Ramco Aviation Solution

Version 5.7.6

Enhancement Notification

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WHAT'S NEW IN MOBILITY?

Ability to Perform Maintenance Activities on iPad

Reference: AHBF-15271

Background

The pervasiveness of consumer-driven mobile technology for enterprise application is now touching every facet of the industries and aviation is no exception. Particularly in a mission-critical and paper-reliant industry such as aviation maintenance, the recent wave of mobile devices represents an unparalleled opportunity to streamline work-capture, enable real-time, location-independent access to pertinent information, and support the transition to a wholly-digital enterprise.

Aviation organizations that capitalize on cloud-enabled maintenance practices enjoy a clear competitive advantage when adopting mobile devices for use across activities spanning the entire MRO function. Whether raising faults or non-routines from the flight deck, capturing maintenance information at the point of execution, or supporting remote access to full-fleet status dashboards, next-generation software complemented by mobile device adoption provides a degree of organizational visibility and accuracy unmatched by terminal-based client-server applications and dated legacy solutions.

Mechanic Anywhere is Ramco's answer to making aviation maintenance truly mobile. With a fresh, clean interface that is easy to navigate, performing maintenance activities has never been easier. Whether it is to see a Task Card quickly to perform repair or raise a Material Request or just track pending work items, **Mechanic Anywhere** will get the job done in just a few taps.

Change Details

Mechanic Anywhere is a new iPad application available as a download from the enterprise store. After Installation and Configuration, the user can Login to the App and view/perform live maintenance activities.

We will cover the following aspects in this document:

1. App Pre-Requisites.
2. App Install.
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App Pre-Requisites

Mechanic Anywhere app requires the following recommended requirements for optimal user experience:

a. iPad Air / iPad Mini 2 or later with Apple A7 or later chipset.

b. iOS 9 or later.

c. Constant network connectivity via Wi-Fi or 3G/4G*.

d. 100 MB or more free space.

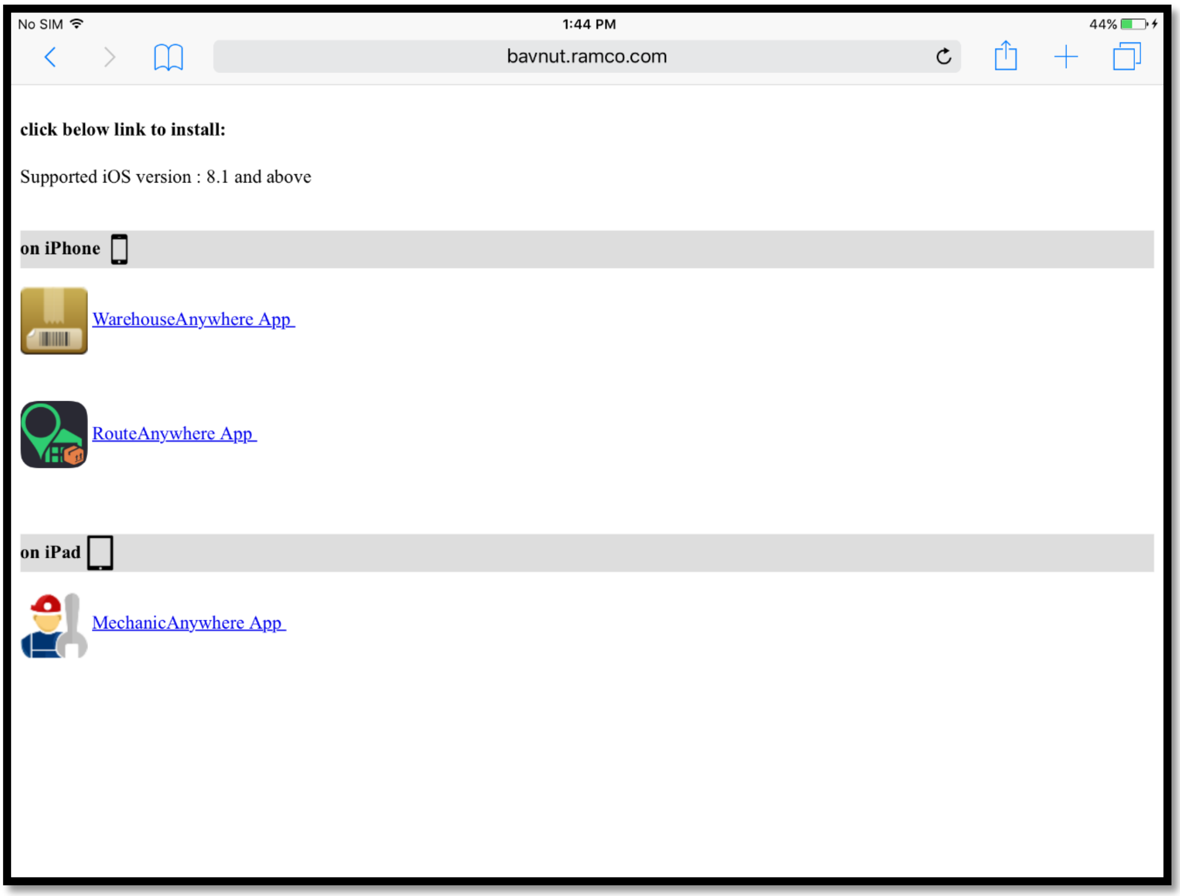
Note: 3G/4G connectivity requires an iPad capable of Mobile Data connectivity. Your carrier might charge you extra for data roaming. When available, always prefer Wi-Fi connectivity over Mobile Data.

