

RAMCO AVIATION SOLUTION
VERSION 5.9

USER GUIDE

LineAnywhere Offline Mobile Application

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ABOUT THIS MANUAL

This document is the Software User Manual (SUM) for the LineAnywhere, an offline mobile application that has been developed by Ramco Systems, to equip the mechanic to record aircraft maintenance activities in just a few taps in areas inaccessible by internet.

This manual will support

- Aircraft Maintenance engineers in understanding the way work execution can be recorded in the LineAnywhere application

WHO SHOULD READ THIS MANUAL

This manual is intended for mobile users in remote areas performing aircraft maintenance activities offline in the Aviation industry and familiar with the Ramco Aviation desktop solution. This manual assumes that the user is familiar with the Aviation Industry nomenclatures and systems based software.


HOW TO USE THIS MANUAL

Ramco Aviation Solution provides extensive Online Help that contains detailed instructions on how to use the application. Users are suggested to use this manual for specific references, along with the Online Help. This manual contains enough information to help the users perform the basic tasks and points toward the Online Help for more detailed information.

HOW THIS MANUAL IS ORGANIZED

The User Guide is divided into various sections each describing the concept and procedures involved in accomplishing specific process, such as loading data into an offshore device, managing tasks and packages, reporting discrepancies, processing component replacements and achieving sign offs of tasks and discrepancies.

DOCUMENT CONVENTIONS

- The data entry has been explained taking into account the “Create” business activity. Specific references (if any) to any other business activity such as “Modify” and “View” are given as “Note” at the appropriate places.
- **Boldface** is used to denote commands and user interface labels.
Example: Enter **Company Code** and click the **Get Details** pushbutton.
- *Italics* used for references.
Example: *See Figure 1.1.*
- The  icon is used for Notes, to convey additional / critical information.

REFERENCE DOCUMENTATION

This User Guide is part of the documentation set that comes with Ramco Aviation Solution.

The documentation is generally provided in two forms:

- The Documentation CD in Adobe® Systems’ Portable Document Format (PDF).

WHOM TO CONTACT FOR QUERIES

Please locate the nearest office for your geographical area from www.ramco.com for assistance.

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1 DEVICE REQUIREMENTS

LineAnywhere app requires the following recommended requirements for optimal user experience:

- iPhone 6, iPad Air / iPad Mini 2 or later with Apple A7 or later chipset
- iOSs 9 or later
- Constant network connectivity via Wi-Fi or 3G/4G*
- 100 MB or more free space

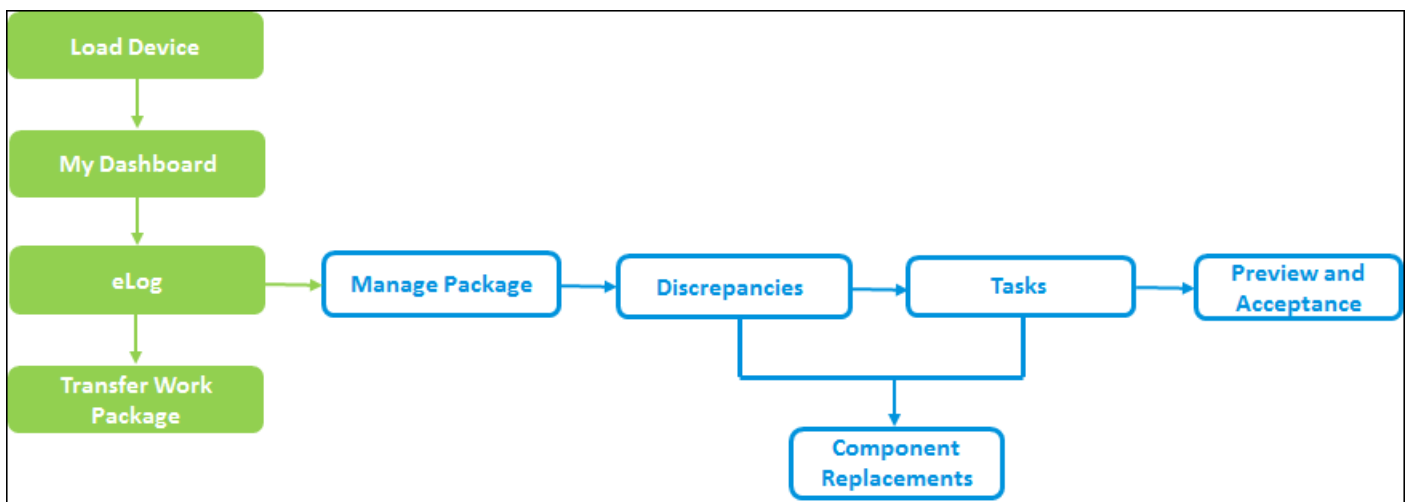


Note: 3G/4G connectivity requires an iPad capable of Mobile Data connectivity. Your carrier might charge you extra for data roaming. When available, always prefer Wi-Fi connectivity over Mobile Data.

2 PREREQUISITE MASTER DATA

- ▶ aircraft records
- ▶ Aircraft and Cabin Configuration details (optional)
- ▶ Task Library definition
- ▶ Maintenance Program definition (optional)
- ▶ Process Parameter Definition
- ▶ Document Numbering Definition
- ▶ Flight Routing Schedules (optional)
- ▶ Aircraft – Employee Assignment (optional)
- ▶ Part records

3 NAVIGATION



4 LINEANYWHERE OFFLINE MOBILE APPLICATION

LineAnywhere is an offline mobile application that aims to extend the capabilities of **Ramco Aviation** to remote areas with poor or nil internet connectivity. **LineAnywhere** has been developed for the mechanics to execute aircraft maintenance activities on the go using a mobile device. The mechanics can manage packages, tasks, discrepancies, component replacements and then eventually sign off tasks/discrepancies with a few taps on their mobile devices. The aircraft maintenance engineers (AME/MSR) can accomplish offline the tasks including:

- Manage work packages
- Create and execute tasks
- Report and process discrepancies
- Perform component replacements
- Validate work package completion/closure
- Sign-Off (CRS) and release aircraft (CRA)

However, prior to the commencement of maintenance activities using LineAnywhere, certain contextual/default data must be set in the offline device/database attached to the offline application, such as Organization unit, Station and Work Center. Next, aircraft data from the Ramco Aviation system must be loaded into the offline device/database using an internet-enabled activity provided in LineAnywhere. Subsequently, at the end of the day/business hours/fixed duration (as per the organization policy) and, the aircraft work package information is moved back to the Ramco Aviation system using another online activity.

4.1 LOGGING INTO LINEANYWHERE

1. Log into **LineAnywhere** application. See Figure 4.1.

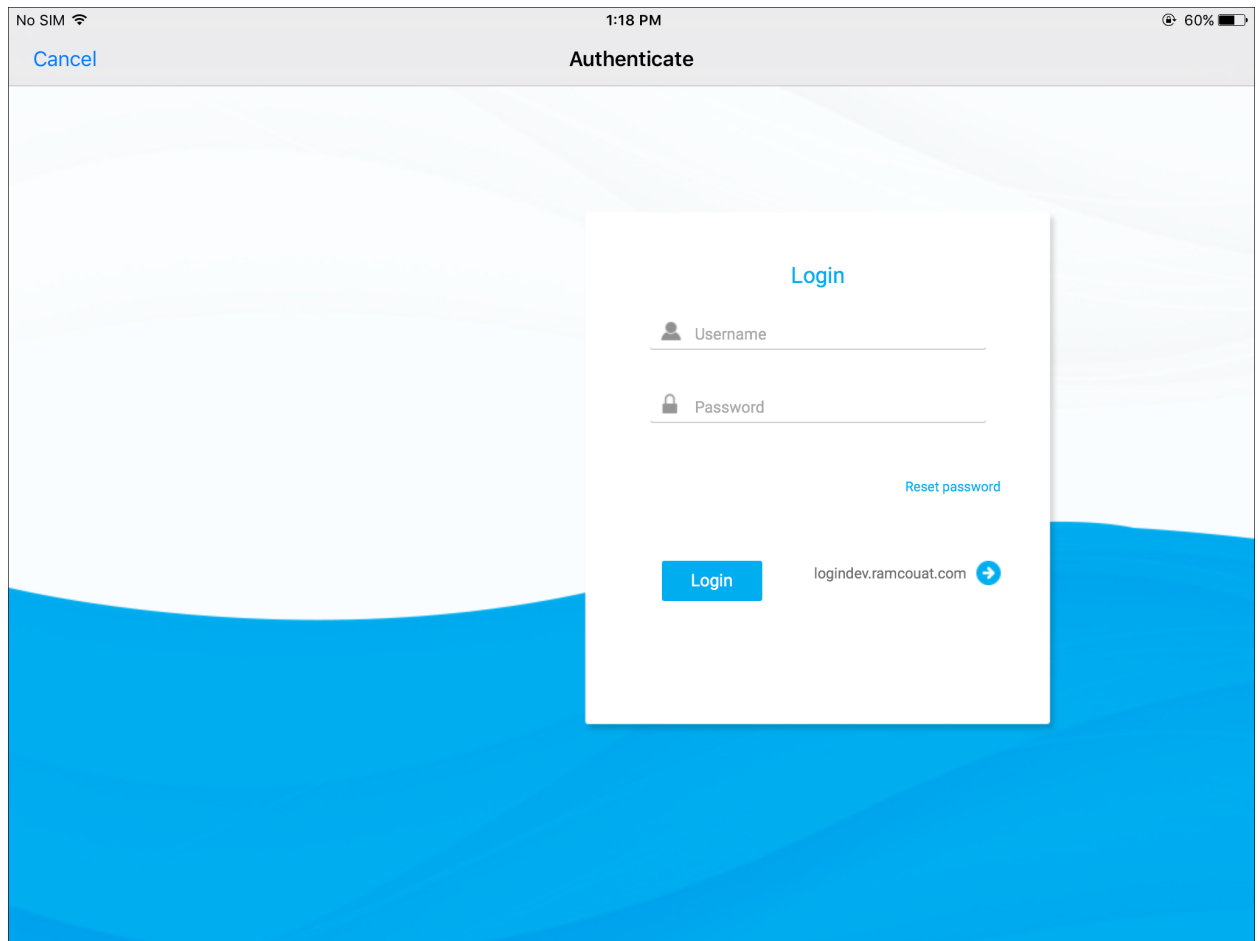


Figure 4.1: The LineAnywhere Login page

4.2 SETTING PREFERENCES AND LOADING DEVICE

To enable seamless offline aircraft maintenance operations in LineAnywhere, key data elements must be defined in the offline application. This data is set depending on the organization work procedures/policies and set at the organization level and cannot be modified by end users.

One, you must define contextual data that represents the location at which LineAnywhere is deployed and where the aircraft maintenance activities are being carried out:

- Organization Unit
- Station

Two, you must also set the default data for the following to be displayed on the launch of the tab pages in LineAnywhere:

- Activity
- Package Type
- Work Center

1. If both **OU Instance** and **Station** are not defined for **LineAnywhere** in the current offline device, the **Set Preferences and Load Device** pop-up appears. See Figure 4.2.

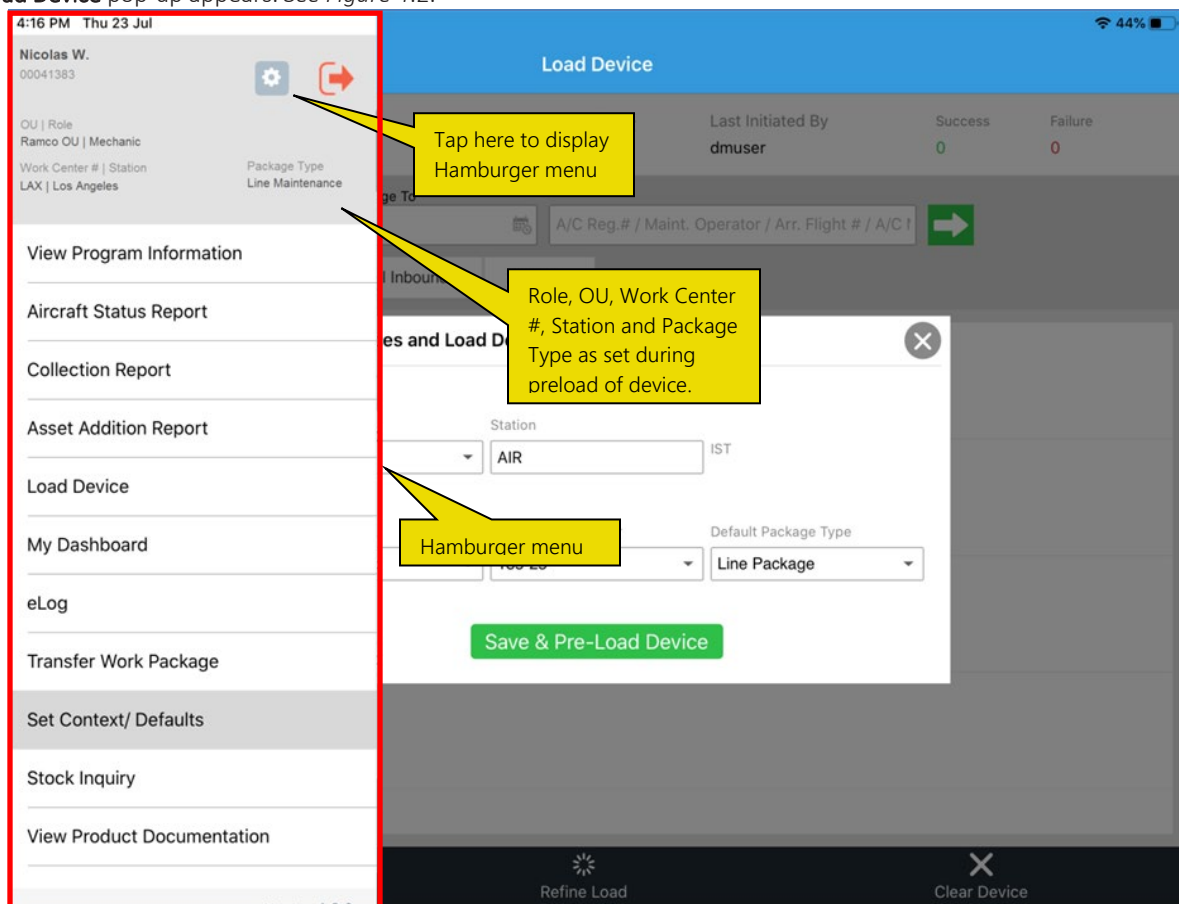


Figure 4.2: Setting preferences and loading device with data

2. Alternatively, tap the **Settings** icon in the **Hamburger** menu, the **Set Preferences and Load Device** pop-up appears. See Figure 4.3.

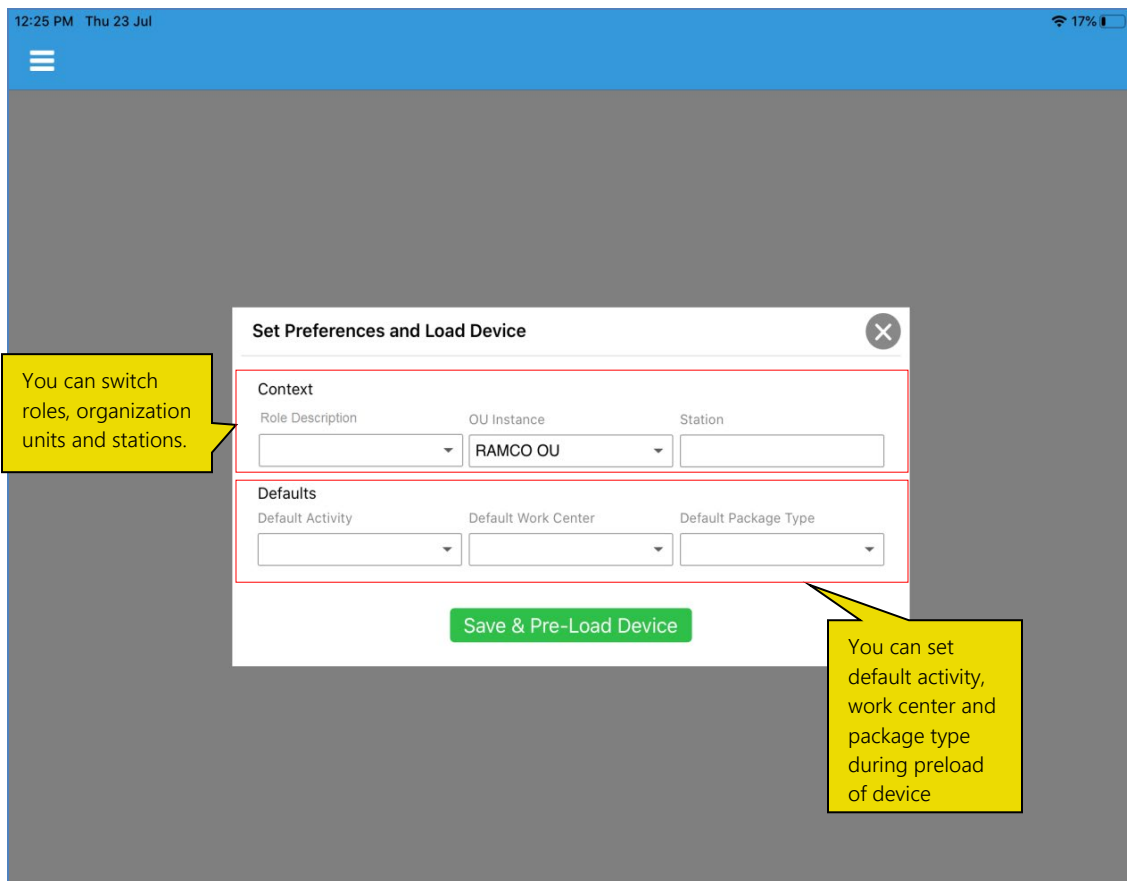



Figure 4.3: The Hamburger menu

3. Use the **Role Description** drop-down to select the role in the organization unit as a user of the LineAnywhere offline mobile application. The drop-down list box displays the roles mapped to the login user.
4. Use the **OU Instance** drop-down to select the organization unit in which the station is located. The drop-down list box displays the organization units mapped to the login user.
5. Use the **Station** drop-down list box to select station at which LineAnywhere is deployed and operational. The time zone of the selected station is displayed alongside.
6. Use the **Default Activity** drop-down list box to select the activity that must appear once you successfully log into LineAnywhere. The drop-down list box displays Load Device, My Dashboard, E-Log and Transfer Work Package.
7. Use the **Default Work Center** drop-down list box to select the work center that must be defaulted in the LineAnywhere activities. The drop-down list box displays the Active work centers mapped to the login user with Work Center Class defined as 'Execution' and Execution Capability defined as 'Line Jobs or All'.
8. Use the **Default Package Type** drop-down list box to select the package type that must be defaulted in the LineAnywhere activities. The drop-down list box displays the Active package types.
9. Tap the **Save** pushbutton to save the default information in LineAnywhere. Additionally, the user preference for the Date/Time format is also copied to the application.

