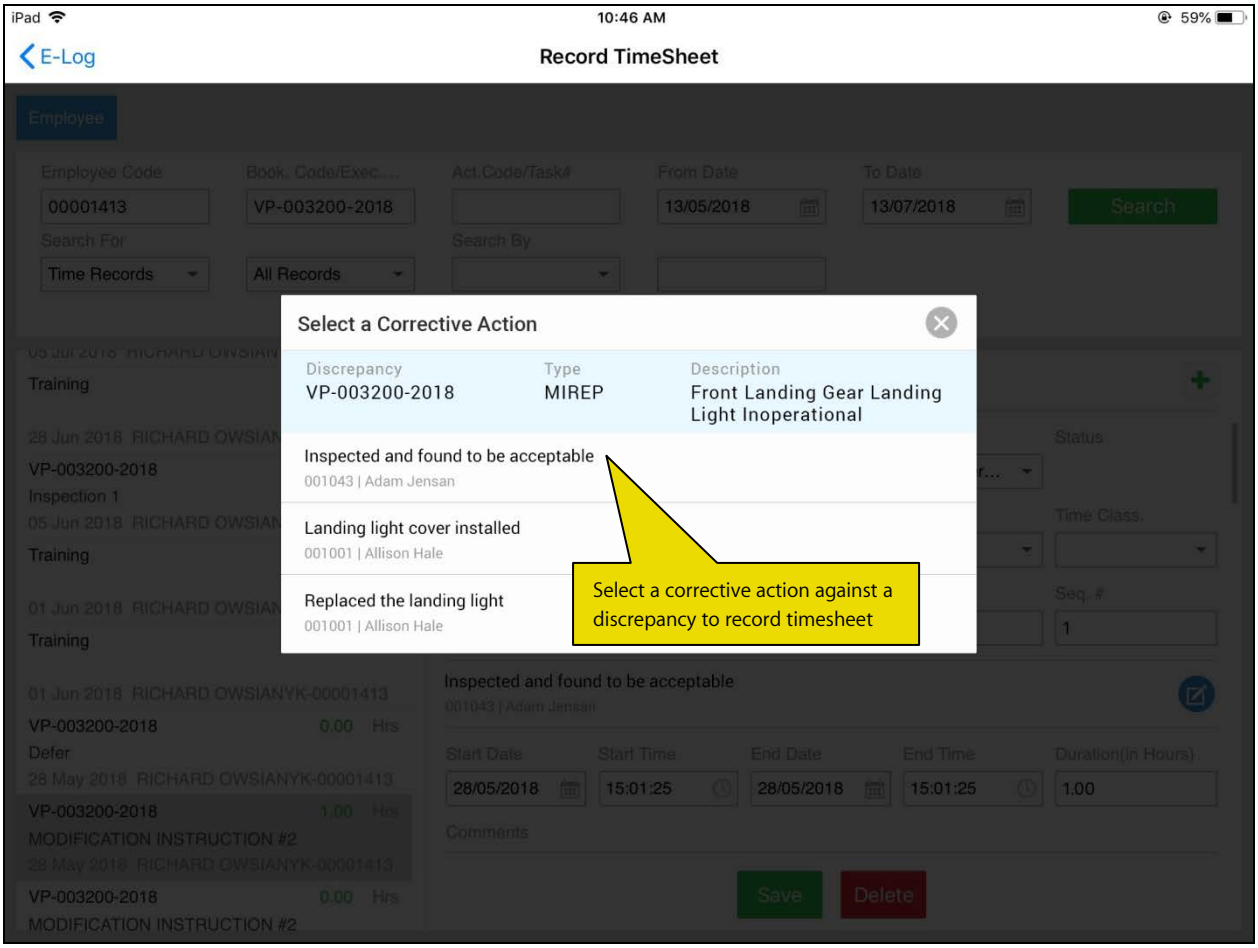
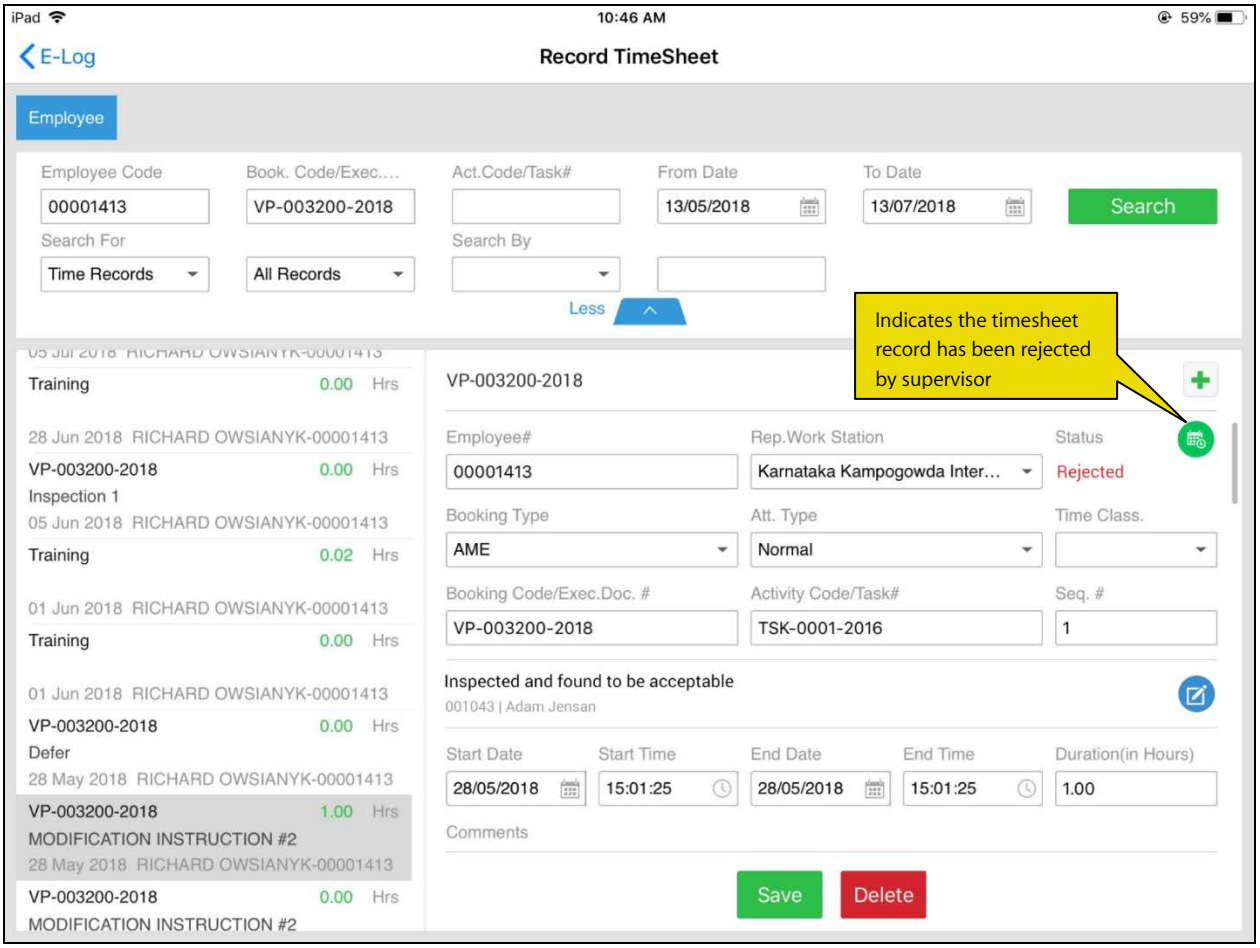


Exhibit 4: The **Rejected Timesheet record** in the **Record Timesheet** page



Ability to View & Edit Timesheet at the Corrective Action level in MechanicAnywhere

Reference: AHBG-25567

Background

In **MechanicAnywhere**, the mechanics/technicians must be able to view and modify time booking for corrective action before the supervisors can authorize the timesheet. Further, a provision is required to book time once again with reference to rejected timesheets by retaining details of the existing timesheet record while making new time sheet entry.

Change Details

The following improvements have been incorporated in **MechanicAnywhere** in order to facilitate recording/modifying/viewing timesheet entries against corrective action for discrepancies.

- Currently, whenever the users select a timesheet entry recorded against a corrective action from the left pane of the **Record Timesheet** screen, the right pane displays details of the timesheet entry. Now, new display-only fields **Corrective Action, Employee Code** and **Employee Name** will also be displayed in the right pane of the **Record Timesheet** screen as a part of the time booking details. In addition, new Edit icon has been added to enable users to modify and choose the time booking for the corrective action from the **Select a Corrective Action** popup

- Similarly, the users can select a rejected timesheet entry, and then click new Rebooking icon, to enter new time booking for the corrective action. This would enable users to rebook against the rejected timesheet by retaining all the contexts of the rejected timesheet entry.

- New option **Corrective Action** has been added to the **Search By** drop-down list box under **Search** to enable users to retrieve timesheet entries based on a specific corrective action.

- New option **Rejected Records** has been added to the **Search For** drop-down list box under **Search** to enable users to retrieve rejected timesheet entries (timesheet entries with status as “Rejected”).

- For an existing timesheet entry against a corrective action, if Start Date/ Start Time/ End Date/ End Time is changed, , the system automatically changes the time booking mode from 'Clock Mode' to 'Manual Mode'.

- For discrepancies with multiple corrective actions, when a user attempts to book timesheet, the **Select a Corrective Action** popup appears, if the "Time Booking level for Discrepancies?" is set as '1' for 'Corrective Action Level' in Define Process Entities under Entity Type: Package Type and Entity: User-Defined Package Type. The popup lists the number, type and description of the discrepancy and the existing corrective actions against the discrepancy. The users can select the corrective action and then record / modify time booking.

Exhibit 1: The **Record Timesheet** page in **MechanicAnywhere**

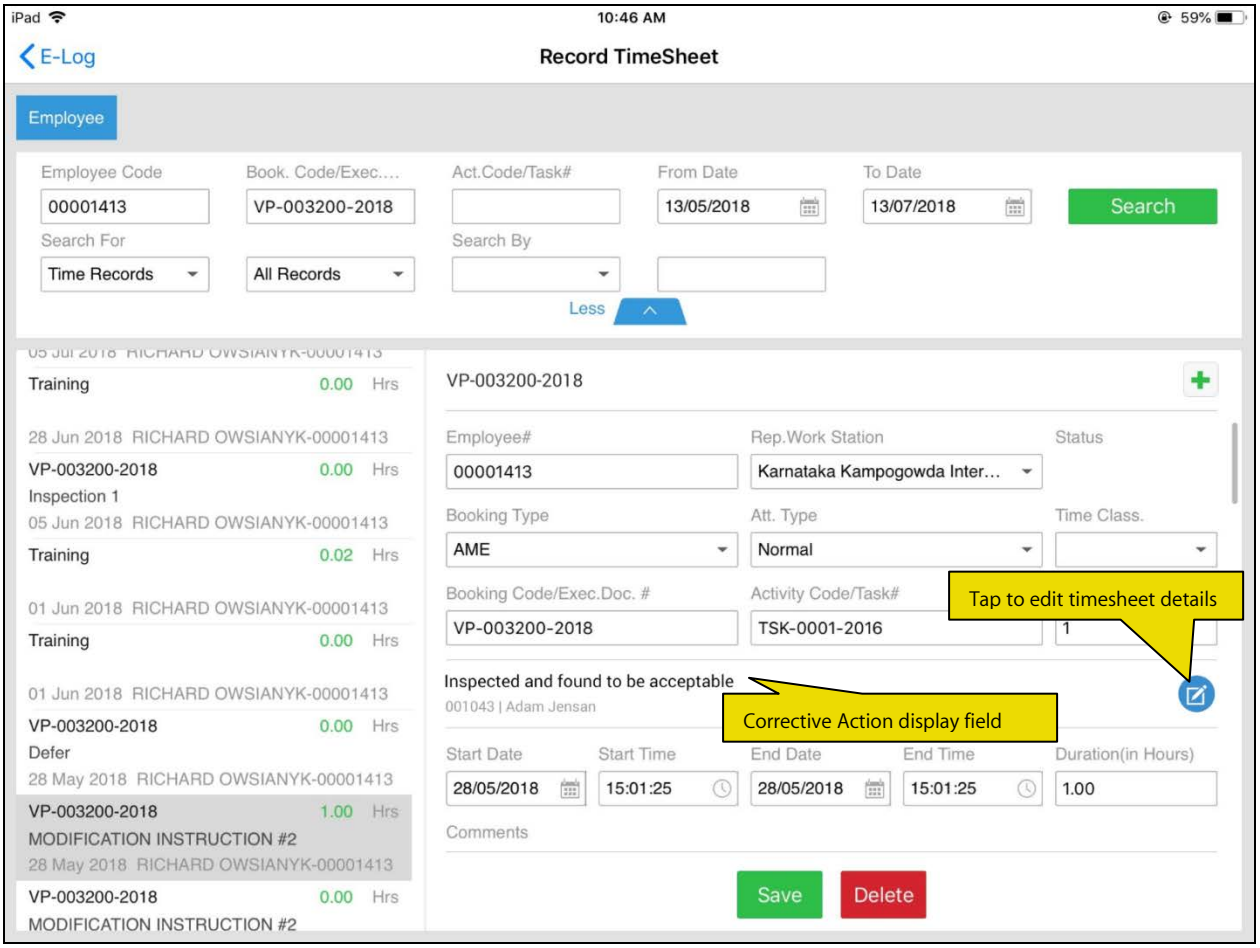


Exhibit 2: The **Record Timesheet** page in **MechanicAnywhere**

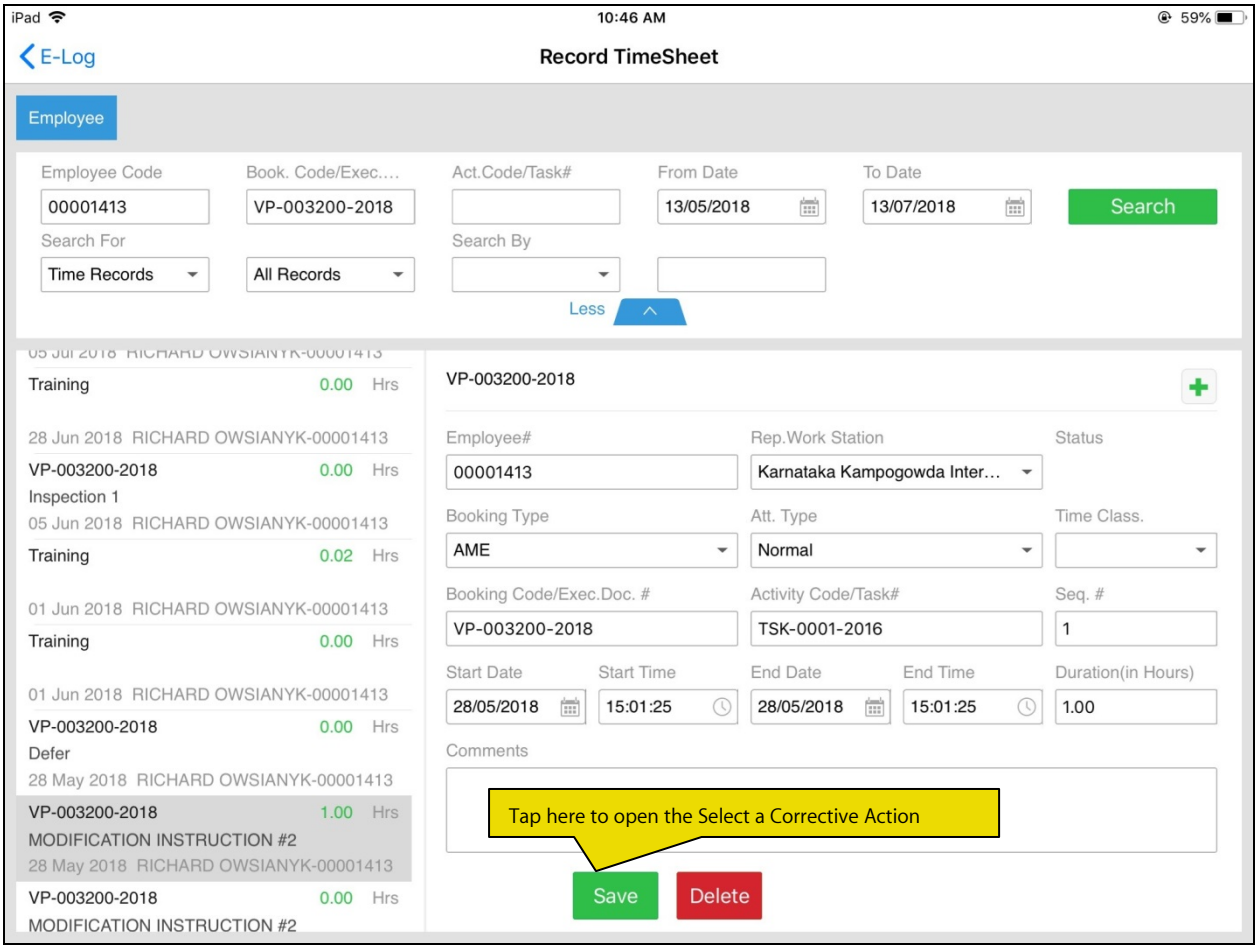


Exhibit 3: The **Select a Corrective Action popup** in the **Record Timesheet screen**

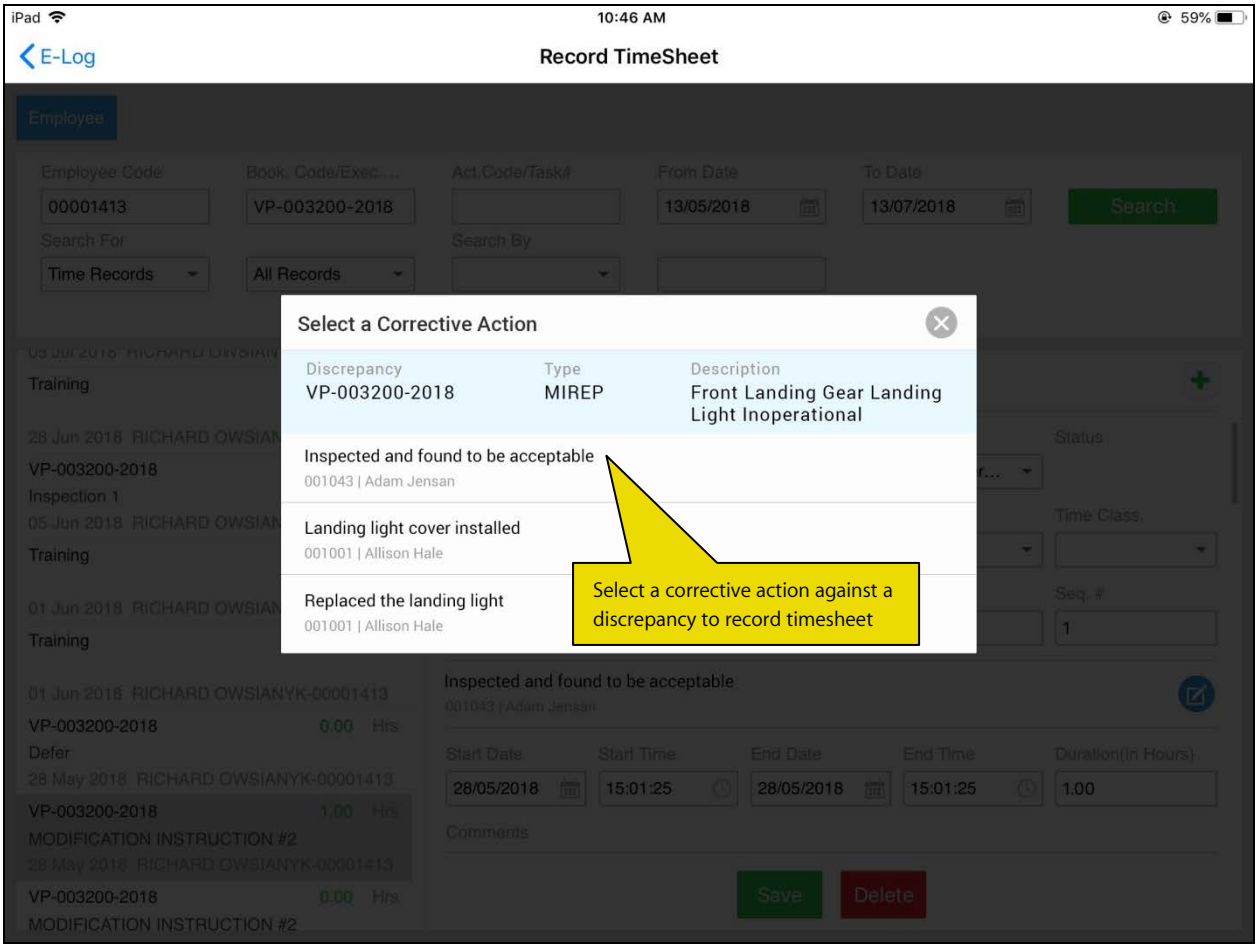
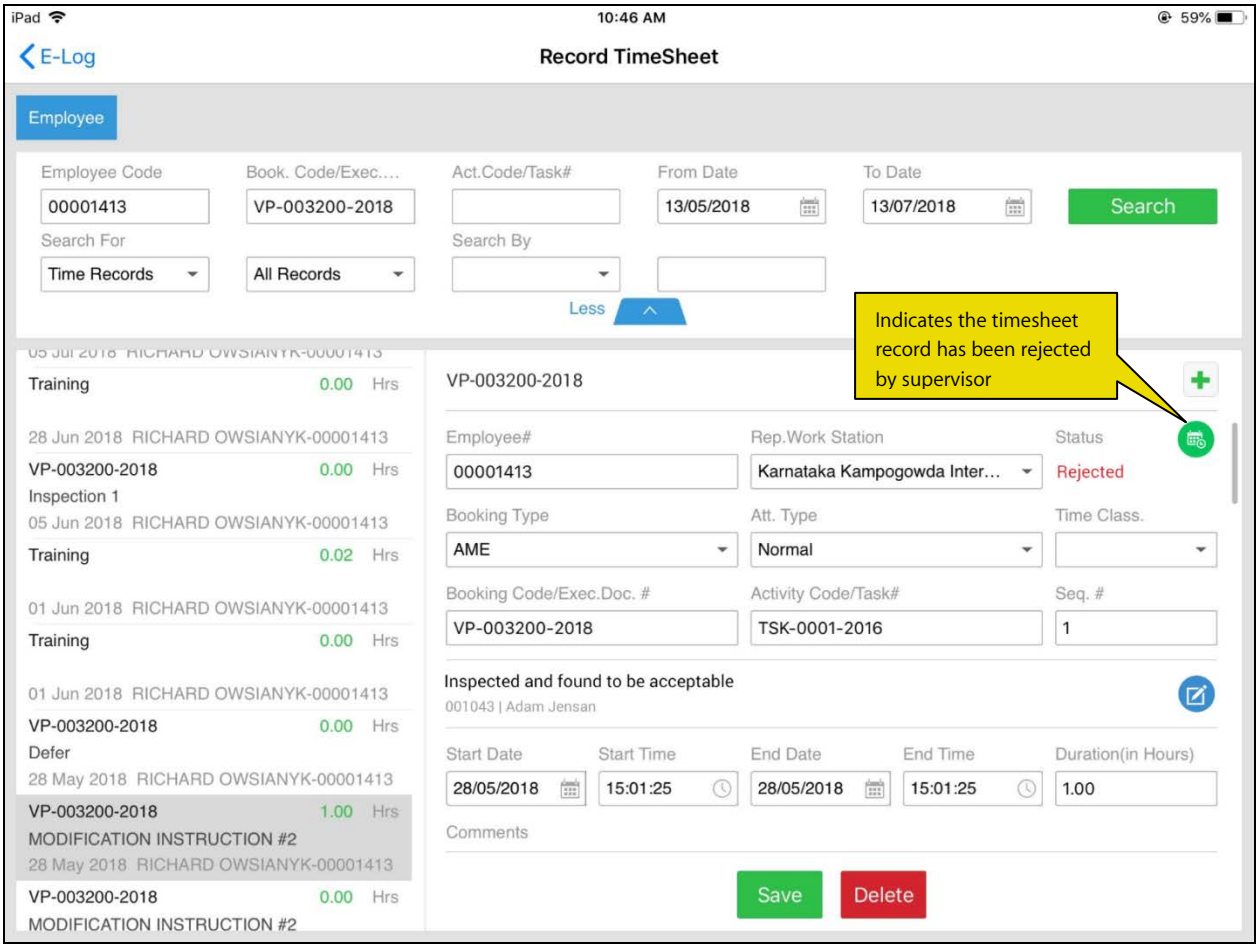


Exhibit 4: The **Rejected Timesheet record** in the **Record Timesheet** page



Ability to Identify and Book Time against a Travel Task

Reference: AHBG-25350

Background

Typically, aircraft maintenance engineers are required to travel from the location of stay/ office to the location of work center/ station/ hangar to perform maintenance on aircraft/ component. The time taken to reach the maintenance destination in certain circumstances is considerable and needs to be tracked against the package that the maintenance engineer will execute at the destination. Hence, a feature is required wherein such travel time is identified as a travel task and timesheet is booked against the travel task.

Change Details

As the mechanics travel from one location to another to execute maintenance on aircraft / components, the details of the travel including start and end dates and times, start and end locations will be captured as part of the travel task. The start and end travel dates and times will facilitate the time booking for the travel tasks.
Under the **Tasks** section of the **Maintenance Events & Tasks** tab of **E-Log** screen, the following changes have been incorporated in order to facilitate mechanics / technicians to record timesheet against travel tasks:

- On selection of a task in the left pane of the Task section, the right pane displays task details. Now, new  (**Start Clock with Location)** icon appears which enables the user to start the clock for travel tasks. On tap of the icon, the **Start Clock at Location** popup appears that captures the following details:
- **Start** Location and **Comments**. The start date & time of the travel task will be defaulted to the current date & time in the time zone of the station / work center in which the package is scheduled for execution. The **Start Location** field is enabled with **Smart Search**.
- For travel tasks with ongoing clock, new  (**Stop Clock with Location**) icon appears. On tap of the icon, the **Stop Clock at Location** popup appears with the following input fields:
    - **Start Date & Time**: By default, displays the start date and time of the travel at the time of starting clock
    - **Start Location**: By default, displays start location as entered by the user during starting the clock. This field is enabled with **Smart Search**.
    - **End Date & Time**: Captures the end date & time of the travel. By default, the end date and time will be the current date and time in the time zone of the station / work center in which the package is currently under execution.
    - **End Location**: By default, displays the end location as entered by the user during stopping clock. This field is enabled with **Smart Search**.
    - **Comments**: By default, displays comments, if recorded at the time of starting clock
- New process parameter 'Task Type for Travel Task' under the entity type Package Type and the entity Task has been added in the **Define Process Entities** activity of **Common Master** to identify and categorize travel tasks.

Task Type for Travel Task	Value	Impact on the Task Type field in the Task section of Maintenance Events & Task tab of E-Log
	Valid Task Type	The task type for the travel task will be defaulted to the

Task Type for Travel Task	Value	Impact on the Task Type field in the Task section of Maintenance Events & Task tab of E-Log
	defined under Quick Code Type - Task Type in the Create Quick Codes activity of Maintenance Task	selected task type.

- New process parameter 'Mandate Timesheet Comments during Stop Clock/Time Booking for Travel Tasks?' under the entity type Package Type and entity All User Defined values including Log Card but excluding "--All Packages--" has been added to mandate the entry of timesheet comments at the time of stopping of clock for travel tasks.

Mandate Timesheet Comments during Stop Clock/Time Booking for Travel Tasks?	
Value	Impact on the Comments field in the Stop Clock at Location popup
0 /No	The users may or may not enter comments for the travel task.
1 / Yes	The users must provide comments for the travel task.

- New process parameter 'Allow only valid Locations for Travel Tasks as defined in the Maintenance Task Quick Codes?' under the entity type Package Type and entity All User Defined values including Log Card but excluding "--All Packages--" has been added to allow only pre-defined locations for travel tasks.

Allow only valid Locations for Travel Tasks as defined in the Maintenance Task Quick Codes?	
Value	**Impact on the Location field in the Start Clock at Location / Stop Clock at Location popups**
0 /No	The users may specify any location not necessarily defined in the **Create Quick Codes** activity of **Maintenance Task**
1 / Yes	The users must specify an active and valid location defined under the quick code type – Travel Location in the **Create Quick Codes** activity of **Maintenance Task**

Exhibit 1: The **Task** section of the **Maintenance Events & Task** tab of **E-Log**

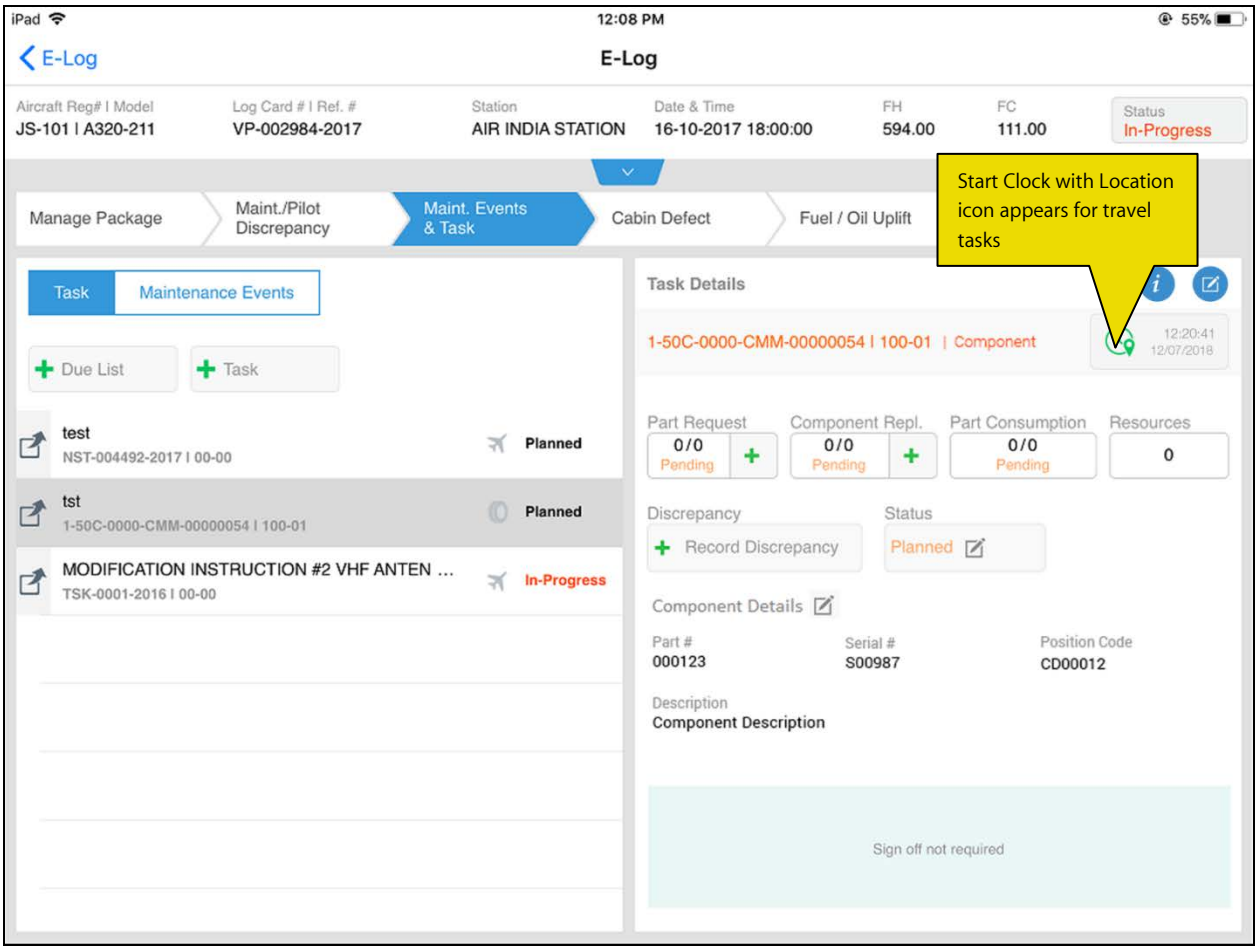


Exhibit 2: The **Start Clock at Location** popup in the **Task** section under the **Maintenance Events & Task** tab

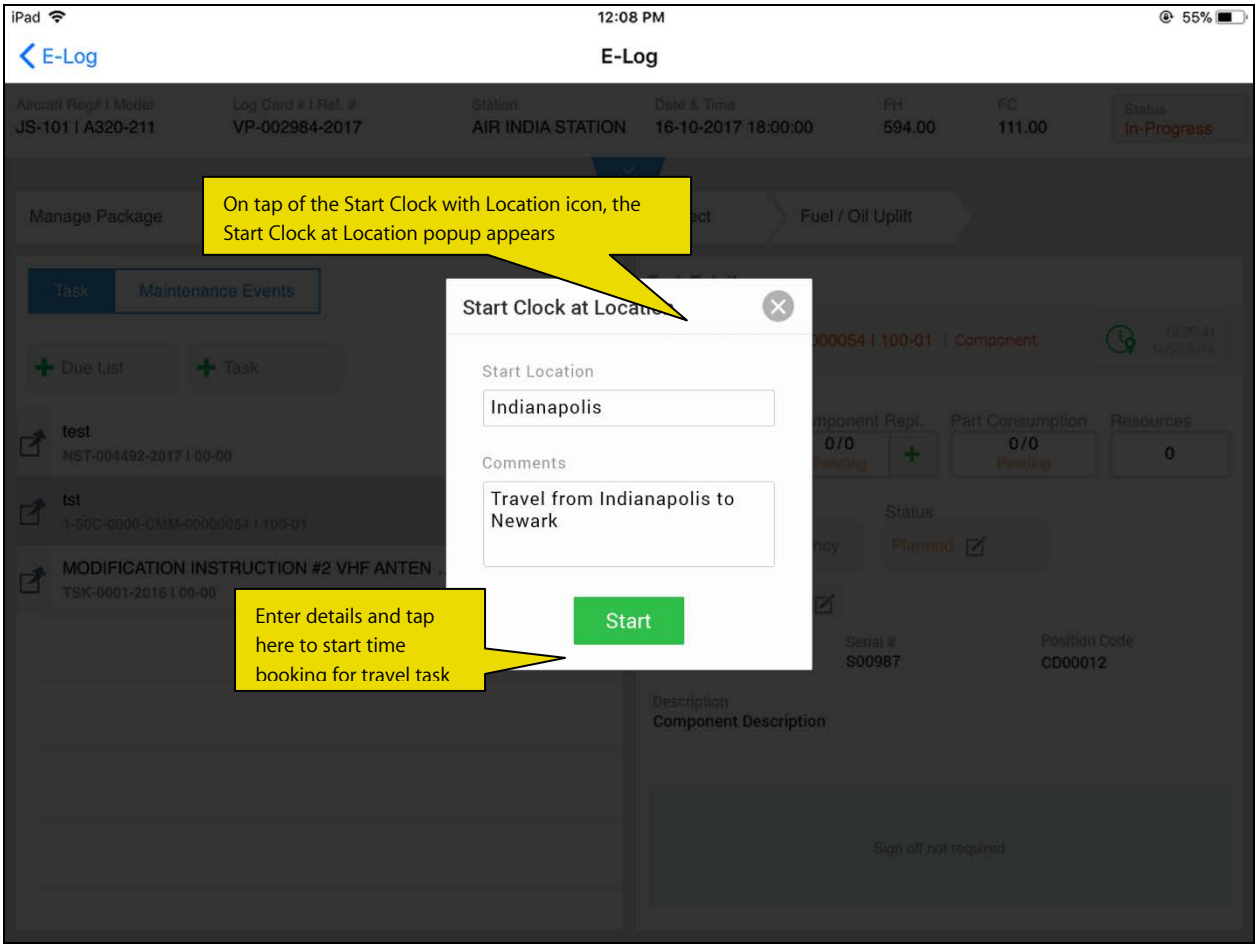


Exhibit 3: The **Task** section of the **Maintenance Events & Task** tab of **E-Log**

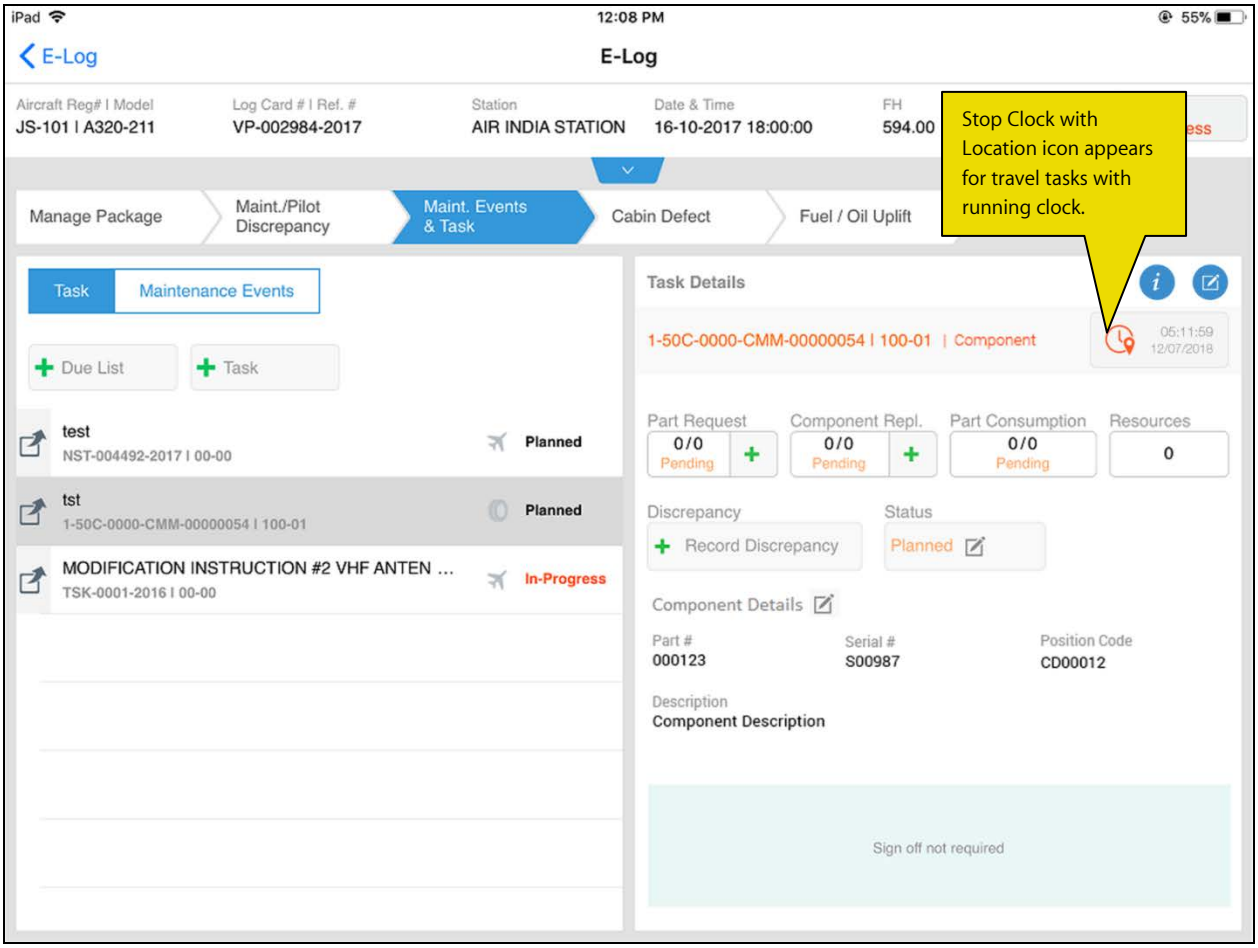
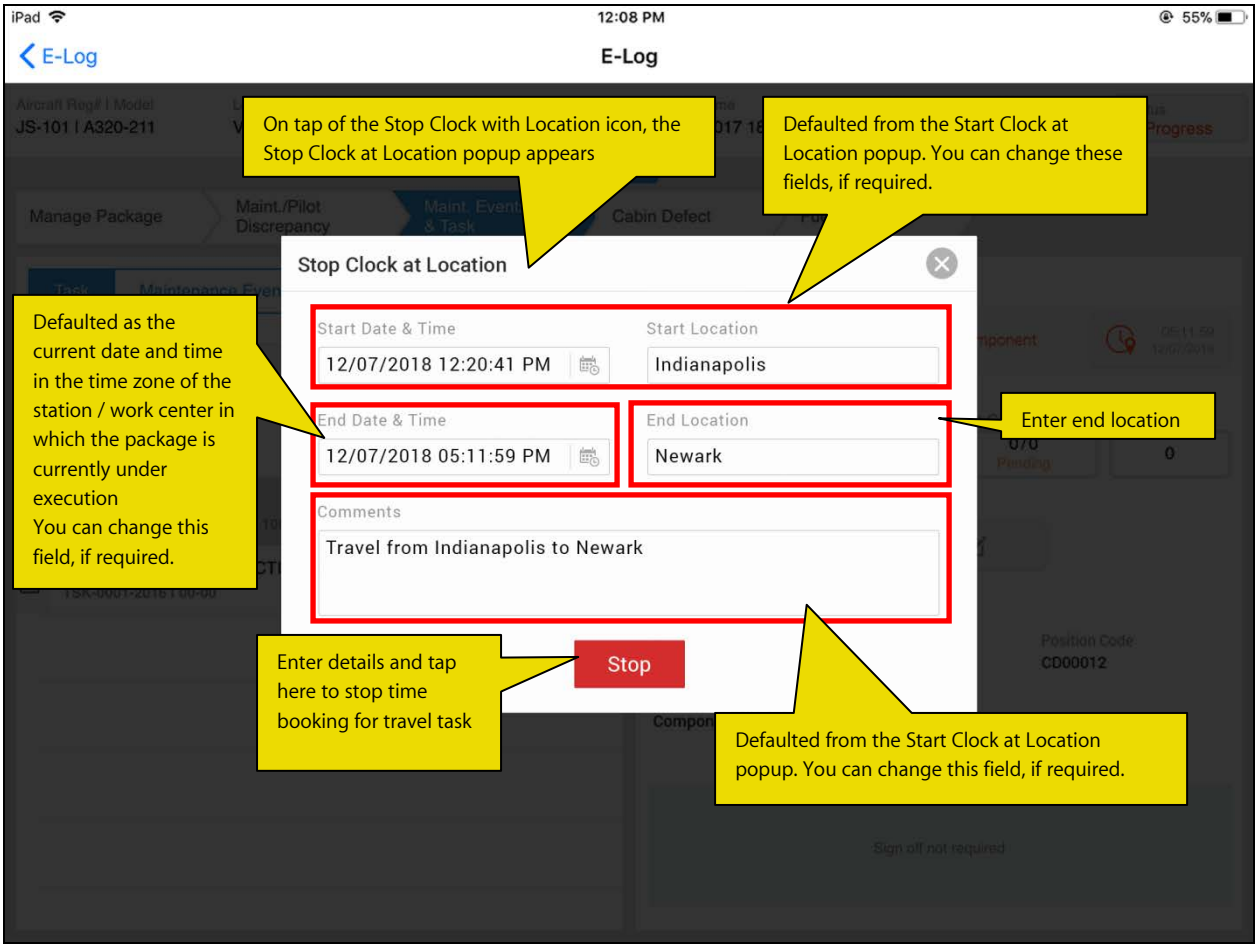


Exhibit 4: The **Stop Clock at Location** popup in the **Task** section under the **Maintenance Events & Task** tab



Ability to View & Edit Timesheet for Travel Tasks in MechanicAnywhere

Reference: AHBG-25378

Background

Aircraft mechanics/ technicians book timesheets against travel tasks. These timesheets may need modification/ correction later in time before the supervisors authorize them. Hence, a provision o view/ modify timesheet records for travel tasks must be incorporated into the system. (Travel tasks are necessarily the travel that the mechanics undertake to reach the site at which the maintenance is executed on aircraft and component.)