App Install

Mechanic Anywhere app will be available to install from the Enterprise Store and not from the Apple App Store. To access the Enterprise Store, contact your IT Admin team to get the URL of the host server. Now follow the steps given below on the iPad:

1. Ensure the device is connected to Wi-Fi or Mobile Data.
2. Open Safari.
3. Type in the URL provided in the Address Bar and click GO.

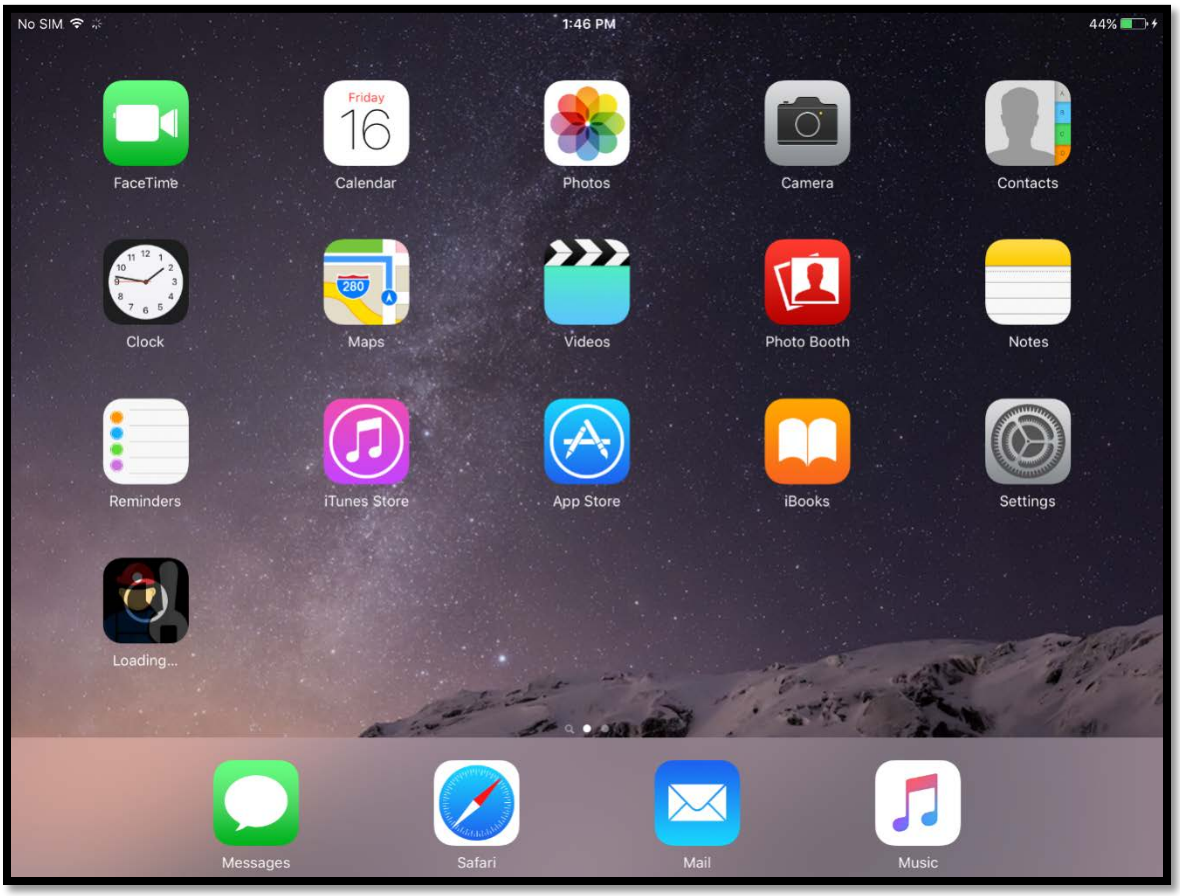
Exhibit – 1: Enterprise Store



4. On the Enterprise Store listing, select the ‘Mechanic Anywhere’ app.
5. Click ‘Install’ on the popup to allow installation on the device.
6. Quit Safari.
7. Wait for the App installation to complete.

Exhibit – 2:

App Installation In-Progress



8. Tap on the App icon.
9. If Untrusted App Developer popup shows up, click on ‘Trust’.
10. Quit the App.

✏ *Note: Mechanic Anywhere application has got commercial implications. It is available only for specific customers.*

App Setup

After the installation of the App, you need to provide the setup details before starting to use it. To do this, open ‘Settings’ on the iPad Home screen and select ‘Mechanic Anywhere’ on the left list. Provide the following information in this page:

- User Name (optional)
- Password (optional)
- Server-URL
- Service-URL
- OU

✐ *Note: Check with your IT Admin if you need help in configuring any of the settings.*

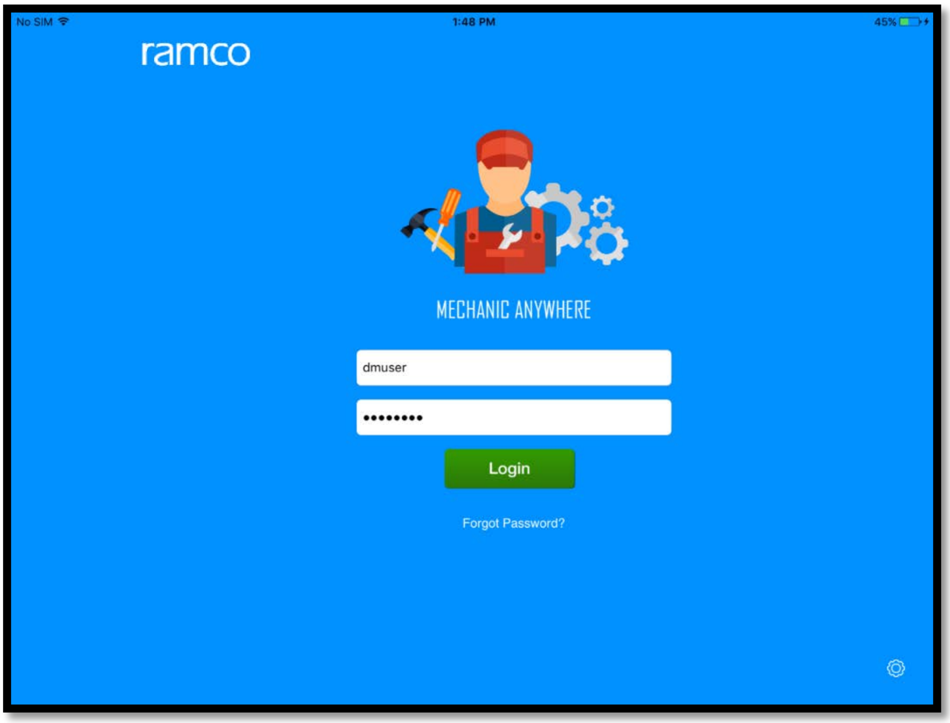
✐ *Note: You can also access this page via a shortcut provided in the bottom of the Login page.*