 *Note: The Load Ref. is generated for the device.*

4.2.1 LAUNCH OF DEFAULT ACTIVITY

- ▶ If both **OU Instance** and **Station** are defined in the **Set Context / Defaults** page and, if a valid **Load Ref. #** exists for the offline device, the default activity that was defined in the **Set Context/Defaults** pop-up shows.
- ▶ If a valid **Load Ref. #** does not exist for the offline device, the **Load Device** activity appears.
- ▶ If no aircraft is loaded to the offline device or if all the work packages of loaded aircraft are transferred back to the online Ramco Aviation system, the **Load Device** on logging into LineAnywhere.

4.3 LOADING DATA TO DEVICE

To ensure data availability at the work site, the aircraft records must be loaded to an offline database attached to LineAnywhere from the Ramco Aviation desktop system.

Records of aircraft that will be maintained at the offline station can be loaded to LineAnywhere using the **Load Device** activity. For every successful data load transaction, unique Load Ref. # is generated in **LineAnywhere** to identify the load transaction in the device.

1. Select the **Load Device** link from the left pane of **LineAnywhere** or **My Dashboard** activity. See Figure 4.4.

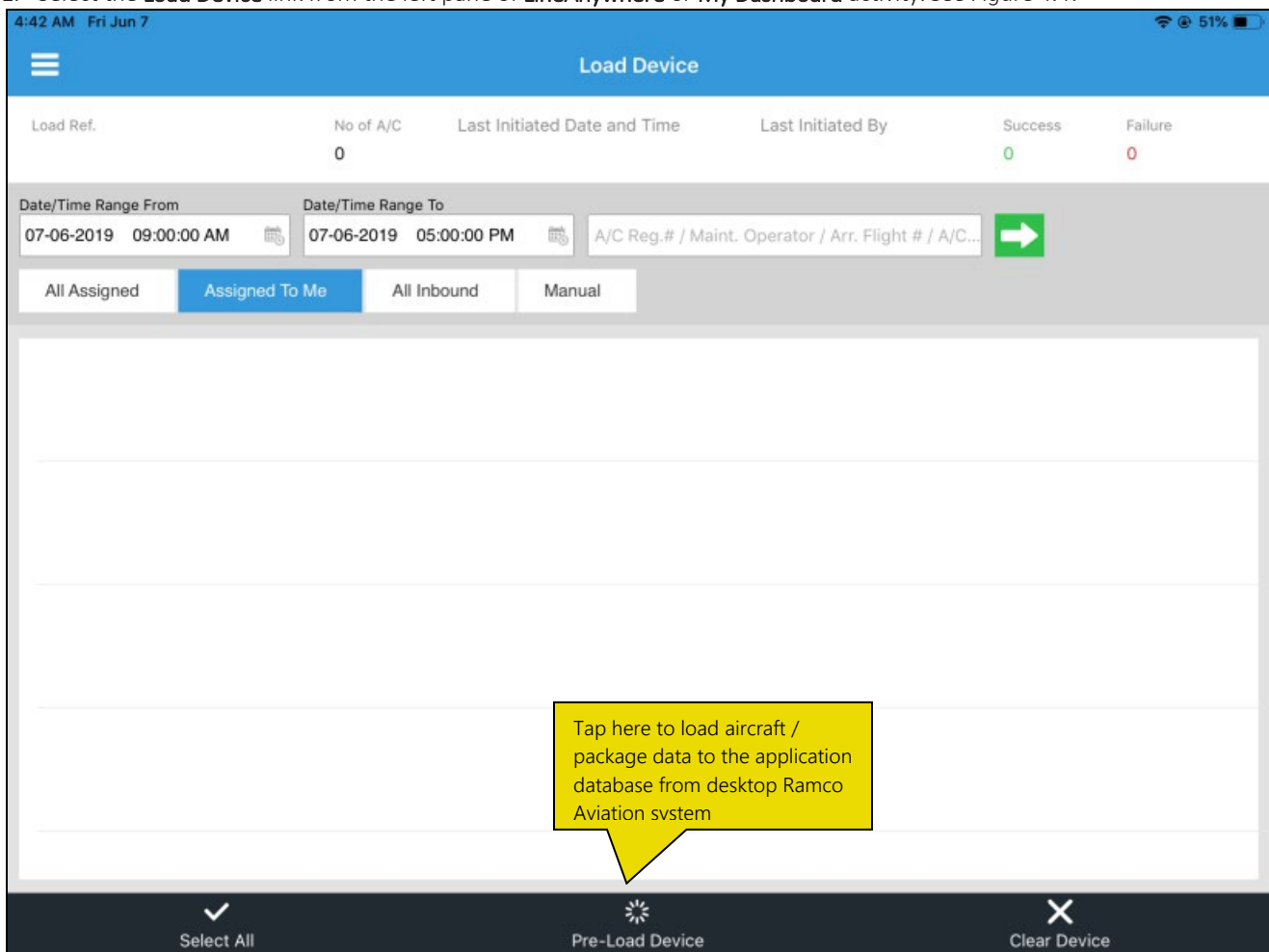


Figure 4.4: The Load Device Page

4.3.1 KEY CODE SEARCH

2. You can search for specific records from the retrieved data by specifying Key Search code. See Figure 4.5
3. To retrieve precise aircraft records, enter key code for **Aircraft Reg. #**, **Maint. Operator #**, **Arrival Flight #** and/or **Aircraft Model #** in the **Search** input box.

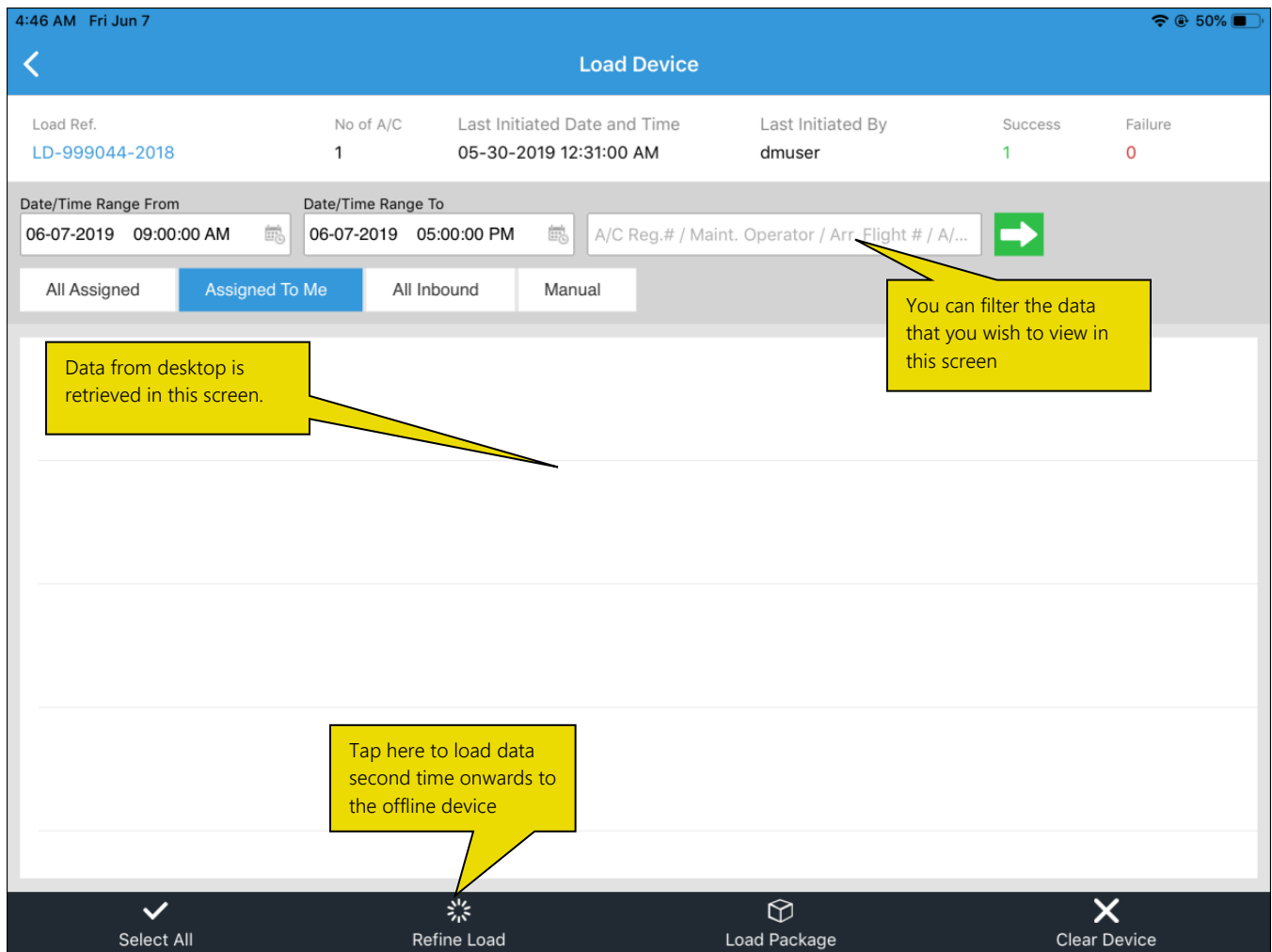


Figure 4.5: The LineAnywhere Login page

4. The **Load Device** page categorizes and displays the retrieved records in specific tiles. See Figure 4.6.

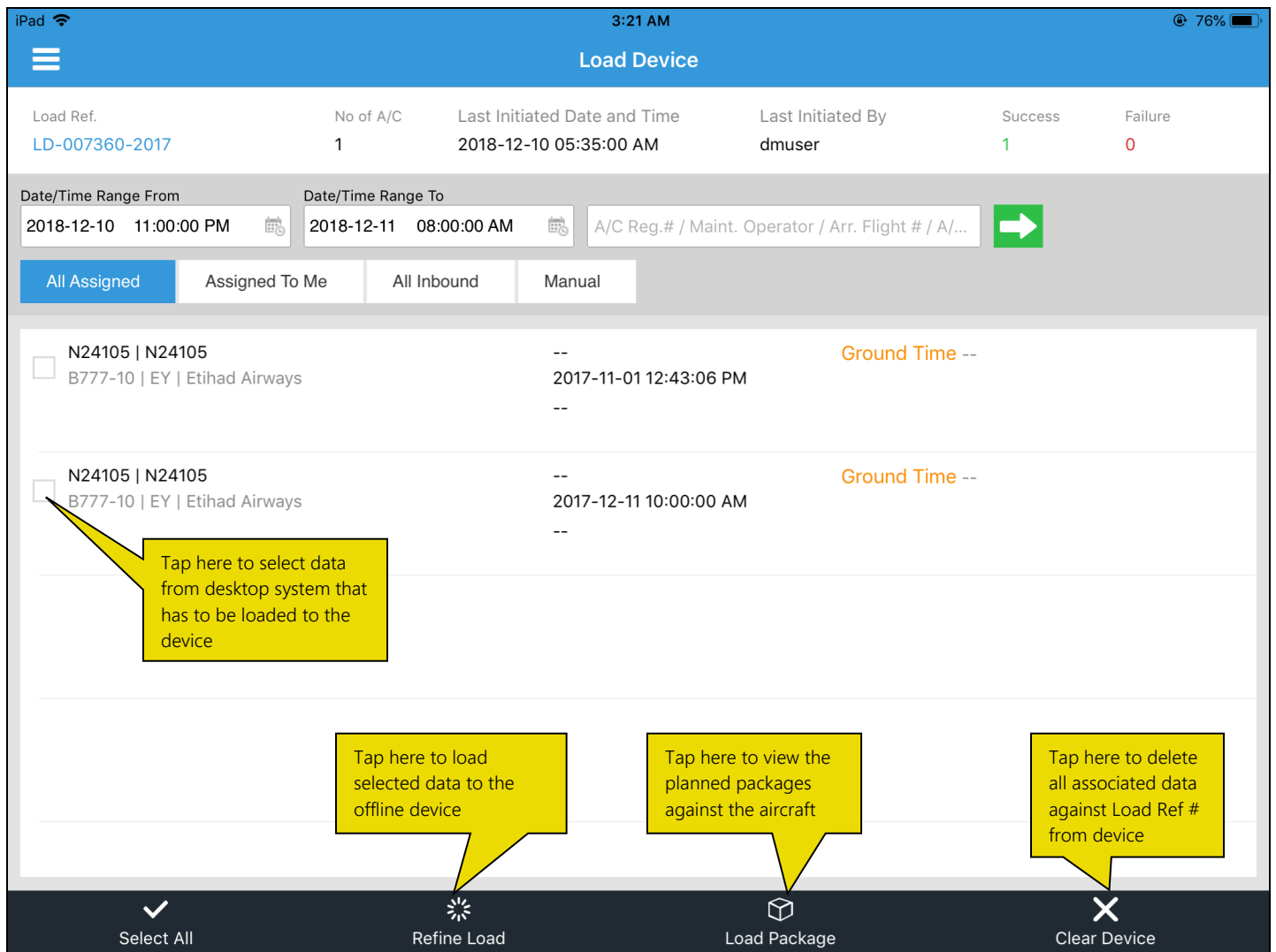


Figure 4.6: The Load Device screen

Note: The Refine Load button appears in place of the Load Device button, if you are loading data to the device second time onwards.

- On tap of **Load Package** button, the **Load Device** page 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. See Figure 4.7.

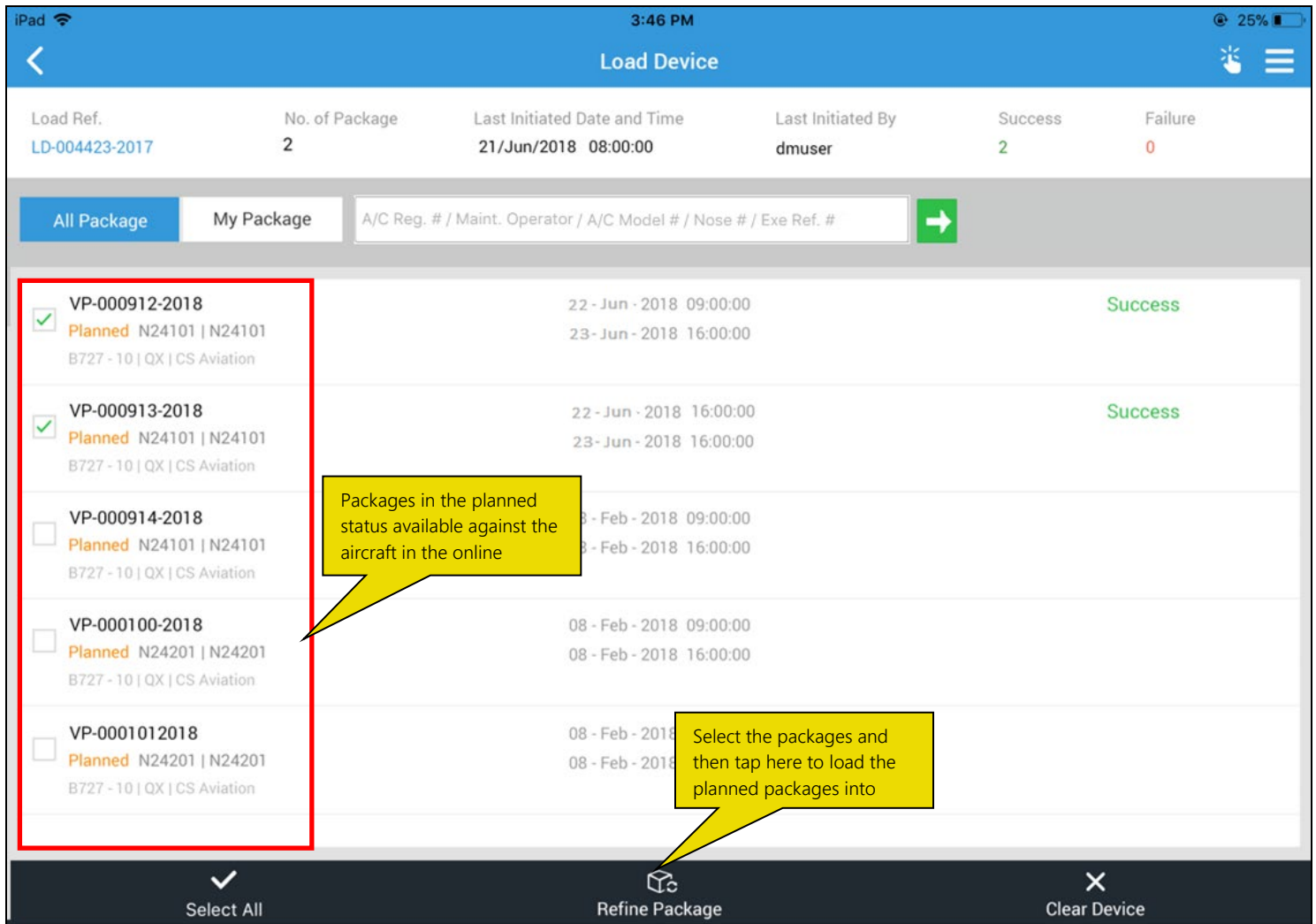


Figure 4.7 Loading data to a device

6. Select the packages in the **All Package** tab and then tap the **Refine Package** button to load the planned packages to the offline device. See Figure 7.
7. 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**. See Figure 4.8.