Change Details

To enable the users to view/ modify timesheet records against travel tasks, the following changes have been incorporated in the **Record Timesheet** screen of **MechanicAnywhere**.

Viewing/ modifying timesheet

- On selection of a timesheet booked for a travel task from the left pane of the **Record Timesheet** screen, the timesheet details are displayed in the right pane. Now, the right pane will show two new additional fields **Start Location** and **End Location** fields, if the task is a travel task. The Start Location field captures the location from which the mechanic commenced the travel to reach the site of maintenance execution. While the End Location field will capture the location where the travel ends for time booking.
- The users can modify Start Date, Start Time, End Date and End Time, Start Location, End Location and Comments for an existing timesheet against a travel task. Then tap the **Save** button.
- The system automatically changes the mode from 'Clock Mode' to 'Manual Mode' on changing Start Date/ Start Time/ End Date/ End Time/ Start Location/ End Location/ Comments for an existing timesheet against a travel task.
- On save of the timesheet record, the system stops the clock for the travel task, if the clock is running for it.

Recording new timesheet:

- To record new timesheet for a travel task, the users can straightaway tap the **Save** button after entering the mandatory details to open the **Location Travel Task** popup. The users can specify the start and end locations for the travel task.

Process parameter validations for Start and End locations:

- If the process parameter 'Allow only valid Locations for Travel Tasks as defined in the Maintenance Task Quick Codes?' under the entity type Package Type and entity All User Defined values including Log Card but excluding "--All Packages--" is set as 1 / Yes, the start and end locations that the user s specify must be active and valid as defined in the **Create Quick Codes** activity of **Maintenance Task** under the quick code type Travel Location. The Location fields will also be enabled with Smart Search facility that will display travel locations defined in the **Create Quick Codes** activity that are similar to the text input by the users.

Exhibit 1: The Record Timesheet screen of E-Log

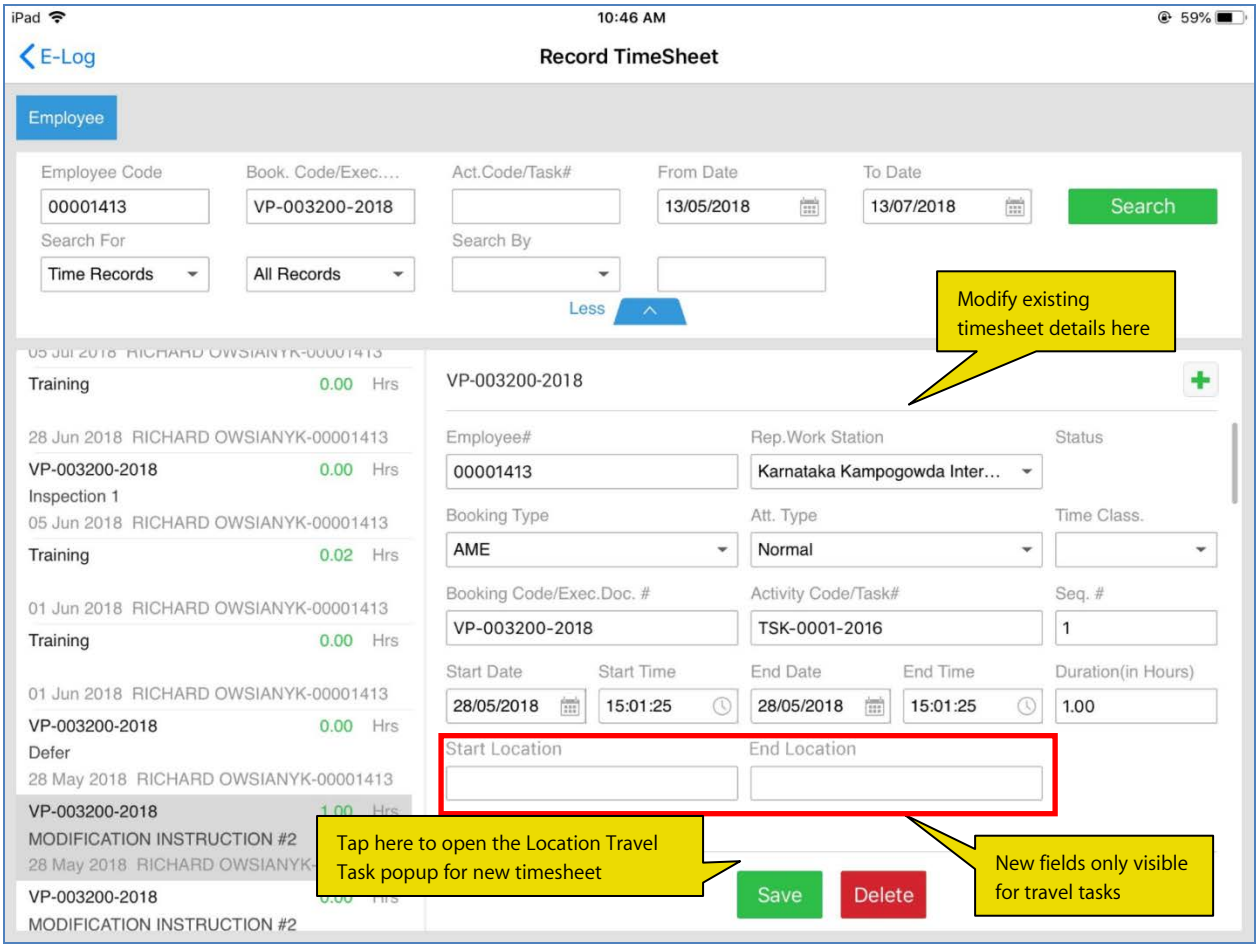
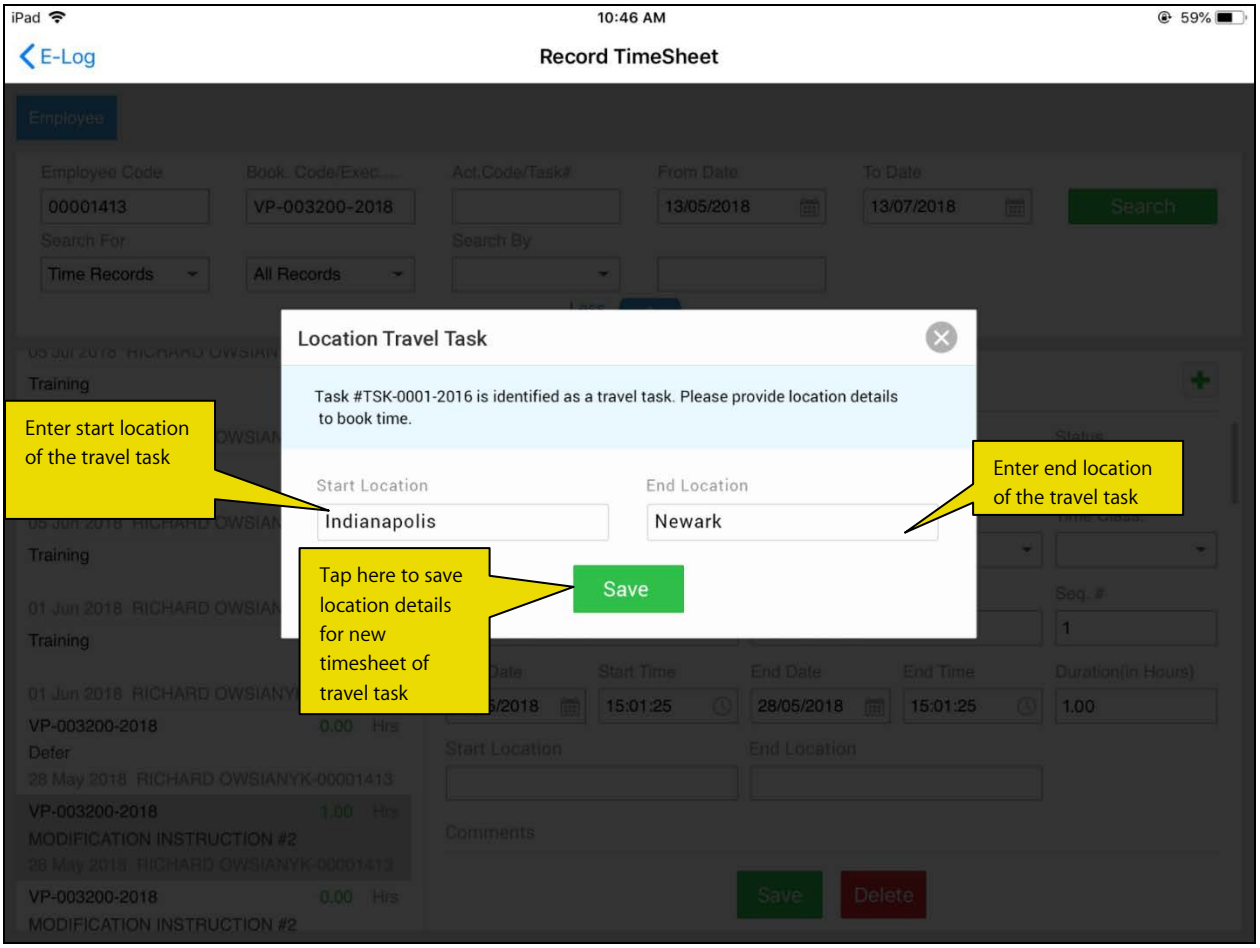


Exhibit 2: The **Location Travel Task** popup in the **Record Timesheet** screen of **E-Log**



Ability to Void Sign Off from MechanicAnywhere

Reference: AHBG-28318

Background

During aircraft maintenance execution, the mechanics may identify certain tasks /discrepancies that can be completed without sign off. The sign off for such tasks is cancelled by signing off as **Void** and then completed. A provision is required in **MechanicAnywhere** to sign off the tasks that can be completed without sign off as **Void**.

Change Details

In order to facilitate the task sign off as **Void**, the following changes have been incorporated in the **E-Sign Off** popup of the **e-Log**, **Task Card Details** & **Discrepancy Card Details** screens of **MechanicAnywhere**:

- On tap of the pending Mechanic / Inspector Sign Off requirement for the task /sub task/discrepancy, the **E-Sign Off** popup that appears will now show the new button - **Void** in addition to the **Sign Off** button.
- The users can provide the valid / necessary details for the in the **E-Sign Off** popup and then tap on the **Void** button
- Upon voiding the task/ discrepancy, the **Void** seal will be stamped against the mechanic/ inspector and Sign Off Status becomes **Signed Off (Voided)** if all the sign off requirements for that task/ discrepancy are voided
- A provision for **Dual Authentication** against voiding the task sign off has been introduced for which the following transaction has been added in the **Configure Dual Authentication** screen of **Smart Card Interface** as given below
    - **Application Group: Mobility**
    - **Entity: MechanicAnywhere**
    - **Action: Void**

However, if Dual Authentication has been enabled for the task sign off **Void** action, the users must provide Password and / or PIN in the **E-Sign Off** popup. Based on the authentication type (Login Password, PIN or Login password & PIN) defined for the Void action in the **Configure Dual Authentication** screen, the users are required to enter credentials prior to the voiding of sign off. The system will allow voiding of the sign off only on successful validation of password / PIN.

Exhibit 1: The **Maint. Events & Tasks** screen in **E-Log**

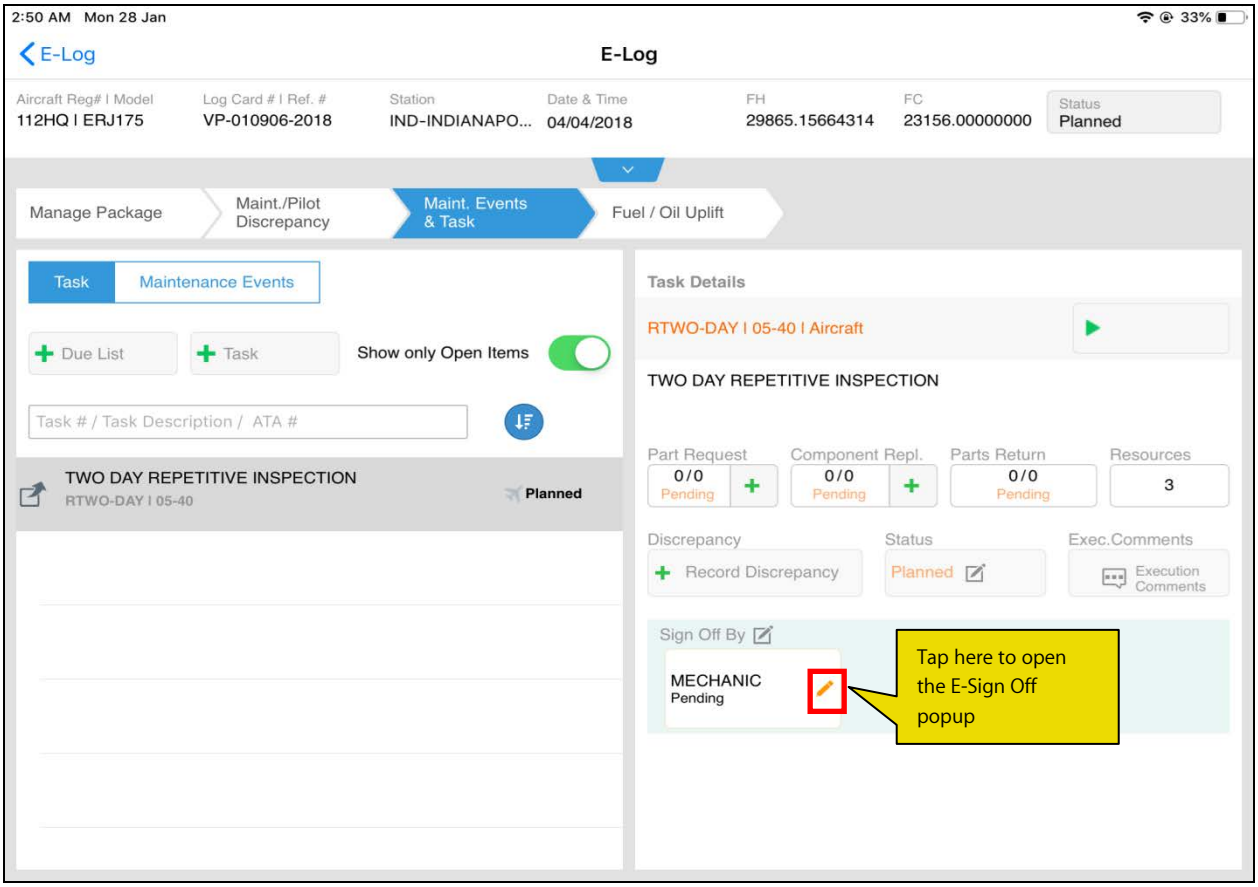


Exhibit 2: The **E-Sign Off** popup in the **Maint. Events & Tasks** screen

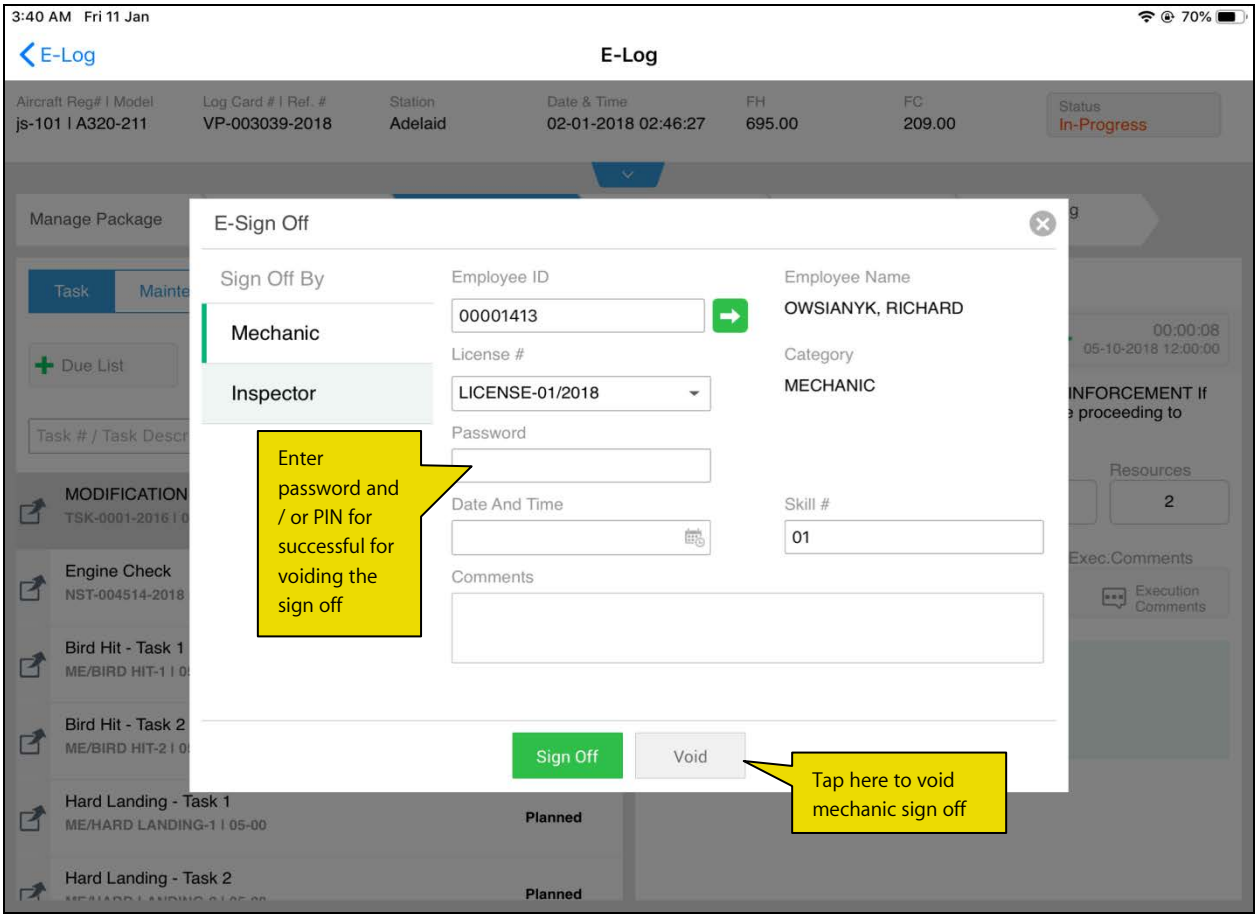
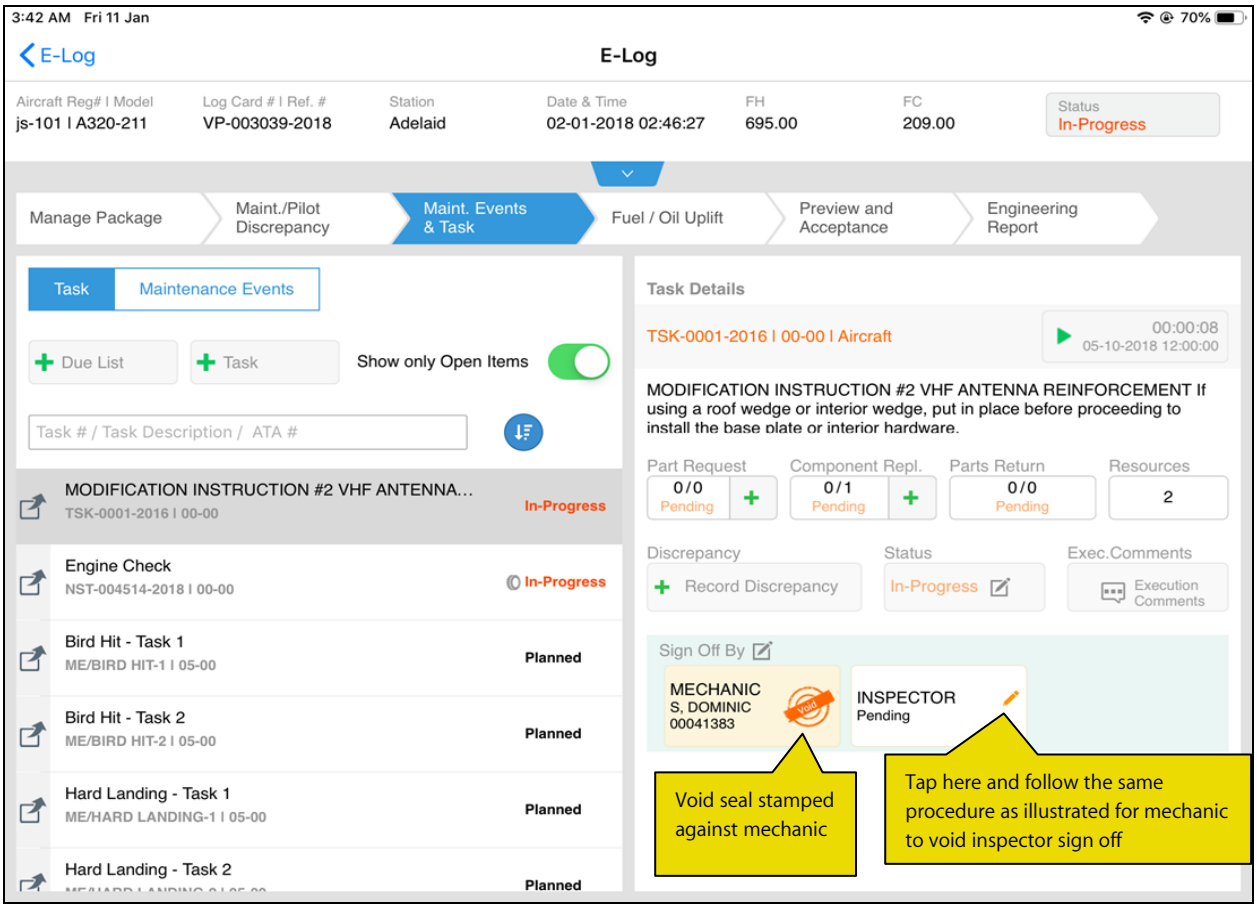


Exhibit 3: The **Maint. Events & Tasks** screen in **E-Log** post void sign off



Ability to reverse the Sign Off from MechanicAnywhere

Reference: AHBG-28316

Background

Ramco Aviation allows reversal of mechanic sign off of tasks by a higher authority like Inspector or Lead Mechanic owing to error or other operational reasons. The sign off reversal involves deleting the employee code of the mechanic from the sign off details of the task/discrepancy in Aircraft Maintenance Execution Details.. The sign off status of the task reverts to Pending upon reversal. However, such sign off reversal feature is currently not supported in MechanicAnywhere and hence must be built in **MechanicAnywhere**.

Change Details

In order to facilitate task sign off reversal in **MechanicAnywhere**, the following developments have been incorporated in the mobile application:

- The users can access the **E-Sign Off** popup for already signed off tasks by tapping on the **Sign Off** seal.
- New button **Reverse** has been added in the **E-Sign Off** popup. This button will be available only if the mechanic / inspector has already signed off the tasks to facilitate reversal
- The **Sign off** popup appears with the details of the most recent sign off. The users can tap on the **Reverse** button to reverse a sign off
- The sign off status of the task/discrepancy upon reversal becomes **Pending**.
- The following configurable option has been added in the **Configure Dual Authentication** screen of **Smart Card Interface** that provides for **Dual Authentication** against the task/discrepancy sign off reversal action:
    - **Application Group: Mobility**
    - **Entity: MechanicAnywhere**
    - **Action: Reverse**
- Based on the authentication type (Login Password, PIN or Login password & PIN) defined for the Reversal action in the **Configure Dual Authentication** screen, the users are required to enter credentials prior to the reversal. The system will allow reversal only on successful validation of password / PIN.

Exhibit 1: The **Maint. Events & Tasks** screen in **E-Log**

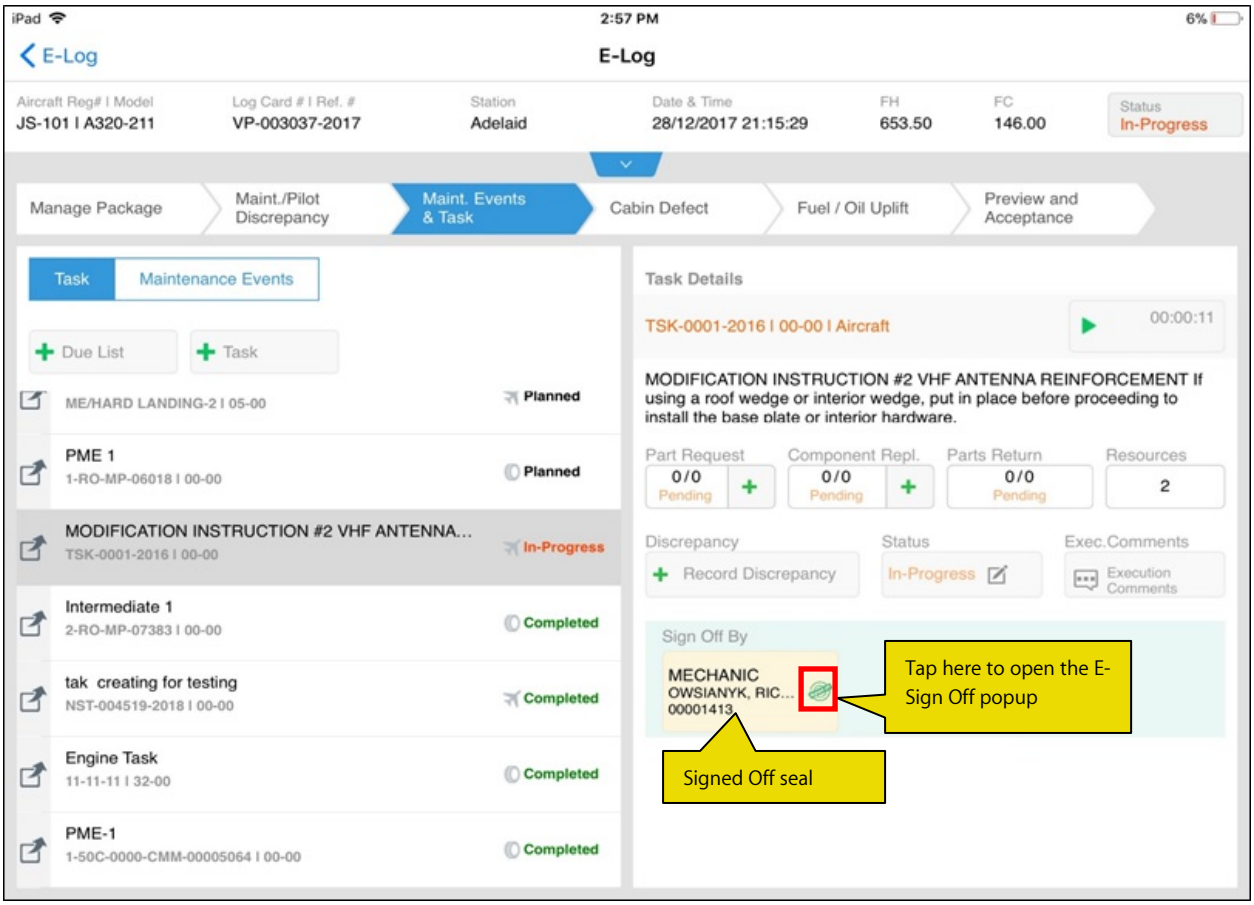
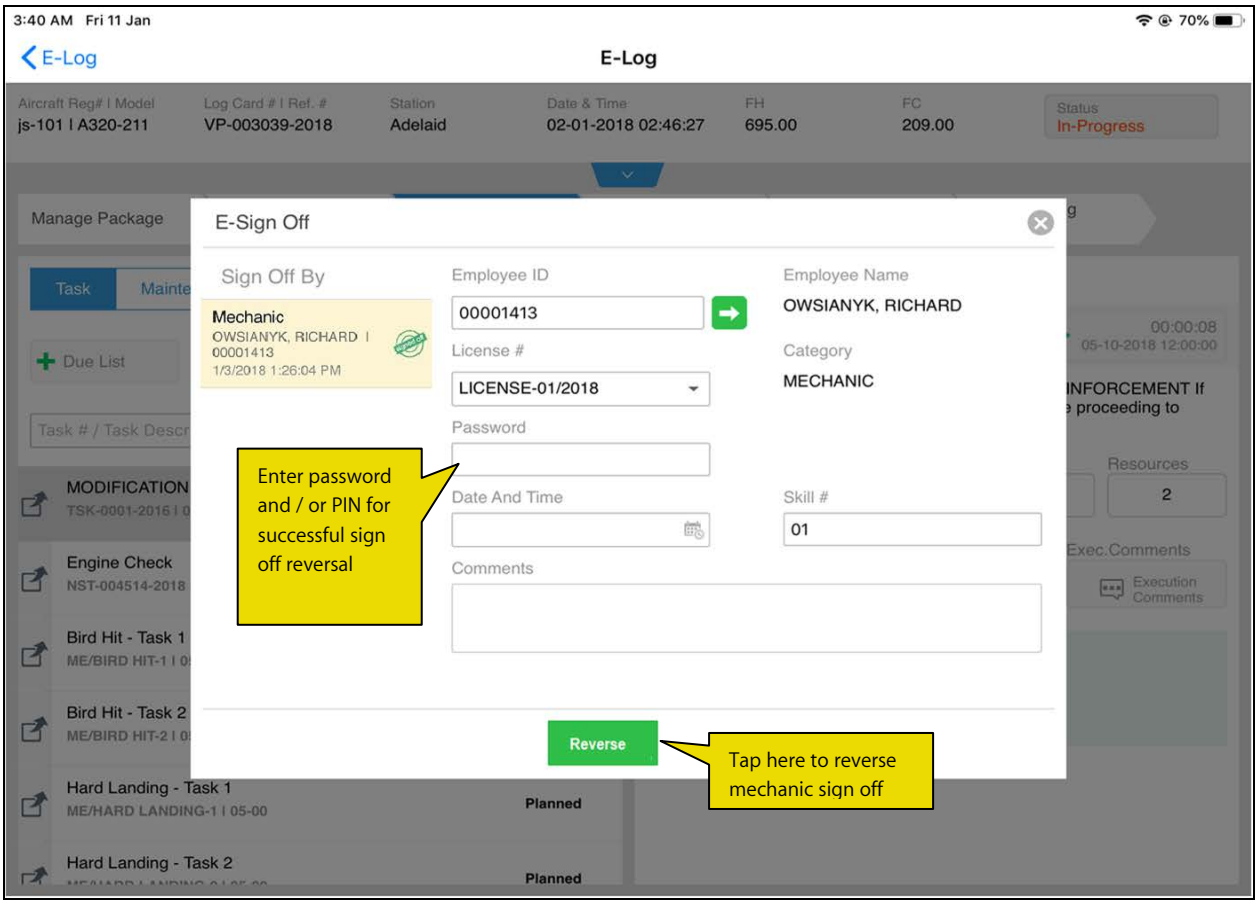


Exhibit 2: The **E-Sign Off** popup in the **Maint. Events & Tasks** screen



Ability to create MR for new part in MechanicAnywhere

Reference: AHBG-25021

Background

In the **Ramco Aviation** suite, the users can create material requests for new parts, meaning parts that are not defined in the system. The system automatically initiates the creation of a new part record and then facilitates the addition of the new part to the material request. However, currently, this is not possible in the **MechanicAnywhere** mobile application. Hence, a provision to allow the users to create material requests for new parts must be incorporated in the system.

Change Details

In order to facilitate creation of material requests for new parts in **MechanicAnywhere**, the following changes have been included in the mobile application:

- If the part is new and not yet defined in the system, the user is given an opportunity to create the new the part and then add the new part to the material request. The users can enter new part details and then create and add the new part on tap of the button **Create Part & Add** in the **Create Material Requests** screen**.** The new part that is added to the request is automatically displayed in the right pane.
- New process parameter 'Mandate Source document information for New Part requests?' has been added under the entity type Package Type and the entity All User Defined values including Log Card but excluding "--All Packages--" in the activity **Define Process Entities** activity of **Common Master** to mandate the entry of the source document # for the creation of the new part.