Login

After the App setup is completed, you can now tap on the **Mechanic Anywhere** icon on the home screen to launch the app.

If User Name and Password was provided in the Settings page during Setup, then the App will automatically default these information for the convenience of the user. Else, the user can type the User Name and Password (same as the one used in M&E product) and click on the Login button.

Exhibit – 3: Login Page



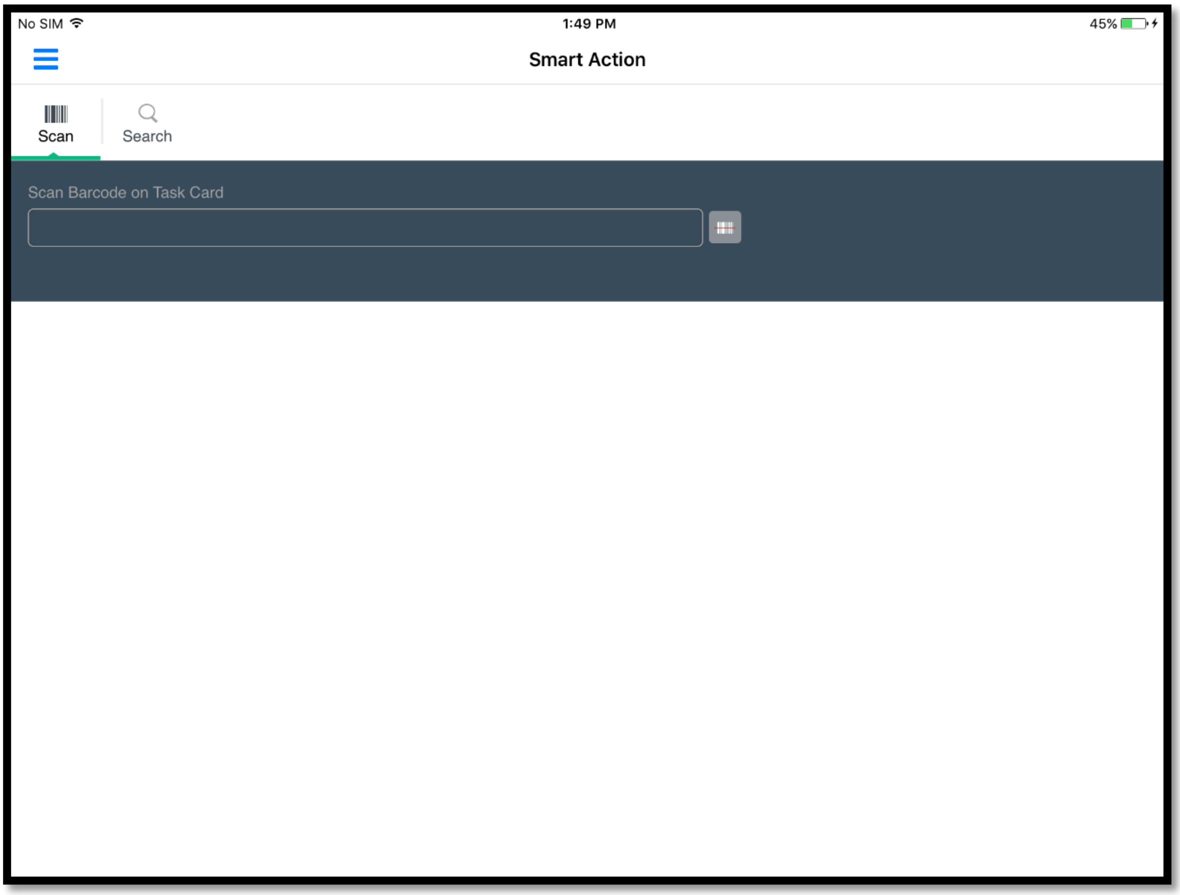
Smart Action

Once logged in, you will land on the **Smart Action** page. This page is divided into two sections:

1. Scan.
2. Search.

Scan allows you to scan a barcode using the iPad's inbuilt camera or a 3rd party barcode scanning solution to quickly jump to a certain item or perform a certain action. Example, scan a Task # barcode from a printed Task Card to quickly jump to the Task Card page of that Task #.

Exhibit – 4: Scan



Search allows you to do a global search across the following documents:

a. Execution Documents.

b. Discrepancy.