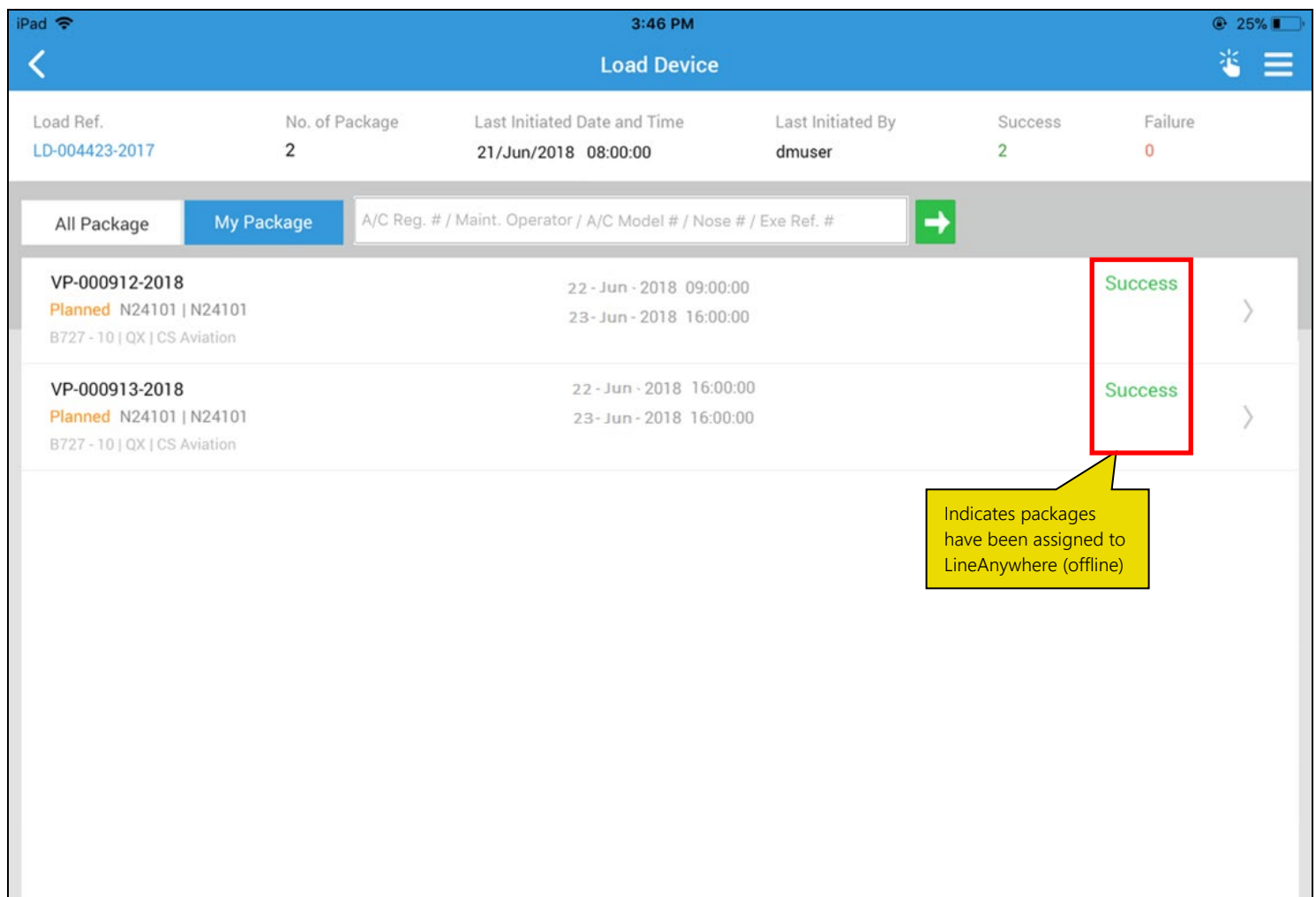


Figure 4.8. Loading data to a device

4.3.2 HEADER INFORMATION

Load Ref.	Unique # to track every load instance
No of A/C	Count of aircraft records associated with the load reference
Last Initiated Date & Time	Date/Time at which the load reference was last updated.
Last Initiated By	Employee # & Employee Name of the user who last updated the load reference.
Success	Count of aircraft records within the load reference for which the load process has been completed successfully.
Failure	Count of aircraft records within the load reference for which the load process was not completed successfully.

4.3.3 KEY CODE SEARCH

- To retrieve precise aircraft records, enter key code for **Aircraft Reg. #**, **Maint. Operator #**, **Arrival Flight #** and/or **Aircraft Model #** in the **Search** input box.
- Enter **Date/Time Range From** and **Date/Time Range To** for the period from which you want to retrieve records. By default,

these fields display the start date & time and end date & time of the current shift at the default station.

10. Tap the  button to retrieve aircraft.

4.3.4 FILTER CARDS

Filter Card	Data Retrieval
All Assigned	Tap on the filter card to retrieve the aircraft/flights that have been assigned to the employees in the Manage Aircraft – Employee Assignment activity for the specified date/time range.
Assigned to Me	Tap on the filter card to retrieve the aircraft/flights routing records that have been assigned (as primary employee or additional employee) to the login user in the Manage Aircraft – Employee Assignment activity for the specified date/time range
All In-bound	Tap on the filter card to retrieve the aircraft available on the ground in the station
Manual	Tap on the filter card to entire retrieve aircraft in 'Active' status from the Aircraft business component.

4.3.5 SELECTING RECORDS FOR LOAD

11. Tap **Select All** to mark all the aircraft records.
12. Alternatively, tap on individual aircraft records to select required records.

4.3.6 LOADING DATA TO THE DEVICE

13. Tap the **Load Device** button.

On tap of the button, unique load reference # is generated for the device and the details are updated in the header of the page. Key data including the following is copied to the device from Ramco Aviation:

- ▶ User Information on users with access to work centers associated with the default station. Note that only Active users and Active work centers with Class as Execution and Execution Capability as Line/Hangar/All will be taken into consideration.
- ▶ Planned Aircraft packages
- ▶ Latest Active revision of Maintenance programs
- ▶ Employee Information
- ▶ E-signature requirements
- ▶ Station along with Time Zone
- ▶ Work Center
- ▶ Aircraft Records
- ▶ Aircraft configuration, part and serial information, Item # definition for Model - Configuration Class combination
- ▶ LOPA
- ▶ Flight Routing Data
- ▶ Task Information
- ▶ Customer Information
- ▶ Part Basic Info
- ▶ Quick Codes & Metadata
- ▶ Set Options & Process Parameters

- ▶ Due List
- ▶ Discrepancy History
- ▶ Due items of sub-assemblies & task relationship

4.3.7 CLEARING DATA FROM THE DEVICE

1. Tap the **Clear Device** pushbutton to remove the aircraft record from the device.

4.4 MY DASHBOARD

My Dashboard supports offline users to accomplish the following:

- ▶ Review Employee - Aircraft assignments
- ▶ Provide Aircraft in-bound details from Aircraft Routing Information
- ▶ Review the Due List of aircraft
- ▶ Navigate to e-Log screen for managing packages
- ▶ Filter assignments based on arrival station and employee shift

1. Tap the **My Dashboard** link in the left pane of **LineAnywhere**. The **My Dashboard** page appears. See Figure 4.9.

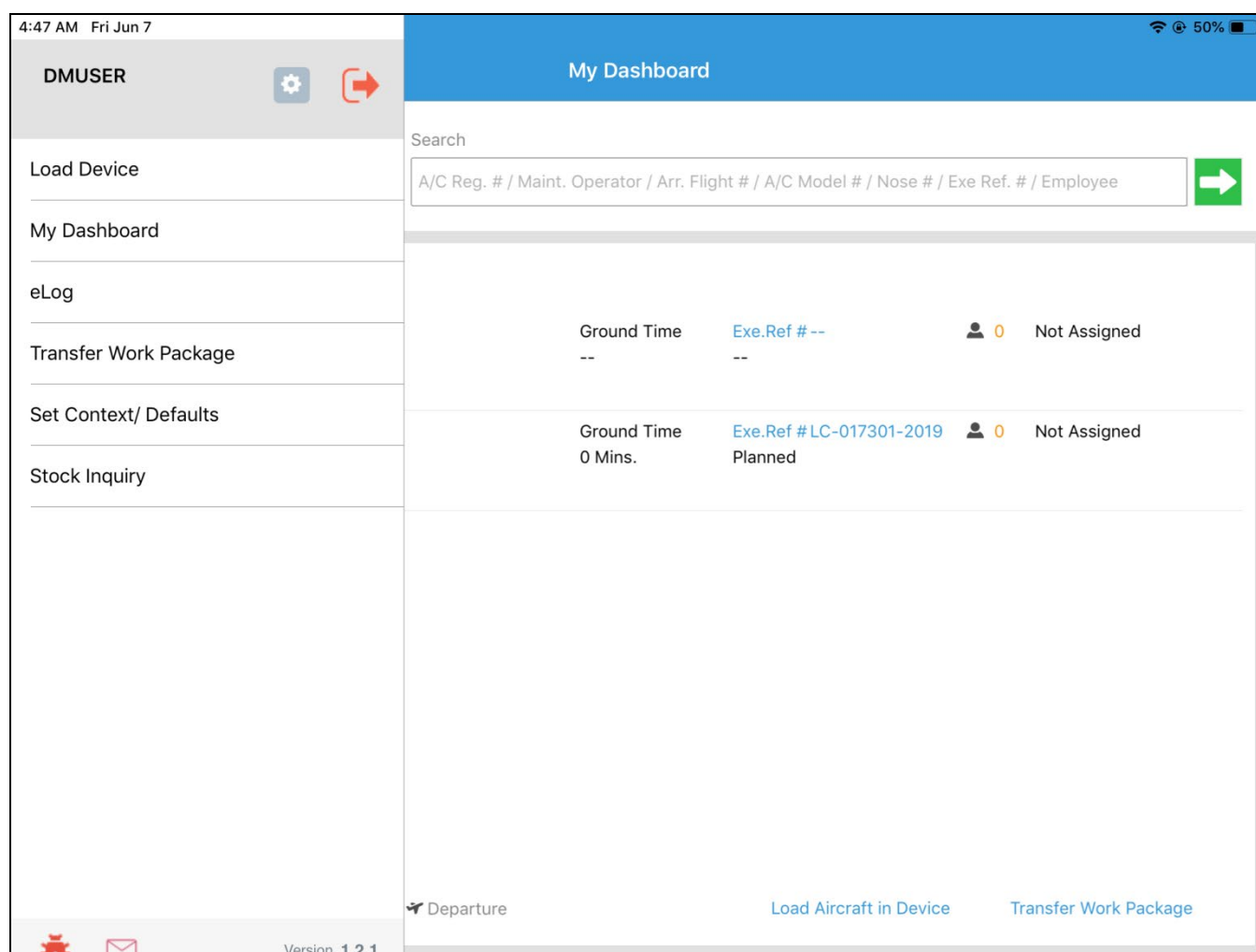



Figure 4.9: The My Dashboard page

2. Tap **Aircrafts** under View By to retrieve aircraft records on the basis of aircraft.
3. Tap **Work Package** under View By to retrieve aircraft records on the basis of aircraft.

4.4.1 KEY CODE SEARCH

4. Enter key code for Aircraft Reg. #, Maint. Operator #, Arr. Flight #, A/C Model #, Nose #, Package # and/or Employee in the Search input box.
5. Tap the  button to display aircraft records.

4.4.2 FILTER CARDS UNDER AIRCRAFTS VIEW

Filter Card	Data Retrieval
All	Tap on the filter card to retrieve the entire aircraft available in LineAnywhere.
Aircrafts Assigned to Me	Tap on the filter card to retrieve the aircraft mapped to the login user.

4.4.3 FILTER CARDS UNDER WORK PACKAGE VIEW

Filter Card	Data Retrieval
All	Tap on the filter card to retrieve the entire aircraft available in LineAnywhere.
Aircrafts Assigned to Me	Tap on the filter card to retrieve the aircraft mapped to the login user only.

6. On using Search with the **Aircrafts** filter card, the following details are retrieved for an aircraft are retrieved::
 - ▶ Aircraft Details
 - ▶ Flight Routing Details
 - ▶ Ground Time Details
 - ▶ Latest Package Details
 - ▶ Employee Assignment details
7. Alternatively, on using Search with the **Work Package** filter card, the following details are retrieved for the aircraft:
 - ▶ Aircraft Details
 - ▶ Flight Routing Details
 - ▶ Ground Time Details
 - ▶ Package Details
8. Swipe the multiline record to display the following buttons:
 - ▶ Create Package
 - ▶ Due List
9. Tap the **Create Package** button to access the **Manage Package** tab in eLog screen.
10. Tap the **Due List** button to open the **Due List** pop-up window

To proceed

- ▶ Tap the **Load Aircraft to Device** link to access the **Load Device** page.
- ▶ Tap the **Transfer Work Package** link to access the Transfer Work Package page

4.5 DUE LIST OF AIRCRAFT

The **Due List** page lists Due Tasks, As Required Tasks, Open Discrepancies and Non-Standard tasks assigned against aircraft. You can add these tasks to a work package to be executed on the aircraft.

1. Tap **Due List** from the aircraft record in My Dashboard. See Figure 4. 10.

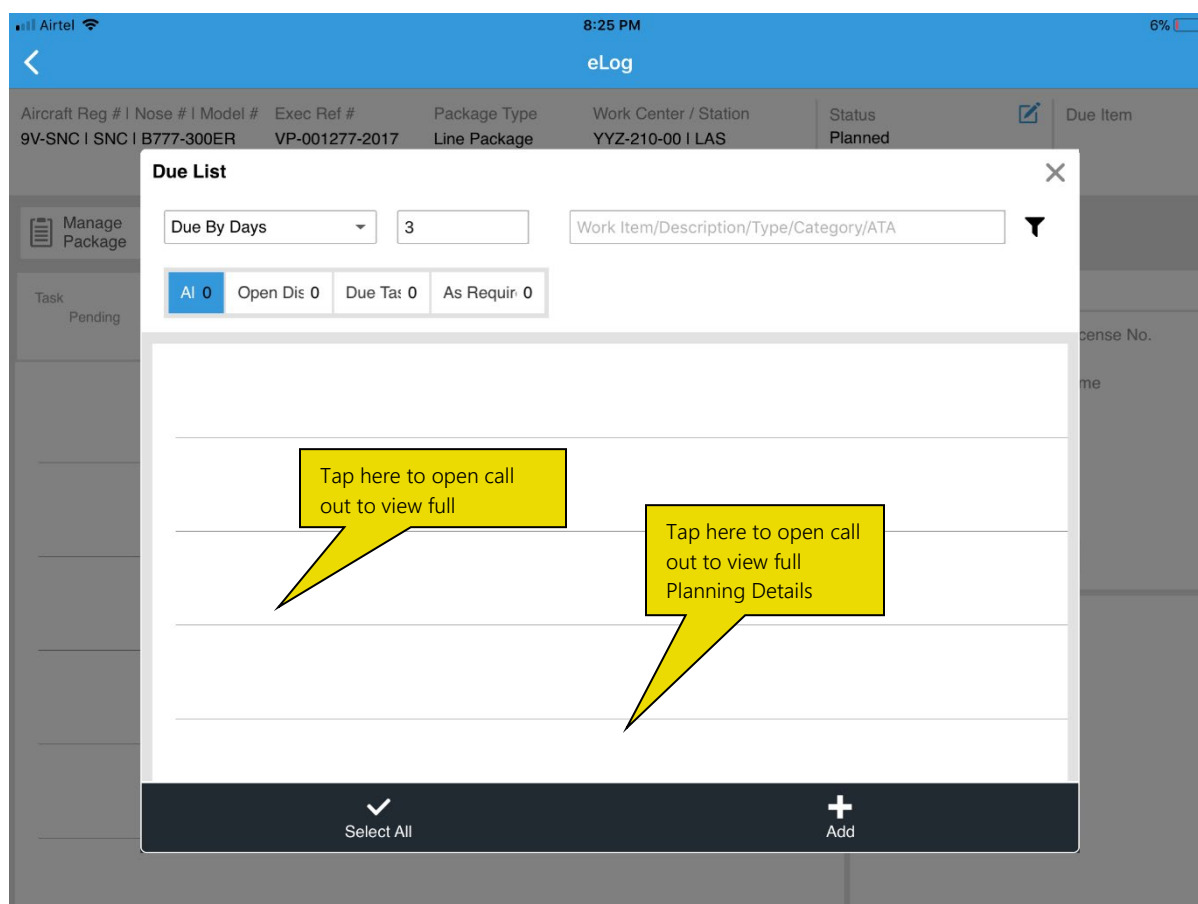


Figure 4. 10: Due List of tasks for aircraft

4.5.1 RETRIEVAL PERIOD

2. From the drop-down list box, select one of the following and then enter the UOM for time in the next input box (es).
 - ▶ Due By Days
 - ▶ Overdue By Days
 - ▶ Remaining FH
 - ▶ Remaining FC
 - ▶ Access Time (in Hrs. & Mins.)

4.5.2 KEY CODE SEARCH

1. Enter key code for **Work Item, Description, Type, Category** and/or **ATA** in the input box

4.5.3 FILTER CARDS

Filter Card	Data Retrieval
-------------	----------------


All	Shows the count of the Standard (Due & Overdue) tasks, As Required tasks, Open discrepancies and Non-Standard tasks against the aircraft in the device. Tap on the filter card to display these tasks for the aircraft.
Open Disc.	Shows the count of the discrepancies against the aircraft in the device. Tap on the filter card to display these tasks for the aircraft.
Due Tasks	Shows the count of and retrieves the Standard (Due & Overdue) tasks. Tap on the filter card to display these tasks for the aircraft.
As Required	Shows the count of and retrieves the Standard tasks with Prog. Item Type as "As Required". Tap on the filter card to display these tasks for the aircraft.


4.5.4 PERIOD FOR TASK RETRIEVAL

The period between current local station date and horizon date (Horizon Date = Current local station Date + Planning Horizon (Days))

4.5.5 ADD TASKS TO PACKAGE

3. Tap **Select All** to mark all the tasks and then tap **Add** to assign these tasks to the package.
4. Alternatively, tap the required tasks individually and then tap **Add** at the bottom of the page.