Process Parameter: Mandate Source document information for New Part requests?	
Value	**Impact on the Source Document # field in the Direct Entry section of Add New Parts**
0 / No	The user may not enter the source document # as the field is not mandatory
1 / Yes	The user must provide the source document # as the field is mandatory

Exhibit 1: The Create Material Request tab of E-Log

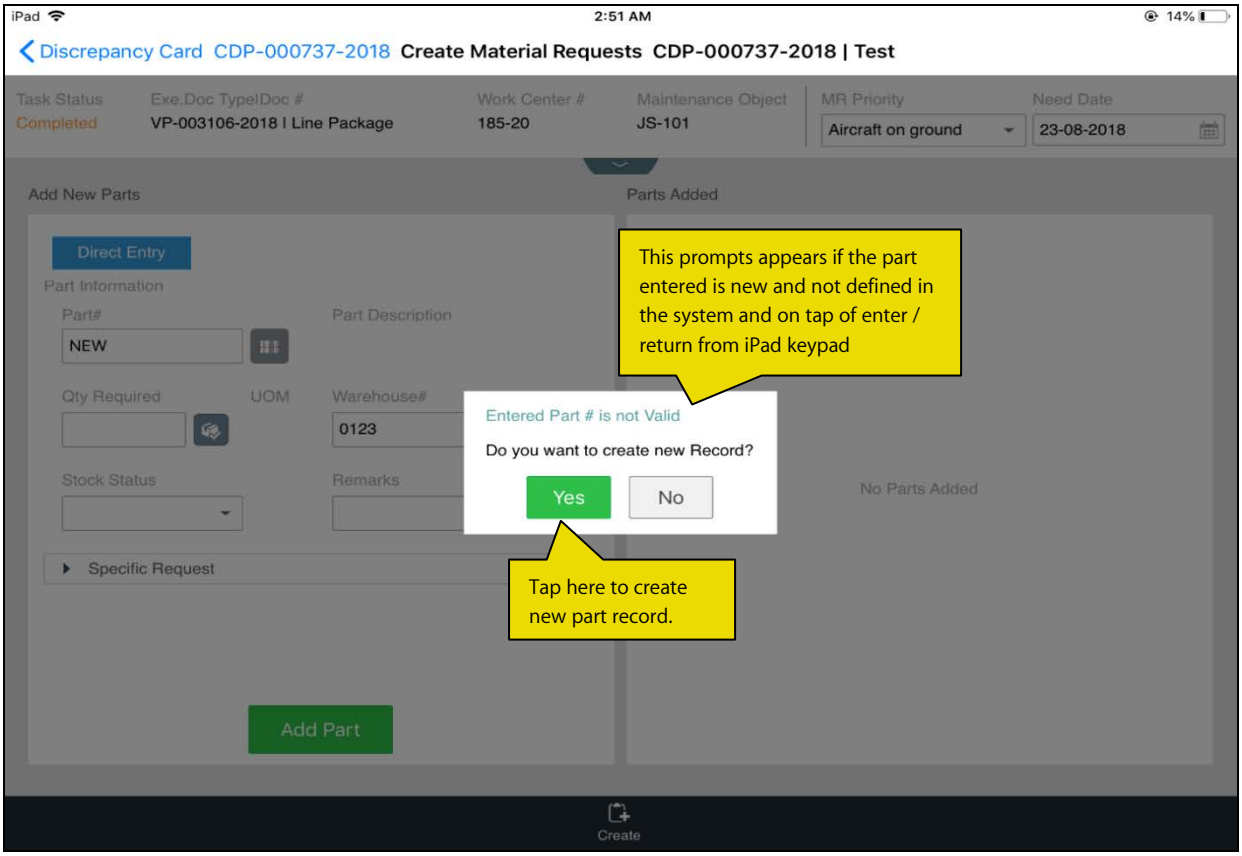
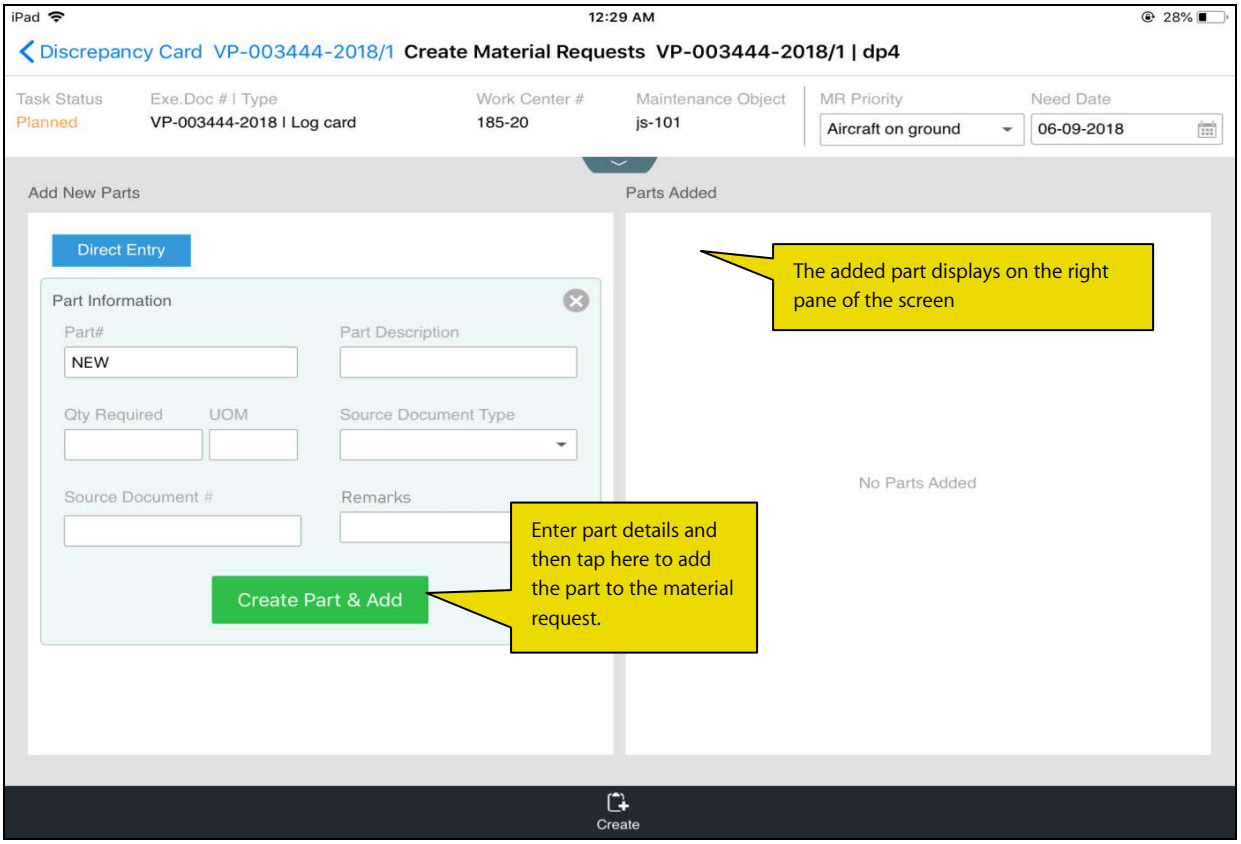


Exhibit 2: The **Add New Parts**



Ability to upload photo against a Task from MechanicAnywhere

Reference: AHBG-21471

Background

In real time aircraft maintenance, the mechanics take a picture of the task card document and attach the document against tasks, since hard copies of the task card are usually discarded upon completion of tasks. Currently, in **MechanicAnywhere**, the users can attach photos against discrepancies. However, **MechanicAnywhere** does not support picture upload for tasks.

Change Details

In order to attach a picture to a task in **MechanicAnywhere**, the following developments have been incorporated:

- The **Attachments** section in the screens will remain collapsed on launch. Once expanded, the section will display the captured / attached pictures / documents at the package level with keycode reference pointing to the task.
- The users can tap the  icon in the **Attachments** section to display the Camera  and the Gallery  icons. The users can launch the camera and click a photo by tapping the  icon. The file comprising the photo from Gallery can be saved to a repository by tapping the  icon.
- The **View Attachments** section will be renamed as **View Document**. It will list all the attachments uploaded from the **Maintenance Task** business component using the **Manage Task File Attachment** activity.
- Photo upload from Gallery and bulk photo delete facility will be provided in the following screens of **MechanicAnywhere`**
    - E-Log Header Attachments section
    - Maint./Pilot Discrepancy tab
    - Record Discrepancy Write Up
    - Create Discrepancy
    - Discrepancy Card
    - Task Card Details screen
    - Component Replacement Attachments

Exhibit 1: The **Camera & Gallery Attachments** section in **E-Log**

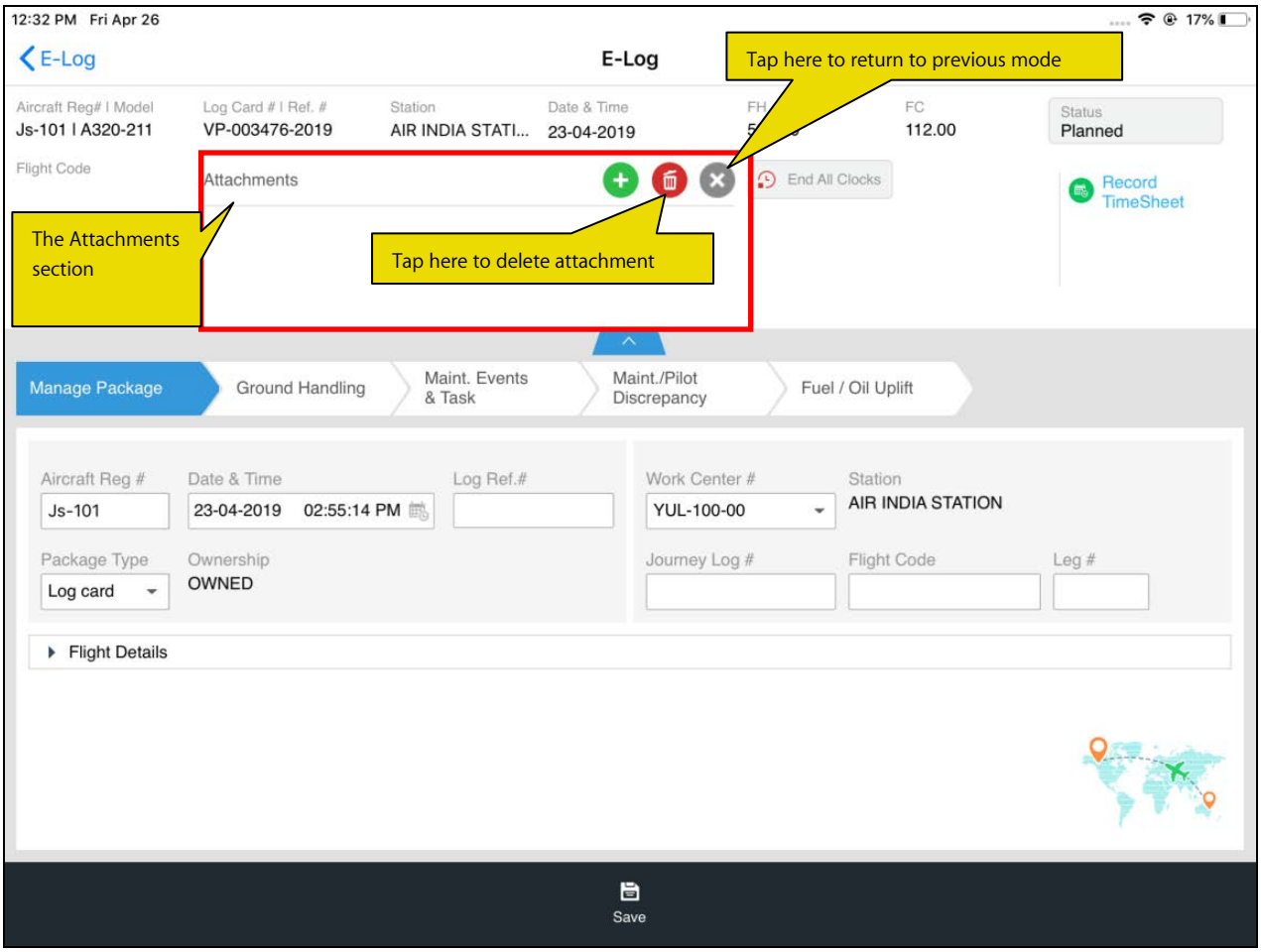


Exhibit 2: Identifies changes in the **Task Card Details** screen

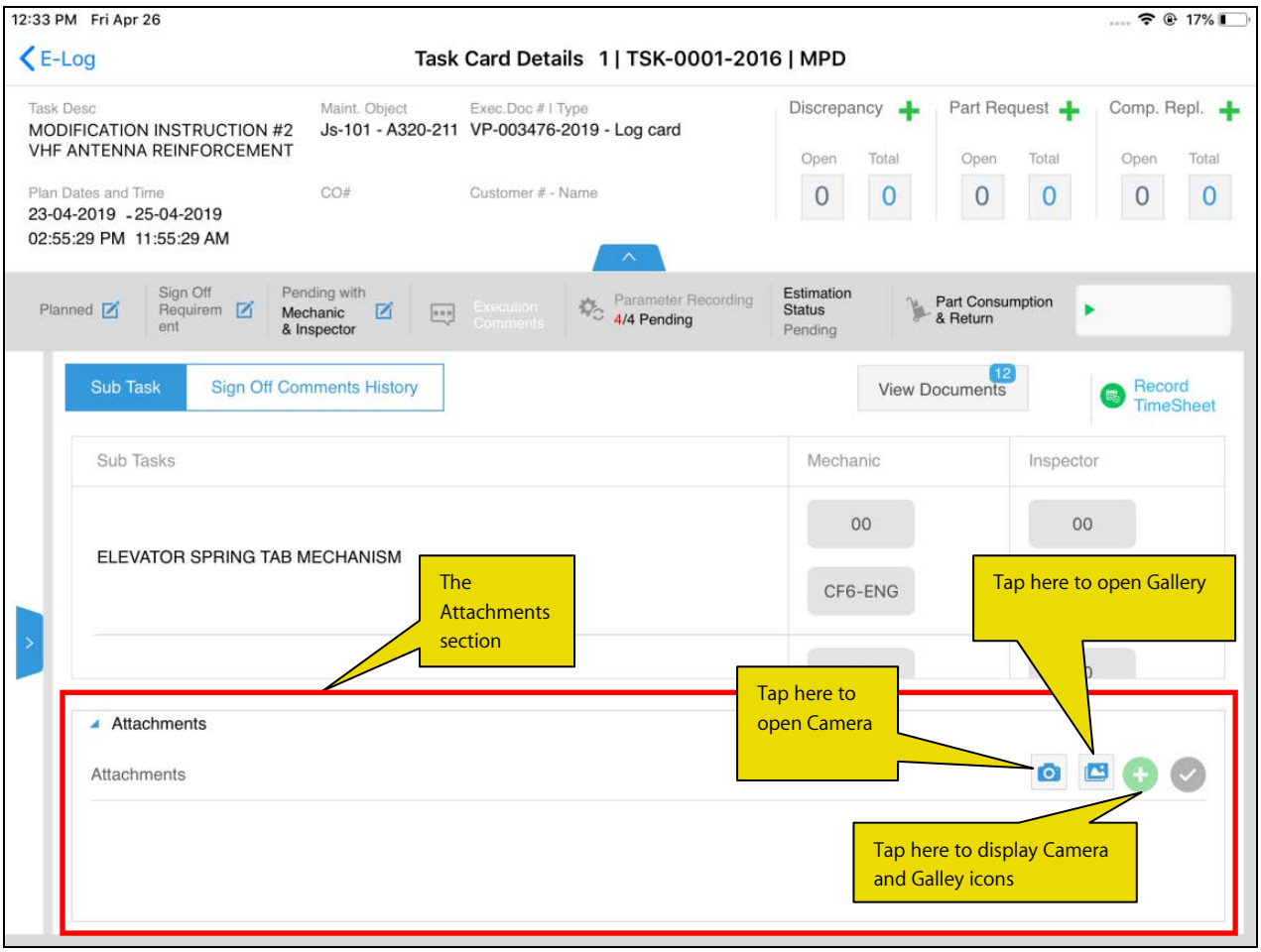
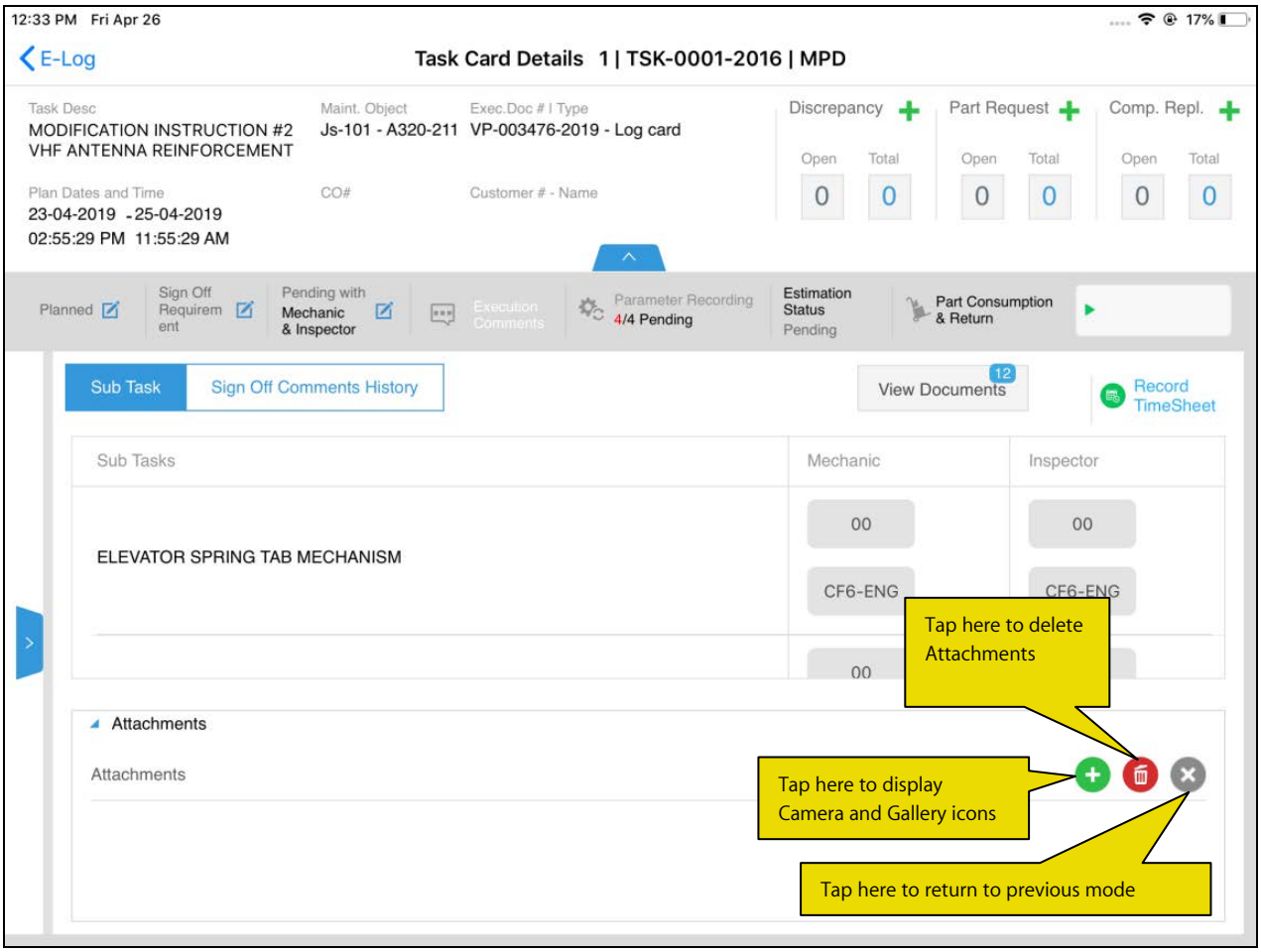


Exhibit 3: The **Attachments** section in the **Task Card Details** screen



Ability to update Parameters for Aircraft & Components from MechanicAnywhere

Reference: AHBG-25652

Background

In Aircraft maintenance, certain additional information including Hobbs Time, Engine Hours and Engine Cycles are recorded prior to maintenance of an aircraft or a component. These details are required to be shown in invoices for customer billing. Hence, a provision to capture the parameters of aircraft & components must be incorporated in **MechanicAnywhere** so that the same information flows to the invoicing process.

Change Details

The following changes have been incorporated in the **Manage Package** tab of **E-Log** to allow the users to record additional information:

- New **Additional Information** popup has been introduced in the **Manage Package** tab. However, this section is optional and its availability depends on the value set for the process parameter **'Show Additional Information section in Manage Package tab of eLog screen?'**
- New process parameter '**Show Additional Information section in Manage Package tab of eLog screen?**' has been added under the entity type Mobility and the entity MechanicAnywhere in the **Define Process Entities** activity of **Common Master** to enable users to record additional information.

Process parameter: 'Show Additional Information section in Manage Package tab of eLog screen?'	
Value	**Impact in the Manage Package tab**
0 / No	The Additional Information section will not be visible
1 / Yes	The Additional Information section will be visible

Additional Information section details

- The Additional Information section will have two sections:
  - Aircraft
  - Component
- The Aircraft section will comprise of the following display-only columns:
  - Parameter: This column lists all the valid parameters defined in the Aircraft component
  - Value: Displays blank
  - Remarks: Displays recorded remarks
- The Component section will comprise of the following display-only columns:
  - Part #
  - Serial #
  - Position Type
  - Parameter Details
  - Remarks

Additional Information – Aircraft popup details

- The users can tap the  icon in the Aircraft section to open the Additional Information – Aircraft popup.
- The pop up will fetch and display all the parameters defined against the Aircraft
- The popup displays the following display-only columns:
    - Parameter
    - Current Value
    - The user can tap on Default Icon placed adjacent to the Current Value to default the value in the Edit Value column
- The users can input the value for the parameter in the Enter Value column.
- The Remarks input field captures the user remarks on a parameter
- To add a parameter to the aircraft, select the parameter from the Parameters drop-down list box and then tap the  icon
- The  icon appears alongside those parameters that have been manually added
- Select the Submit button to save the parameter details

Additional Information – Component popup details

- On tap of the  icon in the Component section, the Additional Information – Component popup.
- The users can search and retrieve parameters based on following filters
    - First field will list following values 'Position Type', 'Part #', 'Serial #', and 'Parameters'
    - Second field will display and the control modification will happen based on the option chosen in the first field of filter by
- Users can enter the Part # , Serial #, and select the Position Type and Parameters from the dropdown in the next section
- On tap of  icon, the entered Part # , Serial #, selected Position Type, Parameter will be added in the multiline
- The  icon appears alongside those parameters that have been manually added
- On launch of Component pop up, the system will automatically retrieve the parameters defined against the first level configuration positions defined against an Aircraft.
- The user can tap on **Default** Icon placed adjacent to the Current Value to default the value in the Edit Value column
- The Remarks field will capture the users remarks of a parameter
- Select the Submit button to save parameter details

Exhibit 1: The **Manage Package** tab of **E-log**

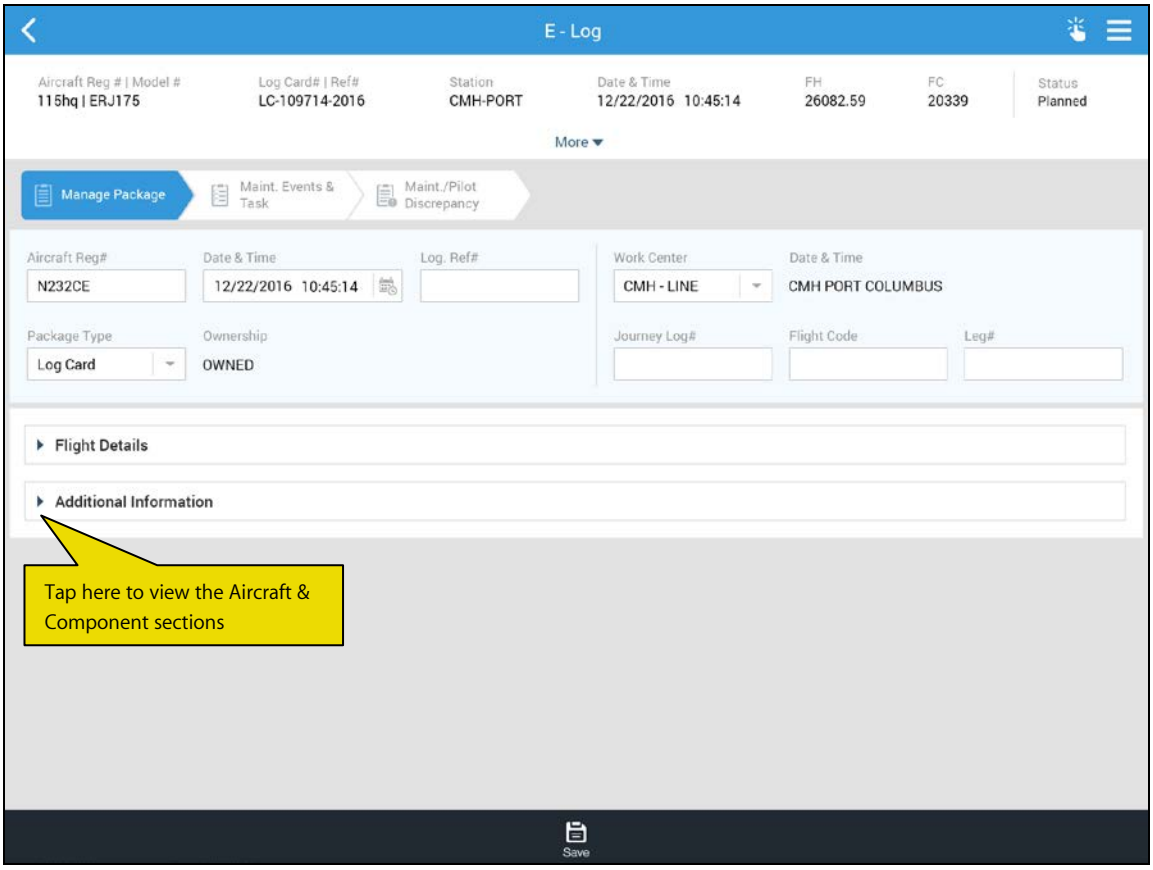


Exhibit 2: The **Additional Information** section in the **Manage Package** tab of **E-log**

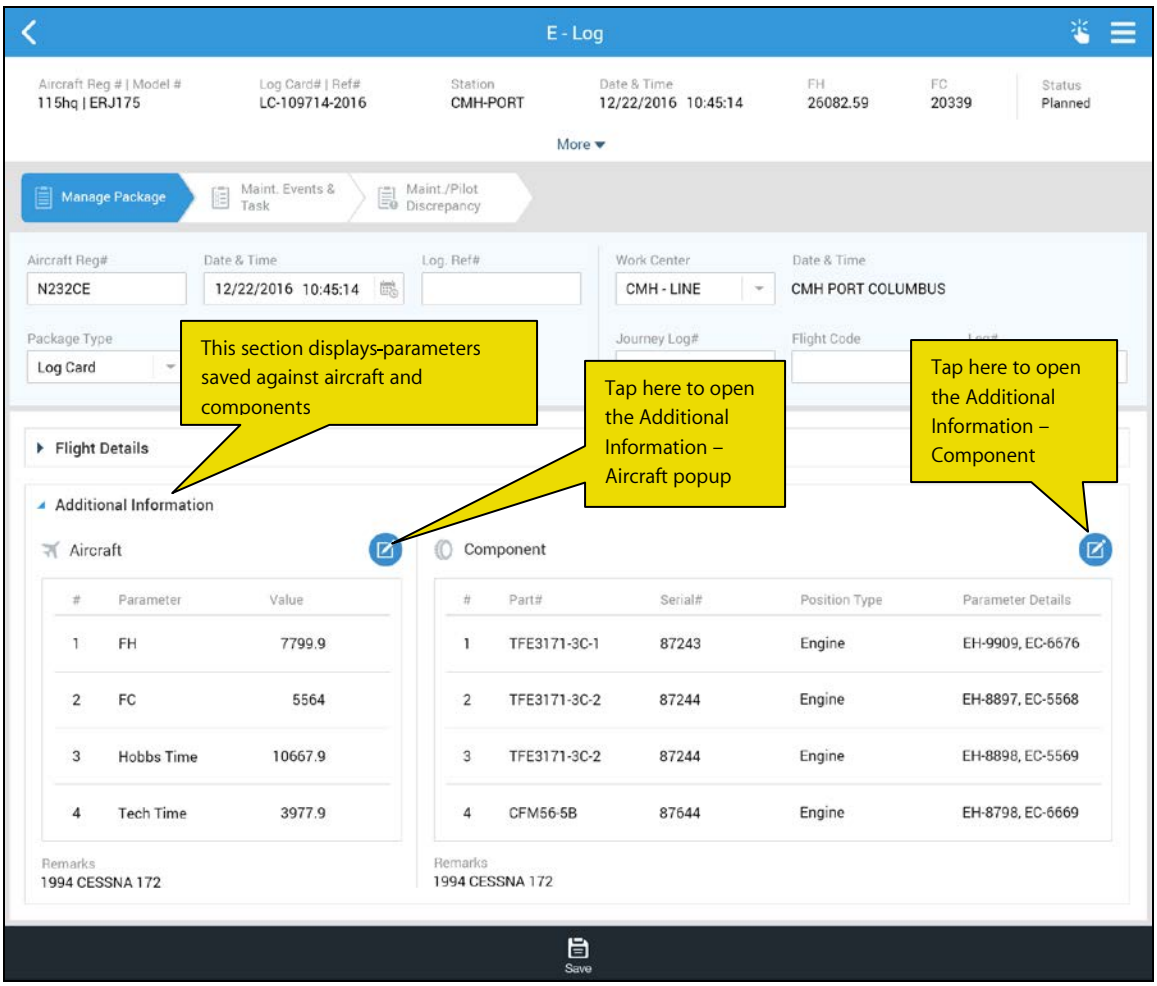


Exhibit 3: The **Additional Information – Aircraft** popup in the **Additional Information** section

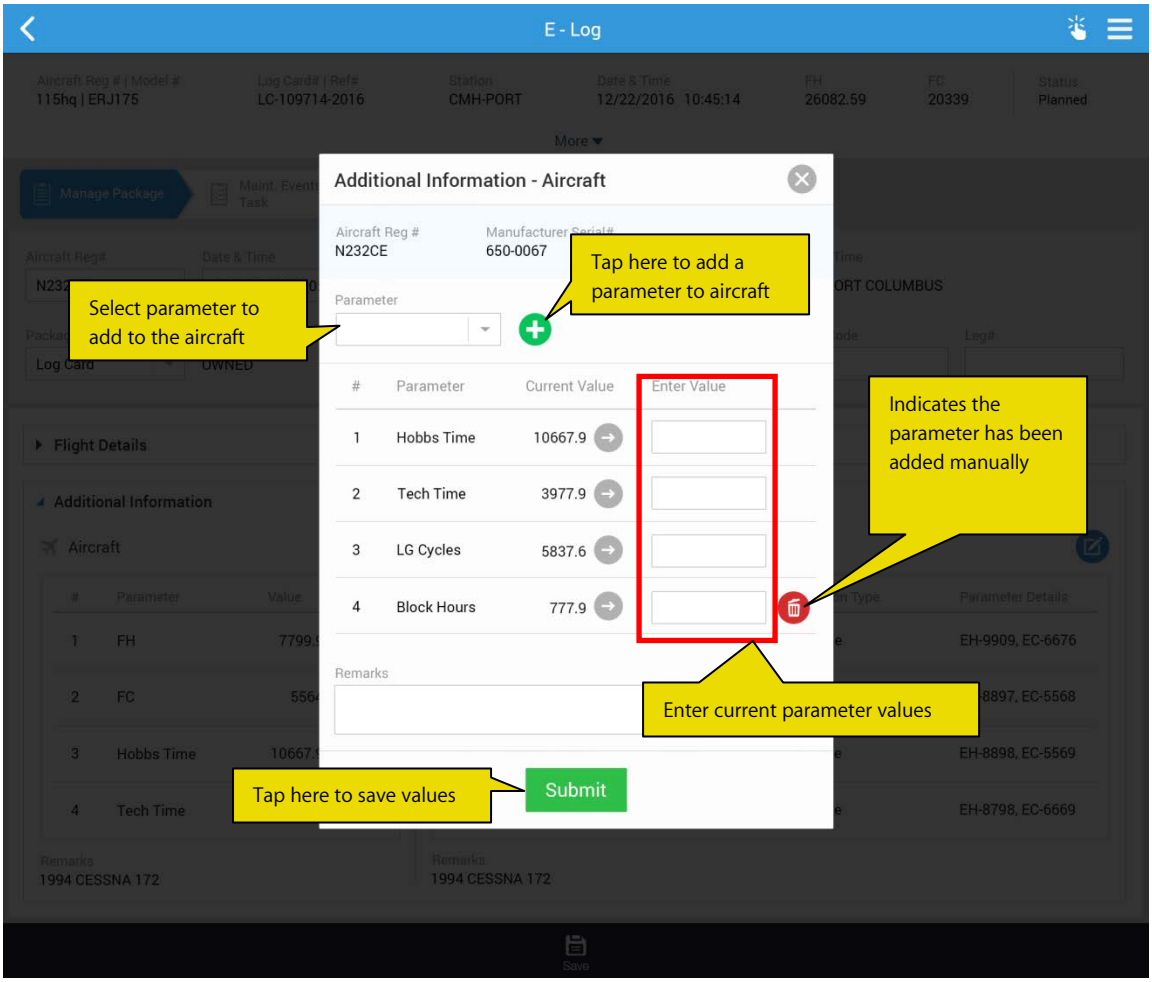
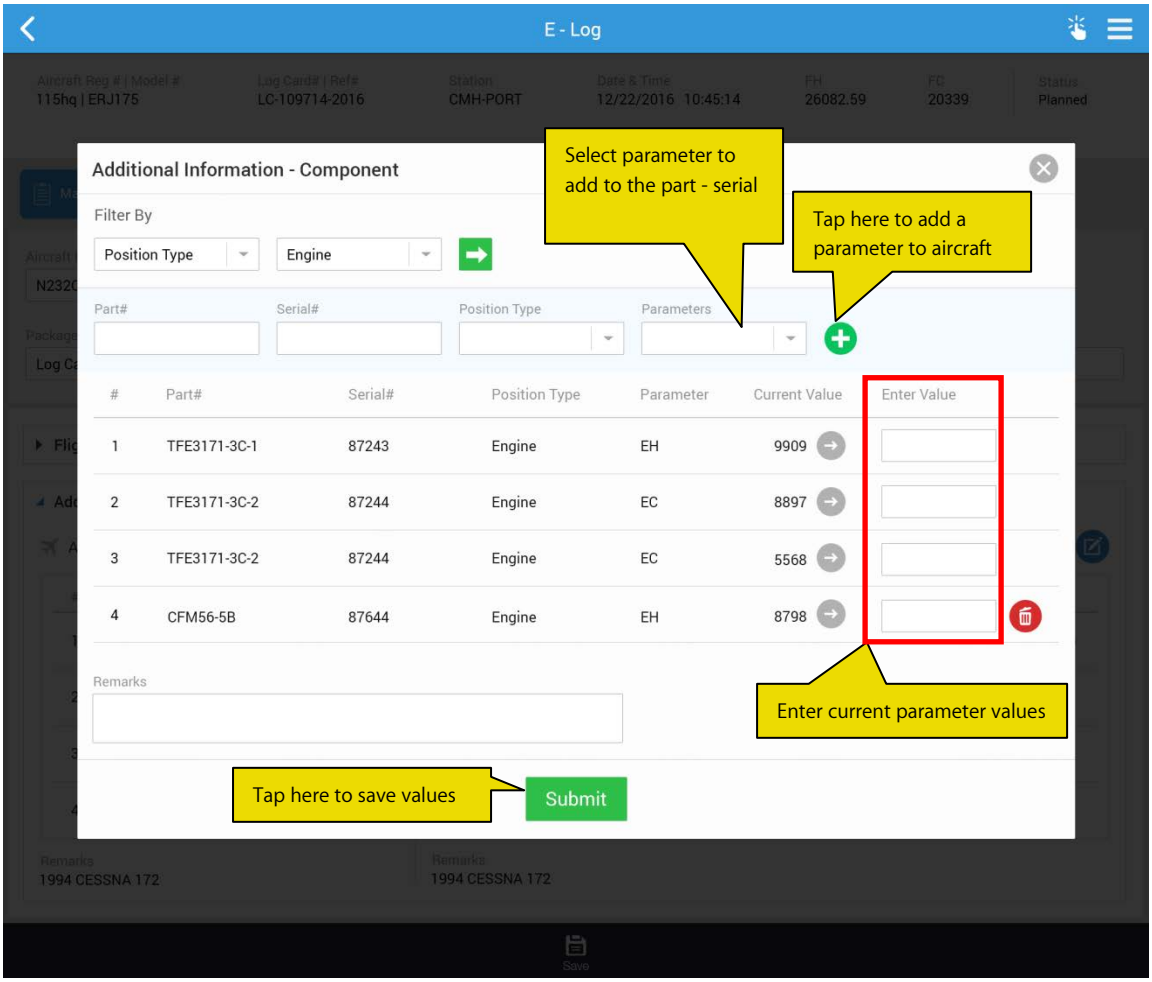


Exhibit 4: The **Additional Information – Component** popup in the **Additional Information** section



Ability to bypass New Serial creation during CR if Removed Serial # is entered in MechanicAnywhere

Reference: AHBG-28833

Background

In **MechanicAnywhere**, during component removal in the Component Removal (CR) transactions, the users are prompted to provide **Removed MSN #**, if they have not specified the **Removed Serial #**. Further, if the user provides **Removed MSN #** that already exists in the stock, the system does not allow the user to proceed with the CR transaction.

The user at this point is forced to exit the transaction by refreshing the screen and then restarting the transaction. Hence, to avoid this kind of stalemate, the system must bypass the new serial creation during component removal by accepting any valid **Removed Serial #** (could also include Removed MSN #) and allow the Component Removal transaction to continue towards completion.

Change Details

In order to ensure seamless Component Removal (CR) transactions, the system will now prompt the users to provide **Removed Serial #**, if they specify an existing Serial # as **Removed MSN #** for new serial creation. The system will now consider only the specified Removed Serial # for the CR transaction and not Removed MSN #. In this way, the new MSN # creation is bypassed in the CR transactions. However, the users will now have to enter a valid Serial # in the **Removed Serial #** field in the **Remove/Replace** tab of the **Component Replacement** screen. The system will check for the validity of **Removed Serial #** vis-à-vis **Removed Part #**. It will not allow the component removal, if **Removed Serial #** is not valid for **Removed Part #**.

However, the component removal will be successful and new MSN # will created, if the user specified R**emoved MSN #** does not exist in stock.