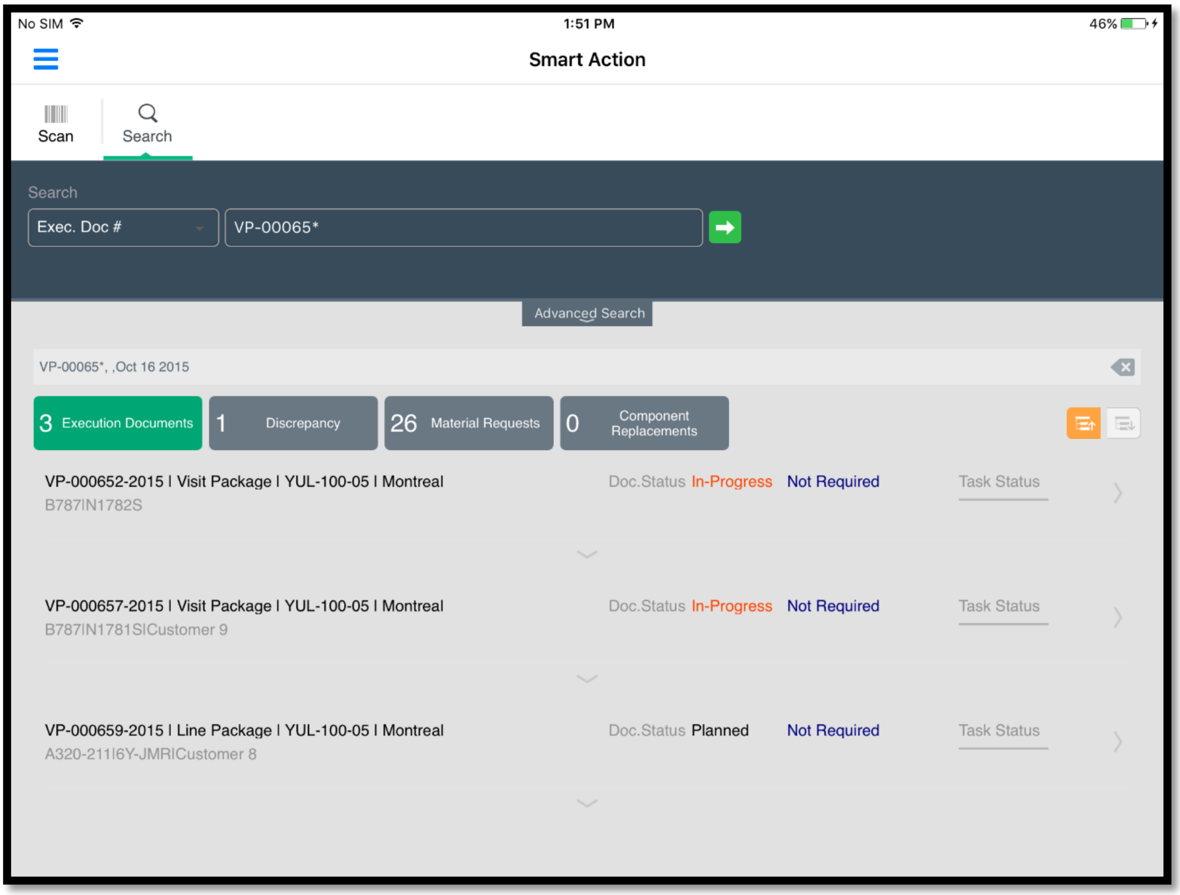
c. Material Requests.

d. Component Replacements.

Select a Search Option and provide Search Criteria in the text box adjacent to the Search option and click on the GO button.

Note: You can sort the search results by ascending or descending order by clicking on the respective icons in the right side of the screen.

Exhibit – 5: Search



To Do List

To Do List can be launched from the hamburger menu. Here, you can quickly view pending work items and jump directly to the respective screens.

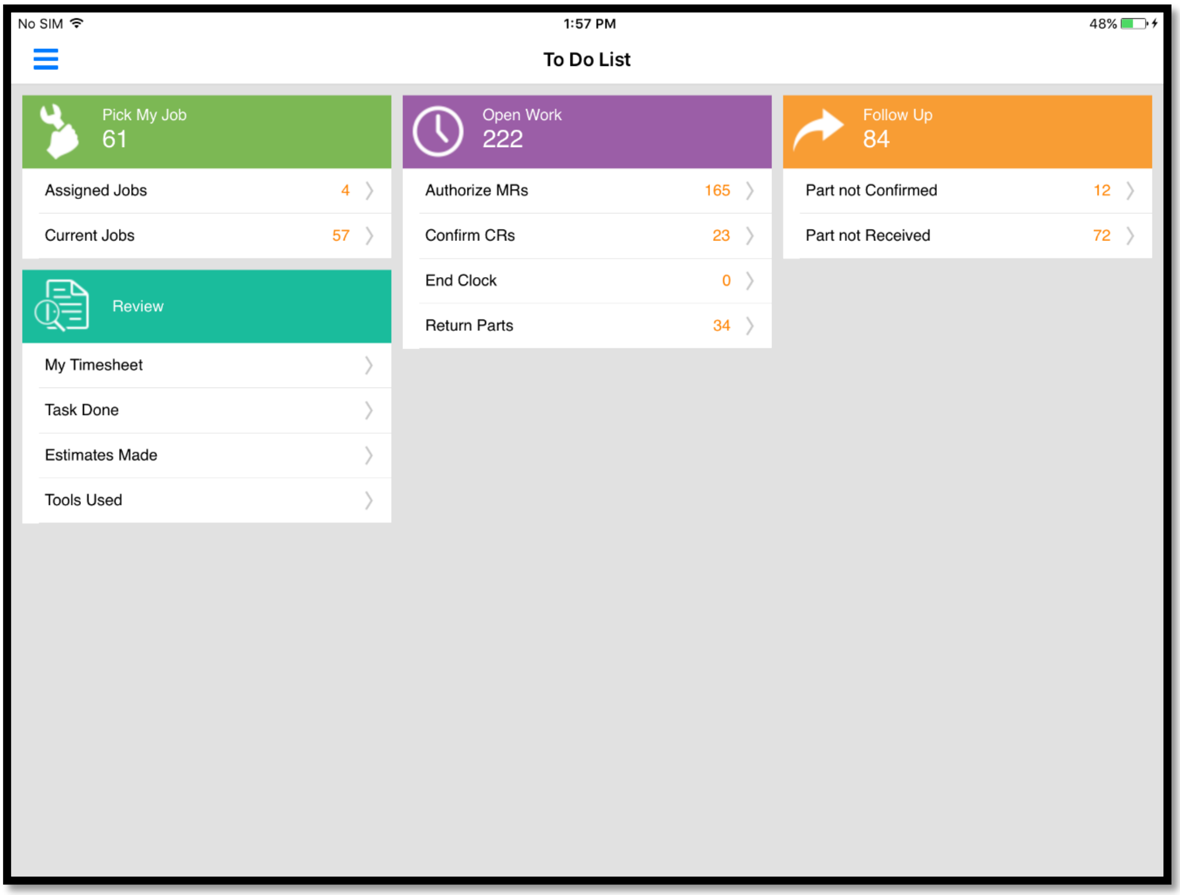
Pick My Job lets you see the total count of Assigned Jobs (assigned to the login user) and Current Jobs (already started by the login user). Clicking on either of these items, will jump to the Task List page with the specific tasks filtered automatically.