 *Note: The value you select here determines the options listed in the Schedule Reset Basis drop-down list box in the Request Short Term Escalation page.*

 *Note: Tasks related to the assigned tasks based on the Task Relationship definition in Maintenance Task are also automatically added to the package.*

4.6 MANAGE PACKAGES

1. Tap the **Manage Package** tab in **E-Log** page.
or
2. Tap the **Create Package** button to access the **Manage Package** tab in **E-Log** screen. See Figure 4 11.

11:15 AM Sat 9 May 90%

eLog

Aircraft Reg # | Nose # | Model # | Exec. Ref # | Package Type | Work Center / Station | Status | Due Item

JS-1819 | JSJ1819 | A320-211 | C000032 | Line Package | 185-20 | AIR | In-Progress | 2

Ownership | FH | FC

47.06 | 191

Record Indirect Time | Review Timesheet

Attachments

Less

Manage Package | Discrepancies | Tasks | Preview and Acceptance

Aircraft Reg # | Package Type | Work Center # | Station | Access Time

JS-1819 | Line Package | 185-20 | AIR | 2Hrs. 0Mins.

Flight Details

Arrival

Flight Code | Leg # | From Station

FL-101 | 2 | ADL

Sch.Arrival | Act.Arrival

09-05-2020 14:36:53 | 09-05-2020 11:15:29

Departure

Flight Code | Leg # | To Station

FL-101 | 3 | RME

Sch.Departure | Act.Departure

09-05-2020 11:14:54 | 09-05-2020 11:14:54

Additional Details

Save

This button will be enabled only if process parameter "Allow completion of Planned Packages having no planned jobs?" is set as 1

Figure 4. 11: Working with packages for aircraft

3. Enter **Aircraft Reg. #**. The flight schedule details for the aircraft are displayed in the page.
4. Select Package Type and Work Center #.
5. Enter Arrival and Departure details under Flight Details.
6. Enter Additional Details.
7. To modify **Access Time**, tap the icon available alongside. The **Edit Access Time** pop-up appears.
8. Tap the **Save** button to save details of package.
9. Tap the **Complete** button to conclude the package. The status of the package becomes **Completed**.
10. To cancel the package, tap the **Cancel** button. The status of the package becomes **Cancelled**.

4.7 PROCESS DISCREPANCIES

1. Tap the **Discrepancies** tab in **E-Log** page. See Figure 4.12.

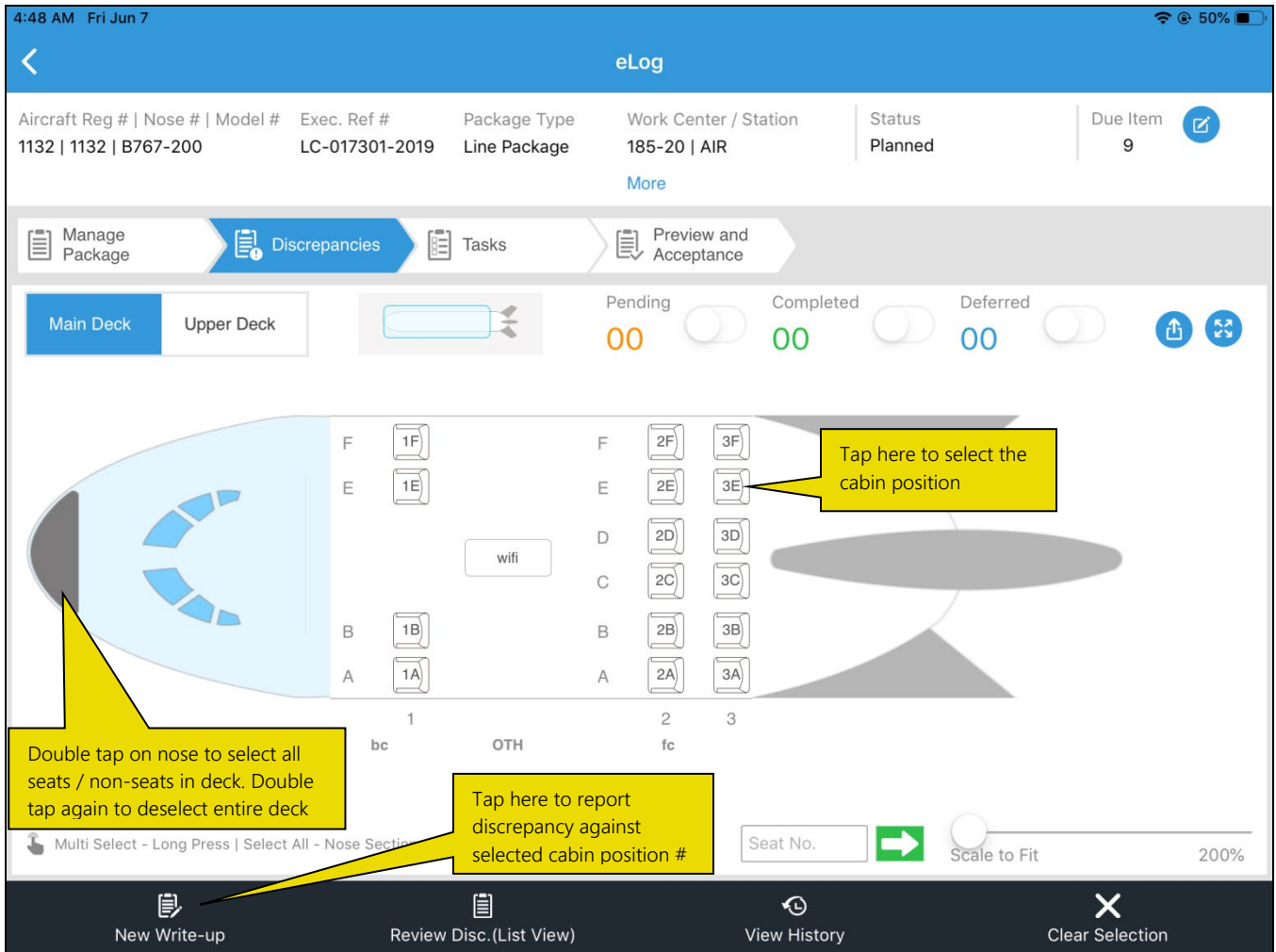


Figure 4.12: The LOPA view

2. Double tap on the nose to select seats/non-seats in the deck. The **Message** popup appears. See Figure 2.13.

However, on double click of the nose, the selection of seats/non-seats in the desk depends on the process parameter "Selection during double tap of Aircraft Nose in LOPA View?" during double tap of Aircraft Nose in LOPA View?in the Define Process Entities activity of Common Master as illustrated in the table next.

Process Parameter value	Selection in LOPA view
0 for Whole Deck	Entire deck of the aircraft
1 for Only Seats	Only seats in the deck of the aircraft
2 for Only Non-seats	Only non-seats in the deck of the aircraft
3 for Ask me each time	The Select popup appears whereby you can select any or the above

3. On double tap of nose in the LOPA view, the Select popup appears, See Figure 4.13.

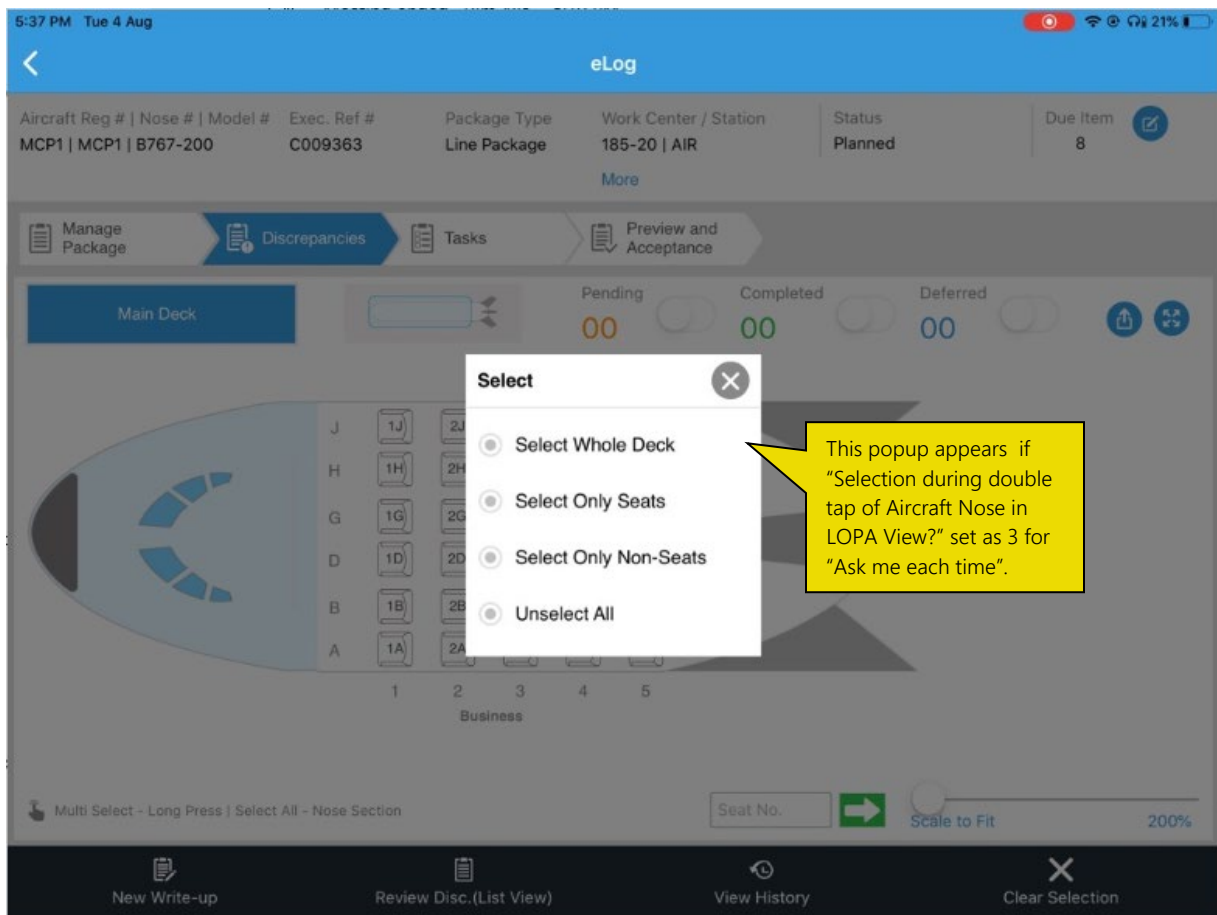


Figure 4.13: Selecting Only Seats from LOPA

From the **Select** popup,

4. Tap **Whole Deck** radio button to select both seats and non-seats in the deck of the aircraft.
5. Tap **Only Seats** radio button to select both only seats in the deck of the aircraft.
6. Tap **Only Non-Seats** radio button to select entities other than seats in the deck of the aircraft.
7. Tap **Unselect All** radio button to clear selection in the entire deck.
8. Tap **Cabin Position #** associated with the discrepancy in the **LOPA** view.
9. Tap **New Write-up** to open the **Discrepancy Details** tab. *See Figure 2.14.*

4.7.1 REPORTING NEW DISCREPANCY

1. Tap **+** to open the **New Write Up** screen and then record details of the new discrepancy against the aircraft.
2. Tap **Discrepancy Details** and then record details of the discrepancy. *See Figure Figure 414.*

3:26 PM Thu 26 Nov 82%

eLog

Aircraft Reg # | Nose # | Model # Exec. Ref # Package Type Work Center / Station Status Due Item
 AI-7078 | 2 | 737-200 VP-010337-2020 Line Package 185-20 | AIR Planned 0

More

Manage Package Discrepancies Tasks Preview and Acceptance Fuel / Oil Uplift

Scratch Under resolution

Discrepancy Details Resolution/Deferral Details

Description Log Item # ATA #
 Scratch Log # / LogItem # 57-30

Disc. Category Reported Station
 ATTRI

Cabin Position # Source Type No. NST-015...
 kz Task

Reported By Reported Date & Time
 00001452 30-10-2020 12:00:00 AM

Affected Function Defect Type
 No. of Channels Equipment Category

Safety Related Pax.Abuse?

Attachment

Attachments

LOPA View Save

Source Type, Doc # & Rev # is mandatory, if process parameter "Mandate source document on discrepancy reporting?" is set as 1 for Yes

Figure 4.14: The Discrepancy page

Note: If the process parameter "Retain original source document details for the deferred discrepancies added from Due List?" under the entity type Mobility and the entity LineAnywhere is set as 1 for Yes in the Define Process Entities activity of Common Master, the source task/discrepancy detail for the deferred discrepancies added to the package from Due List will remain unchanged.

3. Tap **Resolution/Deferral Details** and then record details of the resolution or deferral details, if you wish to defer the discrepancy. See Figure 4.15.
4. Tap the **Save** button.

Figure 4.15: Entering resolution / deferral details

Note: If you are adding a discrepancy from Due list, the Source Type, Doc. # and Rev # are mandatory and these will be copied from the previous package, if the process parameter "Retain original source document details for the deferred discrepancies added from Due List?" under the entity type Mobility and the entity LineAnywhere is set as 1 for Yes in the Define Process Entities activity of Common Master.

4.7.2 FILTER CARDS

Filter Card	Data Retrieval
Open	Shows the count of discrepancies in the Under Resolution or Pending Deferral status. Tap the filter card to display these discrepancies.
Closed	Shows the count of discrepancies in the Closed or Cancelled status. Tap the filter card to display these discrepancies.
Deferred	Shows the count of discrepancies in the Deferred status. Tap the filter card to display these discrepancies.

4.7.3 EDITING DISCREPANCY

- Select the discrepancy and then select **Discrepancy Details** on the right to show details. Modify the record and then tap the **Save** button.

Dual Authentication required???

- If **Dual Authentication** is enabled for Action 'Sign-off' and Entity **LineAnywhere** in the **Configure Dual Authentication** screen, on selecting Action as Cancelled, Closed or Completed, the **Dual Authentication** window appears.

7. Enter PIN/Password to sign off the discrepancy based on Authentication Type set for Applicability Group Mobility and Entity MechanicAnywhere in the Configure Dual Authentication screen.

4.7.4 DISCREPANCY STATUS UPDATE BASED ON ACTION

Action	Discrepancy Status
Close	Closed
Cancel	Cancelled
Defer	Deferred
Blank	Under Resolution

To proceed

- τ Tap **View History**.

4.7.5 DEFERRING DISCREPANCY

1. Select the discrepancy you want to defer and then tap on **Resolution/Deferral Details** on the right to show details. The Defer popup appears. *See Figure 4.16.*
2. Specify the deferral details for the discrepancy.
3. Tap on the **Save** pushbutton.

Defer

Deferral Item # *i* Deferral Type

Reason for Deferral Auth.Ref.#

FH FC Calendar Other Parameters

▼ **Parts Requirement**

Part #	Qty	UoM
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Save

Parts requirement is mandatory, if process parameter "Deferral Reasons for which Part Requirements has to be mandated?" is set

Figure 4.16: The Defer popup for discrepancies

4.7.6 VIEWING DEFERRAL ITEM # DETAILS

A discrepancy upon deferment is allotted a deferral item # based on the deferral type (CDL/MEL). The deferral item # is tagged to such critical information including "Inoperative instruments and equipment" lists that help in operating the aircraft under specific conditions. The deferral item # also covers Maint. /Operational procedures and placard instructions to be followed during the inspection.

1. Enter the deferral item # for the discrepancy and then tap the *i* icon in the **Defer** popup. The **Deferral Item # Details** section appears. See Figure 4.17.

iPad 10:50 PM 6%

< eLog

Aircraft Reg # | Nose # | B7
N24104 | N24104 | B7

Due Item 0

Manage Package

Discrepancy

Discrepa

Description
12312

Action
Defer

Repair Clas

▼ Correctiv

More

LOPA view

Save

Defer

Deferral Item #
2210-04

Deferral Type
MEL

Deferral Item Details

Deferral Item#	Deferral Type	Deferral Category
2210-04	MEL	CATEGORY D

Maint. Procedures
May be inoperative provided operations do not require its use.

Operational Procedures
May be out of currency provided:

- Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch
- Procedures are established and used to verify status and suitability of Navigation Facilities used to define route of flight
- Approach Navigation Radios are manually tuned and identified

Placard Instructions
May be damaged, missing, or removed. If damaged and vent is loose in housing or ducting, remove vent from duct

Conditions
Items of equipment which may safely be permitted to be unserviceable under certain conditions. Those items which are essential for safety under all conditions will not necessarily be included.