Exhibit 1: The **Remove** tab of the **Component Replacement** screen

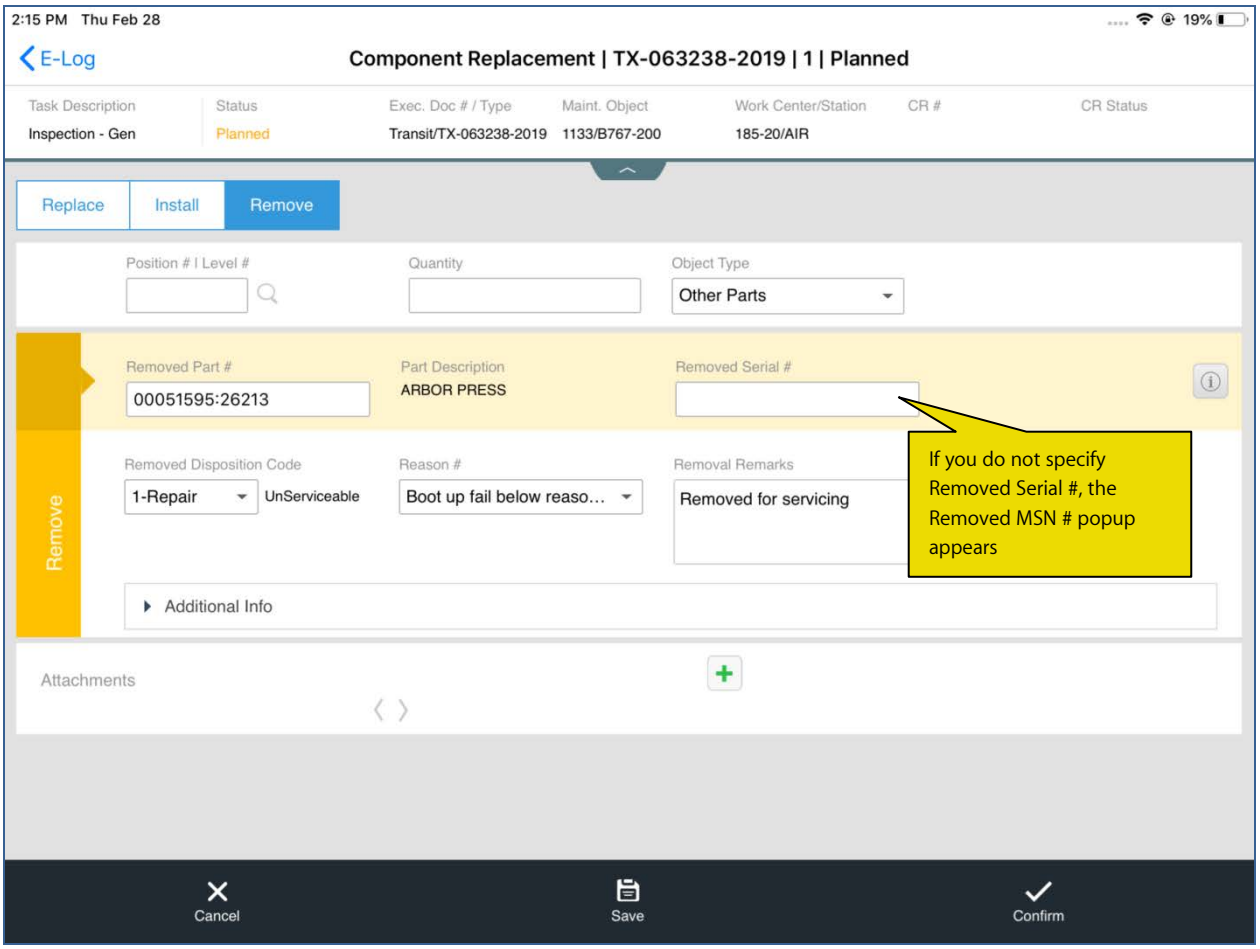


Exhibit 2: The **Removed MSN #** popup

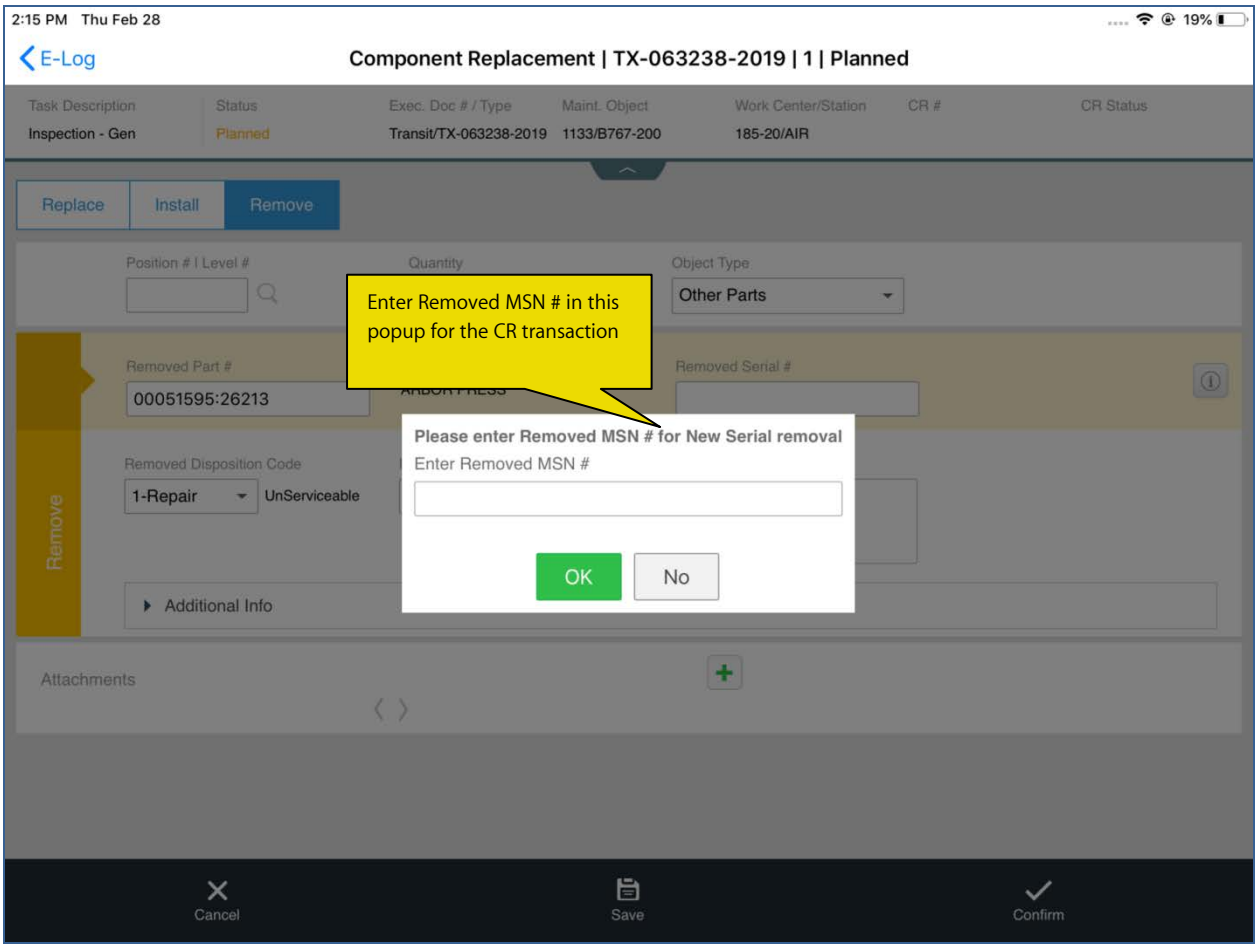


Exhibit 3: The **Remove** tab in the **Component Replacement** screen

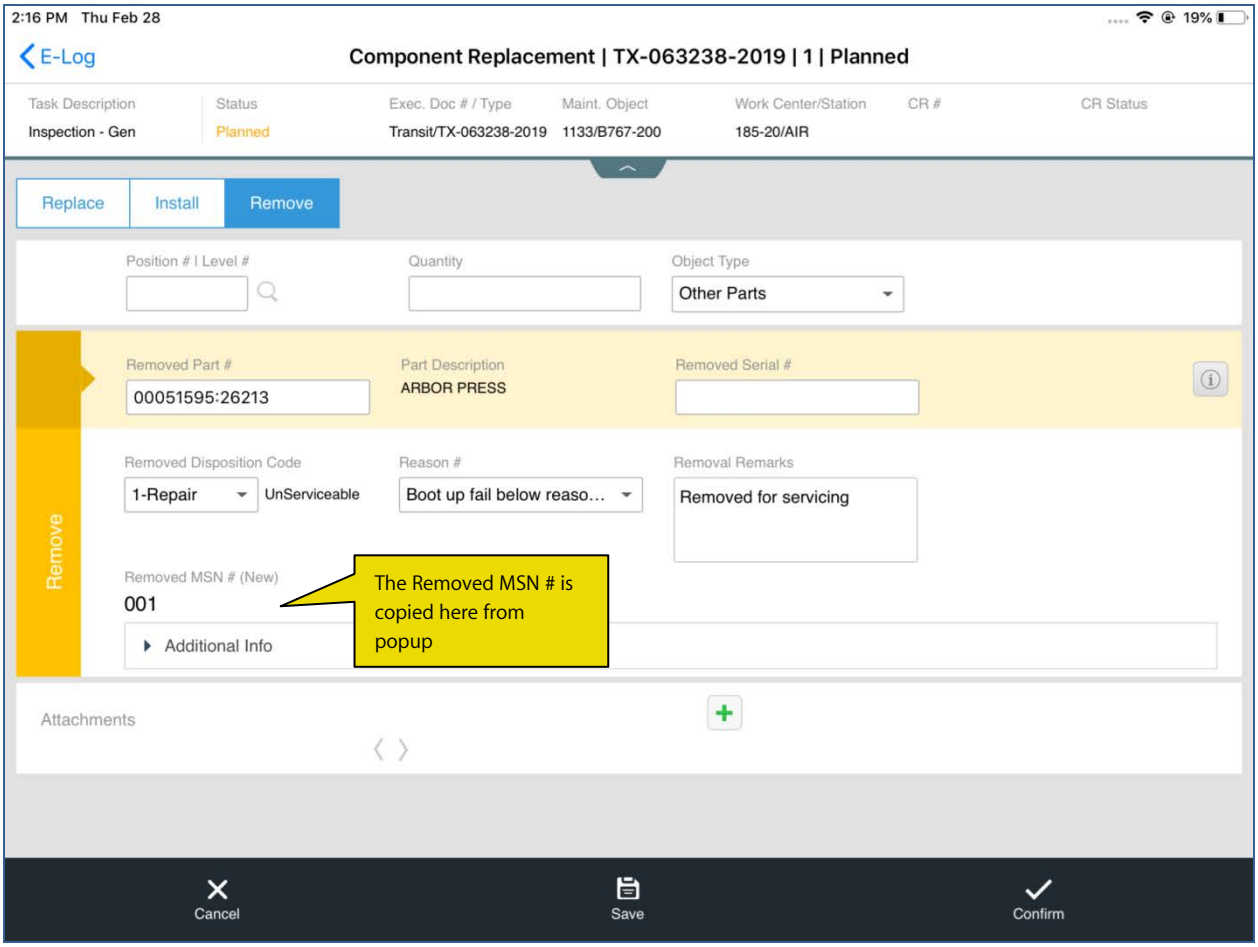


Exhibit 4: The **error** encountered in **Removed Serial #** popup

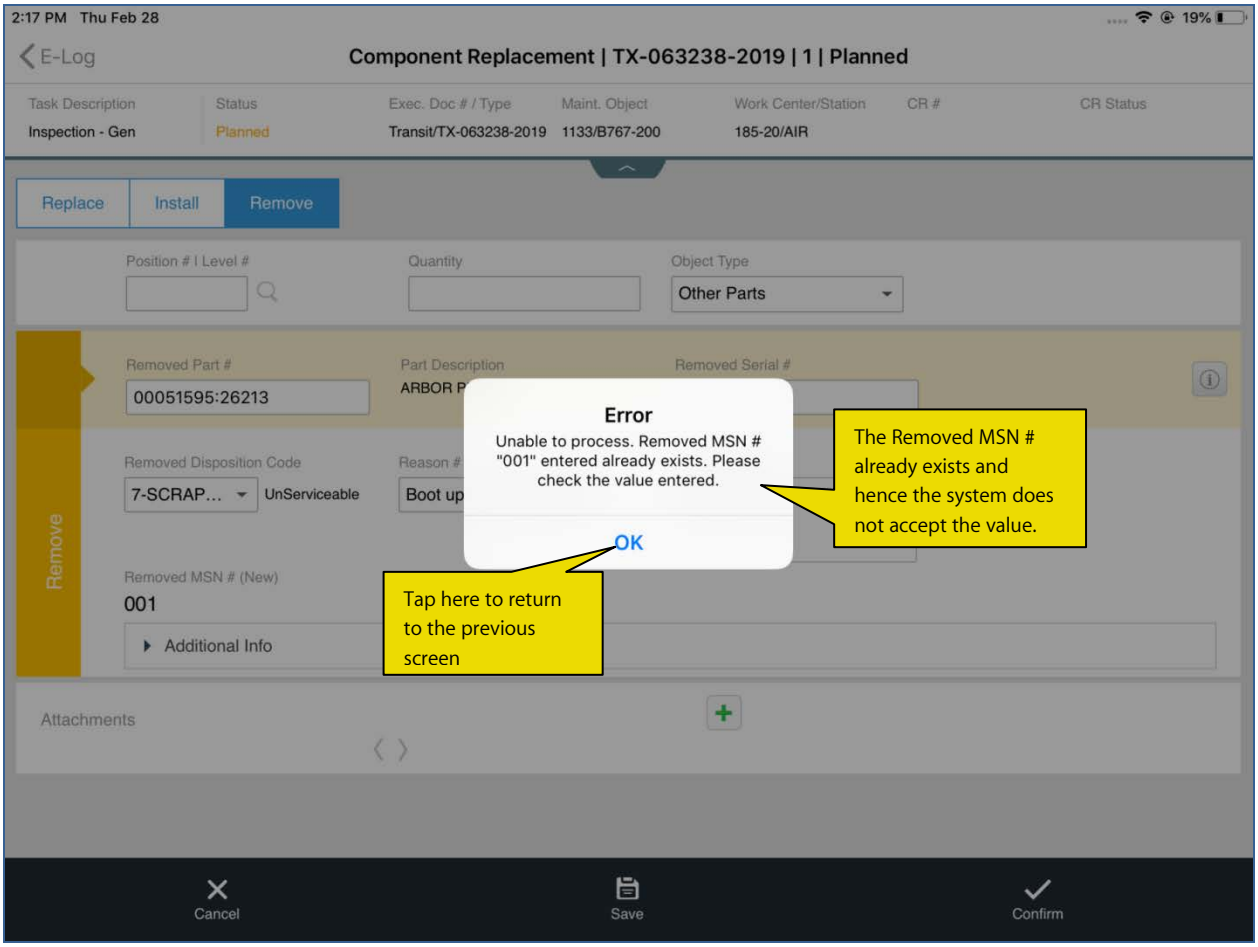


Exhibit 5: The **Remove** tab in the **Component Replacement** screen

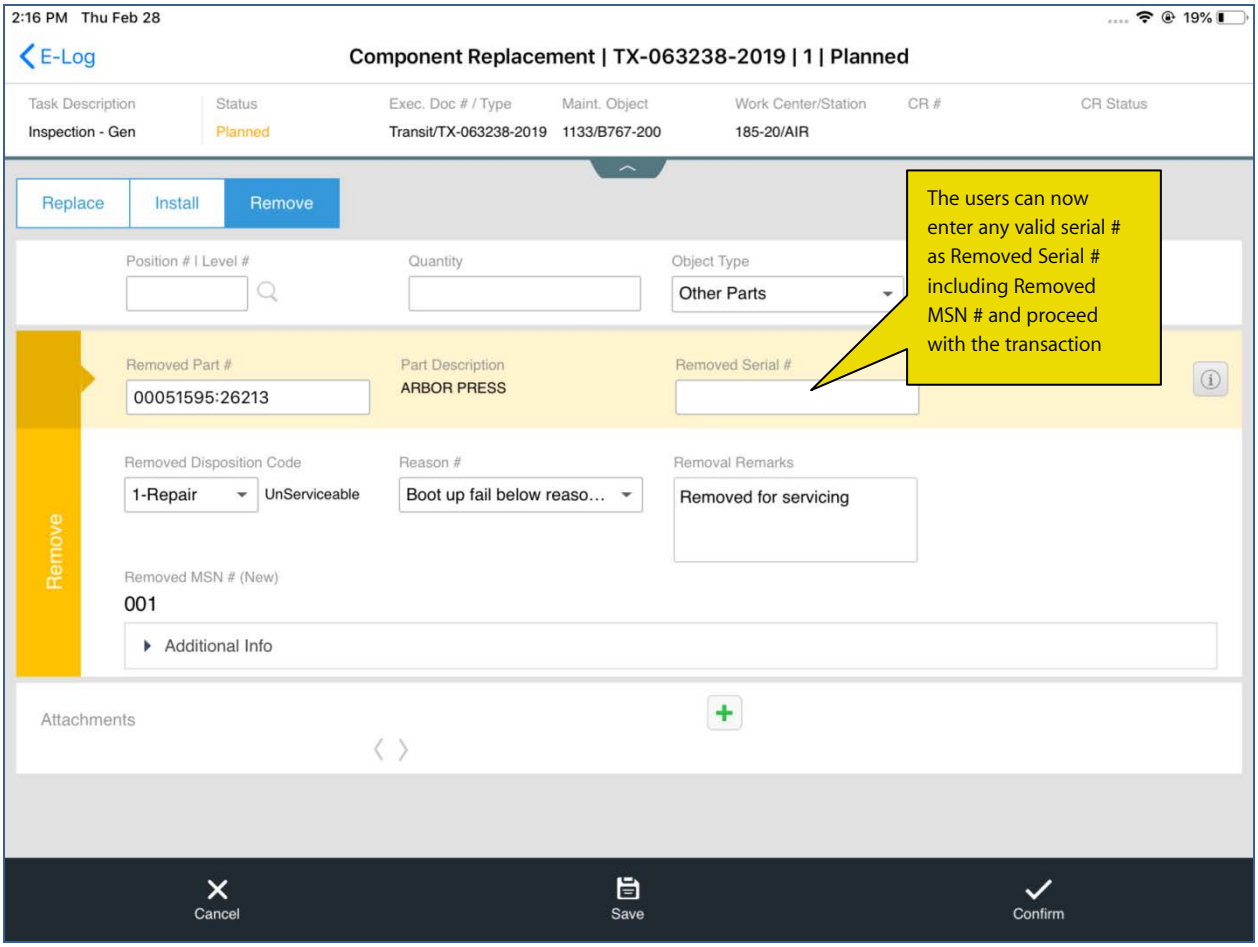
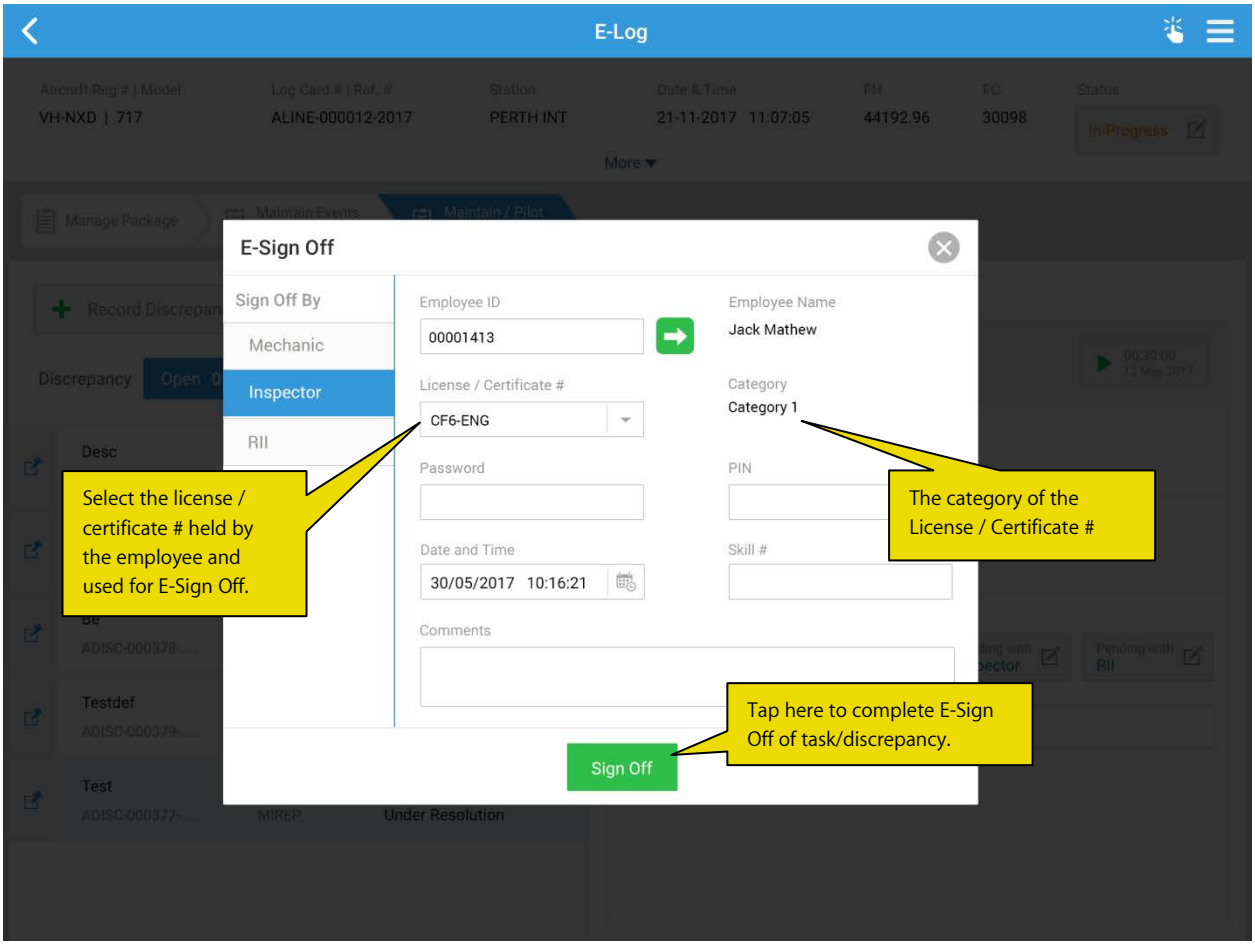


Exhibit 6: The **E-Sign Off** popup in **MechanicAnywhere**



Ability to default Include Child Positions toggle button on Page launch

Reference: AHBG-27917

Background

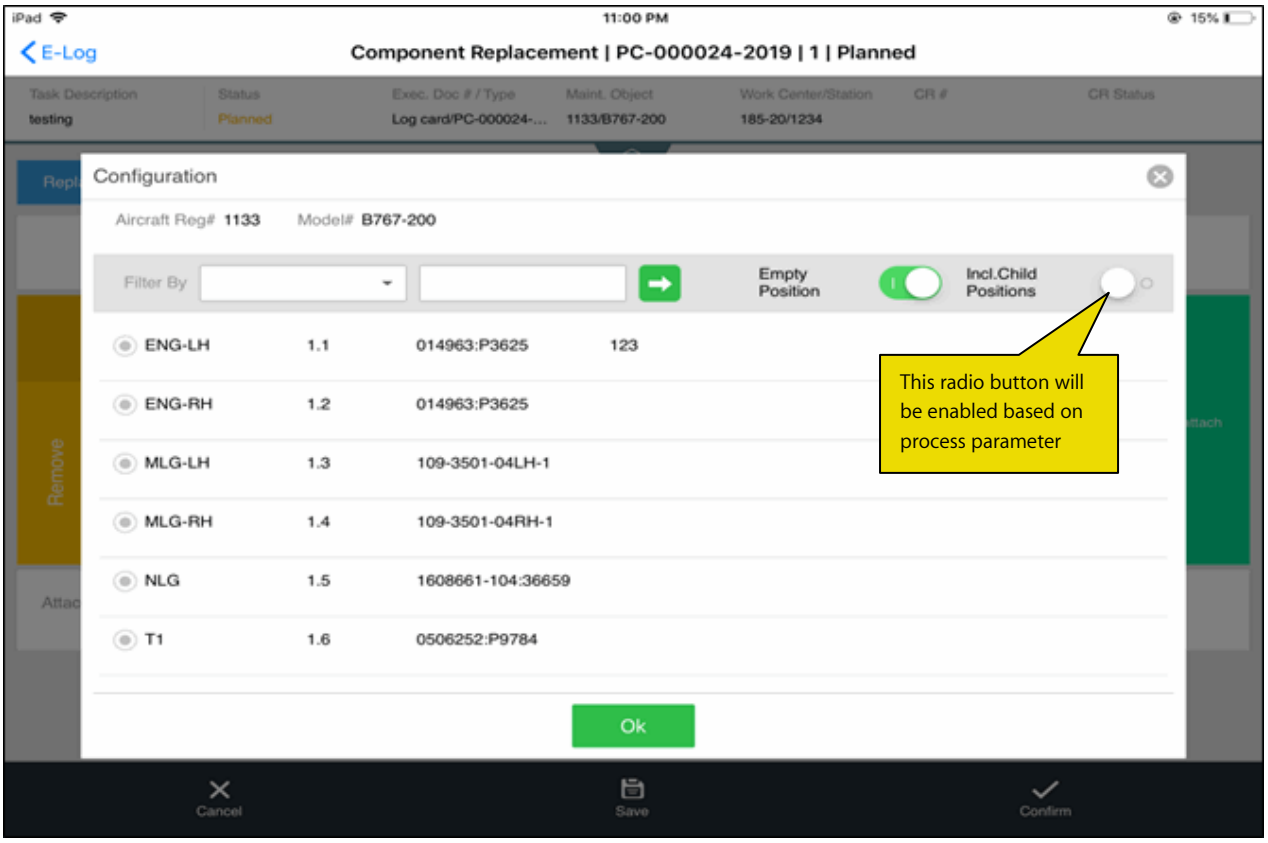
Currently, the **Configuration** popup in the **MechanicAnywhere** mobile application retrieves only the First-level positions of configuration parts in the aircraft configuration. However, to view the child Positions of the First level configured parts in the popup, the viewers have to manually select the **Include Child Positions** toggle button after which the system takes a couple of minutes to retrieve / display data. Hence, it is required that the **Include Child Positions** toggle button remains selected at launch itself.

Change Details

New process parameter 'Default Include Child Positions Toggle button on Configuration Page Launch?' has been added under the entity type Mobility and the entity MechanicAnywhere in the **Define Process Entities** activity of **Common Master** to enable the radio button on launch of the **Configuration** popup from the **Component Replacement** screen of **MechanicAnywhere**.

Process Parameter Value	Impact
1 for ON	The **Incl. Child Positions** radio button in the **Configuration** popup will remain selected when launched on click of the **Help** icon for **Position # | Level #** in the **Component Replacement** page
0 for OFF	The **Incl. Child Positions** radio button in the **Configuration** popup will remain deselected when launched on click of the **Help** icon for **Position # | Level #** in the **Component Replacement** page

Exhibit 1: The **Configuration Help** screen of **MechanicAnywhere**



Check Part availability in MechanicAnywhere within or across Warehouses based on set option

Reference: AHBG-28323

Background

Ramco Aviation supports inquiry into the availability of required parts within the Serviceable Request warehouse of the task / discrepancy work center or across warehouses defined in the organization unit. Since both means of checking for part availability are widely used by the aircraft mechanics, a provision to configure the part availability inquiry based on exclusively one of the two means is required in **MechanicAnywhere**.

Change Details

In order to enable material planners and mechanics to check for part availability within warehouse or across warehouses, the following developments have been incorporated in **Mechanic Anywhere**:

- New process parameter 'Show part availability within/across warehouse in Mechanic Anywhere?' has been defined under the entity type Mobility and the entity MechanicAnywhere in the **Define Process Entities** activity of **Common Master** to enable users to opt for intra-warehouse or inter-warehouse search for part availability

Process Parameter: Show part availability within/across warehouse in Mechanic Anywhere?	
Process Parameter Value	**Impact in the Part Availability popup of the Create Material Requests screen**
0 for Within Warehouse	The system retrieves the available quantity of the Requested Part # (and the Alternate Part #s) under the Requested / Preferred stock status (and the Alternate stock statuses) in the Serviceable Request warehouse and matrix warehouses. For customer-owned aircraft, the system will show the part availability based on the Requested /contract Preferred stock status.
1 for Across Warehouse	The system retrieves the available quantities of the Requested Part # in the Serviceable Request Warehouse (along with other warehouses defined in the Storage Administration business component) and the Preferred stock status of the aircraft (along with the other stock statuses defined in the Stock Status business component) and the Alternate Part #s defined in the Maintain Alternate Part Nos screen in the Part Administration business component.

Exhibit 1: The **Create Material Requests** screen

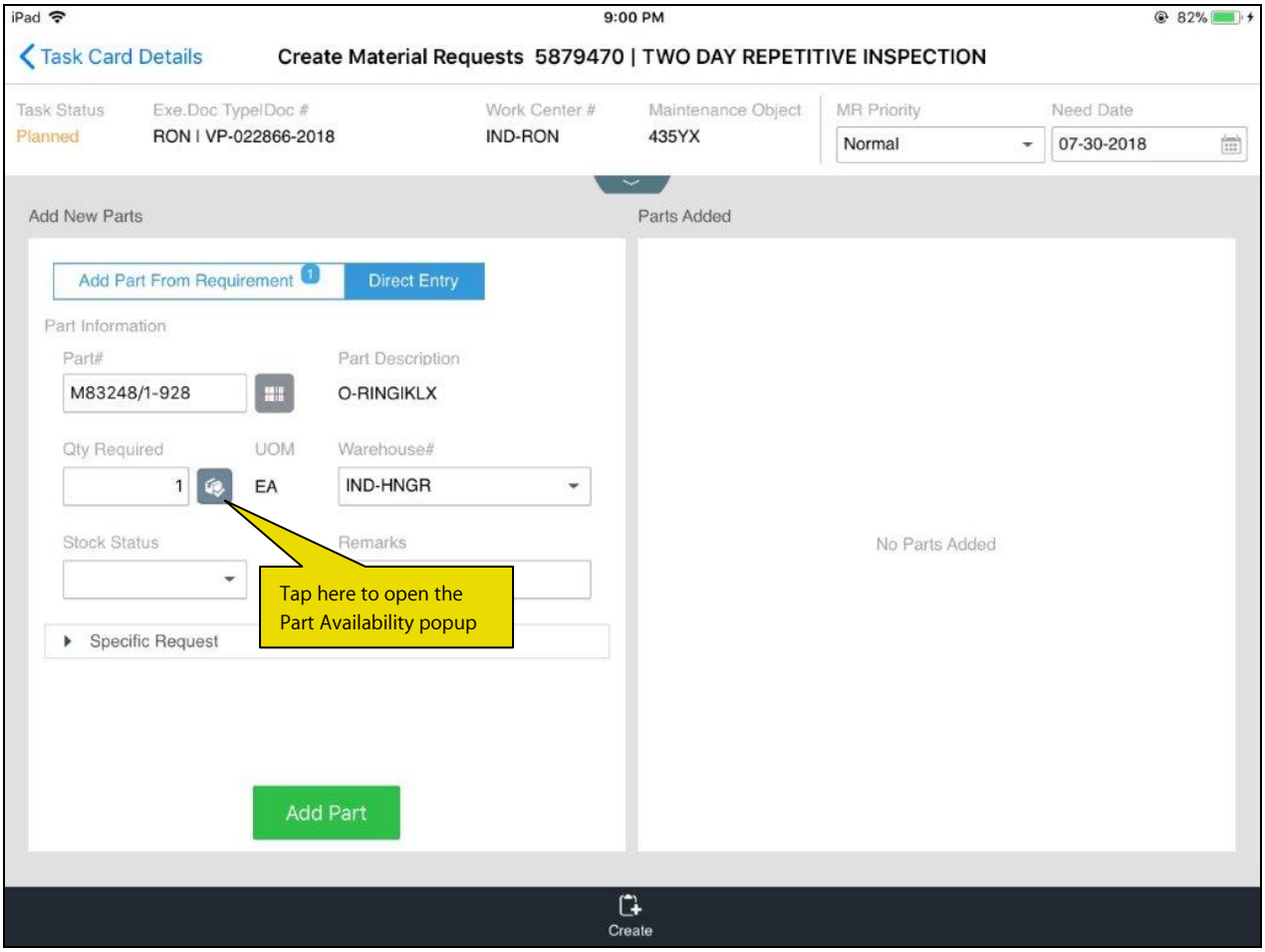


Exhibit 2: The **Part Availability** (within warehouse) popup in the **Create Material Requests** screen

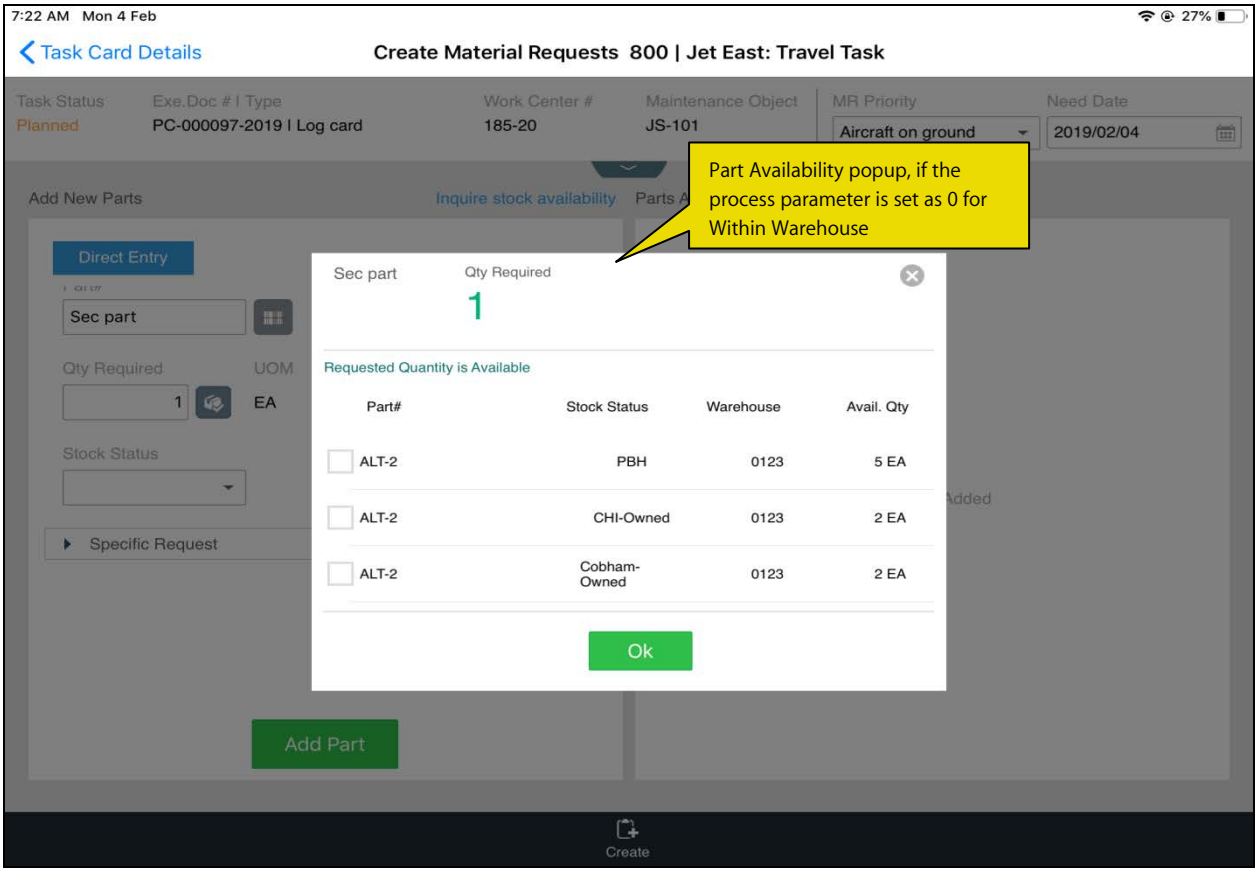
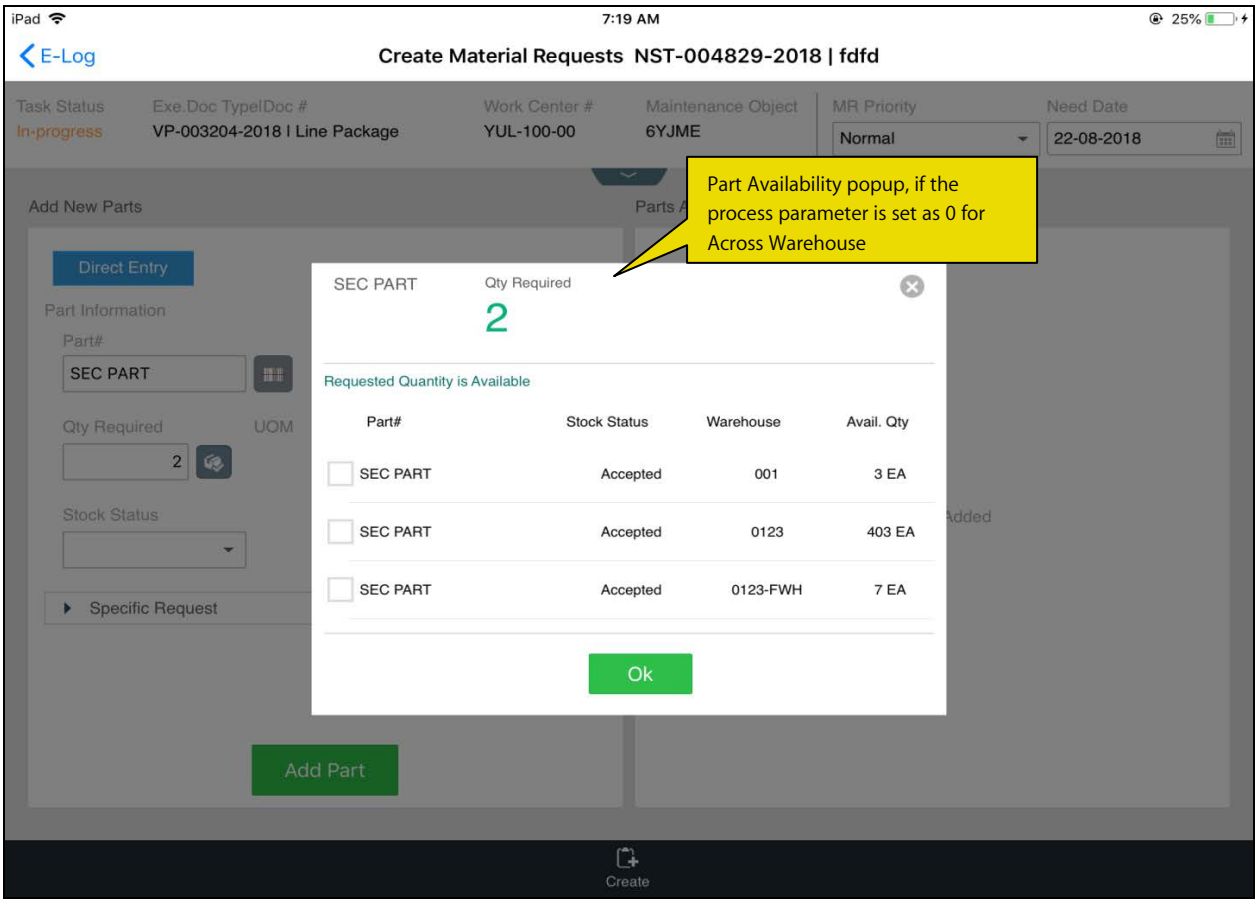


Exhibit 3: The **Part Availability** (across warehouse) popup in the **Create Material Requests** screen



Ability to print Reports at the Package level in eLog of Mechanic Anywhere

Reference: AHBG-28319

Background

A provision is required in **MechanicAnywhere** to generate, display and print personalized reports from **MechanicAnywhere.**

Change Details

To facilitate report generation and printing specific to organizations, the following changes have been incorporated in the **MechanicAnywhere** mobile application in the **Manage Package** tab

- The following process parameters has been added to display the report print options in the **Report** section
  - **'Show reports for form with repair station for a Package?'**
  - **'Show reports for form without repair station for a Package?'**

Process parameter: Show reports for form with repair station for a Package?	
Value	**Impact**
1 for Allowed	The Reports section displays in the **Manage Package** tab, if one or more reports with repair station are available against the package.
0 for Not Allowed	The Reports section in the **Manage Package** tab is not available to users, if no reports with repair station details are available against the package .
Process parameter: Show reports for form with repair station for a Package?	
Value	**Impact**
1 for Allowed	The Reports section displays in the **Manage Package** tab, if one or more reports without repair station are available against the package.
0 for Not Allowed	The Reports section in the **Manage Package** tab is not available to users, if no reports without repair station details are available against the package.