Open Work lets you see the total count of the following items:

- Authorize MRs → Count of Material Requests that are in 'Pending Request' status. Clicking on this item will open the **Material Request List** page for the pending MRs.
- Confirm CRs → Count of Component Replacements that are in 'Pending CR' status. Clicking on this item will open the **Component Replacement List** page for the pending CRs.
- End Clock → Count of Tasks that have their clocks running. Clicking on this item will open the **Task List** page for those tasks.

Follow Up lets you see the total count of Material Requests that are confirmed but no material has been issued against the same or material is issued partially. Clicking on this item will open the **Material Request List** page for these MRs.

Exhibit – 6: To Do List



Task List

You can open **Task List** from the hamburger menu or from the **To Do List** page.

The page is divided into the following sections:

1. Filter/Search/Sort section.
2. List section.
3. Action section.

Use ‘Filter By’ option to quickly filter out Assigned Tasks, Tasks that have their clocks running and Tasks that are being currently performed by the login user.

Search allows you to do a global search across the following documents:

a. Execution Documents.

b. A/C Reg #.

c. Part #.

d. Serial #.

e. Component #.

f. Work Center #.

g. Task #.

h. Task Seq #.

i. Customer Name.

Select a 'Search Option' and then provide Search Criteria in the text box adjacent to the Search option and click on the GO button.

✏ *Note: You can view Advanced Search by clicking on it or dragging it down with a swipe. Enter your search criteria and click the Search button.*

The **List** section displays the Tasks that match the search criteria provided. Each Task is shown as a separate record and all the important information regarding the task is shown in the same record.

Each record shows the following information:

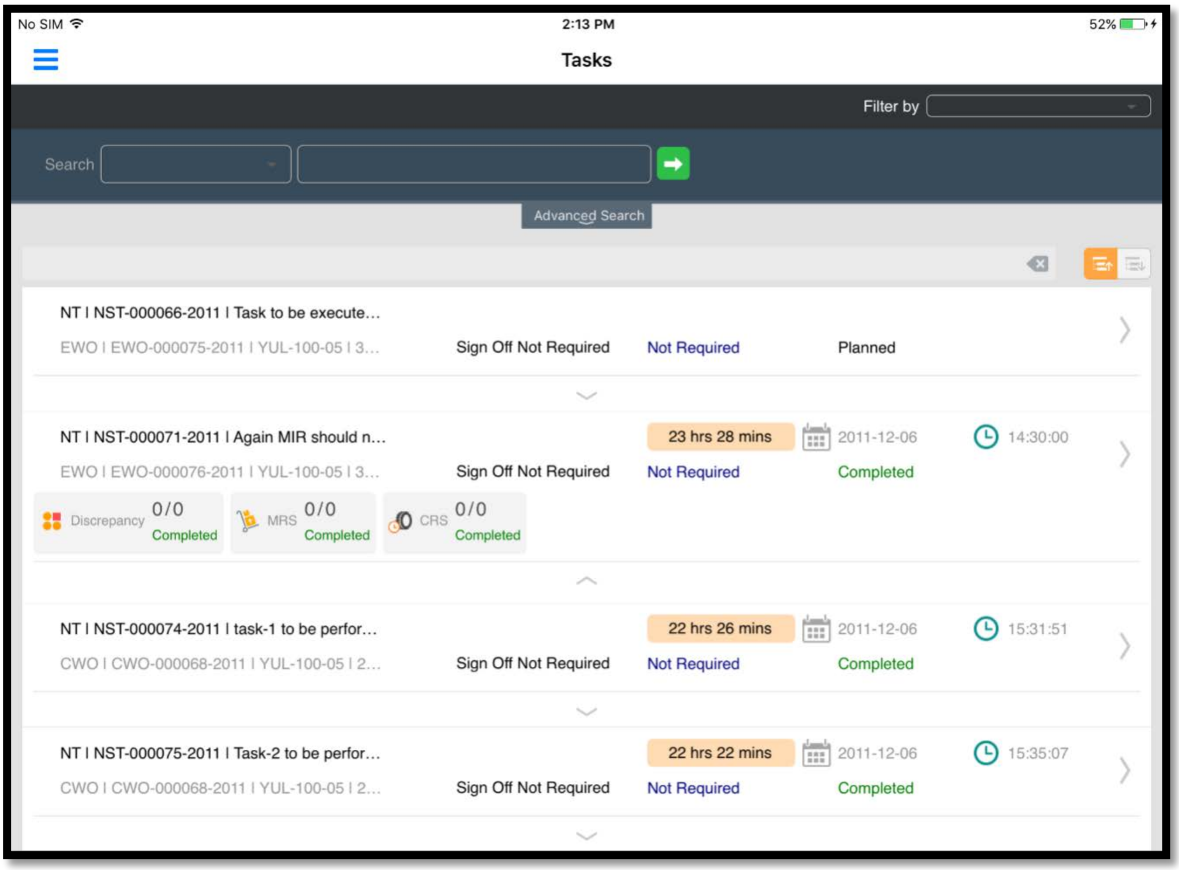
1. <u>First Line</u>
   a. Task Type.
   b. Task #.
   c. Task Description.
   d. Routine/Non Routine identification.
   e. Clock Running Duration.
   f. Started Date.
2. <u>Second Line.</u>
   a. Package Type.
   b. Package #.
   c. Work Center #.
   d. Sign-Off Status.
   e. Estimation Status.
   f. Task Status.
3. <u>Extended Line</u>
   a. Discrepancy Open / Total count (clickable).
   b. Material Request Open / Total count (clickable).
   c. Component Replacement Open / Total count (clickable).