Remarks
Any in excess of those required by 14 CFR may be inoperative provided it is not powered by the Emergency AC Bus, Emergency DC Bus, Battery Bus, Battery Direct Bus, or the DC Transfer Bus and not required for

Figure 4.17: The expanded Defer popup

4.8 MANAGE TASKS

1. Tap **Tasks** tab in the **eLog** page. The **Tasks** tab page displays tasks from the work package. See Figure 4.18.

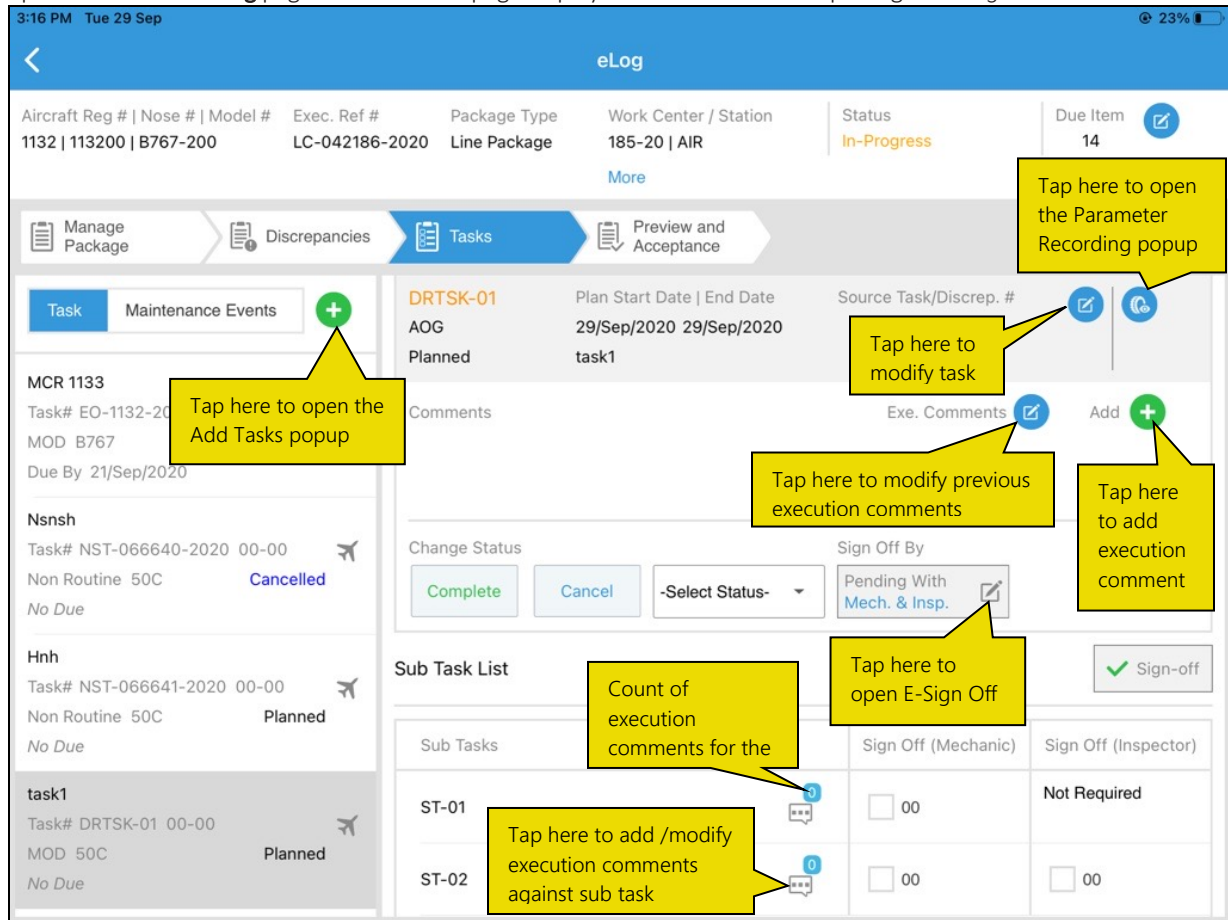
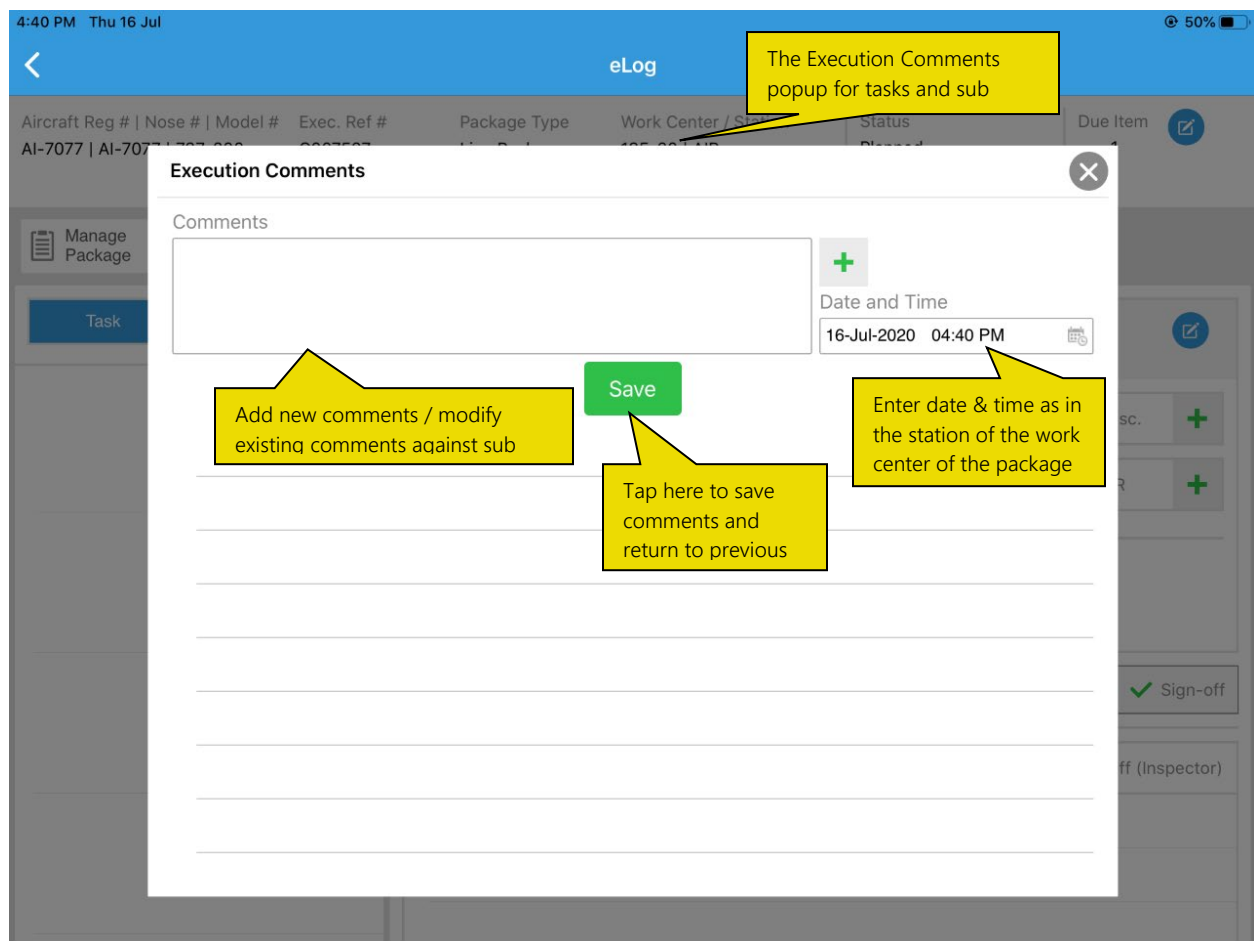


Figure 4.18: The Tasks page

2. Tap  on to open the **Execution Comments** popup. See Figure 4.19.



See Figure 4.19.

4.8.1 CREATING AND ADDING TASKS TO PACKAGE

You can create tasks in LineAnywhere and then add them to the work package. See Figure 4.20.

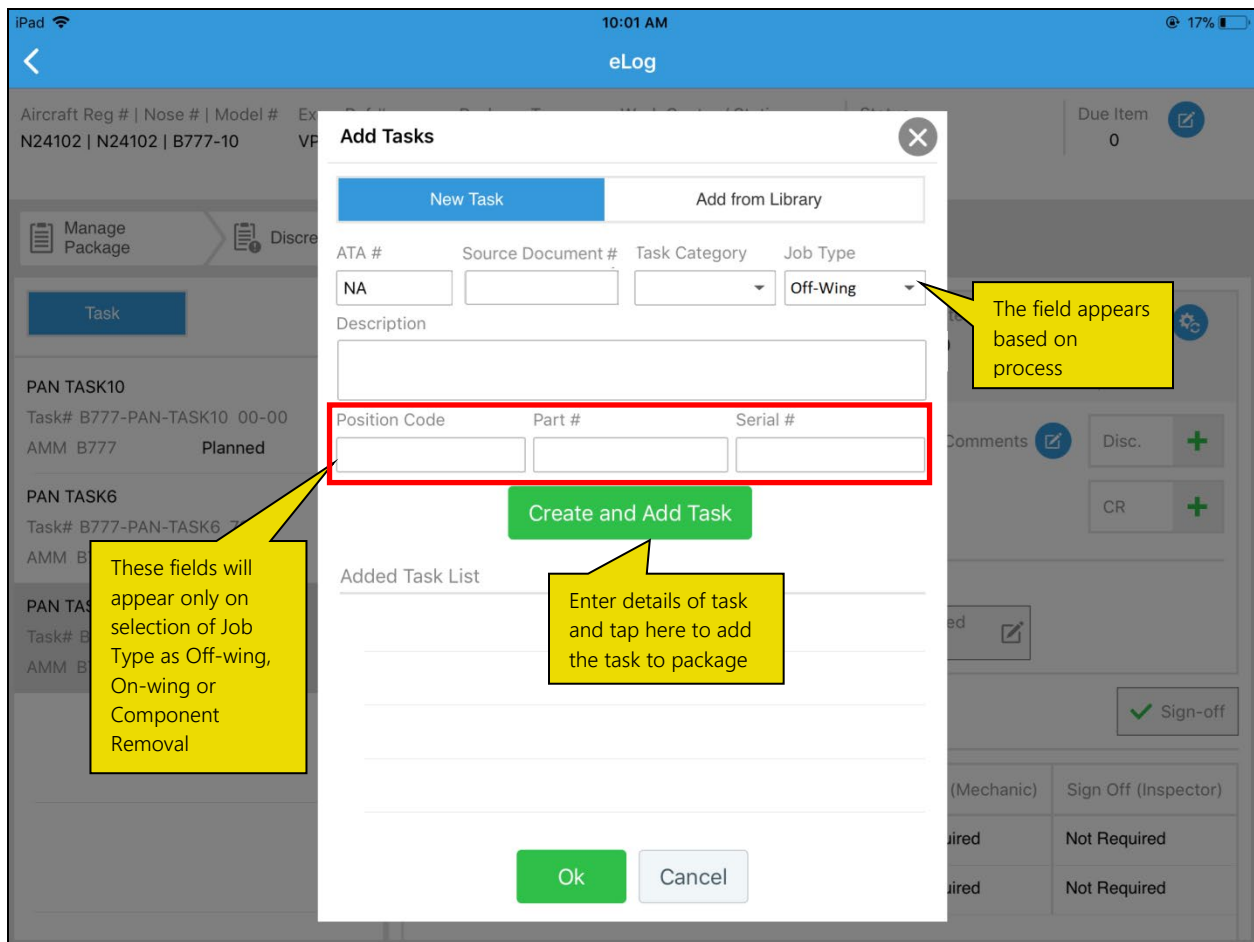


Figure 4.20: The Add Tasks popup

4.8.2 ADD TASKS FROM LIBRARY TO PACKAGE

Alternatively, you can select a task from the library and add the same to the package. The library tasks refer to tasks loaded to the LineAnywhere device from the desktop Ramco Aviation system. See Figure 4 21.

iPad 10:01 AM 17%

eLog

Aircraft Reg # | Nose # | Model # | Ex
N24102 | N24102 | B777-10

Due Item
0

Manage Package Discr

Task

PAN TASK10
Task# B777-PAN-TASK10 00-00
AMM B777 Planned

PAN TASK6
Task# B777-PAN-TASK6
AMM B777

PAN TASK
Task# B777-PAN-TASK
AMM B777

Add Tasks

New Task Add from Library

Task # Base Aircraft Model # ATA # Job Type
Off-Wing

Description

Position Code Part # Serial #

Add Task

Added Task List

Ok Cancel

The field appears based on process

Tap here to add the tasks to

These fields will appear only on selection of Job Type as Off-wing, On-wing or Component Removal

Figure 4.21: The Add from Library tab

4.8.3 TASK ADDITIONAL INFORMATION

1. The **Additional Information Info** popup appears. See Figure 4.22.

The screenshot shows the 'eLog' mobile application interface. At the top, the status bar displays '11:03 PM Tue 17 Mar' and '100%' battery. The app header is blue with a back arrow and the title 'eLog'. Below the header, a summary bar shows aircraft details: 'Aircraft Reg # | Nose # | Model # | Exec. Ref # | Package Type | Work Center / Station | Status | Due Item'. The values are: 'N801NW | 3301 | A330-300 | LP017041942 | Line (CQ) | LAX-LINE | LAX | Completed | 5'. A 'More' link is visible. Below this, a navigation bar has tabs: 'Manage Package', 'Discrepancies', 'Tasks', and 'Preview and'. The 'Tasks' tab is active. On the left, a task card for 'IFE SYS HEALTH CK 3B' is visible. The main content area is partially obscured by a 'Task Additional Info' popup. The popup has a close button (X) in the top right. It contains the following fields and controls: 'Actual Start / End Date' with a date range of '17-Mar-2020 02:27:25' to '17-Mar-2020 03:28:52'; 'Actual Man Hours' with a value of '0.25'; 'Equipment Category' with a dropdown set to 'CSS'; 'Equipment / Tool Part' and 'Serial #' as empty text boxes; 'Exec. Code' with a dropdown set to 'AIRLINE MAINTENANCE'; and 'Log Item #' as an empty text box. At the bottom of the popup are three toggle switches: 'Mechanic' (checked), 'Inspector' (unchecked), and 'RII' (unchecked). A green 'Done' button is at the bottom center. A yellow callout box with a pointer to the 'Log Item #' field contains the text 'Log Item # must be unique for'. In the background, a 'Sign-off' button and a signature 'vitanatchim 123515' are visible.

Figure 4.22: Recording additional information for tasks

4.8.4 CHANGE /E-SIGN OFF OF TASKS

The screenshot displays the 'eLog' interface on a mobile device. At the top, it shows the time '2:18 AM Tue 17 Mar' and battery status '100%'. Below this is a header bar with a back arrow and the title 'eLog'. The main content area shows aircraft details: Aircraft Reg # | Nose # | Model # | Exec. Ref # | Package Type | Work Center / Station | Status | Due Item. The values are: N801NW | 3301 | A330-300 | LP017041942 | Line (CQ) | LAX-LINE | LAX | In-Progress | 5. Below this is a 'More' link. A 'Tasks' tab is selected, showing a list of tasks. A 'Change Status / E-Sign Off' dialog box is open, allowing users to update task status and add comments. The dialog box includes fields for Status (set to 'Completed'), Actual Start / End Date (17-Mar-2020 02:18:20 to 02:18:39), Actual Man Hours (0.25), Equipment / Tool Part, Serial #, Exec. Code, Log Item #, and Execution Comments. A yellow callout box points to the 'Log Item #' field with the text: 'Log Item # must be unique for task. Also, Log Item # may or may not be mandatory for tasks in Completed / Closed / Pre-Closed status based on process'. A green 'Done' button is at the bottom of the dialog box. The background shows the 'Tasks' list with a task 'IFE SYS HEALTH CK 3B' and a signature 'vitanatchim 123515'.

Figure 4. 23 Changing task status / signing off tasks

4.8.5 INCLUDING TASKS ASSOCIATED WITH MAINTENANCE EVENTS IN THE PACKAGE

The Maintenance Events tab will appear only if the aircraft work package contains any task of Program Type “Event Driven” and the task # is mapped with Maintenance Event # in the latest active revision of the aircraft maintenance program. However, tasks associated to maintenance events are loaded to the LineAnywhere application during loading /reloading data to the device. See Figure 2.25.

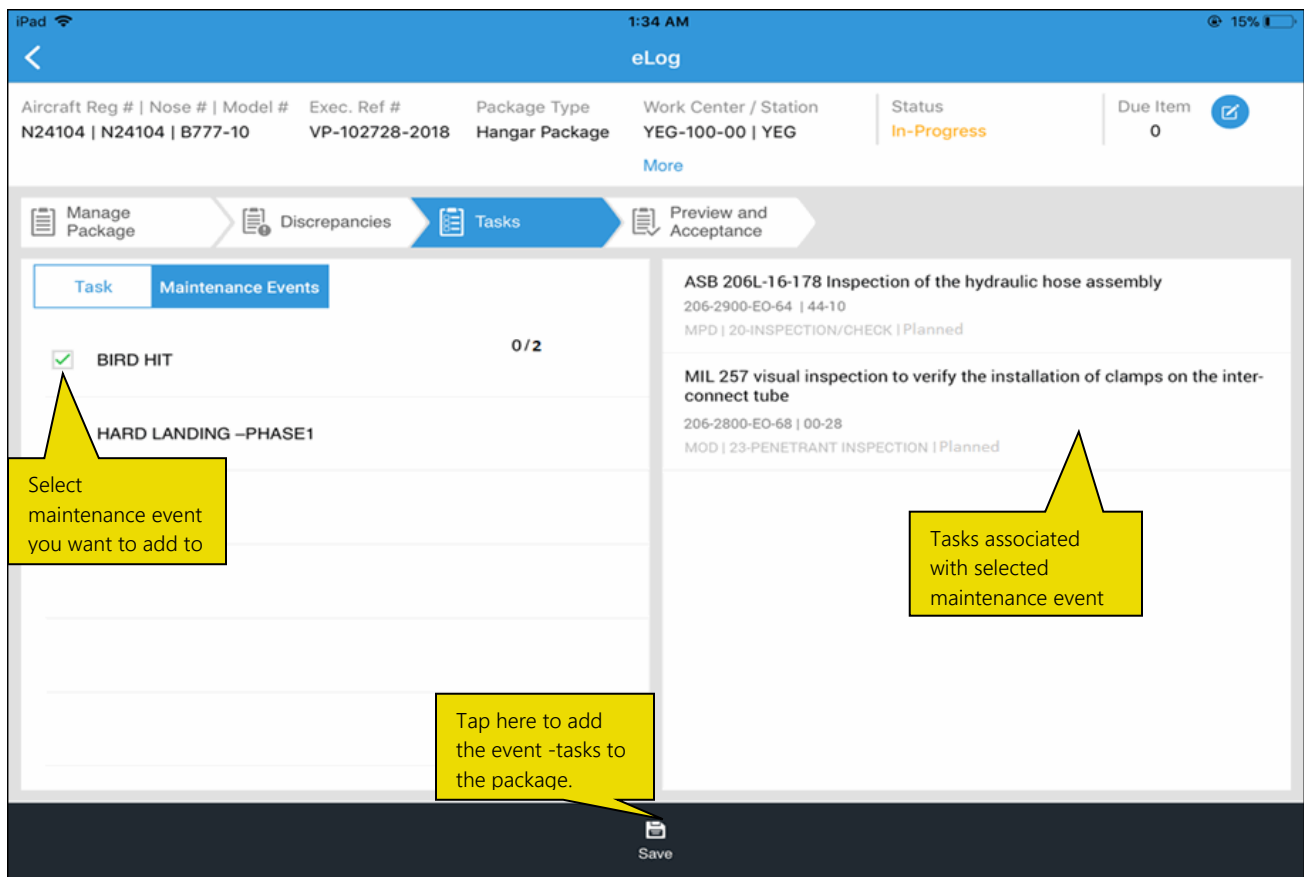



Figure 4. 24 Adding Maintenance Events to package

4.8.6 PARAMETER RECORDING FOR TASKS / SUB TASKS

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. To record parameter readings in the offline mode to track maintenance activities executed in remote locations, follow the instructions given next. Note that the same instructions hold good for updating parameters for sub tasks also.