Exhibit 1: The **Manage Package** tab in **E-Log**

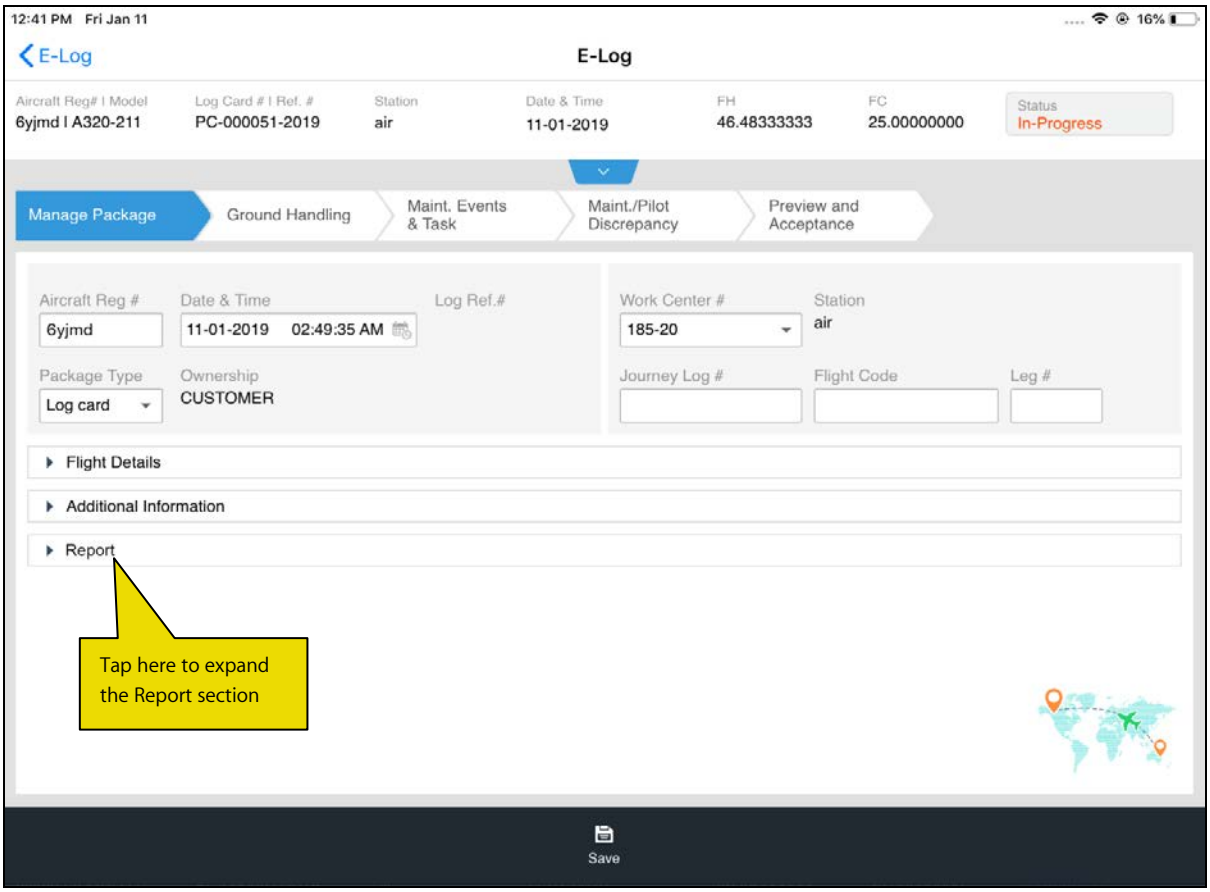
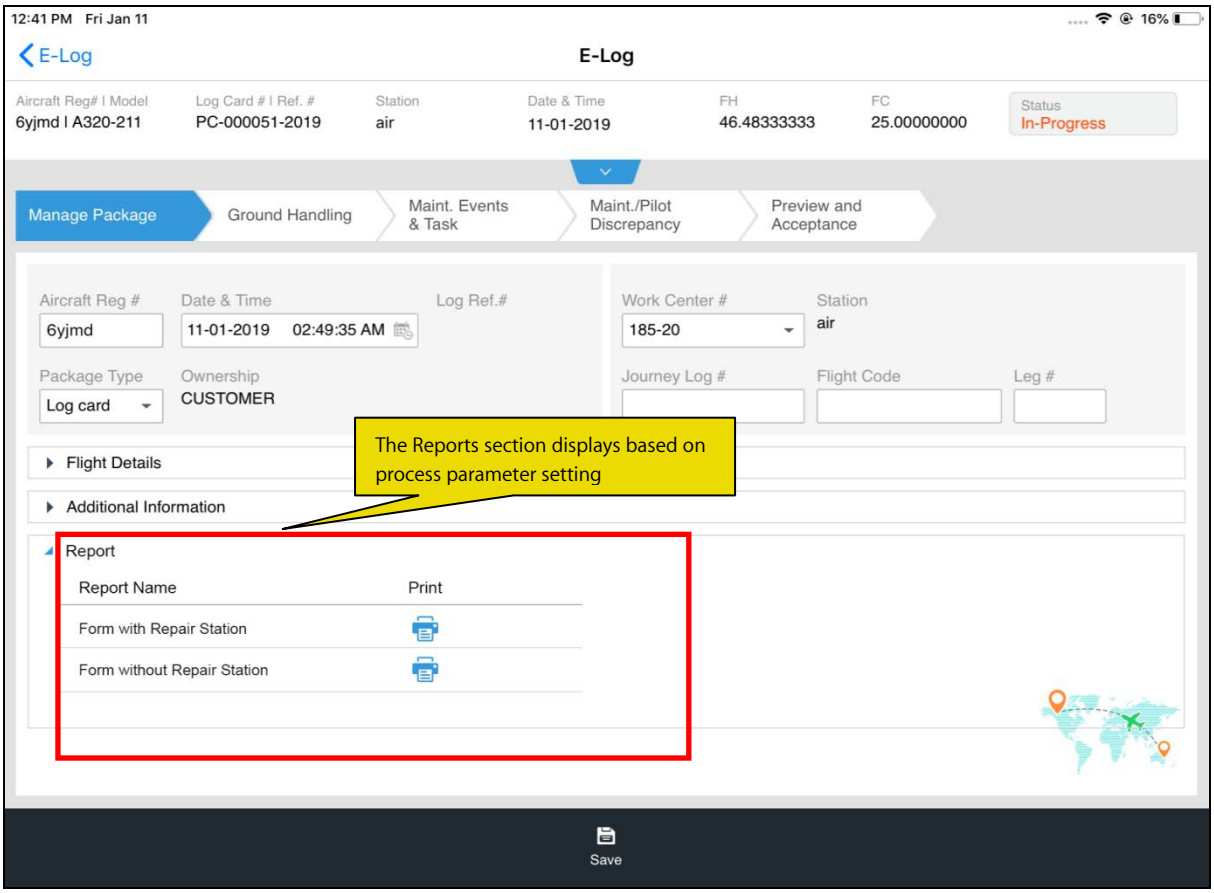


Exhibit 2: The expanded **Report** section (expanded) in the **Manage package** tab



Ability to display position part details during Fuel Oil uplift in MechanicAnywhere

Reference: AHBG-24821

Background

Typically in the aircraft maintenance scenario, the mechanics inspect fuel/oil levels of aircraft before every departure and uplift the fuel/oil based on the flight requirements. Currently, the mechanics do not have the capability to record the Fuel/Oil uplift details in **MechanicAnywhere** for Item Descriptions against **Position Code** and **Part #** belonging to the Aircraft Model Configuration and Configuration class combination defined in the **Maintain Flight Log Parameters** screen. It would be relevant to display **Part #**, **Serial #** and **Position Code** of the engine /APU positions available in Aircraft Configuration while updating the fuel/oil uplift details.

Change Details

- The **Fuel Distribution** section under the **Fuel/Oil Uplift** tab will now display the following additional fields against which you can record fuel uplift details
    - **Position Code**: This column will list positions of Position Type 'Engine' and 'APU' from Aircraft Configuration
    - **Part #** : This column displays the part # attached to the position code
    - **Serial #**: This column displays the serial # of the part # attached to the position code
    - **Item Description**: This column will list all Active items of type **Fuel** as defined for an **Aircraft Model - Config Class** combination in the **Maintain Log Parameters** screen.
- The **Oil Uplift** section under the **Fuel/Oil Uplift** tab will now display the following additional fields against which you can record oil uplift details:
    - **Position Code**: This column will list positions of Position Type 'Engine' and 'APU' from Aircraft Configuration
    - **Part #**: This column displays the part # attached to the position code
    - **Serial #**: This column displays the serial # of the part # attached to the position code
    - **Item Description**: This column will list all Active items of type Oil as defined for an Aircraft Model - Config Class combination in the **Maintain Log Parameters** screen.

- The **Hydraulic Uplift** section under the **Fuel/Oil Uplift** tab will now display the following additional fields against which you can record hydraulic uplift details:
    - **Position Code**: This column will list positions of Position Type 'Engine' and 'APU' from Aircraft Configuration
    - **Part #**: This column displays the part # attached to the position code
    - **Serial #**: This column displays the serial # of the part # attached to the position code
    - **Item Description**: This column will list all Active items of type Hydraulic as defined for an Aircraft Model - Config Class combination in the **Maintain Log Parameters** screen.

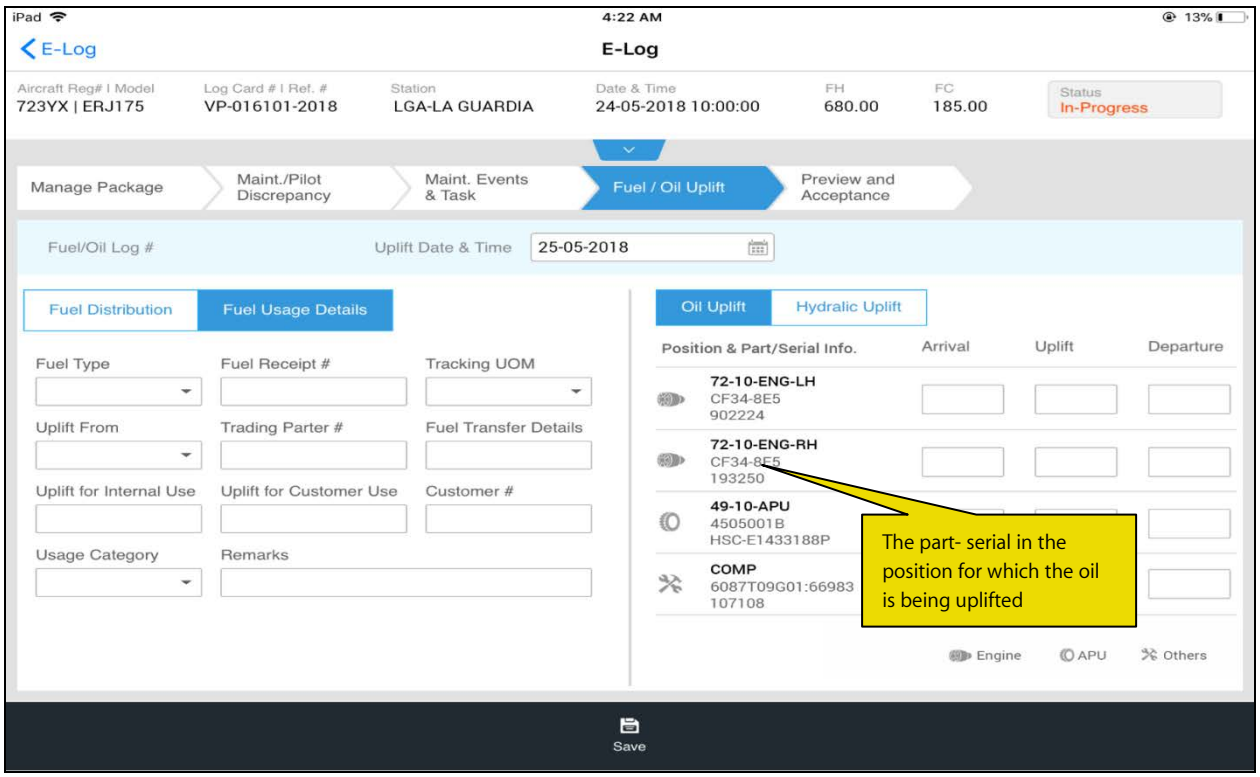
Note: 1) If Position Code and Part # are not defined for Item Description against the Aircraft Model # and Configuration Class, the system will not display values for 'Part #', 'Serial #' and 'Position Code'.

2) If Item Description is not defined for Position Code, Part # and Serial # against the Aircraft Model # and Configuration Class in the Maintain Flight Log Parameters screen, the system does not have to show the Item Description.

3) The application will list the Engine & APU positions from Aircraft Configuration.

- The types of position including **Engine, APU, Landing Gear** and **Others** will be represented by specific icons in the **Fuel/Oil Uplift** tab. Engine and APU position types will be highlighted by individual icons while **Landing Gear** and **Others** will display yet another icon.

Exhibit 1: The **Fuel / Oil Uplift** tab in **E-Log**



Ability to prevent usage of Log Ref # in MechanicAnywhere

Reference: AHBG-24208

Background

A provision to restrict the entry/ update of Log Ref # during creation / update of packages in the mobile MechanicAnywhere application is required.

Change Details

The following developments have been carried out in **MechanicAnywhere** to allow / disallow data entry in the **Log Ref #** field in the **Create Package** and **Manage Package** screens:

- The process parameter 'Allow entry/modification of Log Ref # from eLog in MechanicAnywhere?' 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 Log Ref # for the package.

Allow entry/modification of Log Ref # from eLog in MechanicAnywhere? value	Impact on the Log Ref # field
0 / Not Allowed	The field will be a display-only field
1 / Allowed	The field will be a input field and the users can specify / modify the value

Exhibit 1: The **Create Package** page

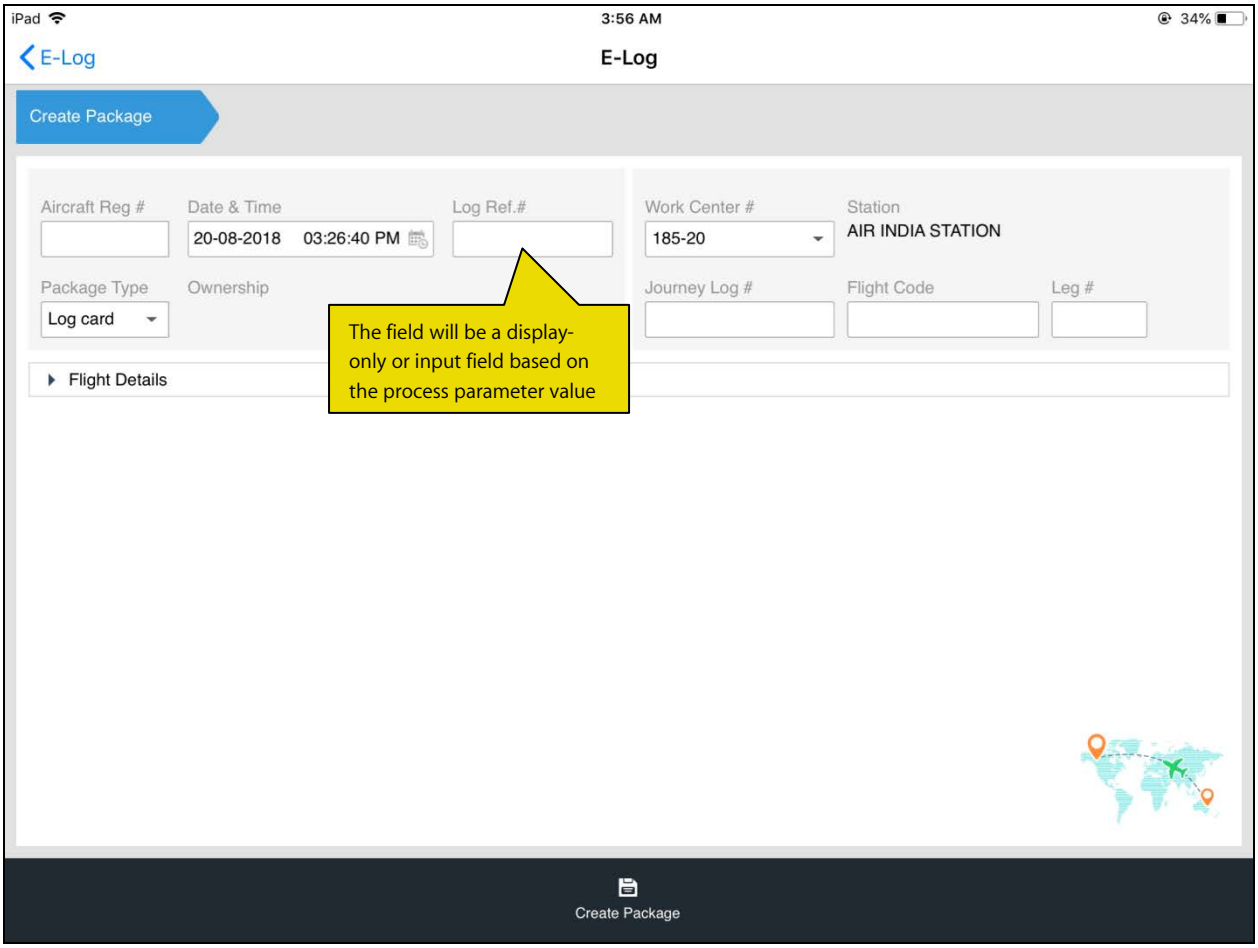
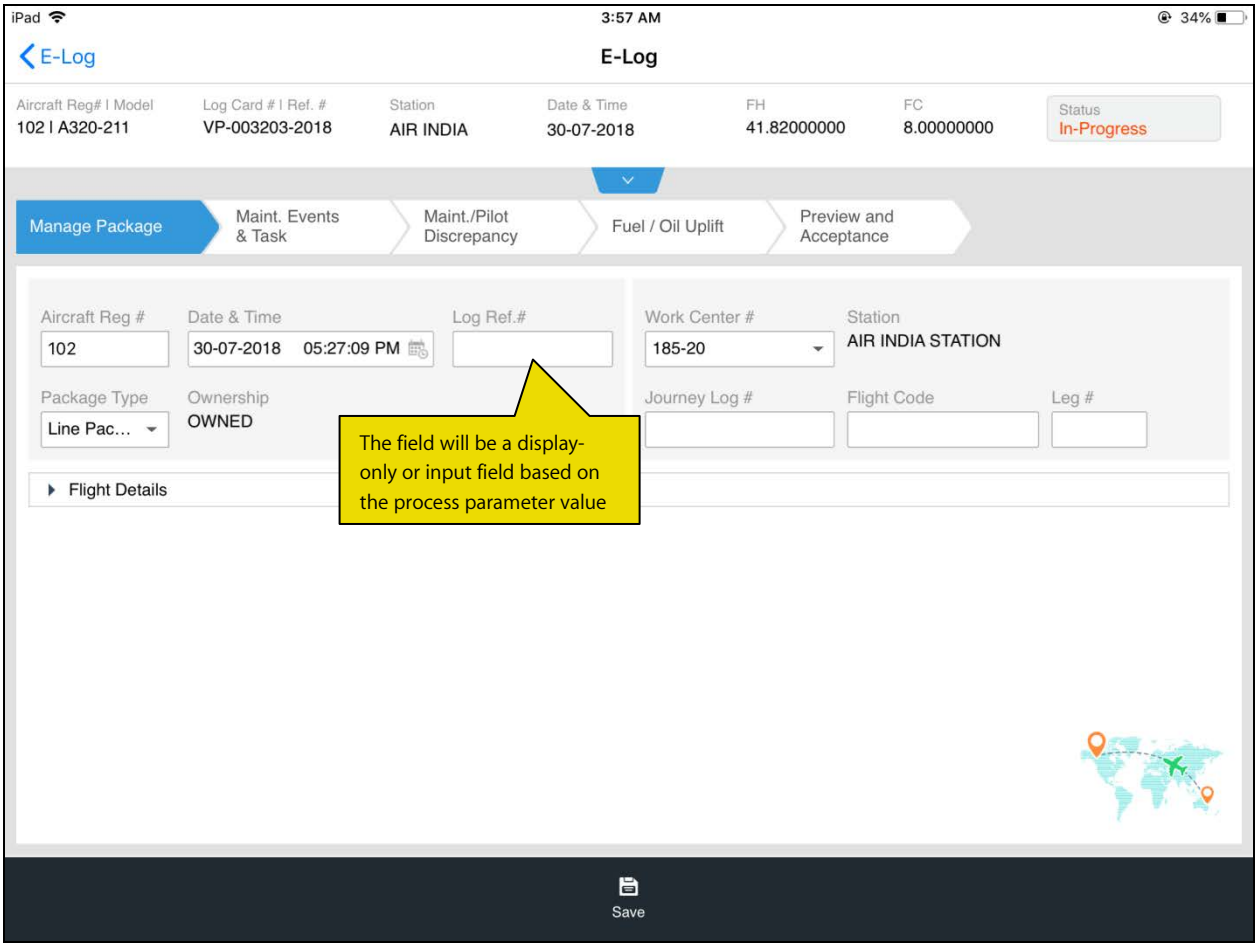


Exhibit 2: The **Manage Package** page



Ability to Limit Same Employee from Signing off as Mechanic/Inspector and RII

Reference: AHBG-21723

Background

As per specific Air Travel regulatory requirement, there are tasks (both Aircraft and Component) requiring independent inspection and hence must be signed off by RII. Further, the regulatory agencies do not allow for the same employee to execute both RII sign off and Mechanic/Inspector sign off of a task/discrepancy. In **MechanicAnywhere**, a provision for exclusive RII sign off by employees must be provided for tasks/discrepancies.

Change Details

As part of this enhancement, the following have been incorporated in **Common Master**:

- New process parameter 'Allow signed off Mechanic/Inspector to sign off as RII for same Task/Discrepancy?' added under the entity type Package Type and the entity Log Card and All-User-Defined package types to allow / disallow an employee from signing off as RII and Mechanic/Inspector for the same task/discrepancy.

Table 1:

Process parameter	Value	Impact on sign off
Allow signed off Mechanic/Inspector to sign off as RII for same Task/Discrepancy?	1	An employee can sign off as both RII and Mechanic/Inspector for the same task/discrepancy
	0	The employee signing off as Mechanic/Inspector cannot sign off as RII for the same task/discrepancy (meaning different employees must perform RII and Mechanic/Inspector sign off)

- New process parameter 'Allow signed off Mechanic/Inspector to sign off as RII for same Task/Discrepancy?' added under the entity Shop Work Order Type, and the entity All User-Defined work order types

Table 2:

Process parameter	Value	Impact on sign off
Allow signed off Mechanic/Inspector to sign off as RII for same Task/Discrepancy?	1	An employee can sign off as both RII and Mechanic/Inspector for the same component task/discrepancy
	0	The employee signing off as Mechanic/Inspector cannot sign off as RII for the same task/discrepancy (meaning different employees must perform RII and Mechanic/Inspector sign off)

As part of this enhancement, the following has been incorporated in **MechanicAnywhere**

- The unique employee RII Sign off will be implemented depending on the value set for the process parameter 'Allow signed off Mechanic/Inspector to sign off as RII for same Task/Discrepancy?' in the following pop up in the MechanicAnywhere application::
    - E-Sign Off

Ability to Display and Save License/Certificate # & Category information during E-Sign Off using Dual Authentication from MechanicAnywhere

Reference: AHBG-25259

Background

On completion of task / discrepancy E-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 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

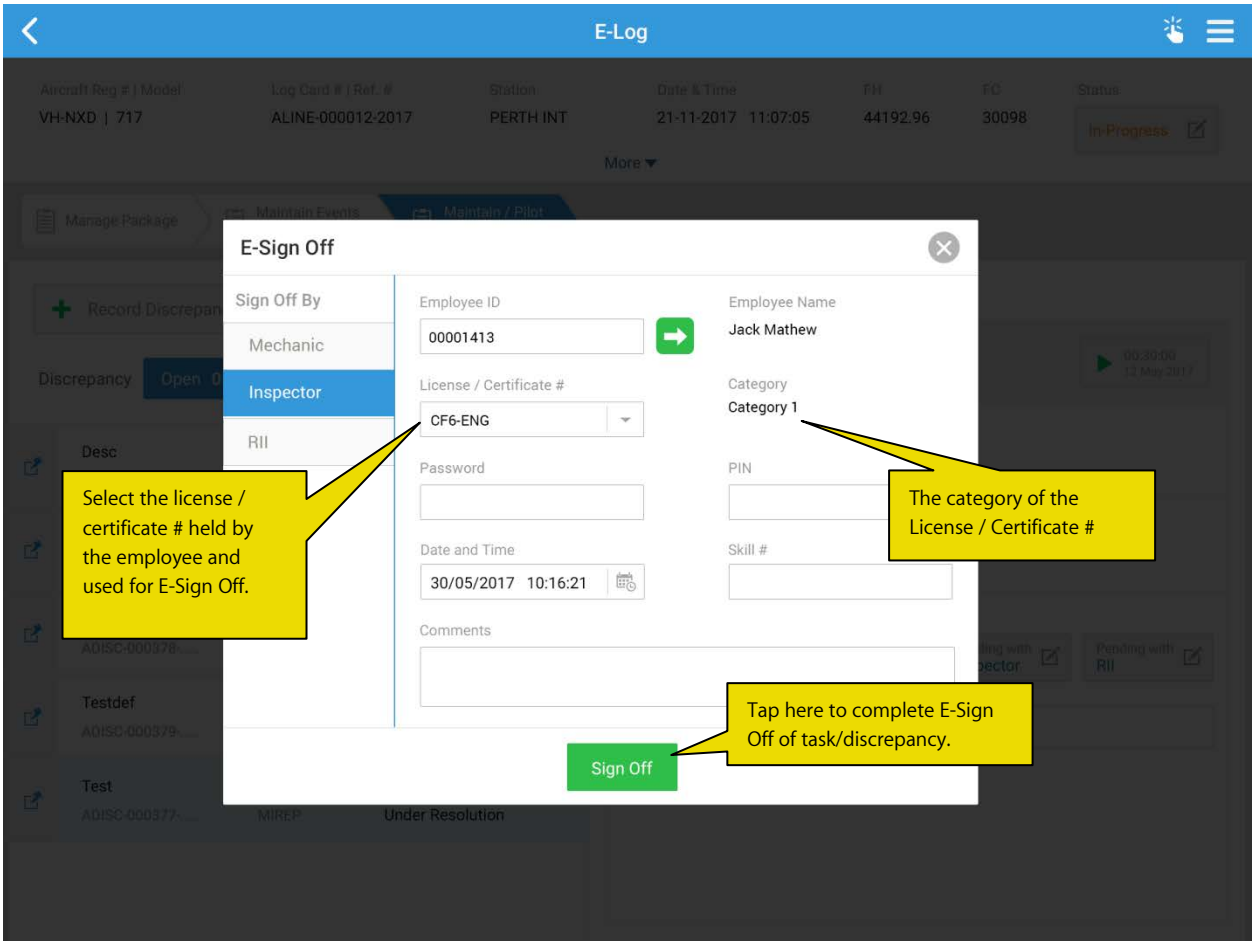
To facilitate review and update of license / certificate details of mechanics / inspectors during sign off, the following developments have been built in the **MechanicAnywhere** screen.

- New fields have been added in the **E-Sign Off** 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?')
    - Employee Name, a display-only field that displays the employee name defined against the employee ID
- On tap of **E-Sign Off** button, the Certificate / License # will be saved against the sub task and/or corrective action.
- 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** to decide whether viewing / updating license / certificate information can happen during sign off.

Process parameter	Value	Impact
Display & Capture License/Certificate information during Task/Discrepancy Sign Off using Dual Authentication?	0 / Not Required	The new fields - **License/Certificate #**, **Category** will not be available in the **User Authentication** / **E-Sign Off** popup during sign off
	1 / License #	Two new fields - License # and Category will appear in the User Authentication / E-Sign Off pop up during sign off
	2 / Certificate #	Two new fields - Certificate # and Category will appear in the User Authentication / E-Sign Off pop up during sign off

- The mechanic who is signing off the task / discrepancy can enter the employee ID and then tap the  button to fetch the details of the Employee ID.
- If the process parameter is set to 1 or 2, the **License / Certificate #** drop-down list box and the **Category** field appear in the **E-Sign Off** 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 licenses / certificates for **Employee ID** taking into consideration the skill code required for E-Sign Off.
- The **Category** field displays the category of the **License** / **Certificate #**.

Exhibit 1: The **E-Sign Off** popup in **MechanicAnywhere**



Ability to update Parameters for Aircraft & Components from MechanicAnywhere

Reference: AHBG-25652

Background

In Aircraft maintenance, certain additional information including Hobbs Time, Engine Hours and Engine Cycles are recorded prior to maintenance of an aircraft or a component. These details are required to be shown in invoices for customer billing. Hence, a provision to capture the parameters of aircraft & components must be incorporated in **MechanicAnywhere** so that the same information flows to the invoicing process.

Change Details

The following changes have been incorporated in the **Manage Package** tab of **E-Log** to allow the users to record additional information:

- New **Additional Information** popup has been introduced in the **Manage Package** tab. However, this section is optional and its availability depends on the value set for the process parameter **'Show Additional Information section in Manage Package tab of eLog screen?'**
- New process parameter '**Show Additional Information section in Manage Package tab of eLog screen?**' has been added under the entity type Mobility and the entity MechanicAnywhere in the **Define Process Entities** activity of **Common Master** to enable users to record additional information.

Process parameter: 'Show Additional Information section in Manage Package tab of eLog screen?'	
Value	**Impact in the Manage Package tab**
0 / No	The Additional Information section will not be visible
1 / Yes	The Additional Information section will be visible

Additional Information section details

- The Additional Information section will have two sections:
  - Aircraft
  - Component
- The Aircraft section will comprise of the following display-only columns:
  - Parameter: This column lists all the valid parameters defined in the Aircraft component
  - Value: Displays blank
  - Remarks: Displays recorded remarks
- The Component section will comprise of the following display-only columns:
  - Part #
  - Serial #
  - Position Type
  - Parameter Details
  - Remarks

Additional Information – Aircraft popup details

- The users can tap the  icon in the **Aircraft** section to open the **Additional Information – Aircraft** popup.
- The pop up will fetch and display all the parameters defined against the Aircraft
- The popup displays the following display-only columns:
    - Parameter
    - Current Value
    - The user can tap on Default Icon placed adjacent to the Current Value to default the value in the Edit Value column
- The users can input the value for the parameter in the Enter Value column.
- The Remarks input field captures the user remarks on a parameter
- To add a parameter to the aircraft, select the parameter from the **Parameters** drop-down list box and then tap the  icon
- The  icon appears alongside those parameters that have been manually added
- Select the **Submit** button to save the parameter details

Additional Information – Component popup details

- On tap of the  icon in the Component section, the Additional Information – Component popup.
- The users can search and retrieve parameters based on following filters
    - First field will list following values 'Position Type', 'Part #', 'Serial #', and 'Parameters'
    - Second field will display and the control modification will happen based on the option chosen in the first field of filter by
- Users can enter the Part # , Serial #, and select the Position Type and Parameters from the dropdown in the next section
- On tap of  icon, the entered Part # , Serial #, selected Position Type, Parameter will be added in the multiline
- The  icon appears alongside those parameters that have been manually added
- On launch of Component pop up, the system will automatically retrieve the parameters defined against the first level configuration positions defined against an Aircraft.
- The user can tap on Default Icon placed adjacent to the Current Value to default the value in the Edit Value column
- The Remarks field will capture the users remarks of a parameter
- Select the **Submit** button to save parameter details

Exhibit 1: The **Manage Package** tab of **E-log**

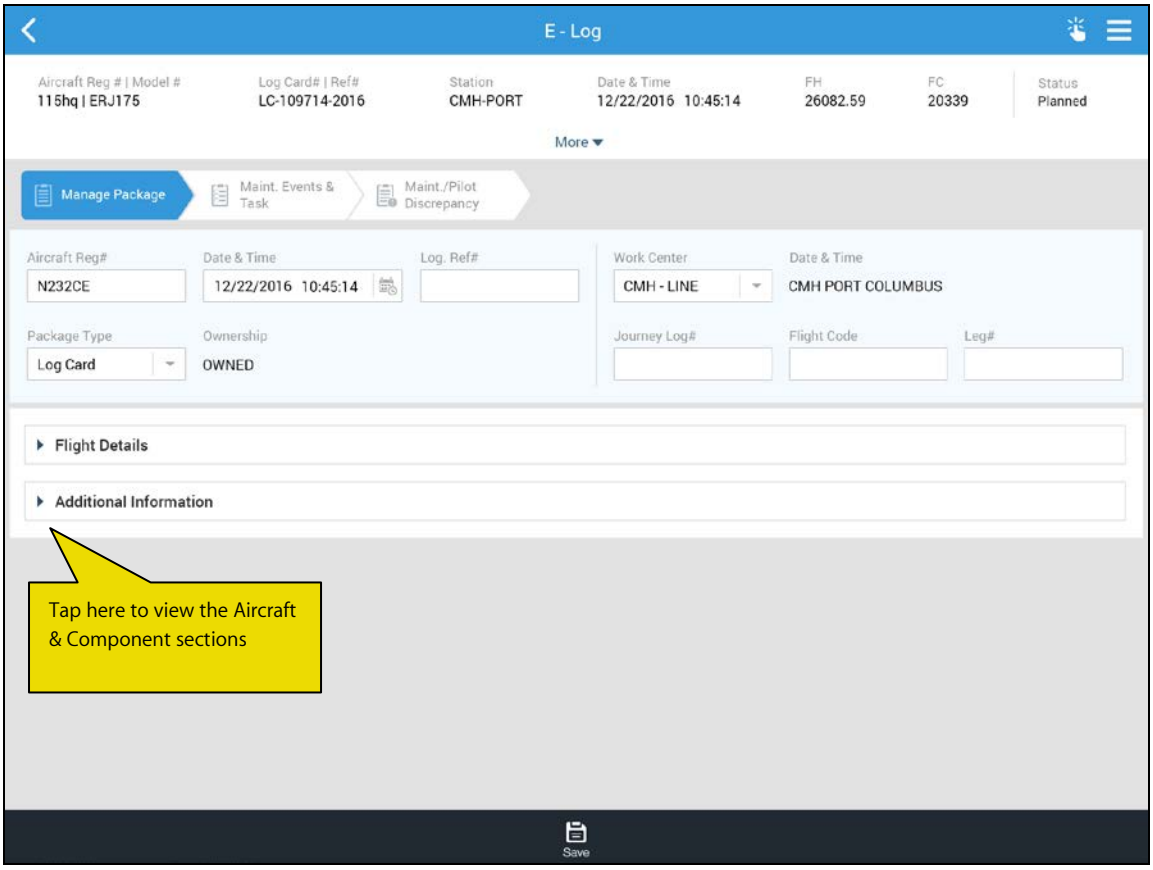


Exhibit 2: The **Additional Information** section in the **Manage Package** tab of **E-log**