Action section allows you to perform the following actions in bulk:

1. Start Clock.
2. Stop Clock.
3. Complete.
4. Close.

Note: These actions can be individually performed on a task record by swiping a record to the right in the list and clicking the swipe option.

Exhibit – 7: Task List



Clicking any of the Task records will open the Task Card page for that Task.

Task Card

Task Card is an actionable UI dedicated for a single Task. Basic details of the Task is available in the top left section while Open and Total count of Discrepancies, Material Requests and Component Replacements for the current Task are displayed in a card-like view in the top right. Clicking on the Open/Closed counts on the cards will jump to the appropriate **List** pages, while clicking on the “+” icon will open the **Create Discrepancy**/**Material Request**/**Component Request** page.

The Status section displays the following items:

1. Task status.
2. Sign-Off status.
3. Hold status.
4. Exe. Comments.
5. Parameter Updates.
6. Estimation status.

Clicking any one of the above items will open a popup to update the status/comments/parameter as and when needed.

To the right of this section is the Clock. Clicking on the clock will either Start or Stop it depending upon the current status. The elapsed time is overlaid on the clock itself for easy visibility.

The left side of the page shows the following information in an accordion layout:

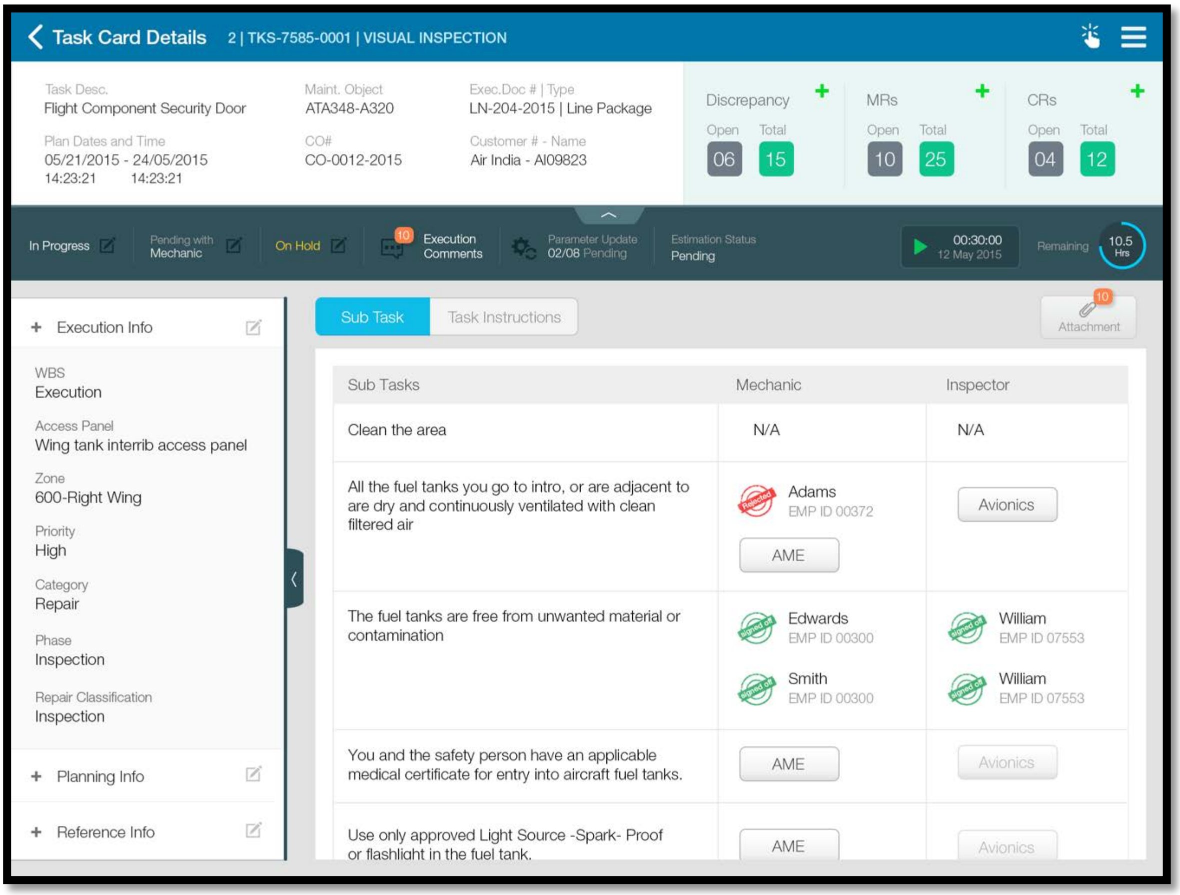
1. Execution Info.
2. Planning Info.
3. Reference Info.
4. Commercials.
5. Dates.
6. Finance / Costing Info.