1. Tap on the  icon. The **Parameter Recoding** popup appears. See Figure 4.25.
2. Enter the **Value/Eval. Response** and **Exe. Remarks** fields for the task.
3. Tap on the **Update Task** button.

10:23 PM Mon 26 Nov

eLog

Parameter Recording 1IT2-B777-10IT2-B777-10

Task Sub Task

Parameter	Value/Eval.Response	Exe.Remarks	Update Date & Time	Updated By
D FC			2018-11-26 10:23:26 PM	00001413
D FH			2018-11-26 10:23:26 PM	00001413

Parameters defined against the task

Conditional Evaluation

Parameter	Trigger Value	Follow-up Action	Follow-up Task#	Follow up Instruction	Remarks
<input type="checkbox"/> FC	12/ Min 8.0 : Max...	Initiate Schedule	T3-B777-10		

Follow Legends

Mandatory Delta Value New Value

Update Task

Multiline displays Conditional evaluation set for the parameters

Figure 4. 25: The Parameter Reading tab

4.8.7 HEADER INFORMATION

Aircraft Reg. #/Nose #/ Model #	The aircraft on which the task must be executed.
Exe. Ref. #	The package in which the task has been added.
Package Type	The type of the package, such as Log Card, Line Package
Work Center/ Station	The work center and station at which the task will be executed on the aircraft
Status	The status of the package

4.8.8 MANAGING TASKS

1. Tap the **+** button to create new task and then add the task to the current work package. The New Task pop-up with details of the work package appears.
2. Tap the required task to show details on the right of the screen.
3. Tap to create discrepancy against the task.
4. Tap to create component replacement against the task.
5. To complete a task, tap **Complete** to open the **E-Sign Off** pop-up and then **Sign Off** the task.
6. To cancel a task, tap **Cancel** to open the **E-Sign Off** pop-up and then **Sign Off** the task.

7. To change the status of the task, select the required status from the drop-down list box.
8. Tap adjacent to **Exe. Comments** to open the **Execution Comments** pop-up and enter execution details.
9. Under **Sub Task List**, tap the sub task and sign off for mechanic or inspector.

4.8.9 CHANGING STATUS OF TASKS

You can change the status of task after sign off. See Figure 4.26.

Change Status / E-Sign Off

Change Status

Status:

Actual Start / End Date:

Actual Man Hours:

Equipment / Tool Part:

Serial #:

Exec. Code:

Execution Comments:

E-Sign Off

Sign Off By:

Date and Time:

Employee #:

PIN:

Equipment Category:

Comments:

Figure 4.26: The Parameter Reading tab

4.9 REPLACING COMPONENTS

In areas with limited Internet connectivity, the LineAnywhere application facilitates offline aircraft maintenance activities. Component Replacements transactions form bulk of routine aircraft maintenance activities and the provision to perform CR transactions in offline mode using LineAnywhere has proven to be a boon for aircraft maintenance engineers (AME). AME can perform the following component replacement (CR) transactions:

- ▶ Remove, Install, Replace, Swap and Cannibalize parts
- ▶ Record Mfr. Lot #/ Lot # during Installation of part
- ▶ Record Mod # of part during removal
- ▶ Record CR with and without aircraft configuration
- ▶ Review List of CR against Package #
- ▶ Review and select Position # and Level # from Aircraft configuration
- ▶ Generate Part Tag report for removed components in Remove , Replace, Cannibalize and Swap transactions

1. Tap **Component Replacement** link in the Tasks, Discrepancy or Preview & Acceptance tab of E-Log. *See Figure 4.27.*

Figure 4 27: The Component Replacement page

4.9.1 HEADER INFORMATION

Aircraft Reg. # Nose # Model #	The Reg. #, Nose # and Model # of the aircraft
Exec. Ref. #	The work package to be executed on the aircraft

Package Type	The package type of the work package
Work Center Station	The primary work center and station of the work package.
FH FC	The total flight hours recorded for the aircraft till date.
FC	The total flight cycles recorded for the aircraft till date.

4.9.2 COMPONENT REPLACEMENT THROUGH DISCREPANCY

1. If **Discrepancy** button bar is defaulted/ selected, the adjacent drop-down list box displays discrepancies in 'Under Resolution', 'Pending Deferral', 'Deferred' and 'Closed' status from the package # of the aircraft.(Note: The Discrepancy button will be defaulted, if you have navigated to the **Component Replacement** page from the **Discrepancies** tab.)

4.9.3 COMPONENT REPLACEMENT THROUGH TASK

1. If **Task** button bar is defaulted/ selected, the adjacent drop-down list box displays tasks in 'Planned', 'In-Progress', 'Completed', 'Closed', 'Deferred', 'In-Complete', 'Pre-Closed' from package # of the aircraft. (Note: The Task button will be defaulted, if you have navigated to the **Component Replacement** page from the **Tasks** tab.)
2. Tap **Remove, Install, Replace, Swap** or **Cannibalize** and then enter the component replacement transaction details.
3. Tap **Save** to record details.
4. Tap **Confirm** to open the CR Confirmation pop up.
5. Tap Create New CR.

4.10 BOOKING TIMESHEET

1. Tap **Review** Timesheet in the **eLog** screen. The **Review Timesheet** page appears. See Figure 2.28.

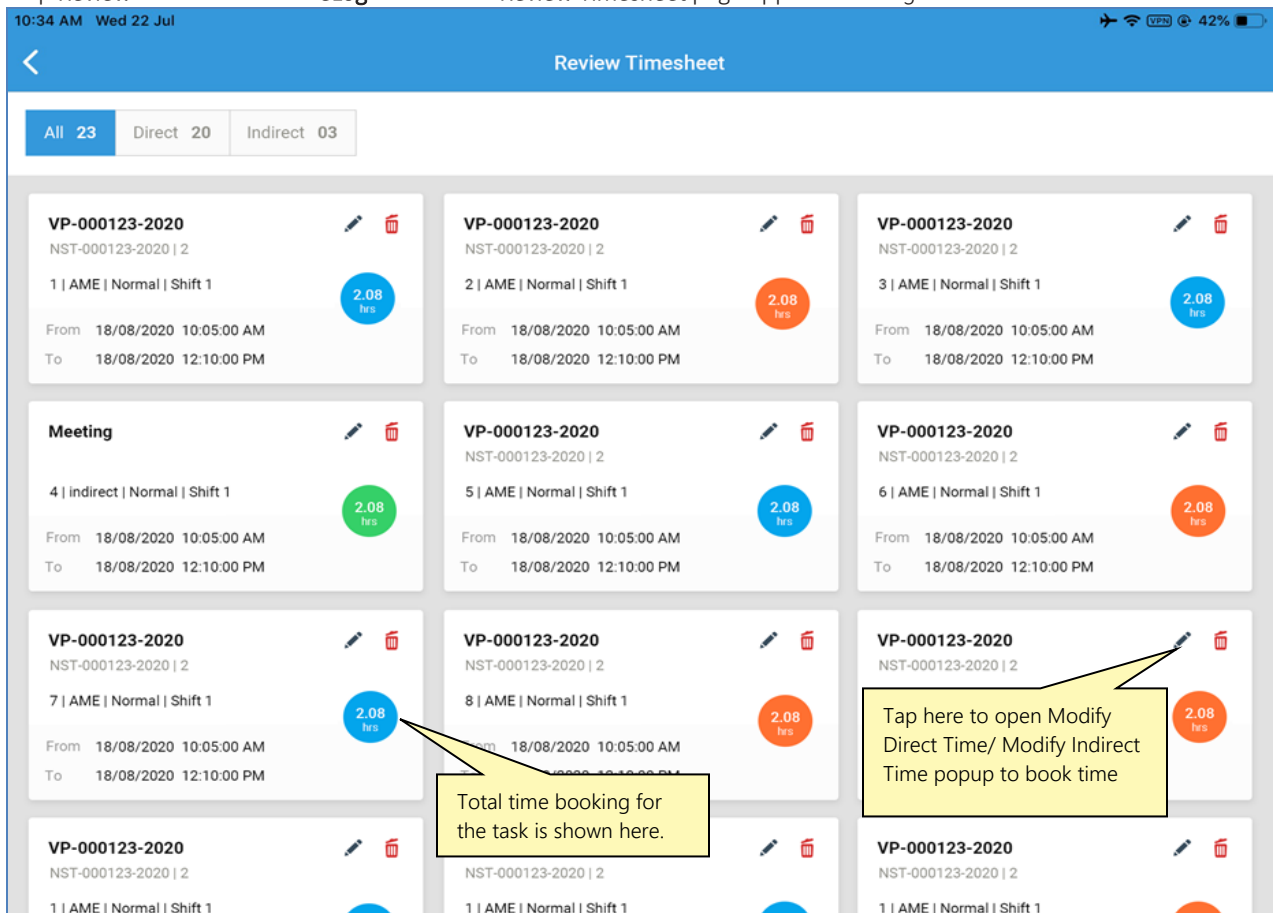


Figure 4 27: Time booking dashboard

The timesheet distinction is shown using color-coded AND highlighted total time:

- ▶ Orange - Discrepancy
- ▶ Blue – Task
- ▶ Green - Indirect Time

4.11 SIGNING OFF TASK /DISCREPANCY

1. Tap **Pending with Mechanic & Inspector** (or the pre-set sign off requirement) found among task details in the **Task** tab of E-Log. The E-Sign Off popup appears. See Figure 4.28.
2. Enter **Employee #** of the login user who signed off the task / discrepancy
3. Enter **PIN** of employee who signed off the task / discrepancy
4. Enter Equipment Category
5. Enter **Date and Time** of sign off.
6. Tap **Sign Off** to sign off task

The screenshot shows the eLog mobile app interface. At the top, the status bar displays '10:48 AM Tue 2 Jul' and '3%' battery. The app header is blue with a back arrow and 'eLog'. Below the header, there's a summary bar with fields: Aircraft Reg # (JS-1821), Nose # (JS-1821), Model # (A320-211), Exec. Ref # (VP006524-2019), Package Type (Line Package), Work Center / Station (185-20 | AIR), Status (Planned), and Due Item (7). A 'More' link is below this bar. The main screen has a 'Task' tab selected, showing a task list with 'dgajkkkkkf' and 'Task# 1-EO-TASK LDT B737'. An 'E-Sign Off' popup is centered, with a close button (X) in the top right. The popup has a 'Sign Off By' field, a 'Sign Off History' section, and a form with fields for 'Employee #', 'PIN', 'Equipment Category', 'Date and Time', and 'Comments'. A green 'Sign-off' button is at the bottom of the popup. The background shows a table with columns for equipment details and status.

Equipment	Status	Remarks
new testing	Not Required	Not Required
test	Not Required	Not Required

Figure 4.28: The Task Sign off popup

4.12 STOCK INQUIRY

The **LineAnywhere** offline mobile application facilitates mechanics to inquire availability of parts essential for the execution of maintenance tasks in offline remote warehouses.

1. Tap **Stock Inquiry** in the left pane of My Dashboard page. See Figure 4.29.

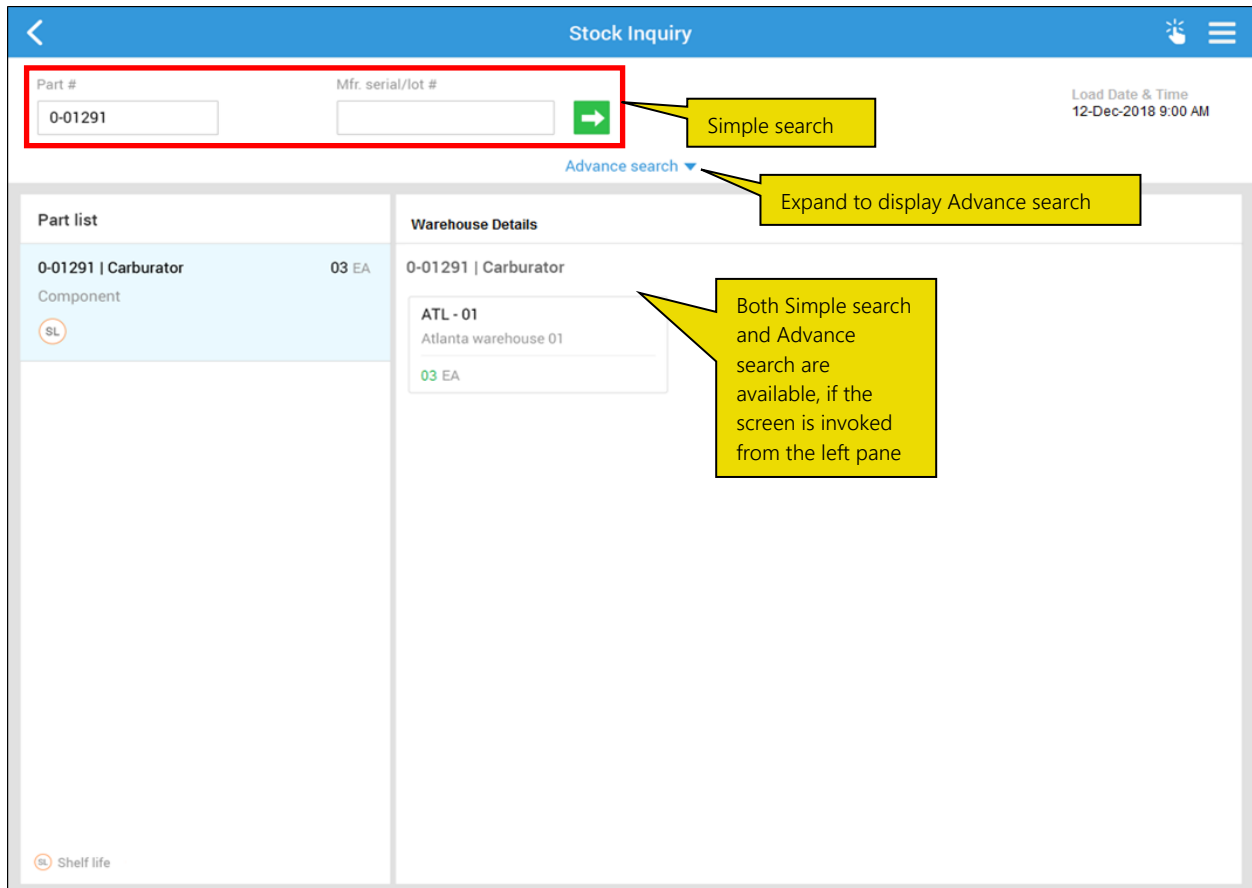





Figure 4.29: The Stock Inquiry screen

2. Specify Simple search and then tap  to retrieve the parts available against the Serv. Request warehouses of Default Work Center set in the **Set Preferences** and **Load Device** screens.
3. For more precise and rapid retrieval of part availability information, expand and specify Advance Search criteria and then tap .
4. You can tap the  icon in the **Component Replacement** screen and the **View Part Requirements** popup to show the available quantities of the parts. See Figure 4.30.

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** search criteria

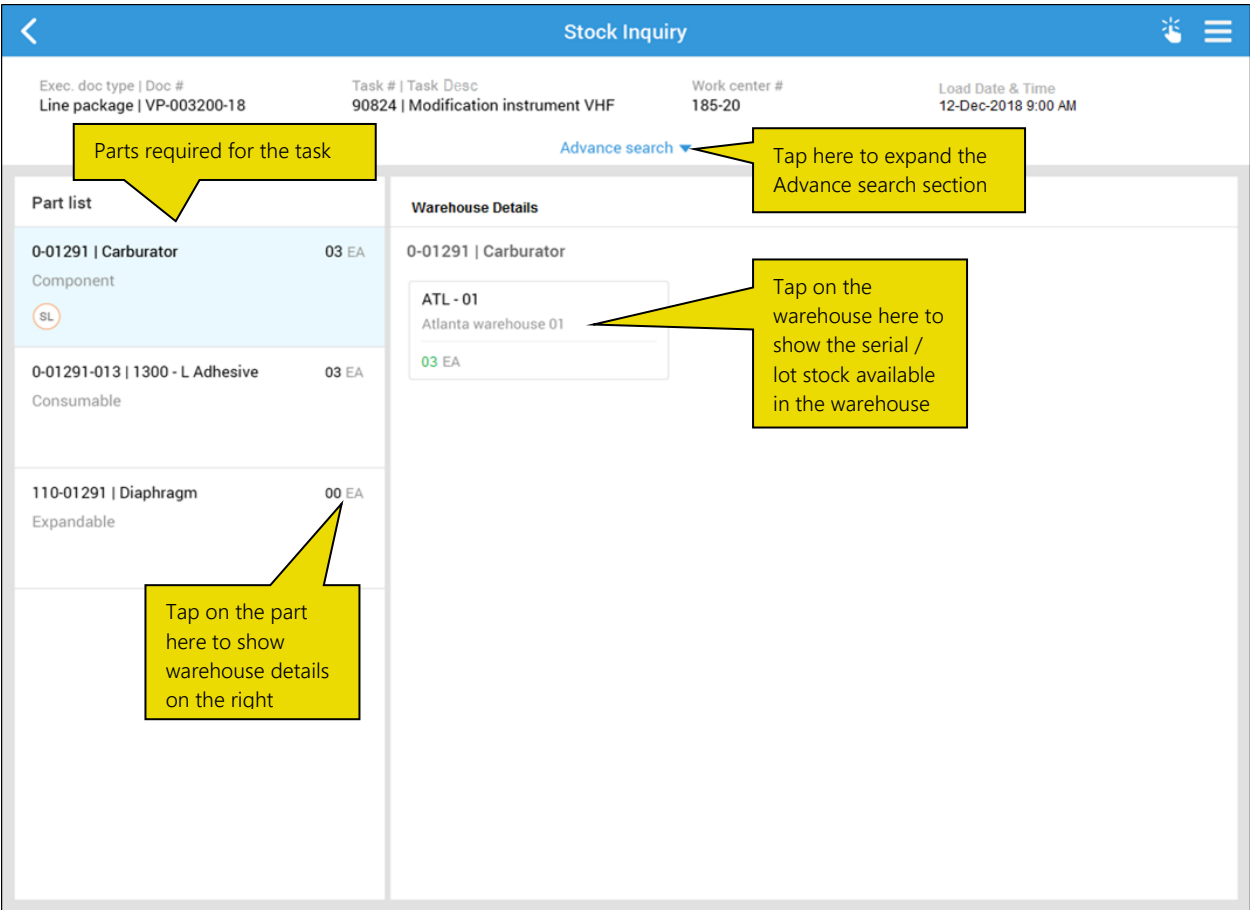


Figure 4.30: The Stock Inquiry screen launched as a link page

4.13 PREVIEW AND ACCEPTANCE

On completion of package in Line maintenance, the concerned mechanic reviews the NSD of aircraft and issues Certificate of Release to Service with a sign-off. Similarly, the pilot of the aircraft in question will review the discrepancies reported in the Log Cards and hand over the discrepancies with a sign-off to CRA for resolution.