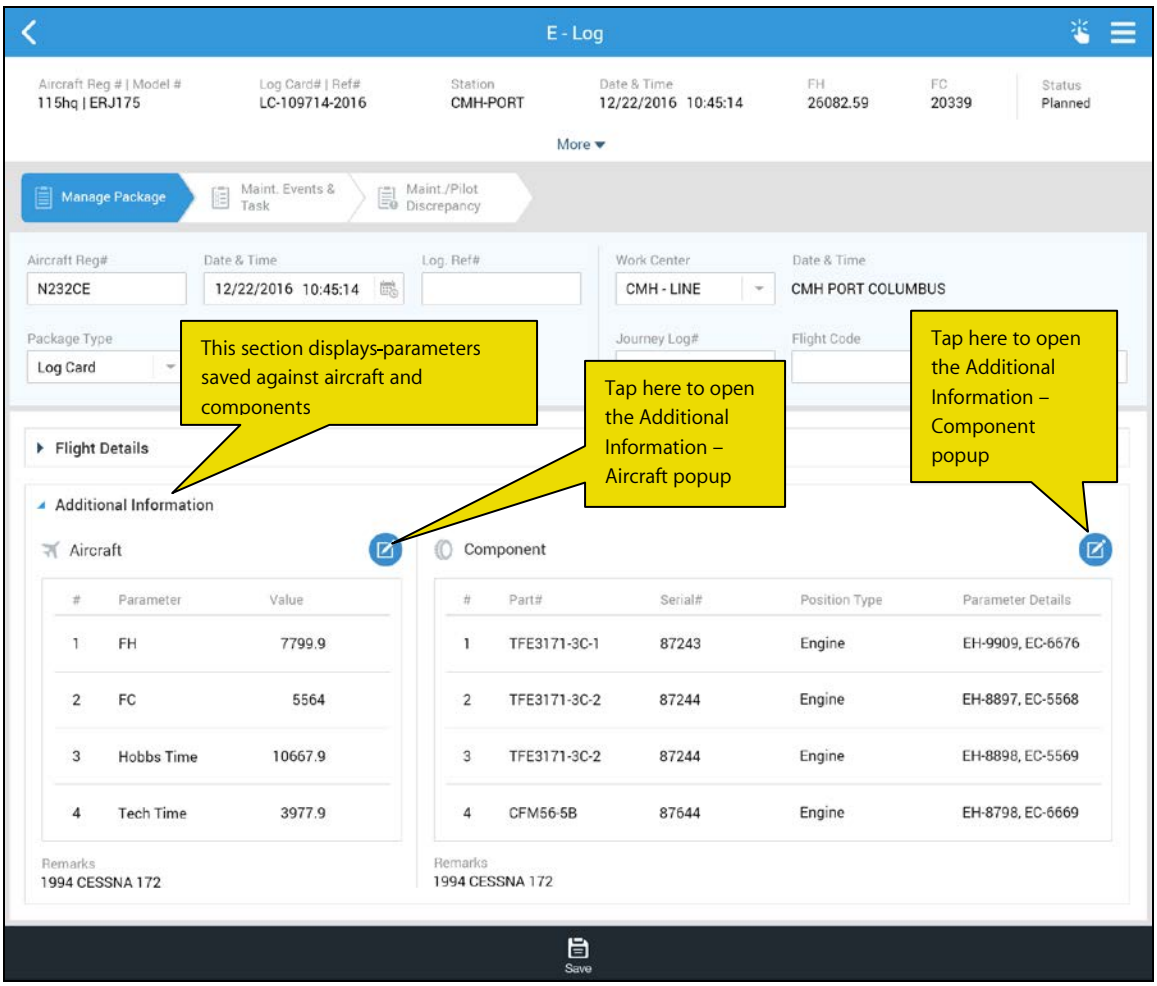


Exhibit 3: The **Additional Information – Aircraft** popup in the **Additional Information** section

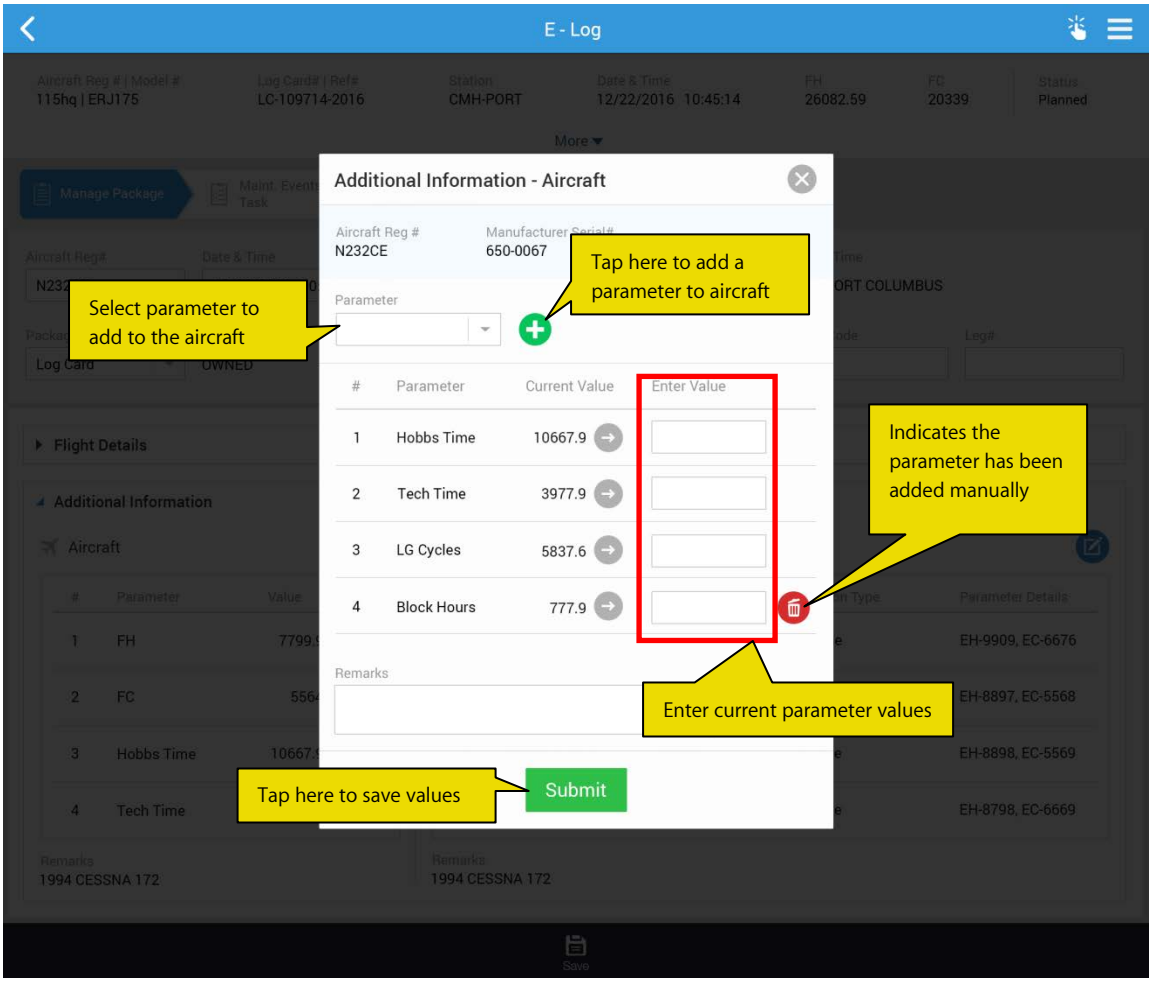
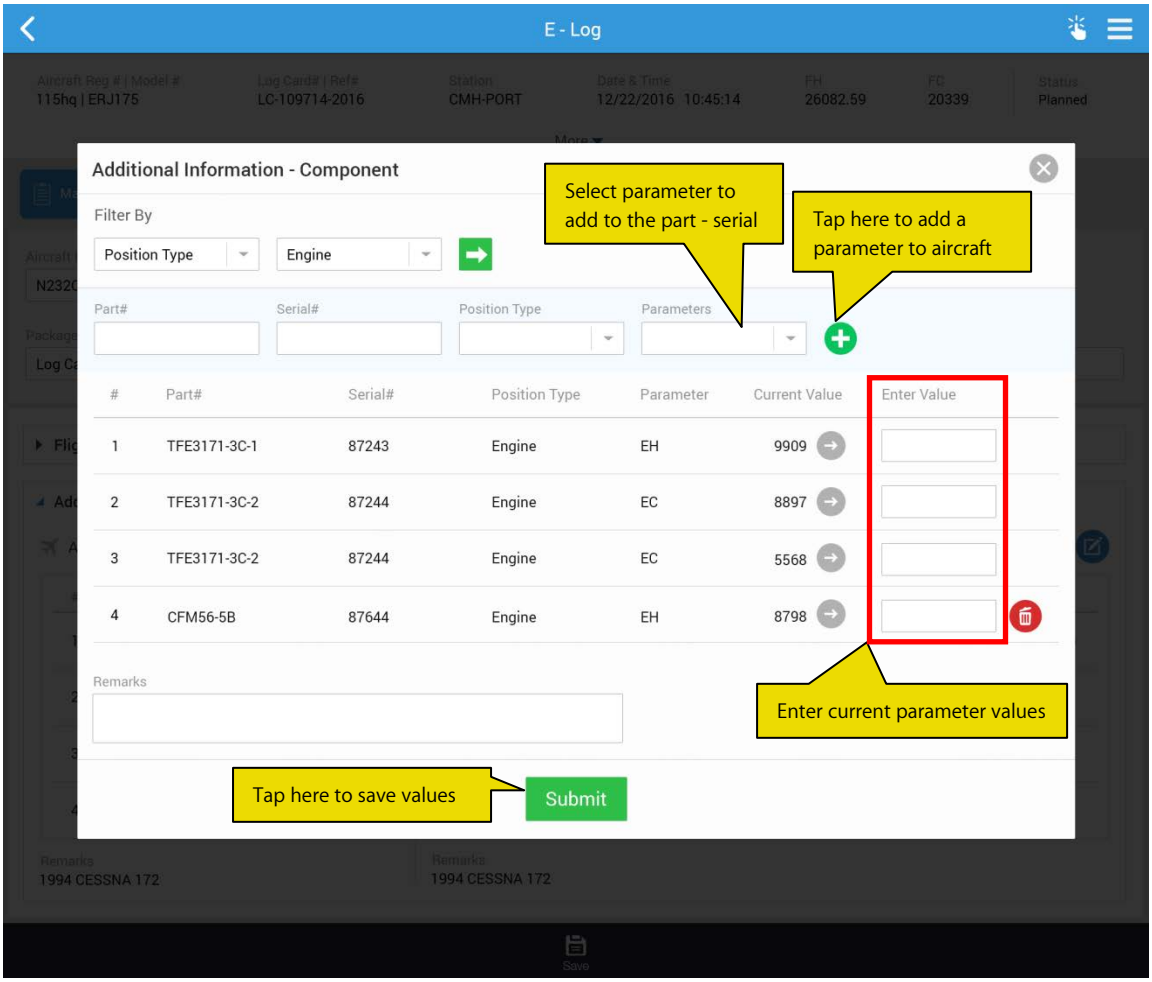


Exhibit 4: The **Additional Information – Component** popup in the **Additional Information** section



Ability to use multiple search criteria to search for discrepancies in the Discrepancy List screen

Reference: AHBG-25578

Background

In **MechanicAnywhere**, the mechanics might search for the discrepancies based on Aircraft Reg # and ATA # as additional search to retrieve more precise discrepancies. The following fields - ATA #, Log Item #, Discrepancy # / Desc are already available in the Primary Search section. Further, the users may also want to retrieve the discrepancies based on the Reported From and Reported To dates. Hence, the search facility has been enhanced in the Advanced Search section of Discrepancy List screen with new filters.

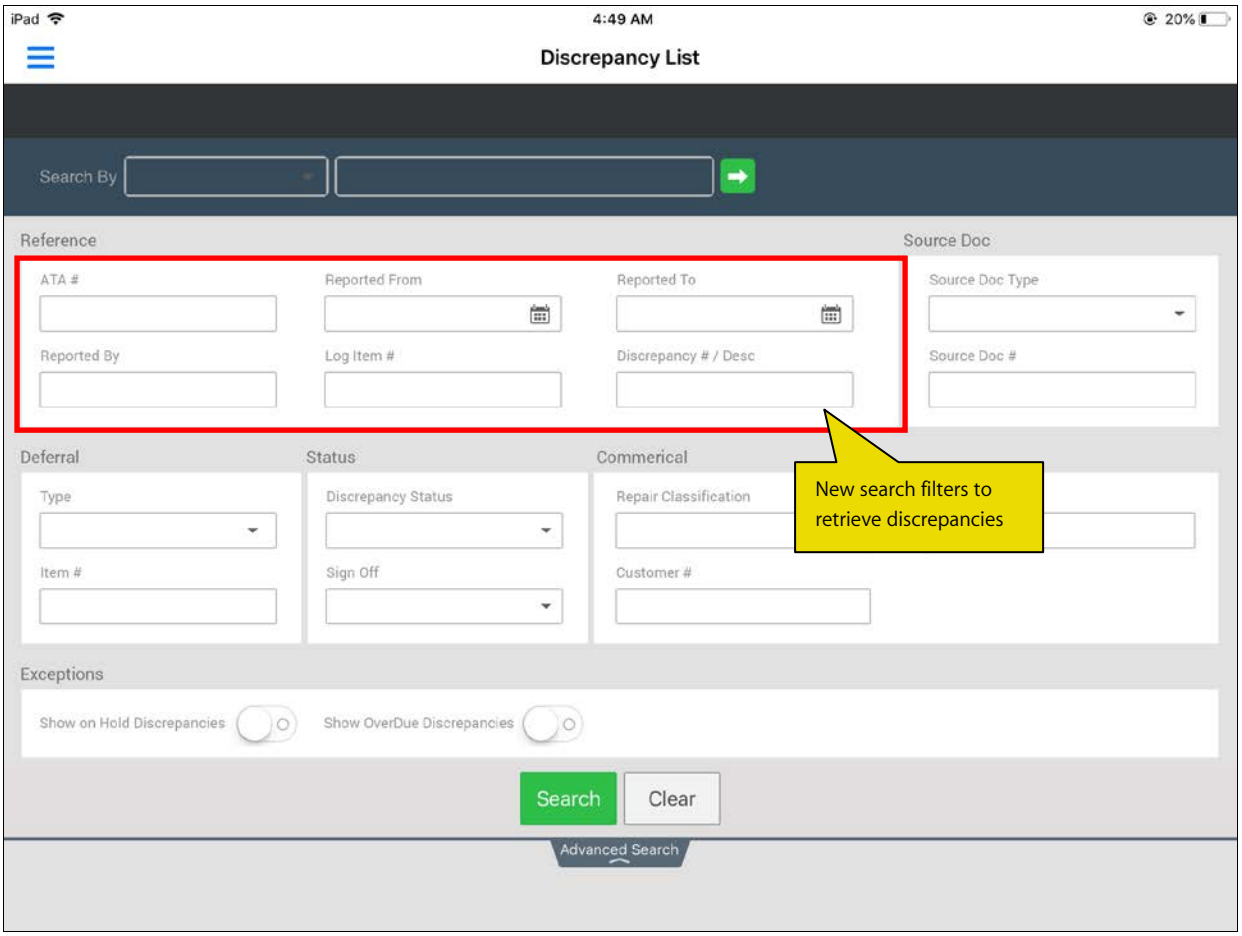
Change Details

The Search feature in the **Discrepancy List** screen will be enhanced in the following way to enable users to find and retrieve discrepancies based on multiple criteria:

- Advanced Search criteria will now include these additional filters:
    - **ATA #**
    - **Reported From**
    - **Reported To**
    - **Log Item #**
    - **Discrepancy # / Desc**

Note: If the user has specified different ATA # under both the Search By and Advanced Search sections, the system will not consider any of the ATA # for search and retrieval of discrepancies.

Exhibit 1: The **Discrepancy List screen** in **E-Log**



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.

WHAT'S NEW IN LineAnywhere?

Ability to retrieve Packages in Planned status in LineAnywhere from Online application

Reference: AHBG-24325

Background

Typically, the aircraft involved in tourism or special operations such as firefighting, log lifting, etc. visit/halt for several days in remote locations where internet connectivity is poor or almost nil. In such a scenario, aircraft mechanics can make use of the pause time to perform/track maintenance activities planned earlier in the online mode. Currently, the LineAnywhere mobile application supports creation of work packages in offline mode for maintenance execution. However, a provision to enable offline users to load packages created in the online desktop Ramco Aviation system to the iPad device to be able to execute packages earlier planned in the desktop **Ramco Aviation** system must also be built in the system.

Change Details

In order to facilitate the offline mode execution of packages that were earlier planned in the online mode, the following features have been incorporated in LineAnywehre:

- New **Load Package** button has been added in the four tabs of **Load Device** screen of **LineAnywhere** to enable loading of packages created in the online **Ramco Aviation** suite from all the tabs:
    - All Assigned
    - Assigned to Me
    - All Inbound
    - Manual
- The **Load Package** button appears only if aircraft have been successfully loaded to the offline device against the Load Ref #.
- On tap of **Load Package** button, the **Load Device** appears with two tabs: **All Package** and **My Package**.
- The first and the default tab **All Package** displays the list of work packages which were earlier created / planned in the online application against all the loaded aircraft.

- The users can select the packages in the **All Package** tab and then tap the **Refine Package** button to load the planned packages to the offline device. The users can then traverse to the **My Package** tab to view the packages that have been successfully loaded to the offline device and can now be executed by the login user
- On successful loading of the package to the device, the system sets the 'Mode of Usage' flag as 'Offline' for the packages loaded into the offline database of **LineAnywhere**. The following key data are loaded into the device:
    - Package Info
    - Task Info
    - Discrepancy Info
    - Component Replacement Info (Restoration CR, Saved CR)
    - Part Requirements of Task and Discrepancies
    - Task Parameter Info
    - Sign Off Requirements
- The users can tap the **Clear Device** button to delete the **Load Ref #** & all associated data captured against the **Load Ref #** from the device
- On tap of the loaded package in the **My package** tab in the **Load Device** page, the users are automatically transported to the **Manage Package** tab of the **E-Log** screen
- The system marks the package as Offline once a package is loaded into offline device (i-pad) and makes the package unavailable in any other offline device. Further, such offline packages cannot be executed by the users in the following screens of the online Ramco Aviation suite:
    - Record Aircraft Maintenance Execution Details
    - Work Reporting Hub
    - Parts Hub
    - Manage Work Assignments and Reporting
    - Record Part Consumption and Return
    - MechanicAnywhere
- Once the work package execution is complete, the mechanic can transfer the package to the online database of the desktop Ramco Aviation system using the **Transfer Work Package** activity in offline LineAnywhere application. On validation of the package in this activity, the 'Mode of Usage' flag is set to 'Online' thus allowing the package to be processed further in the desktop application.

Mandatory conditions for loading packages to LineAnywhere: However, the system will list / allow packages to be loaded from the online system to the offline device only if the following conditions are satisfied:

- The status of the packages against the loaded aircraft must be 'Planned'
- The work center for execution of the planned package must be associated to the station pre-defined for the offline device
- No material requests must be available against the packages
- None of the tasks in the package must be in the Hold status

- The process parameter 'Allowed for offline operations?' under the entity type Package Type and the entity Log Card, User Defined values in the **Define Process Entities** activity of **Common Master** must be set as Yes / 1. However, the system does not allow loading of planned packages from the online system to the offline device, if the process parameter is set as No / 0.

Exhibit 1: The **Load Device screen** in **LineAnywhere**

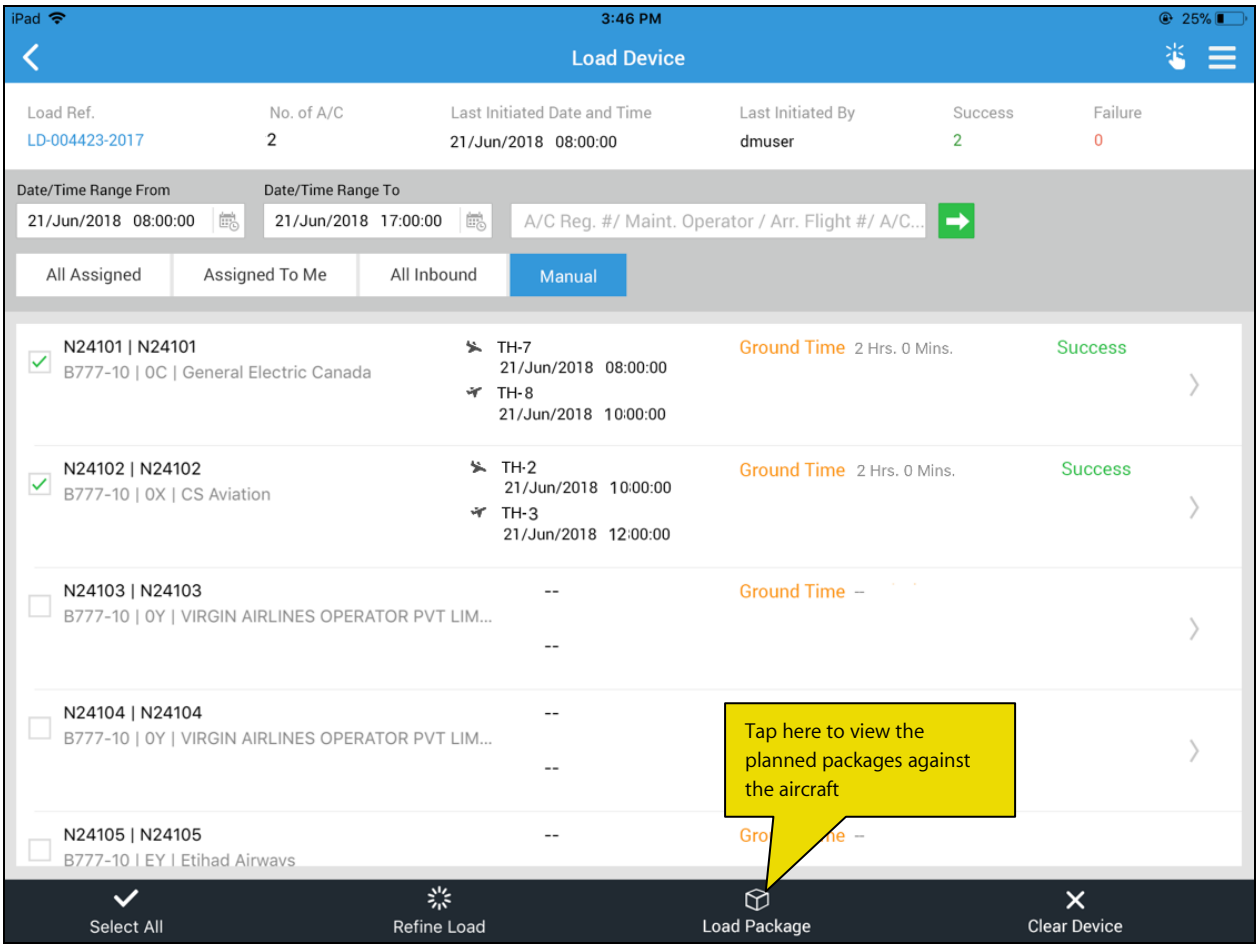


Exhibit 2: The **Load Device** page with the package list

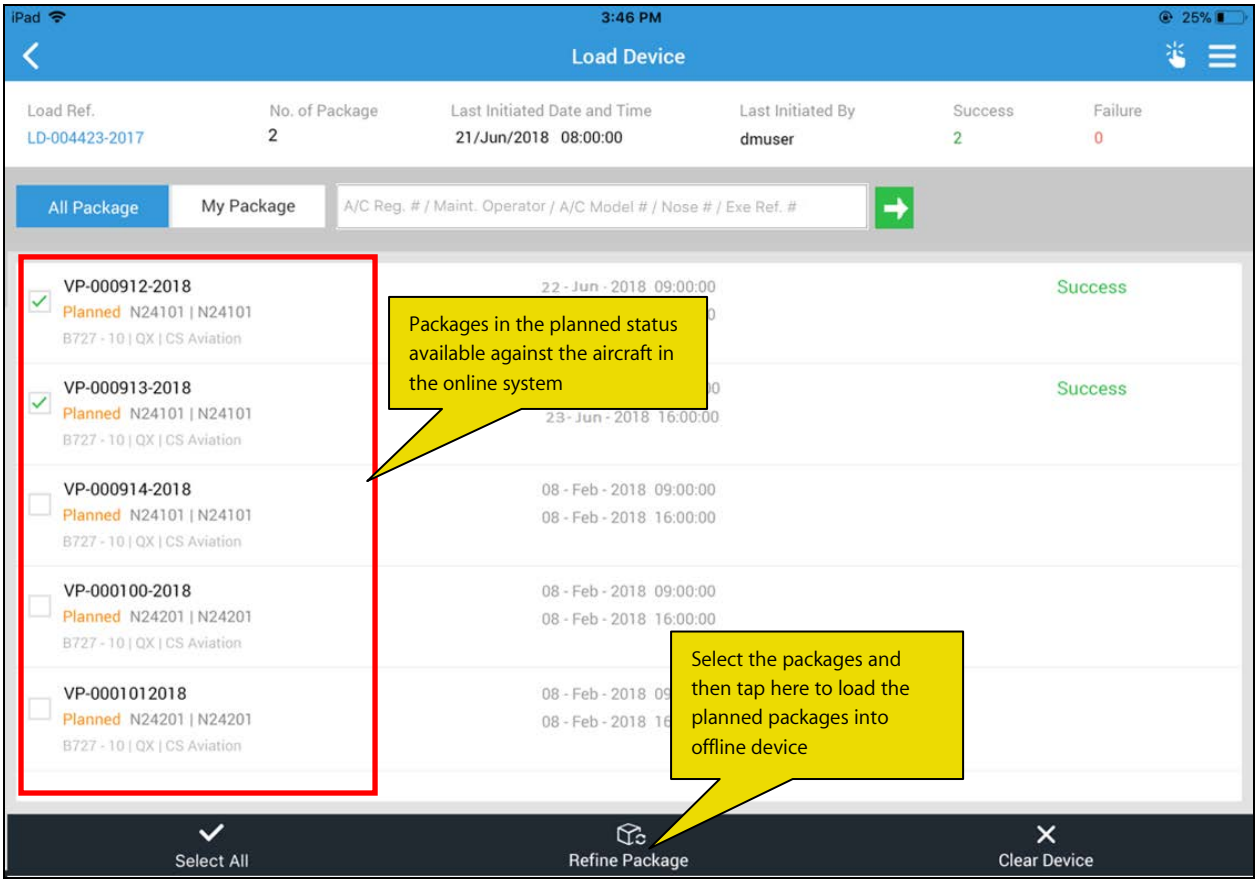
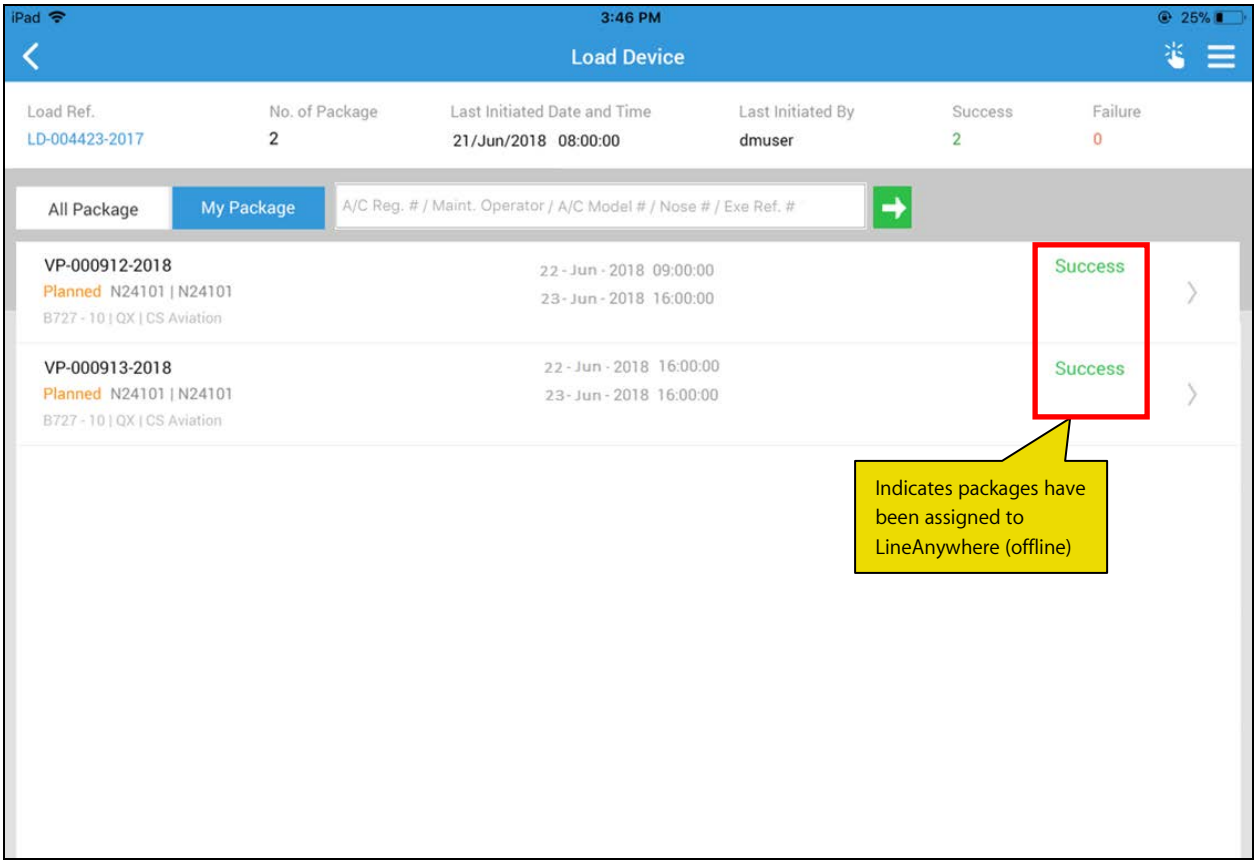


Exhibit 3: The **Load Device** page with associated package list



Ability to Inquire the Stock Availability in LineAnywhere

Reference: AHBG-27903

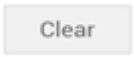
Background

The **LineAnywhere** offline mobile application facilitates mechanics to perform aircraft maintenance in remote areas that are not connected to the world by means of internet. In such areas, warehouses are maintained in trucks and the mechanics request for parts from these trucks for component replacements. These trucks are effectively warehouses with storage mechanisms similar to the online warehouses of the desktop **Ramco Aviation** suite. Hence, the offline mechanics must be empowered to inquire availability of parts in these truck warehouses essential for the execution of maintenance tasks.

Change Details

In order to facilitate aircraft mechanics to query stock availability offline, the following developments have been built in the **LineAnywhere** application:

- New screen **Stock Enquiry** added to the left pane
- The **Stock Enquiry** screen when invoked from the left pane comprises of a **Simple** search, an **Advance** search and the **Part List** (Search Results) section.
- The users can search and retrieve parts based on Part # and Mfr. Serial # / Lot # in the **Simple** search. The Part # filter in the Simple search is enabled with Smart Search. The users can tap  to retrieve the parts available against the Serv. Request warehouses of the Default Work Center set in the **Set Preferences and Load Device** screens.
- Additionally, the **Advance search** offers various storage attributes as criteria for more precise and rapid retrieval of part availability information. To display parts available against various storage attributes that match the search criteria, the users can tap on the 

button. Tapping on the 

button will clear the user input in the search fields and paves the way for the users to enter new search criteria. The **Advance search** criteria by default remains collapsed. The users can expand the section by tapping on the down arrow. The users can now search and find stock levels of parts on the basis of warehouse attributes (Warehouse #, Zone #, Bib # and Stock Status) and Storage attributes (Mfr. Serial/Lot #, Condition, Trading Partner Type and Trading Partner #)
- For parts matching the Simple / Advance search criteria in the **Stock Enquiry** screen, the **Part List Details** section displays the available quantity of the part in the specified warehouse or the Serv. Request warehouse of the default work center defined in the **Save Preferences** & **Load Device** screens
- New icon  to launch the **Stock Enquiry** screen has been added in the **Component Replacement** screen and the **View Part Requirements** popup to show the available quantities of the parts. However, the **Stock Enquiry** screen launched from the **Component Replacement** screen and the **View Part Requirements** popup does not offer the **Simple** search option. The page on launch displays the stock availability for the part in context. For

further search, the users can specify the **Advance s**earch criteria

- New process parameter 'Load warehouse stock information on pre-load of device?' has been added under the entity type Mobility and the entity LineAnywhere in the **Define Process Entities** activity of **Common Master** to allow the loading of warehouse stock information on to the **LineAnywhere** offline database at the time of preloading the **LineAnywhere** device.

Process Parameter: Load warehouse stock information on pre-load of device?	
Process Parameter Value	**Impact**
1 for Yes	• The following data is copied to the offline database (built by Load Scheduler) from the Serviceable Request warehouse of the default work center set in the **Set Preferences and Load Device popup** screen - Warehouse #, Zone #, Bin # - Part # - Part Description - Serial #/ Mfr. Serial # - Lot #/ Mfr. Lot # - Available Qty. - Stock Status - Condition - Expiry Date - Trading Partner Type & Trading Partner #/ Name • The  icon displays in the **Component Replacement** screen and the **View Part Requirements** popup
No for 0	• The system does not copy stock details into offline tables from the Serviceable Request warehouse at the time of loading the device in LineAnywhere. As a consequence, the  icon will not be available in the **Component Replacement** screen and the **View Part Requirements** popup

Exhibit 1: The **Dashboard** screen in **LineAnywhere**

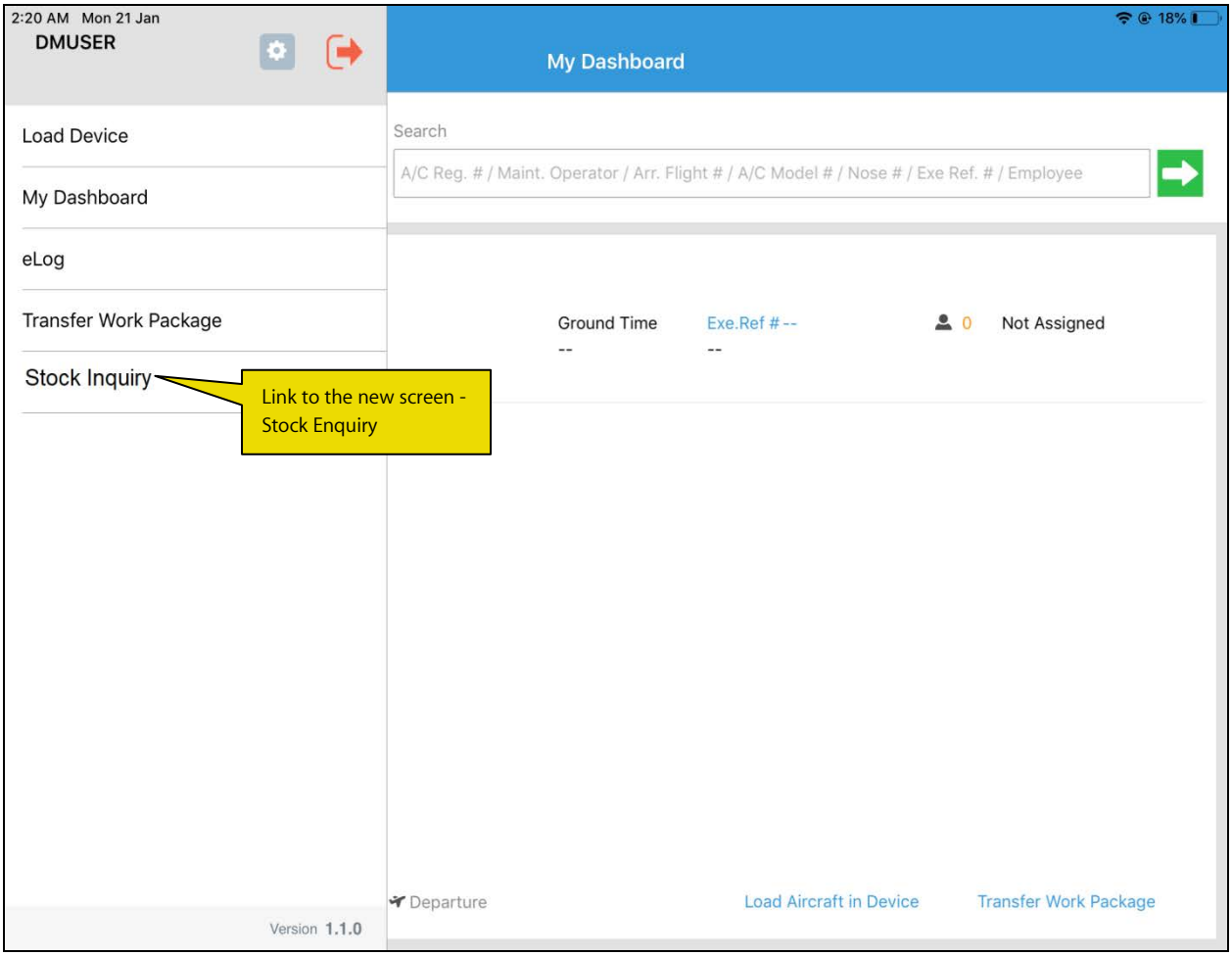


Exhibit 2: The **Stock Enquiry** screen invoked from the left pane of **LineAnywhere**

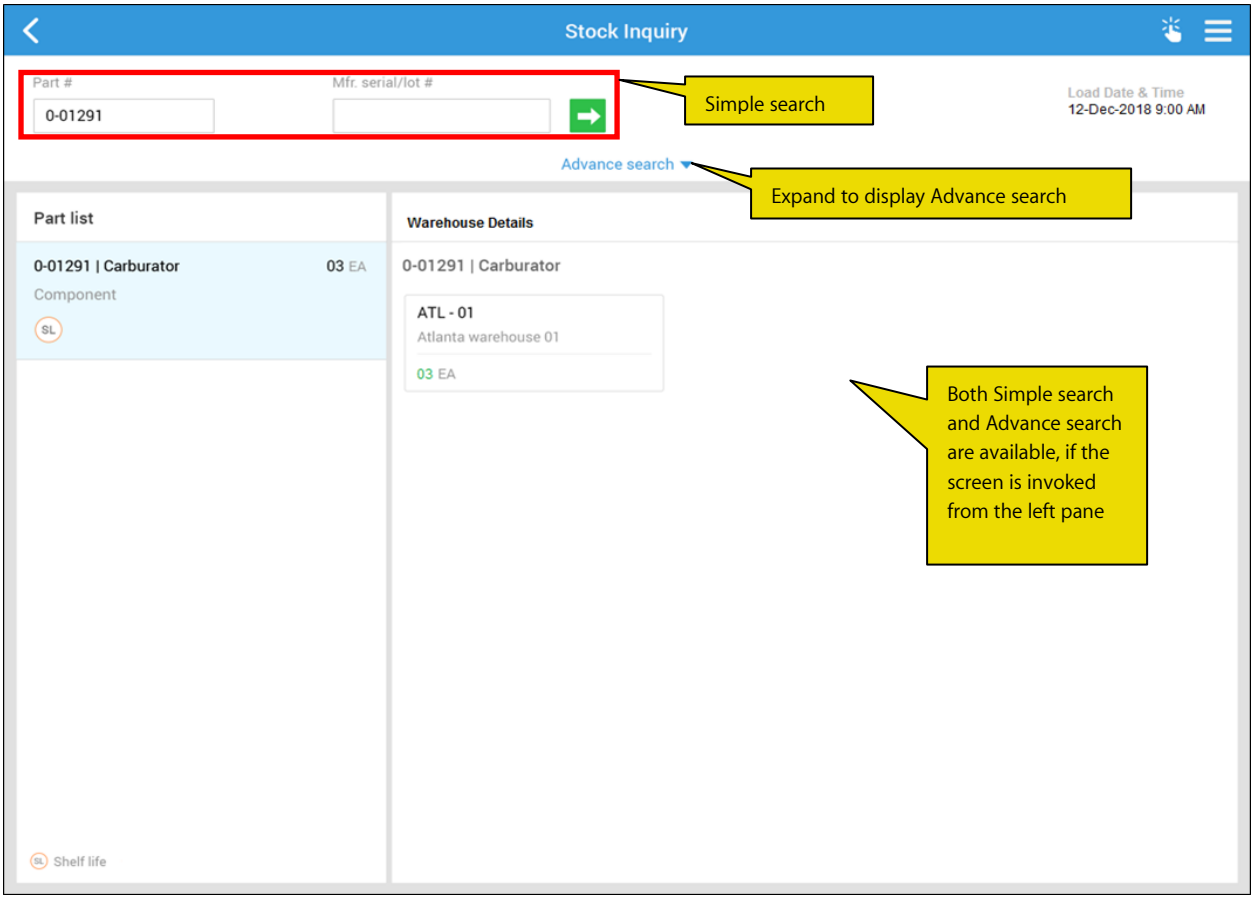


Exhibit 3: The **Stock Enquiry** screen invoked from the left pane of **LineAnywhere** with expanded **Advance** search