Clicking on one of the above items will slide open that section and collapse the rest in that accordion layout. Clicking on the edit icon next to the item will open a popup to edit the information displayed under that item.

The right side of the page shows subtasks available for the current task (if any) against Mechanic and Inspector Sign-Offs (if applicable). You can scroll down the list to view all the subtasks and perform sign-offs at the subtask level. Each subtask will show which skill of Mechanic and/or Inspector is required to sign-off. Clicking on the skill will open the Sign-Off popup where you can perform sign-off or reject an existing sign-off or mark as void.

You can also view any file attachments that are available against the Task to perform the same. Examples include PDF documents or images with information on how to perform the task or manufacturer guidelines for the Task.

Exhibit – 8: Task Card



Discrepancy List

You can open **Discrepancy List** from the hamburger menu or from the **To Do List** page or from the **Task Card** / **Discrepancy Card** page.

The page is divided into the following sections:

1. Filter/Search/Sort section.
2. List section.
3. Action section.

Use ‘Filter By’ option to quickly filter out Assigned Discrepancies, Discrepancies that have their clocks running and Discrepancies that are being currently performed by the login user.

Search allows you to do a global search across the following documents:

a. Execution Documents.

b. A/C Reg #.

c. Part #.

d. Serial #.

e. Component #.

f. Work Center #.

g. Discrepancy #.

h. Discrepancy Seq #.

i. Customer Name.

Select a 'Search Option' and then provide Search Criteria in the text box adjacent to the Search option and then click on the GO button.

Note: You can use Advanced Search by clicking on it or dragging it down with a swipe. Enter your search criteria and click the 'Search' button.

The List section displays the Discrepancies that match the search criteria provided. Each Discrepancy is shown as a separate record with all important information regarding the Discrepancy shown in the same record.

Each record shows the following information:

1. First Line
    a. Discrepancy Description.
    b. Clock Running Duration.
    c. Started Date.
    d. Started Time.

2. Second Line
    a. Discrepancy Type.
    b. Discrepancy #.
    c. ATA #.
    d. Sign-Off Status.
    e. Estimation Status.
    f. Discrepancy Status.
    g. Hold Status.

3. Third Line
    a. Model #.
    b. A/C Reg #.
    c. Source Task #.
    d. Work Center #.

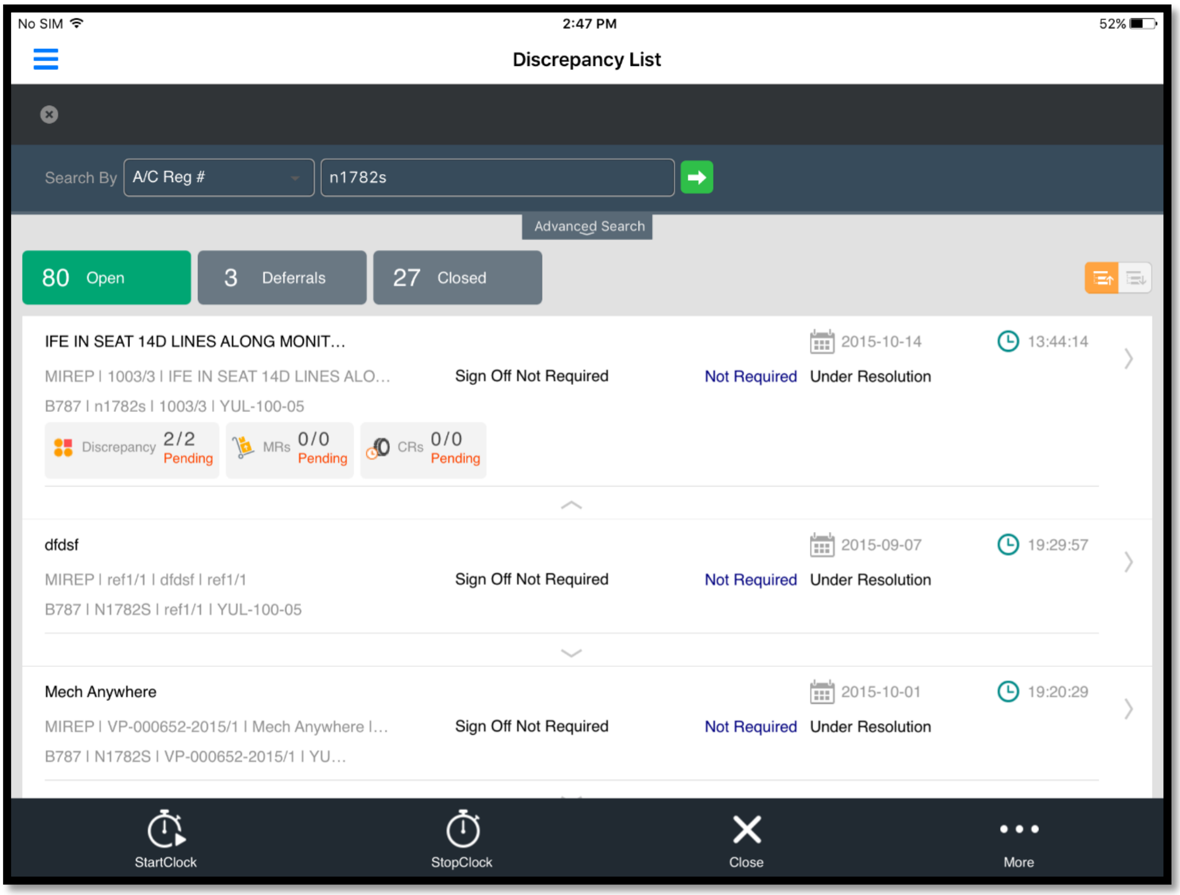
4. Extended Line.
    a. Discrepancy Open / Total count (clickable).
    b. Material Request Open / Total count (clickable).
    c. Component Replacement Open / Total count (clickable).