The tab **Preview & Acceptance** in the **E-Log** screen retrieves data from aircraft packages. .

However, the **Preview & Acceptance** tab appears only if the process parameter 'Display Preview & Acceptance Tab in eLog screen?' is set as '1', under the entity type Mobility and entity LineAnywhere in the Define Process Parameters activity.

CRS (Certificate of Release for Service) Sign-Off

Users (mechanics) can select a record and then Tap the Sign Off button in the CRS section.

On Tap of the Sign Off button, the Sign Off pop-up screen appears. The concerned mechanic can sign-off the task/discrepancy/CR/Next Due transaction and release the aircraft for operations.

However, users can sign-off transactions only if the status of the package is Completed or Closed.

On successful sign-off of CRS, the system generates Certificate of Maintenance for Aircraft Reg. The CRS Sign-off Status of Package as 'Signed Off'.

CRA (Carrier Representative Acceptance) Sign-Off

Users (pilots) can select a record and then Tap the **Sign Off** button in the CRA section.

On Tap of the **Sign Off** button, the **Sign Off** pop-up screen appears. The concerned pilot can sign-off the task/discrepancy/CR/Next Due transaction and release the aircraft for maintenance.

However, users can sign-off transactions only if the status of the package is Completed or Closed.

1. Tap the **Preview and Acceptance** tab in the **E-Log** screen. *See Figure 4.31.*

4:53 AM Fri Jun 7
49%

<

eLog

Aircraft Reg # | Nose # | Model # | Exec. Ref # | Package Type | Work Center / Station | Status | Due Item

1132 | 1132 | B767-200 | LC-017301-2019 | Line Package | 185-20 | AIR | Completed | 9

More

Manage Package

Discrepancies

Tasks

Preview and Acceptance

Task

02

PendingTotal

Discrepancy

00

PendingTotal

CR

00

PendingTotal

Next Due

01-05-2015

-643.

FC

Date

5000

0001

CRS

As per the DGCA code Part-21, sub section CS-21, Hereby signing off the CRS, to approve the Airworthiness of this Aircraft.

DMUSER

EMP ID 00000001

Date & Time

06-07-2019 04:52:09 AM

Carrier Representative Acceptance

test


Rep. Name

qwerty

Date & Time

06-07-2019 04:52:17 AM

Sign



A-Check

Cancelled

0000-B76-0007999

MCR 1133

Completed

EO-1132-2015

Figure 4.31: The Preview and Acceptance page

- Tap on the **Sign Off** button to open the **Sign Off** popup. See Figure 4.32.

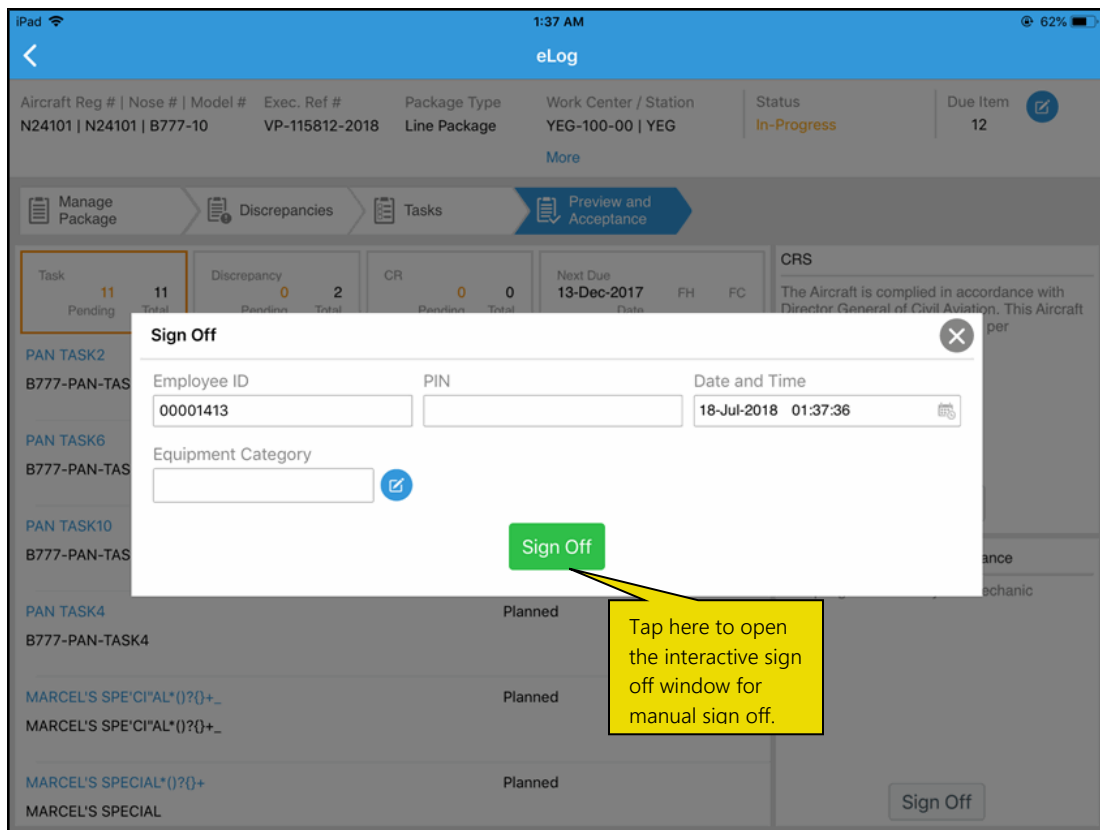


Figure 4.32: The Sign Off popup

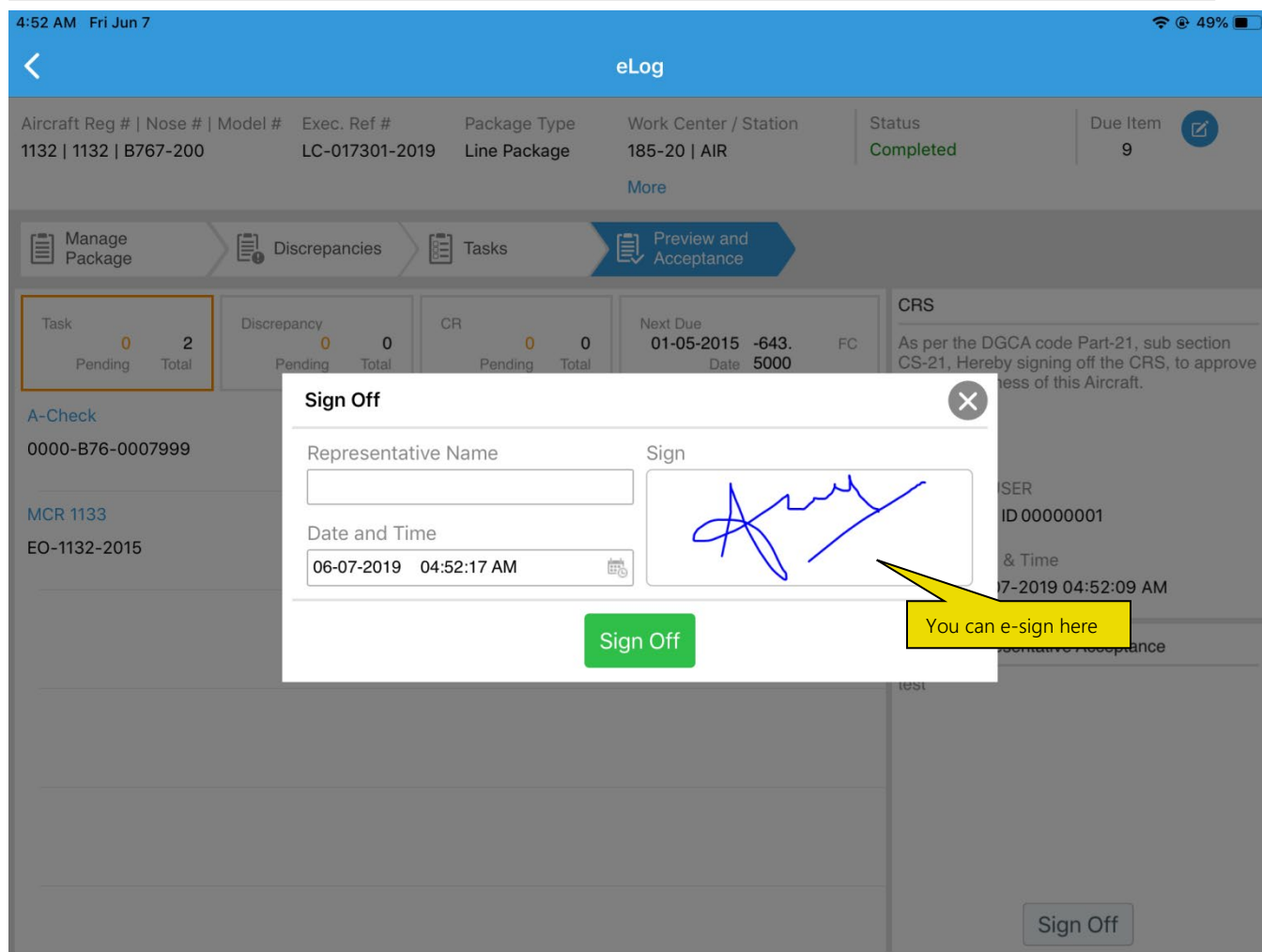


Figure 4. 33: The Interactive Sign Off popup

4.13.1 FILTER CARDS

Task (The default filter that will be activated on launch of the tab)	
Pending	Count of tasks in Planned and In-Progress status in the package #. Tap the filter card to show these tasks.
Total	Count of tasks/ Non-Standard tasks in the package # Tap the filter card to show these tasks.
Discrepancy	
Pending	Count of discrepancies in the Under Resolution status in the package # Tap the filter card to show these tasks.
Total	Count of discrepancies in the package # Tap the filter card to show these tasks.
CR	
Pending	Count of CR transactions in the Pending for Confirmation status excluding CR with Object Type 'Miscellaneous') in the package #

	Tap the filter card to show these tasks.
Total	Count of CR transactions from the package #
Next Due	
Date	Next Schedule Date of Aircraft Reg. # computed based on task/ discrepancy execution in offline device. Tap the filter card to show these tasks.
FH	Next Schedule value of FH of Aircraft Reg. # computed based on task/ discrepancy execution in offline device. Tap the filter card to show these tasks.
FC	Next Schedule value of FC of Aircraft Reg. # computed based on task/ discrepancy execution in offline device. Tap the filter card to show these tasks.

4.14 TRANSFER WORK PACKAGE

The **Transfer Work Package** screen in the **LineAnywhere** application enables users to transfer the work packages back to the Ramco Aviation system. Further, the Error messages generated for exceptions encountered by the work packages can also be reviewed in the **Transfer Work Package** screen.

Note: This screen needs internet connectivity to be able to transfer data.

1. Tap **Transfer Work Package** in the left pane of **LineAnywhere**. See Figure 4. 34.

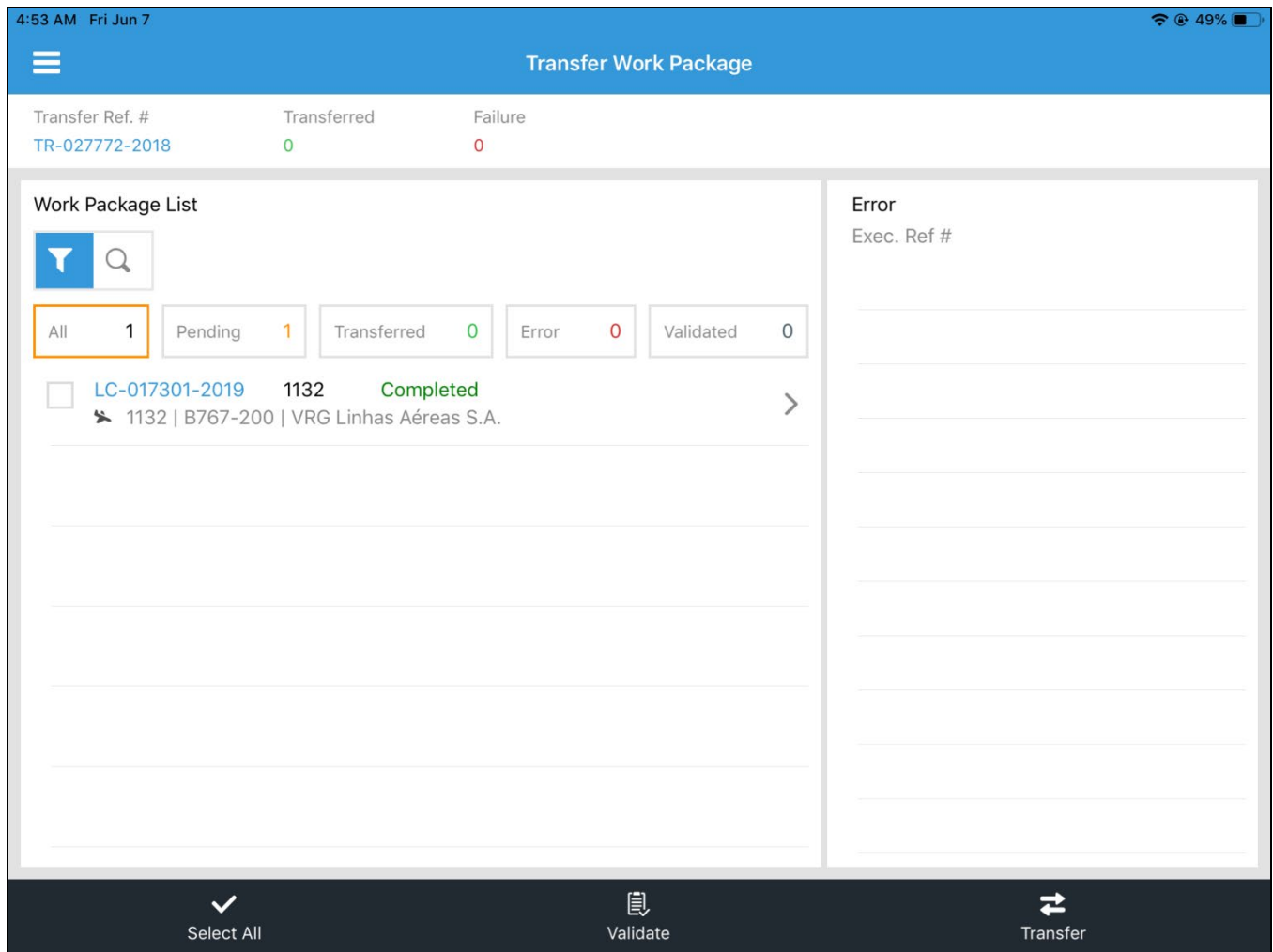


Figure 4.34: The Transfer Work Package page

4.14.1 HEADER INFORMATION

Transfer Ref#	Transfer Ref # for the for the Load Ref # Tap on Transfer Ref. # to open the 'Transfer Status' pop-up screen.
Transferred	Count of packages with Transfer Status as 'Transferred' or 'Force Transferred'
Failure	Count of packages with Transfer Status as 'Error'

4.14.2 SEARCH BY

You can view work packages on the basis of the filter cards or key code search.

1. Tap to display filter cards.
2. Tap to display input box and then enter search values.

4.14.3 FILTER CARDS


All	Shows the count of packages available in the offline device. On tap, displays details of these packages.
Pending	Shows the count of packages with Transfer Status as 'Pending' in the offline device. On tap, displays details of these packages.
Transferred	Show the count of packages with Transfer Status as 'Transferred' or 'Force Transferred' in the offline device. On tap, displays details of these packages.
Error	Shows the count of packages with Transfer Status as 'Error' in the offline device. On tap, displays details of these packages.
Validated	Shows the count of packages with Transfer Status as 'Validated' in the offline device. On tap, displays details of these packages.

4.14.4 KEY CODE SEARCH

1. To view work packages based on Key code, tap the Search icon.
2. Enter the key code in the input box and then tap the Search icon.

The key code is matched with values of the following attributes of available work packages:

- ▶ Package #
 - ▶ Aircraft Reg. #
 - ▶ Arrive. Flight #
 - ▶ Nose #
 - ▶ Aircraft Model #
 - ▶ Maint. Operator #
 - ▶ Transfer Status
3. The packages with attribute values similar to the key code are displayed in the **Work Package List** section while error details of the packages (in Transfer Status =Error) are displayed in the **Errors** section.
 4. Tap the **Select All** button to select all the packages under the **Work Package List** section. Alternatively, tap work packages individually to select them.
 5. Tap **Validate** to authorize the transfer of selected packages.

 *Note: However, you can validate a package only if*

 - a) *The status is 'Completed', 'Closed' or 'Cancelled' status*
 - b) *The transfer status is other than 'Force Transferred' and 'Transferred'*
 - c) *The Transfer Status of Transfer Ref. # is not in 'Force Transferred' and 'Transferred' statuses.*
 6. Tap **Transfer** to push the selected work packages from the offline database in LineAnywhere to the online database of the Ramco Aviation system.