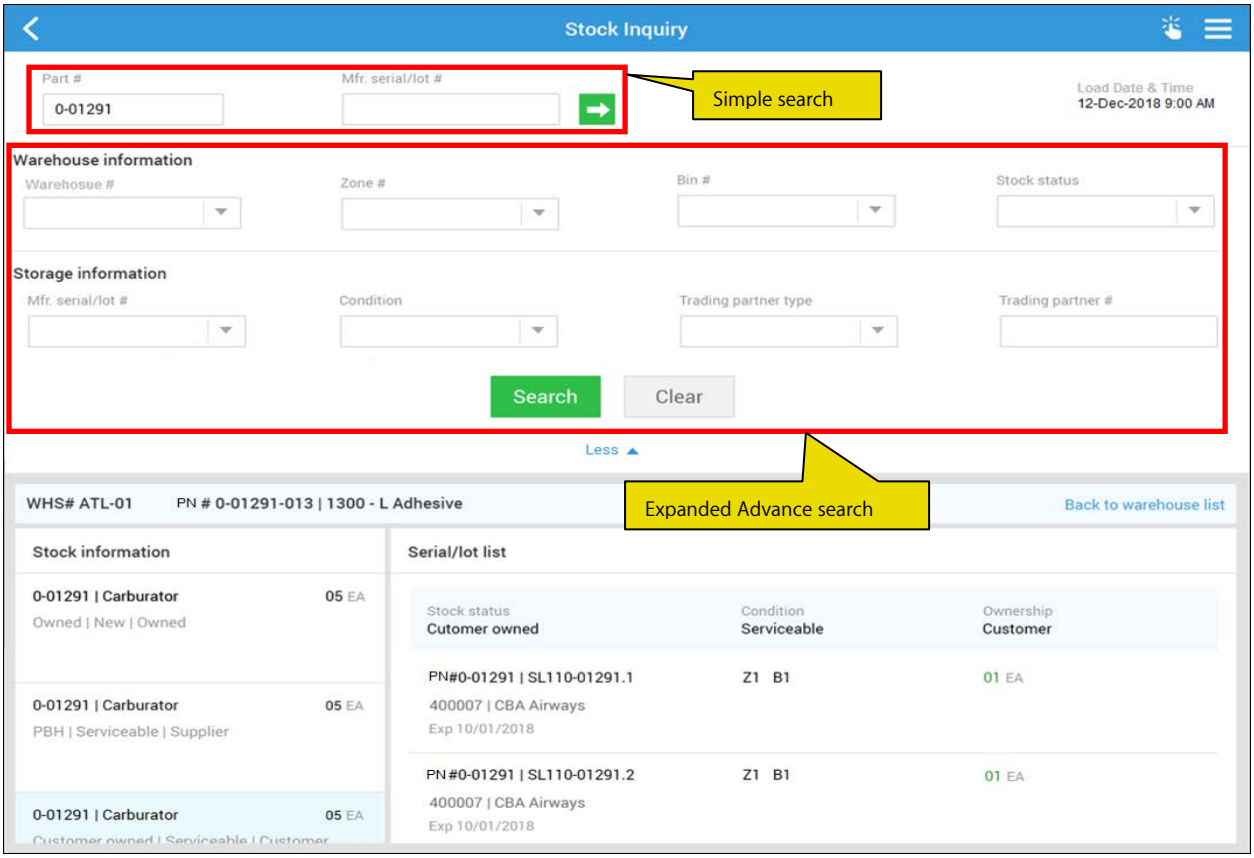


Exhibit 4: The link to the **Stock Enquiry** screen from the **Component Replacements** screen

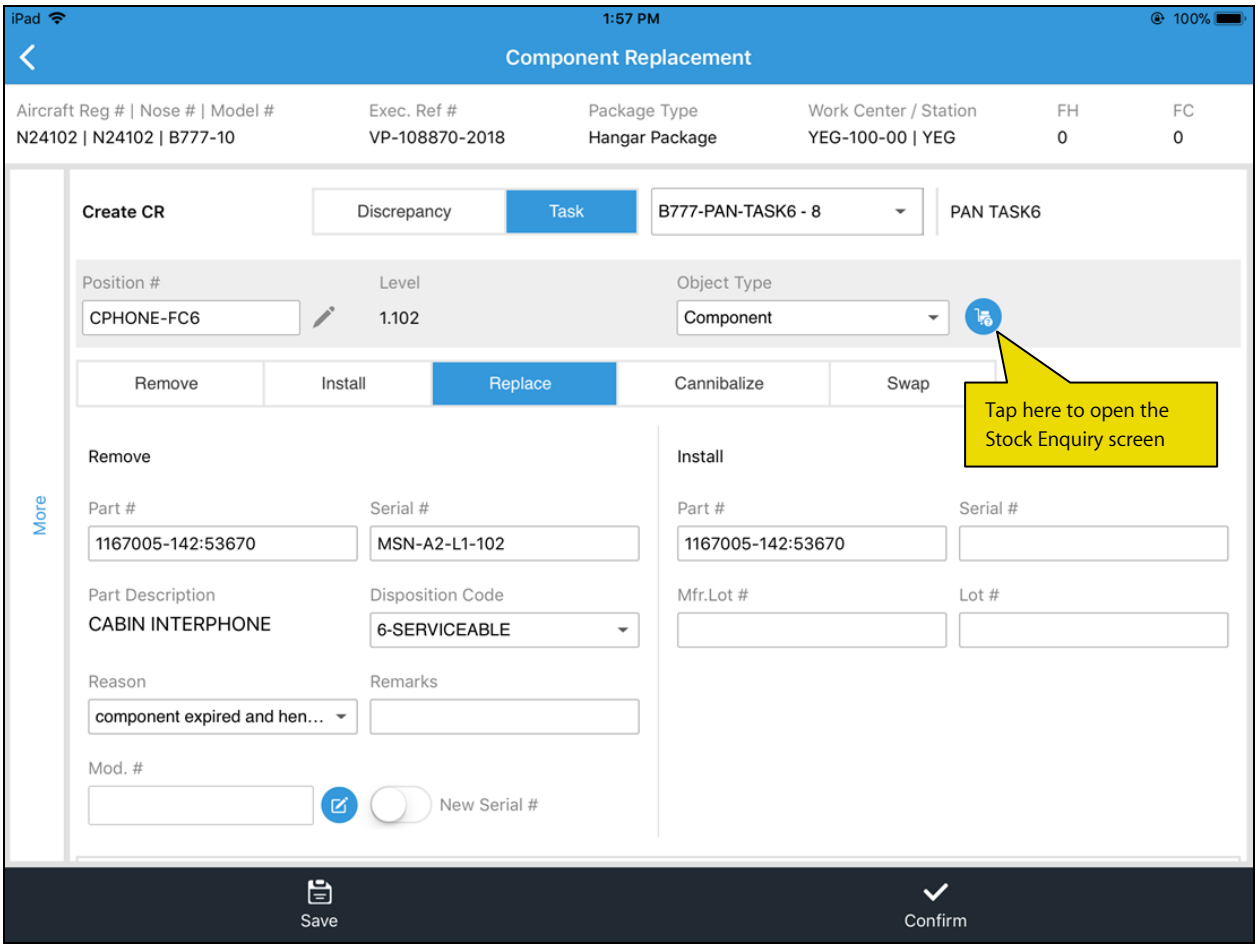


Exhibit 5: The link to the **Stock Enquiry** screen from the **View Parts Requirements** screen

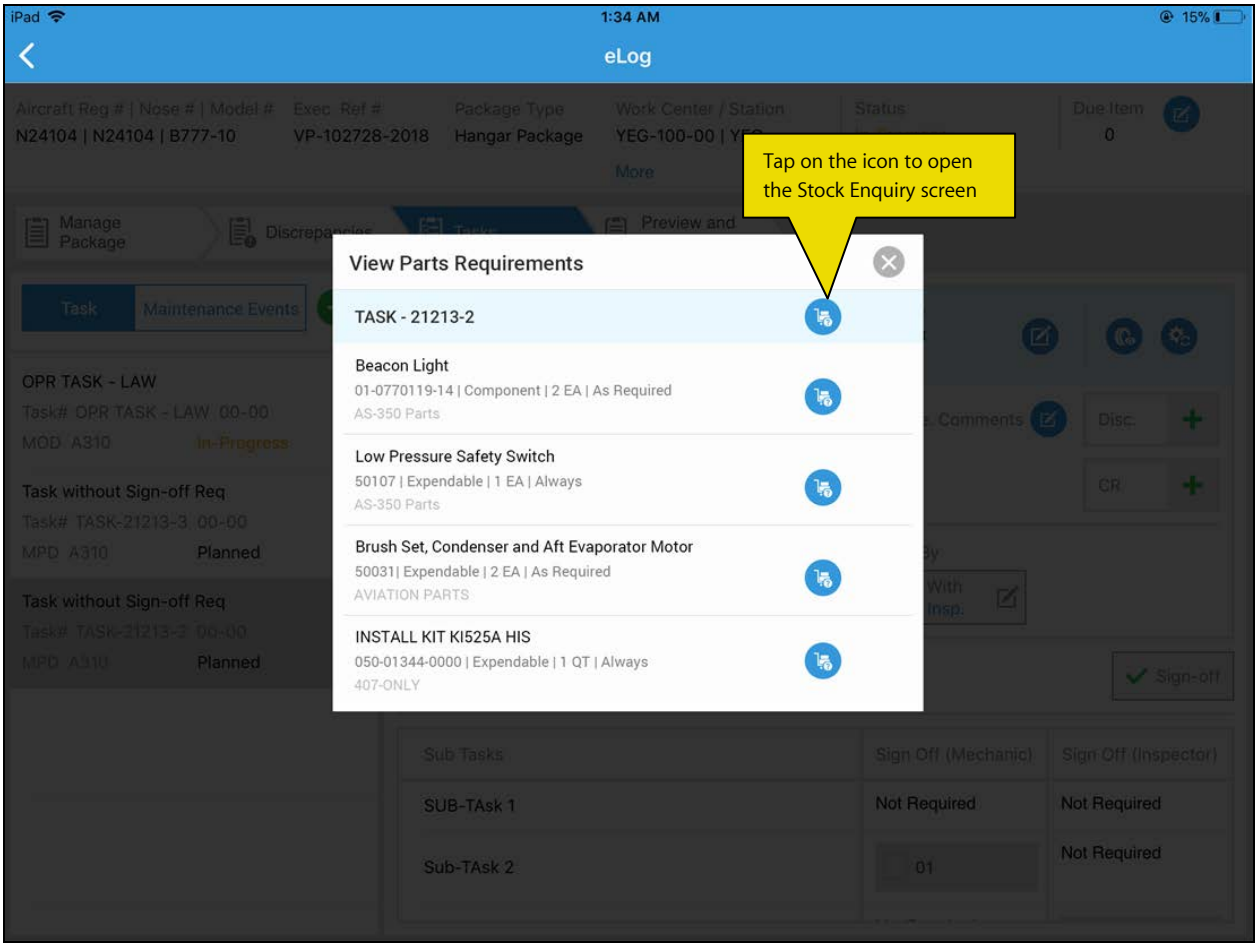


Exhibit 6: The **Stock Enquiry** screen invoked from the **Component Replacements** and **View Parts Requirements** screens

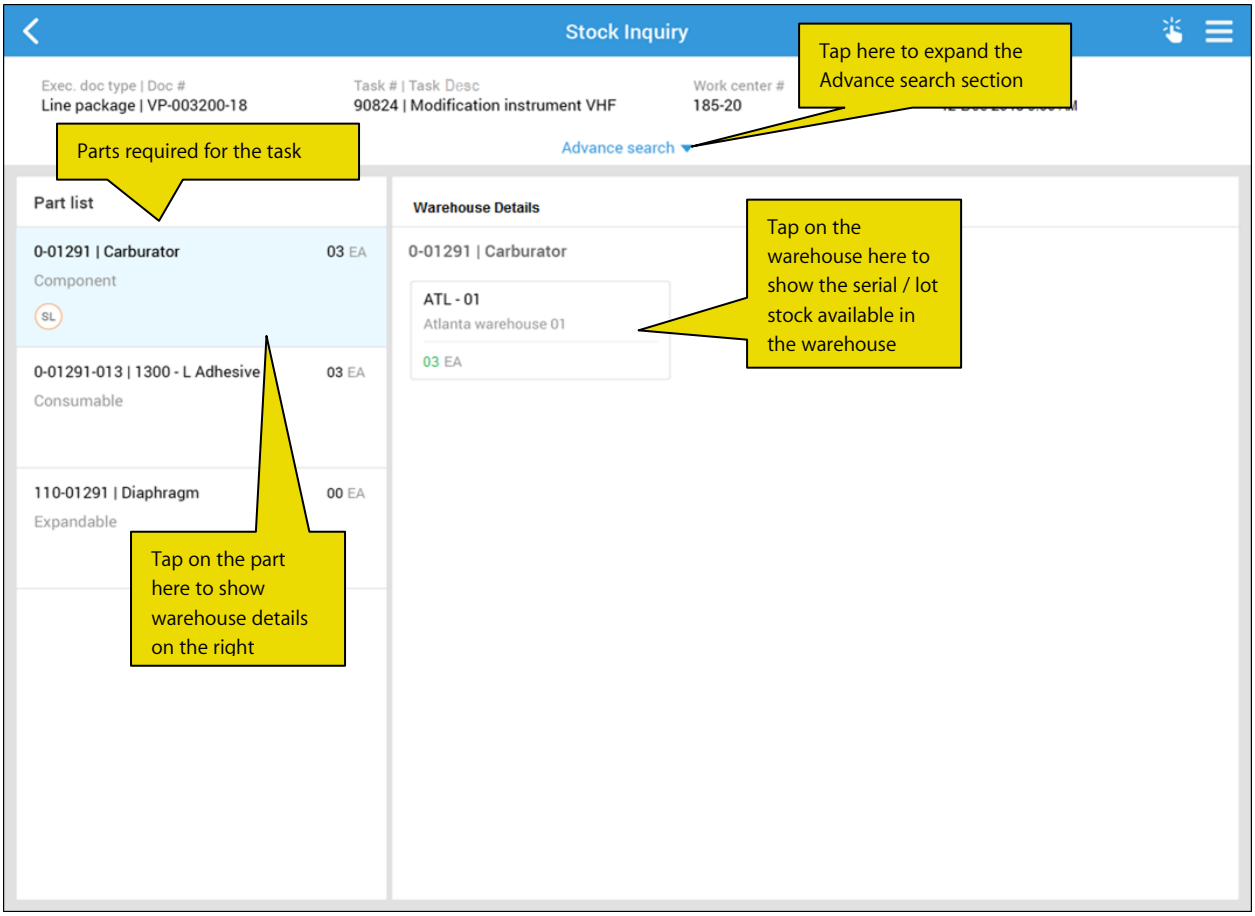


Exhibit 7: Stock availability in the warehouse

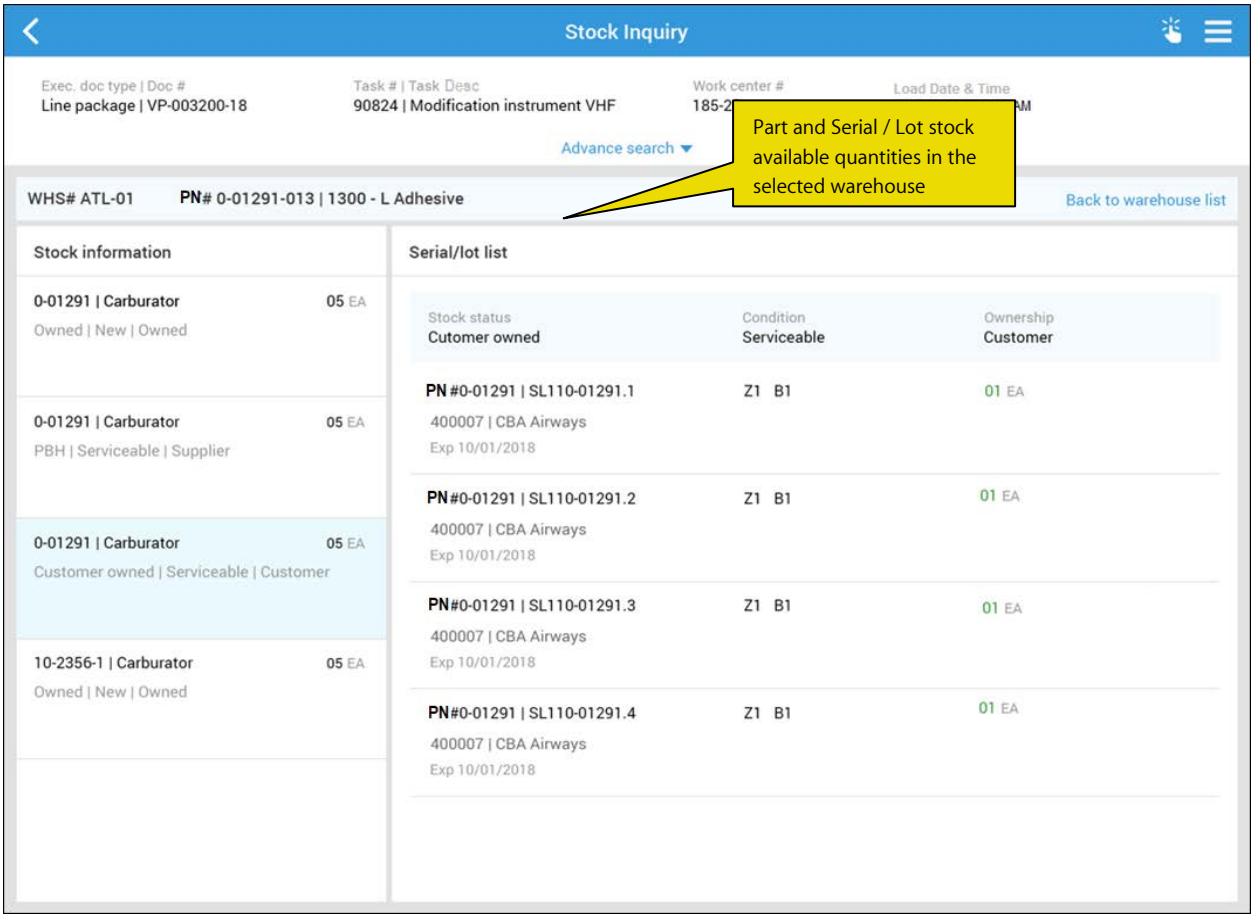
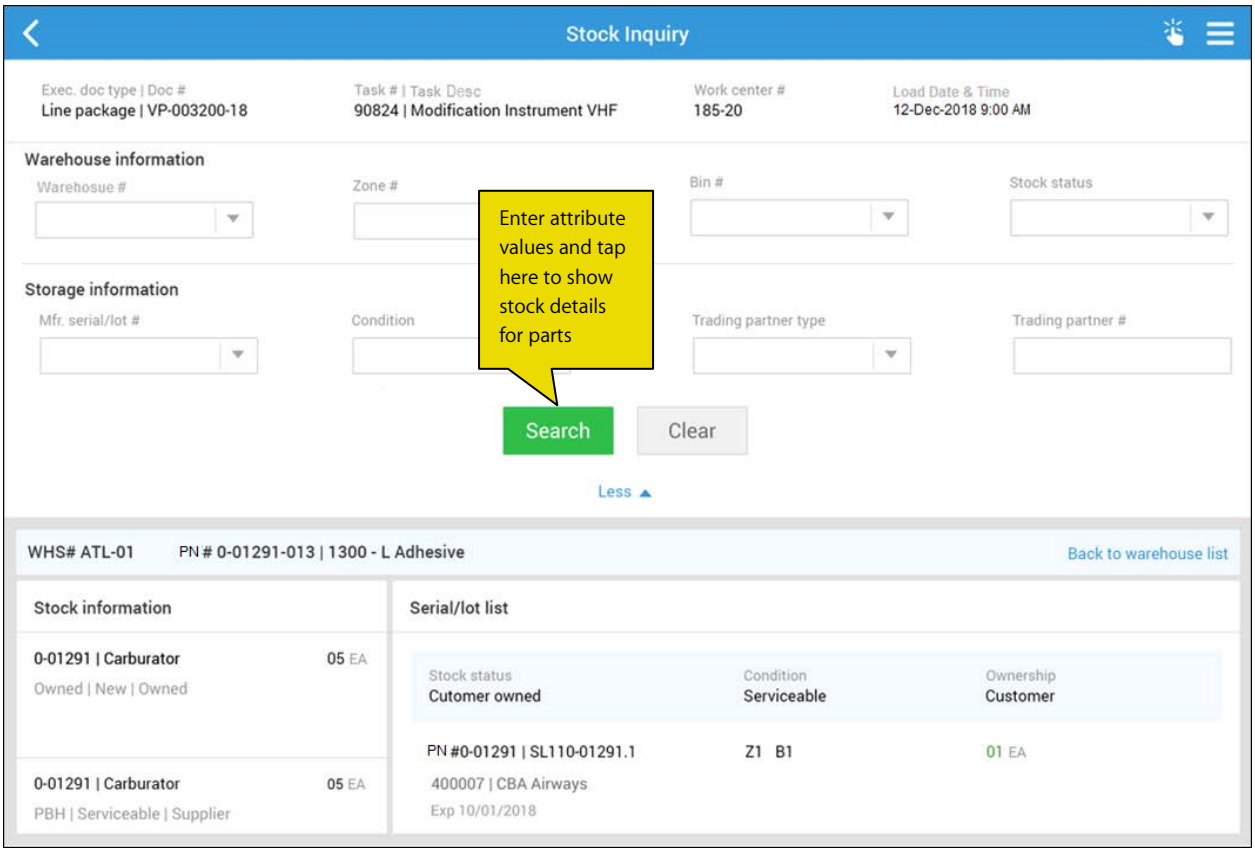


Exhibit 8: The expanded **Advance** search section in the **Stock Enquiry** screen invoked from the **Component Replacements** and **View Parts Requirements** screens



Ability to update parameters against Task/subtask from LineAnywhere

Reference: AHBG-23162

Background

During aircraft maintenance, the mechanics review the parameter conditions of aircraft and then update the actual parameter readings. Further, the system will not allow the users to complete the tasks, if any mandatory parameters have not been updated. Currently, a facility to update the actual reading of parameters is available in **Ramco Aviation** suite and MechanicAnywhere. A similar facility is needed in **LineAnywhere** to record parameter readings in the offline mode to track maintenance activities executed in remote locations.

Change Details

To enable the users to record parameter values in **LineAnywhere**, the following improvements have been incorporated in the **Tasks** tab of **E-Log** screen

- New button  has been added in the right pane of the Task tab. The users can tap the button to open the new **Parameter Recording** popup and record parameter values for the task / subtasks. However, the  button appears only if parameter definition is available for the tasks / sub tasks.
- The popup will have two tabs:
  - Task
  - Sub Task
- Both the **Task** and **Sub Task** tabs will comprise the following fields:
  - Parameter: Displays the parameter defined for the task
  - Value/Eval. Response: Captures the parameter value
  - Exe. Remarks: Captures execution details of the task
  - Updated Date & Time: Captures date & time of parameter update. However, the field is defaulted with the current date and time.
  - Updated By: Captures the ID of the employee who performed the parameter update. However, the field is defaulted to the employee ID of the current login user
- These fields in the **Conditional Evaluation** multiline in the **Task** and **Sub Task** tabs will display Conditional Evaluation defined for the parameters
  - Trigger Value/ Min/Max
  - Follow-Up Action
  - Follow-Up Task #
  - Follow-Up Instruction
  - Remarks
- The update mode of the parameters is depicted using icons in the following way:
  - Delta is depicted by 
  - New is depicted by
- Parameters mandatory or non-mandatory are depicted using colors in the following way:

- Amber indicates the parameter is mandatory
- Yellow indicates the parameter is non-mandatory and is pending update
- Green indicates the parameter has already been updated

- On tap of the update mode icon, a callout with the current and permitted values defined against the parameters will appear.

Exhibit 1: The **Task** section of the **Tasks** tab of **eLog**

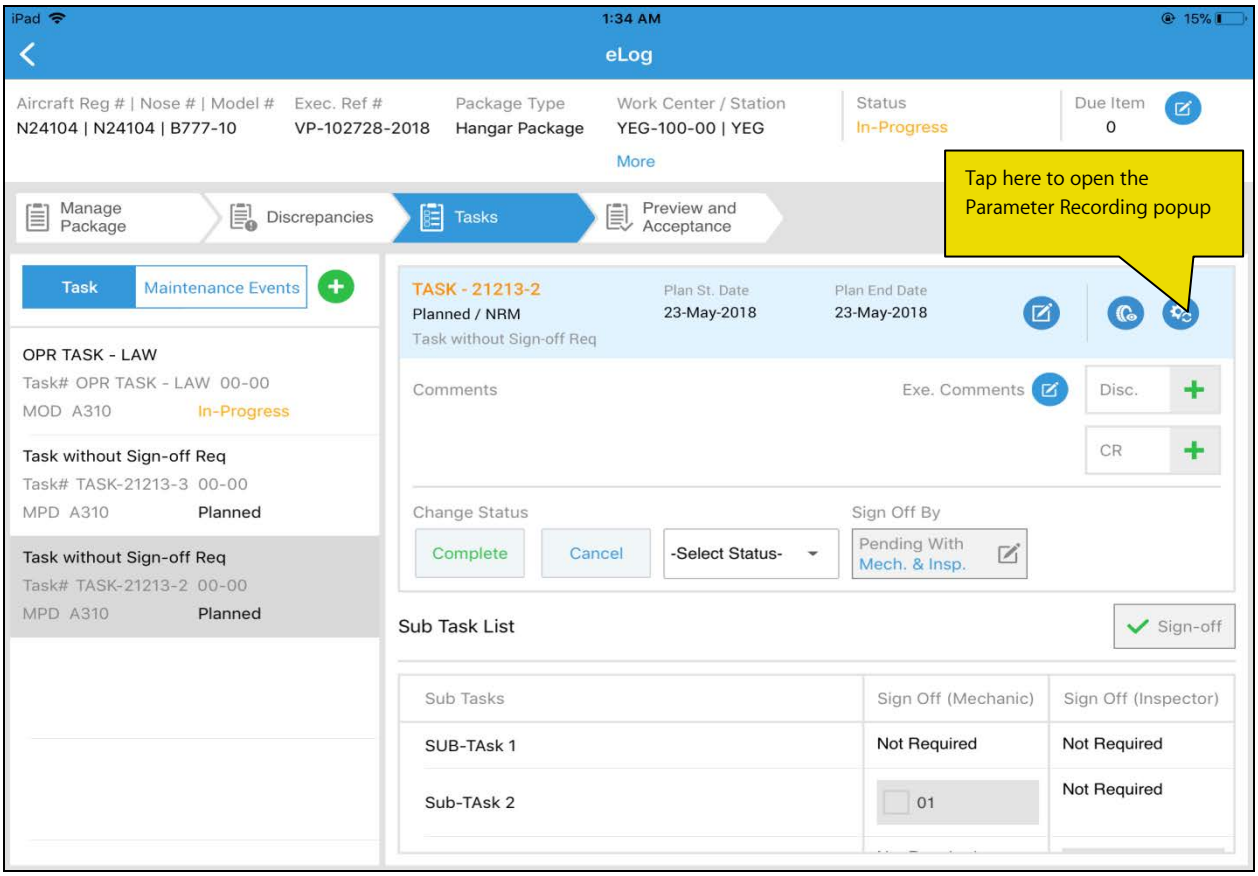


Exhibit 2: The **Task** tab of **Parameter Recording** popup

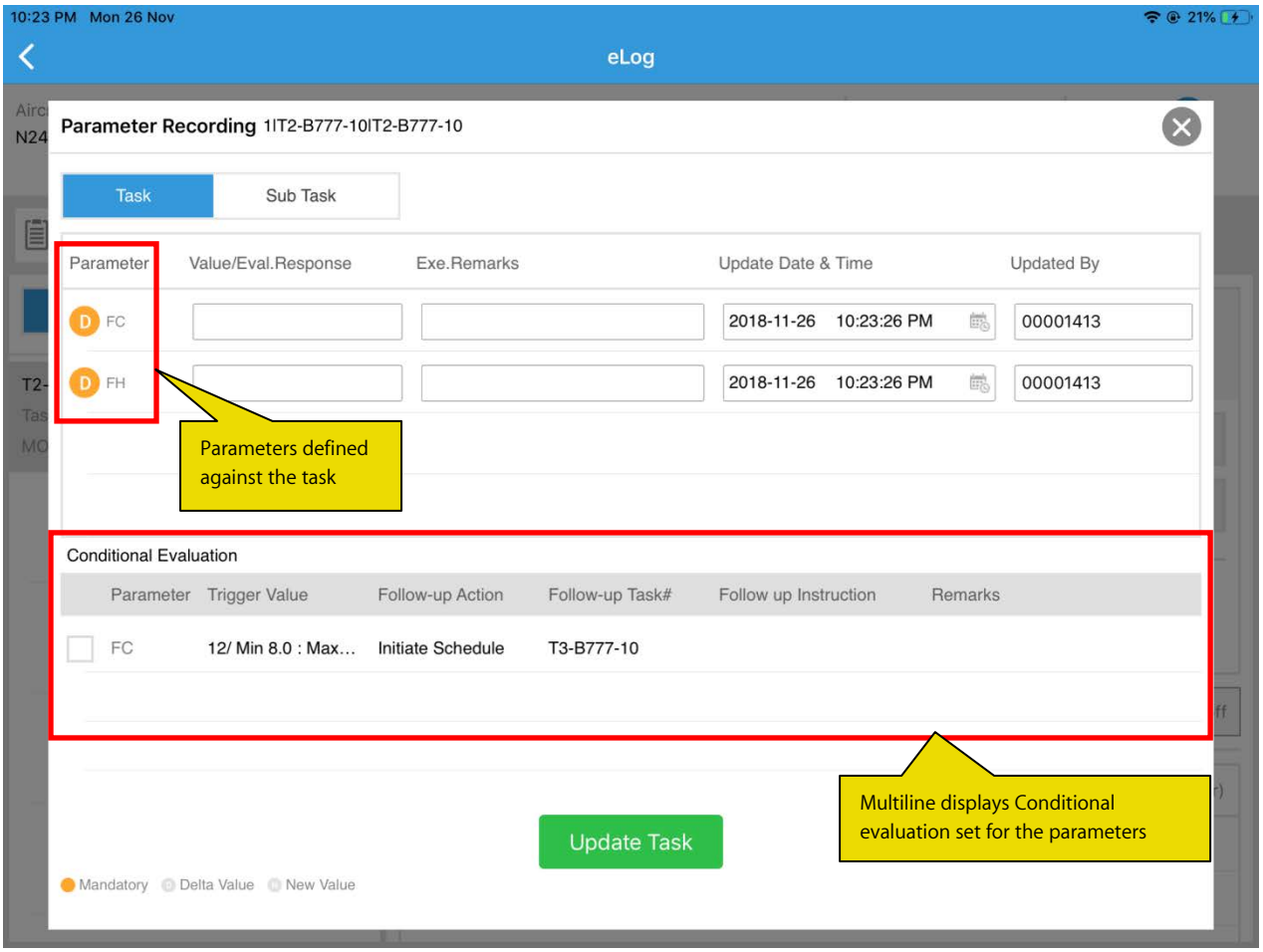


Exhibit 3: The **Sub Task** tab of **Parameter Recording** popup

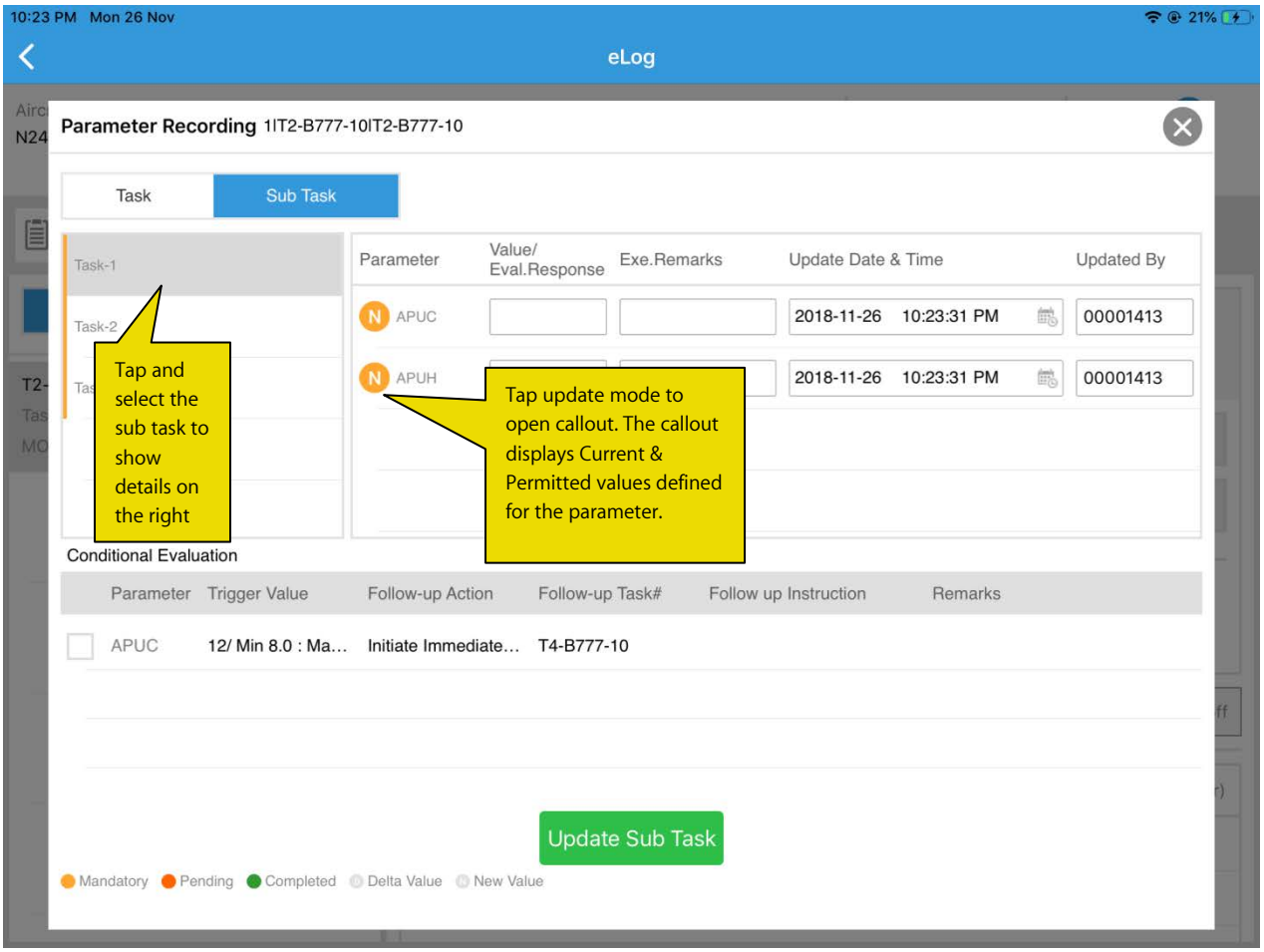
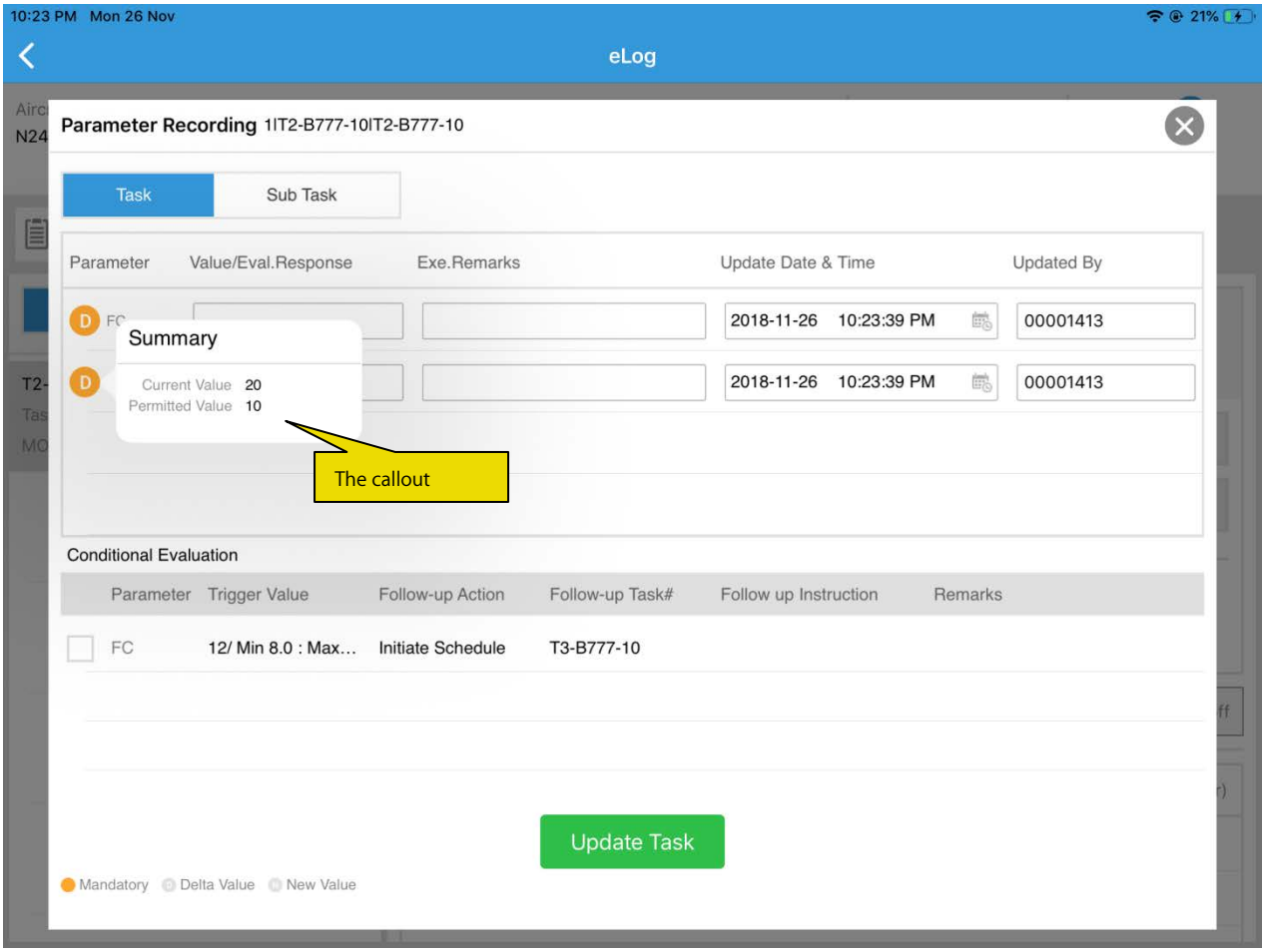


Exhibit 4: The **Callout**



Daemon error correction for work packages transferred from Line Anywhere App

Reference: AHBG-27787

Background

Prior to transfer from the mobile **LineAnywhere** application to the online **Ramco Aviation** system, the work packages undergo two levels of validation. The first level validation happens in the offline mobile **LineAnywhere** application ensuring that the mandatory attributes for the entities (packages, tasks, discrepancies and component replacements) are provided by the users. However, the second-level of validations include detailed verification of entity data, such as Alternate Parts checks, Time Zone checks, etc. which are performed by users in the desktop Ramco Aviation system.