4.14.5 TRANSFER STATUS DERIVATION OF PACKAGE ON TRANSFER

Condition	Transfer Status
Data/transaction errors encountered in the package	Force Transferred

No errors encountered in the package	Transferred
--------------------------------------	-------------

4.14.6 TRANSFER STATUS DERIVATION OF TRANSFER REF. # ON TRANSFER

Condition	Transfer Status
Any work package in Load Ref. # (current load of the device) with Transfer Status as 'Pending'	Pending
No errors encountered in any package in Load Ref. # (current load of the device)	Transferred
Work packages in Load Ref. # (current load of the device) with Transfer Status as 'Force Transferred' or both 'Force Transferred' and 'Transferred'	Force Transferred

7. Tap the **Generate Part Tag** button to generate label for the parts.

4.14.7 ERROR DETAILS

The following details for the selected erroneous package are displayed:

- ▶ Count of errors
- ▶ Package #
- ▶ Ref. Doc. #
- ▶ Ref. Doc. Type
- ▶ Error Messages

8. On tap of Ref. Doc. #,
- ▶ The **Create Package** tab of e-Log page appears, if Ref. Doc. Type is Package or Others.
 - ▶ The **Discrepancy** tab of e-Log page appears, if Ref. Doc. Type is Discrepancy.
 - ▶ The **Tasks** tab of e-Log page appears, if Ref. Doc. Type is Task.
 - ▶ The **Component Replacement** tab appears, of e-Log page appears, if Ref. Doc. Type is Component Replacement.

4.14.8 PROCESS PARAMETER DEPENDENCY

Derivation of Aircraft condition: If the process parameter 'Aircraft Condition Change' is 1 / Required, the aircraft condition is updated as below:

- ▶ **Under Maintenance:** If the transferred work package is in 'Planned' or 'In-Progress' status
- ▶ **Operational:** If the transferred work package is in 'Completed', 'Closed' or 'Cancelled' status

Generating CoM for signed off packages Derivation of CoM Type for CRS in eLog: The offline mobile application sets CoM Type of CRS generated for packages during transfer in LineAnywhere based on the process parameter ' Default CoM Type for CRS in eLog? ' defined under the entity type Mobility and the entity LineAnywhere in the Define Process Entities activity of Common Master.

Process Parameter: Default CoM Type for CRS in eLog?	
Value	Impact CoM Type

0	The CoM Type field is set to 'Regular', on generation of CoM for packages during transfer from LineAnywhere
1	The CoM Type field is set to 'Test Flight', on generation of CoM for packages during transfer from LineAnywhere
2	The CoM Type field is set to 'Forced', on generation of CoM for packages during transfer from LineAnywhere

- ▶ If you do not specify the default CoM Type of packages, the system sets CoM Type for error-free package to "Regular".
- ▶ On validation of the packages, if any (Task / Discrepancy / CR) errors are found in the package at the time of

4.15 FUEL / OIL UPLIFT IN AIRCRAFT

The Fuel / Oil Uplift tab in the E-Log screen enables the users to record fuel and oil uplift and consumption quantities for an aircraft. The four specific tabs facilitate the users to input fuel / oil readings upon aircraft arrivals and uplift and prior to departures.

Note: The Fuel / Oil Uplift tab is enabled or available to the users of LineAnywhere only if the process parameter Display Fuel/Oil Uplift Tab in eLog screen of LineAnywhere App? is set as 1 for Yes in the Define Process Entities activity of Common Master. On the contrary, if the process parameter is set as 0 for No, the Fuel / Oil Uplift tab will be unavailable to the users.

1. Tap on **Fuel / Oil Uplift** in the eLog screen. The **Fuel / Oil Uplift** tab appears. See Figure 4.35.

The **Fuel Distribution** tab appears by default. Alternately, you can tap on **Fuel Distribution** to view / record /update fuel readings of components of Item type in Anyw

The screenshot shows the 'eLog' interface for 'Fuel / Oil Uplift'. At the top, it displays aircraft information: Aircraft Reg # JS-1819, Nose # JSJ1819, Model # A320-211, Package Type Line Package, Work Center / Station 185-20 | AIR, Status In-Progress, and Due Item 2. Below this is a navigation bar with 'Manage Package', 'Tasks', 'Preview and Acceptance', and 'Fuel / Oil Uplift'. The main screen has two tabs: 'Fuel Distribution' (selected) and 'Fuel Usage Details'. Under 'Fuel Distribution', there are sub-tabs 'Fuel Distribution' and 'Fuel Usage Details'. The 'Fuel Distribution' sub-tab shows a table with columns 'Position & Part/Serial Info', 'Arrival', 'Uplift', and 'Departure'. The table contains two rows of data for 'Engine-LH' and 'Engine-RH'. Annotations point to various elements: 'Select Fuel/Oil Log # to view readings' points to the 'Fuel/Oil Log #' dropdown; 'Enter oil readings for aircraft' points to the 'Uplift' column; 'Displays Position #, Part #/Serial # and Item # of Item Type as Fuel' points to the 'Position & Part/Serial Info' column; 'Enter fuel readings for aircraft' points to the 'Arrival' column; 'Tap here to save and generate Fuel / Oil Log # for' points to the 'Save' button; 'Displays Position #, Part #/Serial # and Item # of Item Type as Oil' points to the 'Position & Part/Serial Info' column; and 'Icons depicting' points to the 'Engine', 'APU', and 'Others' icons at the bottom.

Position & Part/Serial Info	Arrival	Uplift	Departure
720001010-L 3053245-01 N501RE/178 Engine-LH	12	4	16
720001010-R 3053245-01 N501RE/179 Engine-RH	4.00	3.00	7.00
Total	12	4	16

Figure 4. 35: Entering fuel/oil consumption details

2. Tap on **Fuel Usage** to view / record /update fuel consumption of components of Item type 'Fuel'. See Figure 4.36.
3. Tap on **Oil Uplift** to view / record /update oil readings of components of Item type 'Oil'.
4. Tap on **Hydraulic Uplift** to view / record /update hydraulic readings of components of Item type 'Hydraulic'.

11:15 AM Sat 9 May 90%

eLog

Aircraft Reg # | Nose # | Model # | Exec. Ref # | Package Type | Work Center / Station | Status | Due Item

JS-1819 | JSJ1819 | A320-211 | C000032 | Line Package | 185-20 | AIR | In-Progress | 2

[Less](#)

Manage Package | Discrepancies | Tasks | Preview and Acceptance | **Fuel / Oil Uplift**

Fuel/Oil Log # Uplift Date & Time 25-05-2018 +

Fuel Usage Details

Fuel Type: JET FUEL Fuel Receipt #: Zse123 Tracking UOM: L

Uplift From: Internal Stock Trading Partner #: Fuel Transfer Details:

Uplift for Internal Use: 2 Uplift for Customer Use: 0 Customer #:

Usage Category: Remarks: vxdfv

Oil Uplift

Position & Part/Serial Info	Arrival	Uplift	Departure
720001010-L 3053245-01 N501RE/178 Engine-LH	2.00	4.00	6.00
720001010-R 3053245-01 N501RE/179 Engine-RH	4.00	3.00	7.00

Engine APU Others






Save

Annotations:

- Tap here to record new Fuel/Oil Log # for
- Enter fuel usage details for
- Tap here to save and generate Fuel / Oil Log # for
- Displays Position #, Part #/Serial # and Item # of Item Type as
- Enter hydraulic readings for

Figure 4.36: recording fuel / oil uplift details

Note: If Fuel / Oil Log # has already been generated for the aircraft, the new readings will be updated in the same log #.

Position Type	Icon
Engine	
APU	
Landing Gear	
Cabin	
Others	

4.16 PROCESS PARAMETERS IMPACTING LINEANYWHERE

The following table elaborates on the process parameters (from the Define Process Entities activity in Common Master of BPC Maintenance Setup (in the desktop Ramco Aviation system) that impact the processes in LineAnywhere.

Process Parameter	Entity Type	Entity	Value	Impact
Retrieve Component/Engine applicable task during Pre-load of LineAnywhere?	Mobility	LineAnywhere	0 for 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 for Required	Maintenance tasks with Applicability as Component and Engine will not be copied to the LineAnywhere database in addition to Aircraft Applicability database
Retrieve Task Relationship details of Task during Load of LineAnywhere?	Mobility	LineAnywhere	0 for Not Required	LineAnywhere will not load the 'Task Relationships' defined for Aircraft /Component/Engine applicable tasks
			1 for Required	LineAnywhere will load the 'Task Relationships' defined for Aircraft /Component/Engine applicable tasks
Show 'Job Type' combo in Add Tasks pop up of LineAnywhere?	Mobility	LineAnywhere	0	
			1	
New process parameter 'Show 'Job Type' combo in Add Tasks pops up of LineAnywhere?'	Mobility	LineAnywhere	1 for Yes	The Job Type drop-down list will be displayed to users.
			0 for No	The Job Type drop-down list will not be displayed to users.
Default Due By Days in Due List screen?	Mobility	LineAnywhere	Integer	Retrieving tasks
Horizon to review Discrepancy History (Days)?	Mobility	LineAnywhere	Number of days (Max 365 days)	Discrepancies closed in the period comprising the number of days is considered for retrieving the Closed discrepancy details in the View History pop-up
Discrepancy # offset for	Mobility	LineAnywhere	A value	

offline operations?			greater than 0 (Max 200)	
Component Replacement # offset for offline operations?	Mobility	LineAnywhere	Enter a value greater than 0 (Max 200)	
Enforce Equipment / Tool Part #/Serial # based on Task Category?	Mobility	LineAnywhere	0	No
			1	Yes
Task Category for which Equipment / Tool Part #/Serial # needs to be enforced	Mobility	LineAnywhere	Valid Task Categories separated by (,) comma delimiter	
Label Name of User Defined Value 1 (Numeric field) in E-Log screen?	Mobility	LineAnywhere	Enter Label Name	
Label Name of User Defined Value 2 (Alphanumeric field) in E-Log screen?	Mobility	LineAnywhere	Enter Label Name	
Enter Label Name 3 (Drop-down field) in E-Log?	Mobility	LineAnywhere	Enter Label Name	
Applicable Defect Type(s)?	Affected Function Type	User Defined Value	Valid Defect Type	
Enforce No. of Channels?	Affected Function Type	User Defined Value	0	
			1	
Default Deferral Type in LineAnywhere App?	Deferral Type	User Defined Value	Valid Deferral Type	The deferral type is defaulted for a discrepancy.
Default Deferral Category in LineAnywhere App?	Deferral Type	User Defined Value	Valid Deferral Category	The deferral category is defaulted for a discrepancy.
'Deferment of Discrepancies' for the selected 'Package Type' is set as 'Not Allowed' in Define Process Entities screen of interacting 'Common Masters' business component.	Package Type	User Defined Value	Package Type	The Action drop-down list box will not list the 'Defer' option.
Enforce Sign-off?	Package Type	User Defined	1	All the tasks / subtasks associated with the discrepancy must be signed off/ Void

		Value	0	before the discrepancy is 'Cancelled' or 'Closed' or 'Deferred'.
Allow discrepancy reporting against tasks in Completed, In-Complete, Closed, Pre-Closed, Cancelled or Duplicate statuses?				Creating discrepancy with reference to a task in a terminal is allowed
Discrepancy Numbering Type'	Package Type	All Packages	Valid Numbering Type	
Planning Horizon (Days)' under the entity type Package Type and Entity	Package Type	All Packages	Integer	Creation / deferral of discrepancies
Default view in 'Discrepancies' tab of eLog screen in LineAnywhere App?	Package Type	Log Card, User Defined Value	1	The Discrepancy tab appears in Discrepancy List view on page launch
			0	The Discrepancy tab appears in LOPA view on page launch
Display & enforce entry of cabin defect attributes during Discrepancy creation in LineAnywhere App?	Package Type	Log Card, User Defined Value	1	Mandatory to provide defect attributes for cabin positions for new discrepancy
			0	Not Mandatory to provide defect attributes for cabin positions for new discrepancy
Enforce Disc. Category during Discrepancy creation in LineAnywhere App?	Package Type	Log Card, User Defined Value	1	Mandatory to provide discrepancy category for new discrepancy
			0	Not Mandatory to provide discrepancy category
Display & enforce Equipment Category for discrepancies & tasks?	Package Type	Log Card, User Defined Value	1	The Equipment Category field will be available and mandatory for discrepancies/tasks.
			0	The Equipment Category field will not be available for discrepancies/tasks.
Default ATA # for Discrepancy in LineAnywhere App?	Package Type	Log Card, User Defined Value	Valid ATA chapter	The ATA chapter is defaulted for a discrepancy.
Allow cancellation of Planned Tasks in LineAnywhere app?	Package Type	Log Card, User Defined Value	0	Cancellation of tasks in Planned status not allowed
			1	Cancellation of tasks in Planned status allowed

Mandate 'Task Category' during creation of non-standard tasks in LineAnywhere app?	Package Type	Log Card, User Defined Value	0	No
			1	
Default Actual Man Hours for tasks in LineAnywhere app?	Package Type	Log Card, User Defined Value	Specify a permitted value (max. of 2 decimal places)	
'Task Category' during creation of non-standard tasks in LineAnywhere app?	Package Type	Log Card, User Defined Value	0	The Task Category field is mandatory for Non-standard tasks.
			1	The Task Category field is not mandatory for Non-standard tasks.
Enforce Exec. Code during task status change as "Completed" / "Closed" in LineAnywhere app?	Package Type	Log Card, User Defined Value	0	
			1	
Update Actual Man Hours of task as resource actuals in LineAnywhere app?	Package Type	Log Card, User Defined Value	0	
			1	
Validate Employee Certificate/License availability during task/discrepancy/CRS sign-off in LineAnywhere app?	Package Type	Log Card, User Defined Value		
Specify applicable task categories of non-standard tasks, for which employee certificate/license validation is required in LineAnywhere app?	Package Type	Log Card, User Defined Value	0	
			1	
Enforce Arrival Flight Details during Package creation in 'LineAnywhere' App?	Package Type	Log Card, User Defined Value	0	No
			1	Yes

Enforce Exec. Code during task status change as "Cancelled" / "In-Complete" / "Deferred" / "Pre-Closed" in LineAnywhere app?	Package Type	Log Card, User Defined Value	Specify a permitted value (max. of 2 decimal places)	
Applicable for package creation from 'LineAnywhere' App?	Package Type	Log Card, User Defined Value	0	No
			1	Yes
Mandate Access Time in 'LineAnywhere' App?	Package Type	Log Card, User Defined Value	0	No
			1	Yes
Auto Inclusion of 'As Required' tasks in 'LineAnywhere' App?	Package Type	Log Card, User Defined Value	0	No
	Package Type	Log Card, User Defined Value	1	Yes
Auto Inclusion of deferred discrepancies in 'LineAnywhere' App?	Package Type	Log Card, User Defined Value	0	No
	Package Type	Log Card, User Defined Value	1	Yes
Auto Inclusion of Due Tasks in 'LineAnywhere' App?	Package Type	Log Card, User Defined Value	0	No
	Package Type	Log Card, User Defined Value	1	Yes
Display Preview & Acceptance Tab in eLog screen of LineAnywhere App?	Package Type	Log Card, User Defined Value	0	No
	Package Type	Log Card, User Defined Value	1	Yes
Require Sign-Off of Certificate of Release to Service (CRS) in eLog screen of LineAnywhere App?	Package Type	Log Card, User Defined Value	0	Not Required


	Package Type	Log Card, User Defined Value	1	Optional
	Package Type	Log Card, User Defined Value	2	Mandatory
Text to Display for Certificate of Release to Service (CRS) in eLog screen of LineAnywhere App?	Package Type	Log Card, User Defined Value	Enter any text less than 1000 characters	
Require Sign-Off of Carrier Representative Acceptance (CRA) in eLog screen of LineAnywhere App?	Package Type	Log Card, User Defined Value	0	Not Required
	Package Type	Log Card, User Defined Value	1	Optional
	Package Type	Log Card, User Defined Value	2	Mandatory
Text to Display for Carrier Representative Acceptance (CRA) in eLog screen of LineAnywhere App?	Package Type	Log Card, User Defined Value	Enter any text less than 1000 characters	


4.16.1 TASK AND SUB TASK RETRIEVAL

On launch of the **Tasks** tab, tasks from the work package are listed on the basis of the process parameter "Task Reporting" defined for the package type of the work package. If the process parameter value is:

- ▶ "0" for 'All Employees' (or) "3" for 'Assigned Employee on Discrepancies', all the standard and non-standard tasks in the work package are displayed.
- ▶ "1" for 'Assigned Employee on Routines', all standard tasks in the work package, that assigned to the employee mapped to login user. All non-standard tasks within work package needs to be listed regardless of the assignment info.
- ▶ "2" for 'Assigned Employee on Non-Routines' -> all non-standard tasks assigned to the employee mapped to login user.
- ▶ "4" for 'Assigned Employee on All', all standard & non-standard tasks assigned to the employee mapped to login user.

Process Parameter	Entity Type	Entity	Value	Impact
Issue Serial/Lot parts from multiple Serv. Request Warehouse in current Station for installation transactions performed in Line	Package Type	Log Cards	1 for 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

Anywhere App?				<p>Installed Part # is not available in Ser. Request Warehouse of the work center</p> <p>Note that the system modifies the issue details of the installed part:</p> <p>If the installed quantity is not available in any of the Ser. Request Warehouse in current station</p> <p>Only if the installed part is Serial or Lot controlled</p> <p>Prior to the transfer of packages to the desktop Ramco Aviation database</p>
			0 for No	The system does not modify the default Warehouse #, Zone # and Bin # of the CR transaction.
Auto toggle 'Force Part' to 'ON' if Removed Part/Serial is changed during Component Replacement?	Mobility	LineAnywhere	1 for Yes	The Force Part button is automatically activated, if the removed part # / serial # are 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 # are changed during component replacement giving rise to errors during transfer of the CR data.
Process Parameter	Entity Type	Entity	Value	Impact
Load warehouse stock information on pre-load of device?	Mobility	LineAnywhere	1 for Yes	<p>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</p> <ul style="list-style-type: none"> 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 <p>The  icon displays in the Component Replacement screen and the View Part Requirements popup</p>

			0 for No	<p>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</p>
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