However, currently, the users are able to rectify all errors other than the errors associated with the Others entity type. Hence, a provision to rectify the errors under this error type using the offline data must be incorporated in the desktop Ramco Aviation system.

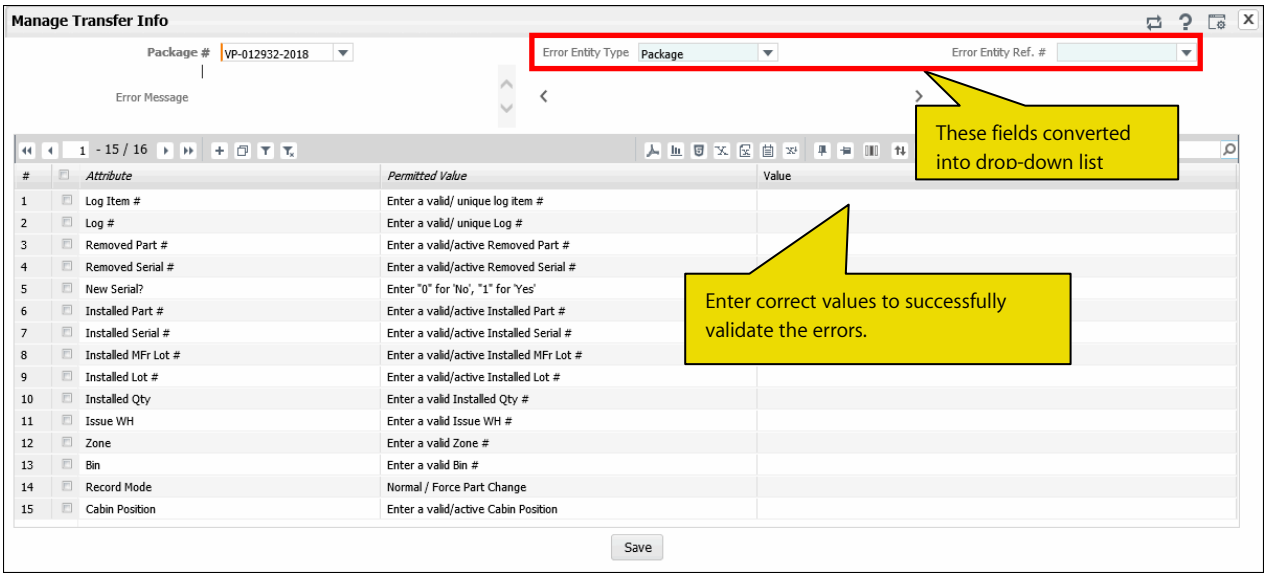
Change Details

The following changes have been undertaken in the **Manage Transfer Info** popup of the **Transfer Work Package Log** page in the **LineAnywhere** business component under **Utilities** in order to retrieve and rectify daemon errors.

- The **Error Entity Type** and **Error Entity Ref. #** display-only fields have now been made drop-down list boxes to enable users to find and retrieve the specific errors. The users can then rectify the errors by providing the correct values in the multiline.
- The **Error Entity Type** drop-down list box will display Package, Discrepancy, Task, Component Replacement and Others.
- The **Error Entity Ref. #** drop-down list box will display data options based on the error entity type that the users select as illustrated in the table below:

Error Entity Type	**Error Entity Ref. # drop-down list box will display**
Package	Package #
Discrepancy	All discrepancy # in the package
Task	All task # in the package
Component Replacement	All CR # in the package
Others	Blank

Exhibit 2: The **Manage Transfer Info** popup of the **Work Reporting Hub** screen



Ability to print Part Tag report from LineAnywhere

Reference: AHBG-23428

Background

In the desktop **Ramco Aviation** suite, the **Part Tag** report can be generated for the part removed from aircraft. The same feature is required in the **LineAnywhere** offline mobile application since the Part Tag report is tagged to the removed part and this is crucial for material handling activities.

Change Details

To enable the users to generate Part Tag report for removed parts in the offline mode / i-Pad, the following improvements have been made in the Component Replacement screen of LineAnywhere:

- The Part Tag Report button has been introduced in the following tabs of the Component Replacement screen:
    - **Remove**
    - **Replace**
    - **Cannibalize**
    - **Swap**
- On tap of the **Part Tag Report** button**,** the Part Tag Report is generated for the removed part. However, the button appears only if valid Component Replacement # is available for the below transactions
    - **Remove**
    - **Replace**
    - **Cannibalize**
    - **Swap**

Exhibit 1: The Component Replacement screen in LineAnywhere

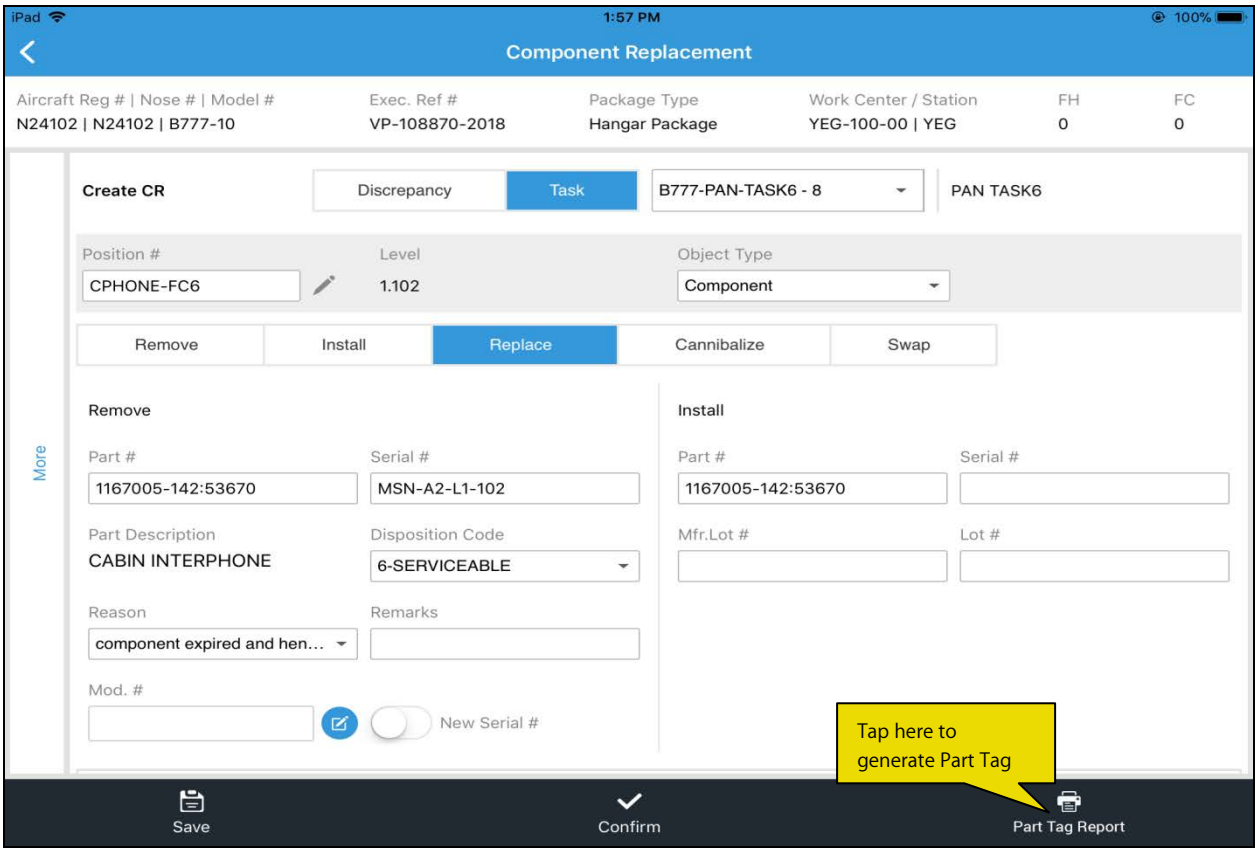
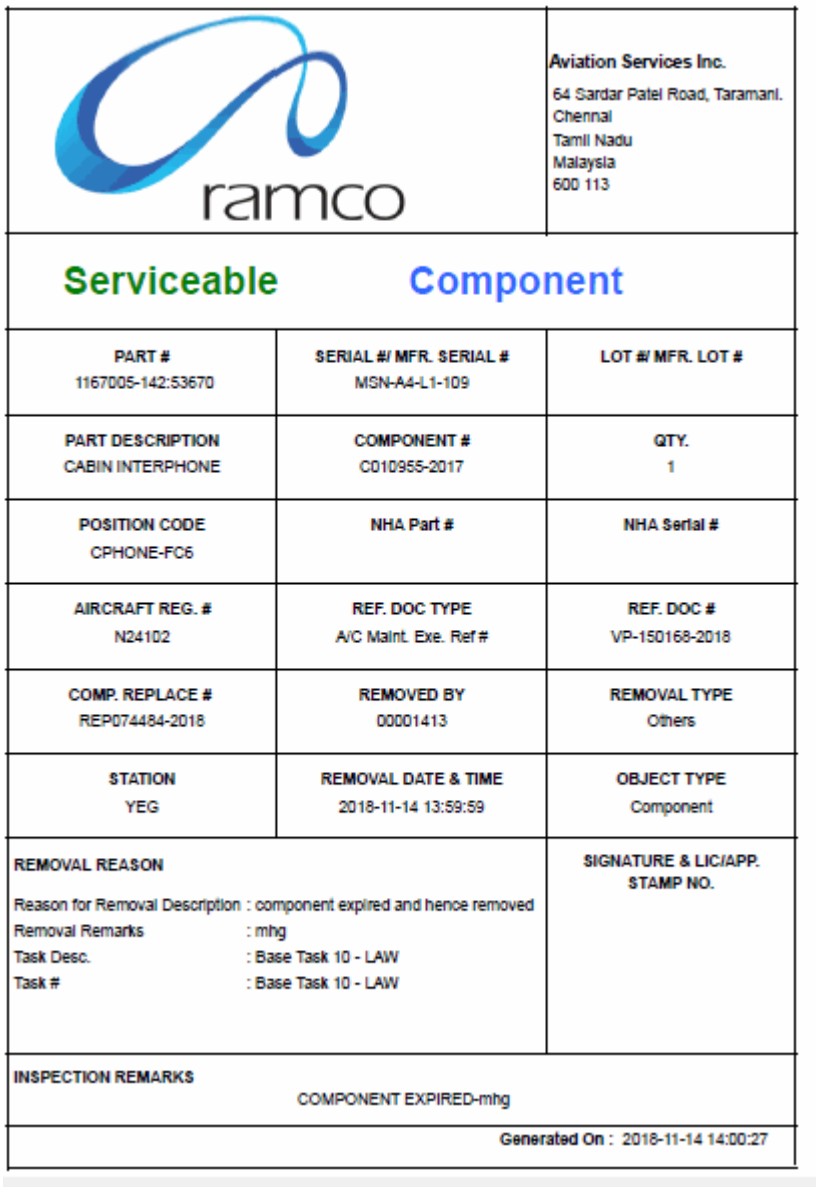


Exhibit 2: The **Part Tag** Report



ramco	**Aviation Services Inc.** 64 Sardar Patel Road, Taramani. Chennai Tamil Nadu Malaysia 600 113

Serviceable **Component**

PART # 1167005-142:53670	**SERIAL #/ MFR. SERIAL #** MSN-A4-L1-109	**LOT #/ MFR. LOT #**
PART DESCRIPTION CABIN INTERPHONE	**COMPONENT #** C010955-2017	**QTY.** 1
POSITION CODE CPHONE-FC6	**NHA Part #**	**NHA Serial #**
AIRCRAFT REG. # N24102	**REF. DOC TYPE** A/C Maint. Exe. Ref #	**REF. DOC #** VP-150168-2018
COMP. REPLACE # REP074484-2018	**REMOVED BY** 00001413	**REMOVAL TYPE** Others
STATION YEG	**REMOVAL DATE & TIME** 2018-11-14 13:59:59	**OBJECT TYPE** Component

REMOVAL REASON Reason for Removal Description : component expired and hence removed Removal Remarks : mhg Task Desc. : Base Task 10 - LAW Task # : Base Task 10 - LAW	**SIGNATURE & LIC/APP. STAMP NO.**

INSPECTION REMARKS
COMPONENT EXPIRED-mhg

Generated On : 2018-11-14 14:00:27

Ability to issue parts from any Serv. Request WH in current station from LineAnywhere

Reference: AHBG-26802

Background

In **LineAnywhere** offline mobile application, the Issue Warehouse details of the installed part in the Component Replacement (CR) transactions are defaulted by the system based on the work center-warehouse mapping. However, in real time, part issues may not always happen in accordance with the work center-warehouse mapping as the part to be installed may not be available in the designated serviceable warehouse. In order to complete the CR transactions, the mechanics procure the installed part from the other serviceable warehouses attached to the context station in which the required quantities are available. In such scenarios, the system must be capable of automatically identifying the other serviceable warehouses in the context station in which the required quantities of the part is available and replace the default Issue Warehouse #, Zone # and Bin # details of the CR transaction with actual Warehouse #, Zone # and Bin # from where Serial # or Mfr Lot #/ Lot # was procured to complete the component replacement.

Change Details

To enable the **LineAnywhere** application to intuitively issue parts from any of the serviceable warehouses under the station in which the required part is available, if Installed Part # is not available in Ser. Request Warehouse of the work center, new process parameter 'Issue Serial/Lot parts from multiple Serv. Request Warehouse in current Station for installation transactions performed in Line Anywhere App?' has been added under the entity type Package Type and the entity Log Cards in the Define Process Entities activity of Common Master.

Process Parameter: Issue Serial/Lot parts from multiple Serv. Request Warehouse in current Station for installation transactions performed in Line Anywhere App?	
Value	**Impact**
1 / Yes	Changes the default Issue Warehouse #, Zone # and Bin # of a CR transaction to Warehouse #, Zone # and Bin # where Mfr. Serial # / Serial # or Mfr. Lot #/ Lot # is actually available in any of the Serv. Request Warehouse in current (or pre-loaded) station, if Installed Part # is not available in Ser. Request Warehouse of the work center.
0 / No	The system does not modify the default Warehouse #, Zone # and Bin # of the CR transaction.

Note that the system modifies the issue details of the installed part:

- If the installed quantity is not available in any of the Ser. Request Warehouse in current station
- Only if the installed part is Serial or Lot controlled
- Prior to the transfer of packages to the desktop Ramco Aviation database

Ability to load due items of sub-assemblies & task relationship in Line Anywhere App

Reference: AHBG-24817

Background

For comprehensive maintenance of aircraft, it is essential the mechanics must have the complete list of due items of the aircraft in hand. Currently, LineAnywhere provides the capability to load due tasks of aircraft only. However, mechanics in the remote locations where internet connectivity is poor or nil must be empowered to review the due list of sub-assemblies to perform On-wing, Off-wing and component removal jobs. **LineAnywhere** must also support the addition of the component tasks Further, when tasks are added to work packages, LineAnywhere must also be capable of automatically adding related tasks based on the planning and execution relationships of the added tasks.

In addition to the ability of assigning the Component and Engine tasks to packages, a capability to validate and process errors associated with Component and Engine tasks in packages transferred from the offline device must also be built in the **LineAnywhere (Desktop)** business component.

Change Details

To facilitate addition of the Component and Engine tasks in the offline mobile device, the following developments have been incorporated in **LineAnywhere**:

- New process parameter 'Retrieve Component/Engine applicable task during Pre-load of LineAnywhere?' has been added under the entity type Mobility and the entity LineAnywhere in the **Define Process Entities** activity of **Common Master** to load Component and Engine applicable tasks in addition to Aircraft tasks to the offline mobile **LineAnywhere** application

Process parameter	Value	Impact
Retrieve Component/Engine applicable task during Pre-load of LineAnywhere?	0 / Not Required	Only Aircraft Applicability tasks will be copied to the LineAnywhere database during pre-load. Maintenance tasks with Applicability as Component and Engine will not be copied to the LineAnywhere database during pre-load
	1 / Required	Maintenance tasks with Applicability as Component and Engine will not be copied to the LineAnywhere database in addition to Aircraft Applicability database

- New process parameter 'Retrieve Task Relationship details of Task during Load of LineAnywhere?' has been added under the entity type Mobility and the entity LineAnywhere in the **Define Process Entities** activity of **Common Master** to load task relationship definition to the offline mobile LineAnywhere application

Process parameter	Value	Impact
Retrieve Task Relationship details of Task during Load of LineAnywhere?	0 / Not Required	LineAnywhere will not load the 'Task Relationships' defined for Aircraft /Component/Engine applicable tasks
	1 /	LineAnywhere will load the 'Task Relationships'

	Required	defined for Aircraft /Component/Engine applicable tasks

- New process parameter 'Show 'Job Type' combo in **Add Tasks** pop up of LineAnywhere?' has been added under the entity type Mobility and the entity LineAnywhere in the **Define Process Entities** activity of **Common Master** to add the drop down list box **Job Type** in the **Add Tasks** popup of the **LineAnywhere**

Process parameter	Value	Impact on the Job Type drop-down list box in the 'Add from Library' and 'New Task' tabs of Add Tasks pop up
Show 'Job Type' combo in Add Tasks pop up of LineAnywhere?	0 / No	The Job Type drop-down list will not be displayed to users.
	1 / Yes	The Job Type drop-down list will be displayed to users.

- The **Add Tasks** popup will have the following new fields to facilitate creation and addition of tasks of Component and Engine Applicability in addition to Aircraft.
    - Job Type (This filter will be available based on process parameter Show 'Job Type' combo in Add Tasks pop up of LineAnywhere?)
    - Part #: (This field will be enabled with Smart Search.)
    - Serial #
    - Position Code: (This field will be enabled with Smart Search.)
- **The Task Additional Info** pop-up with the following fields will also be displayed for Component or Engine tasks now
    - Job Type
    - Part #: (This field is enabled with Smart Search)
    - Serial #
    - Position Code: (This field is enabled with Smart Search)
- When the users add a task to the work package from Due List or from the Add Tasks pop up, **LineAnywhere** automatically adds the related tasks based on the following relationships:
    - Block Schedule
    - Concurrent Exec. – Group,
    - Concurrent Exec- Specific
    - Concurrent Exec.- Conditional
    - Predecessor-Constrained
- If the tasks are having the following Post Compliance relationship, the system will update the schedules of the respective tasks in the maintenance program, during the transfer of work package.
    - Initiate Schedule
    - Terminate Schedule
    - Initiate Records Follow-Up
    - Supersede
    - Conditional

Exhibit 1: The new **Task** section in the **Add Tasks** popup in the **Tasks** tab of **E-Log**

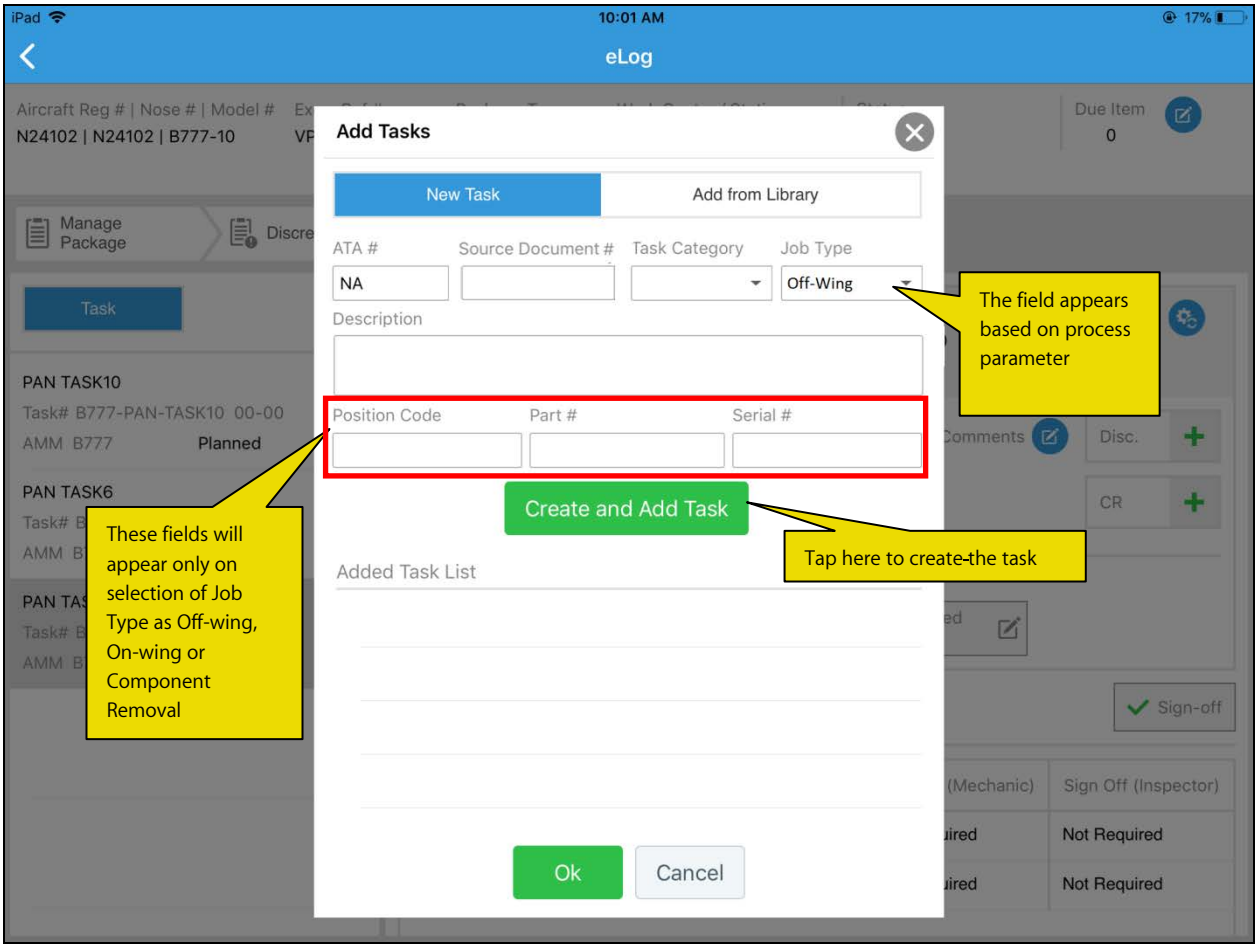


Exhibit 2: The **Add from Library** section in the **Add Tasks** popup in the **Tasks** tab of **E-Log**

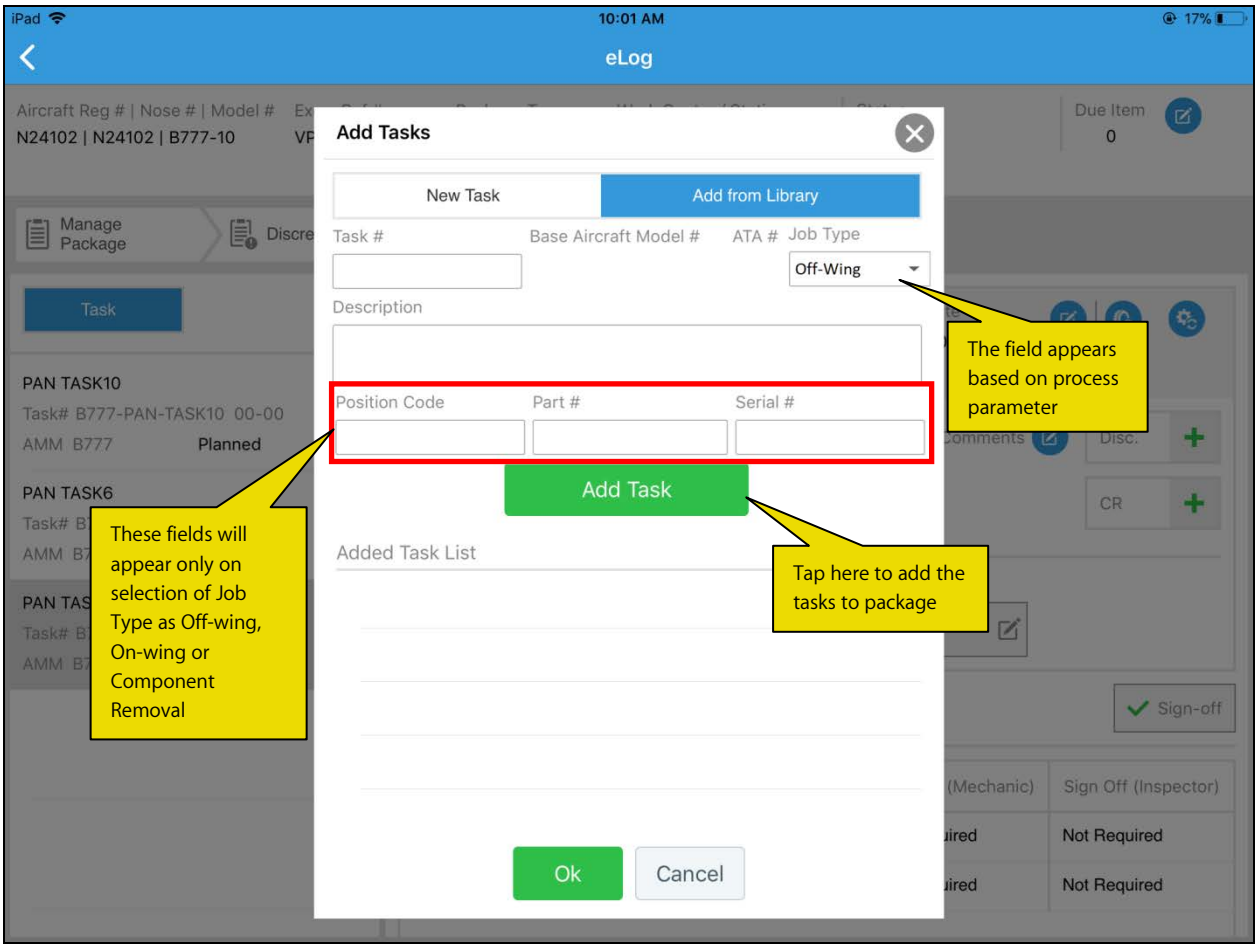
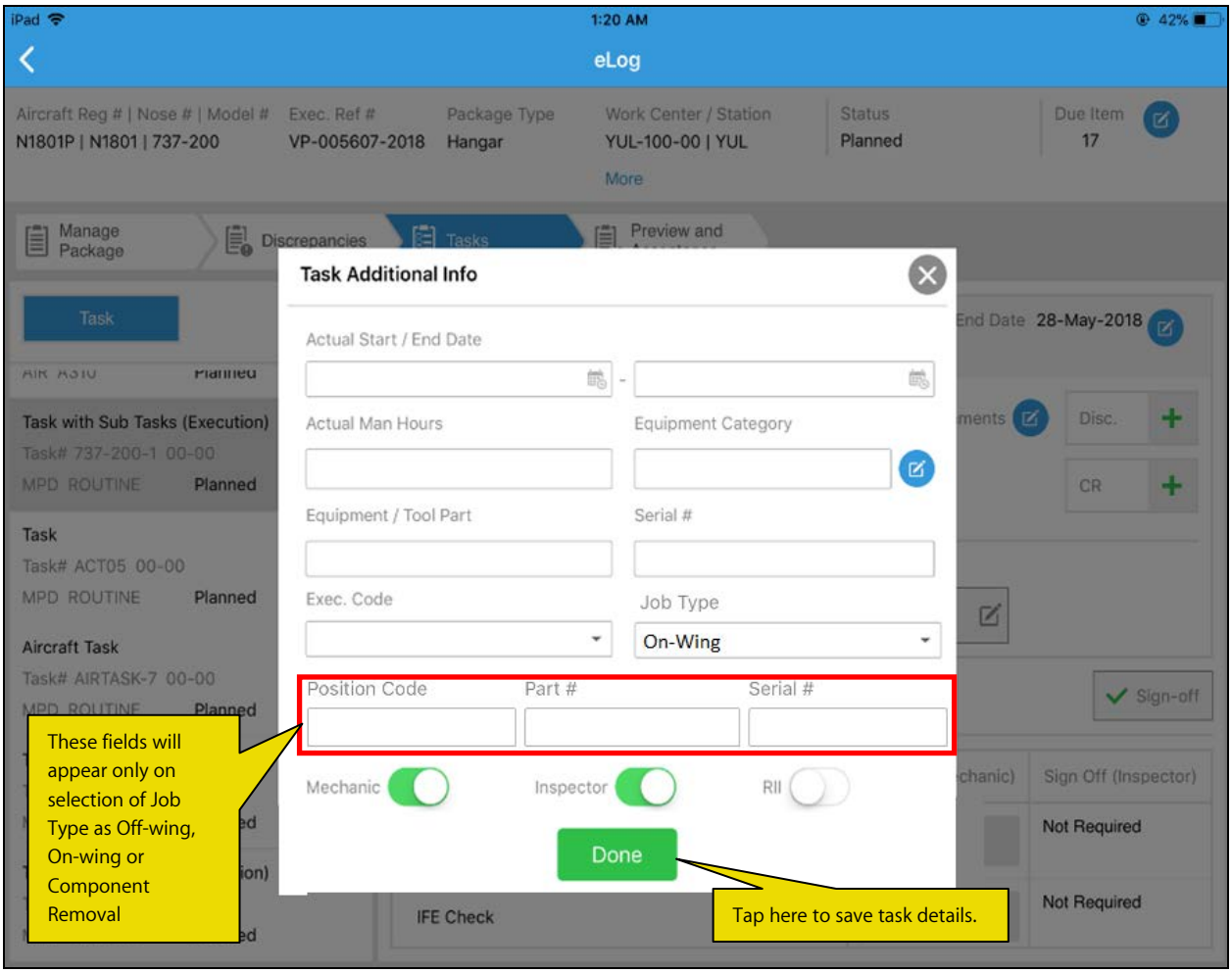


Exhibit 3: The **Task Additional Info** popup in the **Tasks** tab of **E-Log**



Ability to turn ON Force Part Change automatically in LineAnywhere if Rem. Part/Serial is changed

Reference: AHBG-29440

Background

The Component Replacement (CR) transactions recorded in **LineAnywhere** are undertaken in the Offline mode as they are performed in remote areas with no internet connectivity. Later on, these transactions are synchronized with the **Ramco Online System** by means of data transfer from **LineAnywhere**. In a CR transaction, the removed part # and serial # are automatically retrieved by the system on the basis of the position # provided by the users. The users can modify the system-derived removed part # and serial #, if required. However, in many cases, the user-specified removed part # / serial # would not be available in the configuration data due to lack of systematic synchronization after several CR transactions, resulting in errors during data transfer. Hence, a provision to accept the **CR** transaction though the removed part # / serial # not available in configuration is required for successful data transfer from **LineAnywhere**.

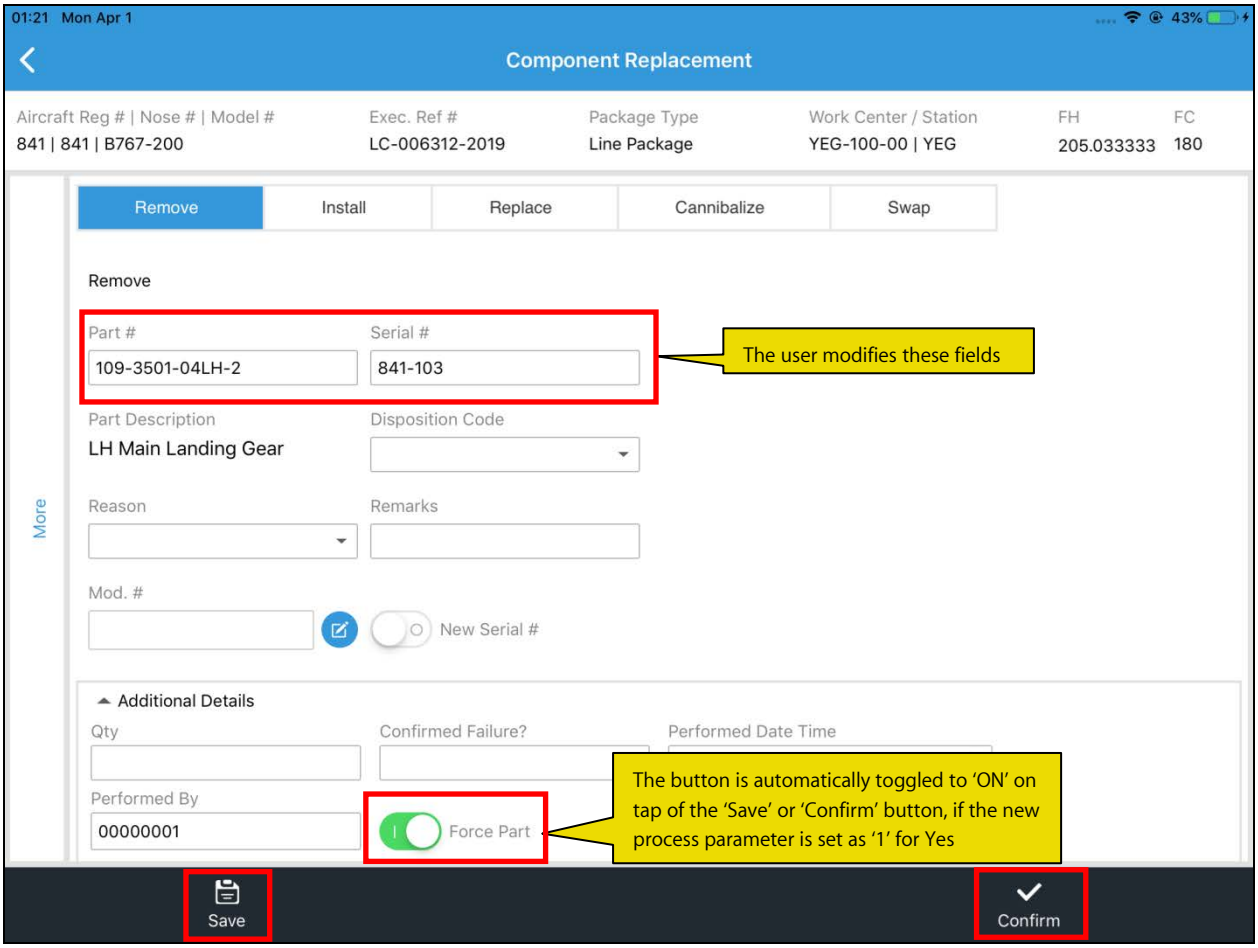
Change Details

In order to facilitate the successful transfers of the CR transactions wherein the user-specified removed part # / serial # are not available in the configuration, the following changes have been incorporated in the Ramco Aviation system:

- New process parameter 'Auto toggle 'Force Part' to 'ON' if Removed Part/Serial is changed during Component Replacement?' has been added under the entity type Mobility and the entity LineAnywhere in the **Define Process Entities** activity of **Common Master**. This process parameter can enable the auto-toggle of the **Force Part** button in the **Component Replacement** screen of **LineAnywhere** in a scenario wherein the user-specified removed part # / serial # is not available in the configuration.

Process Parameter: Auto toggle 'Force Part' to 'ON' if Removed Part/Serial is changed during Component Replacement?	
Parameter Value	**Impact**
1 for Yes	The Force Part button is automatically activated, if the removed part # / serial # is changed during component replacement. This avoids errors being generated during transfer of the CR data.
0 for No	The Force Part button is not automatically activated, if the removed part # / serial # is changed during component replacement giving rise to errors during transfer of the CR data.

Exhibit 1: The **Component Replacement** screen **in LineAnywhere**



Corporate Office and R&D Center

Ramco Systems Limited,
64, Sardar Patel Road, Taramani,
Chennai – 600 113, India
Office + 91 44 2235 4510 / 6653 4000
Fax +91 44 2235 2884
Website - www.ramco.com