Action section allows you to perform the following actions in bulk:

1. Start Clock.
2. Stop Clock.
3. Close.

Note: These actions can be individually performed on a Discrepancy record by swiping a record to the right in the list and clicking the swipe option.

Exhibit – 9: Discrepancy List



Clicking any of the Discrepancy records will open the **Discrepancy Card** page for that Discrepancy.

Discrepancy Card

Discrepancy Card is an actionable UI dedicated for a single Discrepancy. Basic details of the Discrepancy is available in the top left section while Open and Total count of Discrepancies, Material Requests and Component Replacements for the current Discrepancy are displayed in a card-like view in the top right. Clicking on the Open/Closed counts on the cards will jump to the appropriate List pages, while clicking on the "+" icon opens the **Create Discrepancy/Material Request/Component Request** page.

To the right is the Clock. Clicking on the clock will either Start or Stop it depending upon the current status. The elapsed time is overlaid on the clock itself for easy visibility.

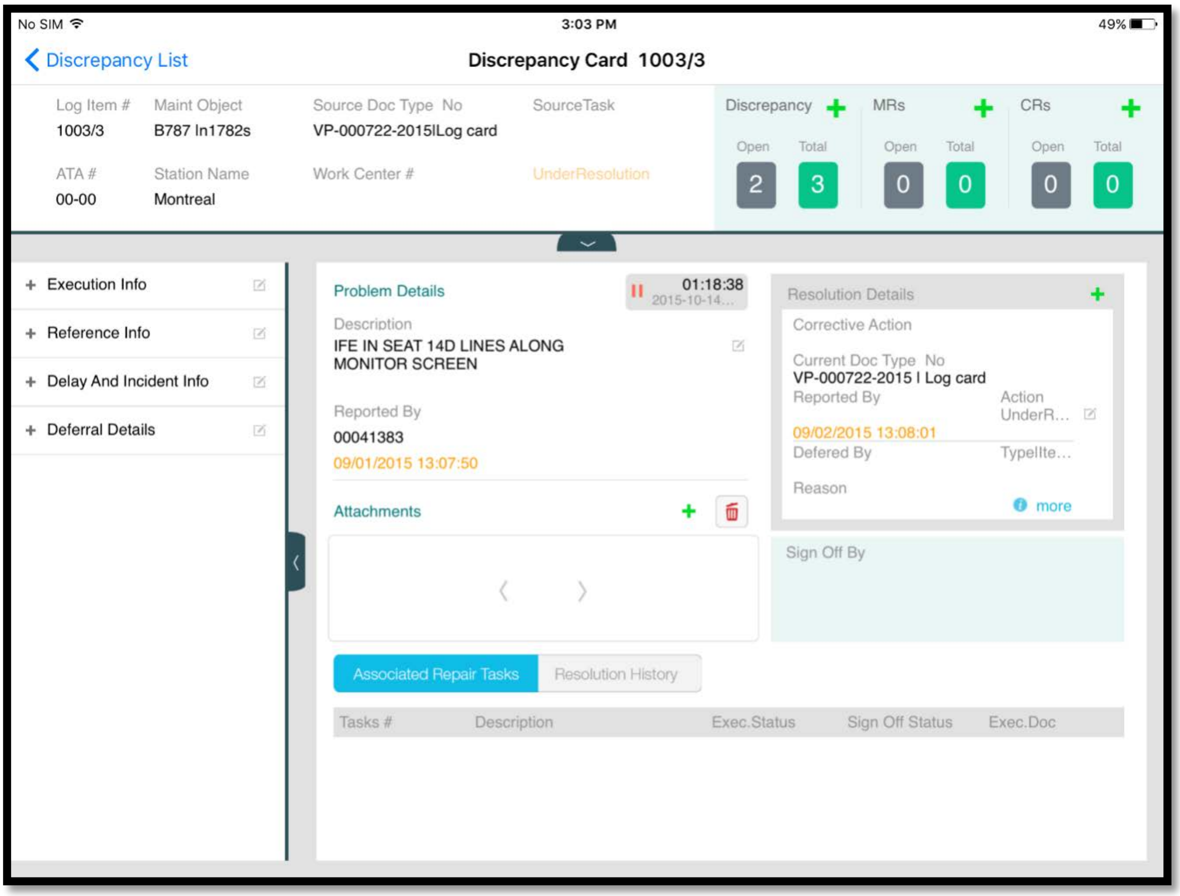
The left side of the page shows the following information in an accordion layout:

1. Execution Info.
2. Reference Info.
3. Delay & Incident Info.

Clicking on one of the above items will slide open that section and collapse the rest in that accordion layout. Clicking on the edit icon next to the item will open a popup to edit the information displayed under that item.

The right side of the page shows Problem Details (which has the Discrepancy description and reporter details) and Resolution Details (which has the Corrective Action and Sign-Off details).Clicking on the Add Corrective Action button opens a popup to add a new corrective action. Clicking on the Action will open up a popup to change the status of the Discrepancy. Clicking on the Mechanic or Inspector button under the Sign-Off section will open the Sign-Off popup where you can perform sign-off or reject an existing sign-off or mark as void.

Exhibit – 10: Discrepancy Card



Create Discrepancy

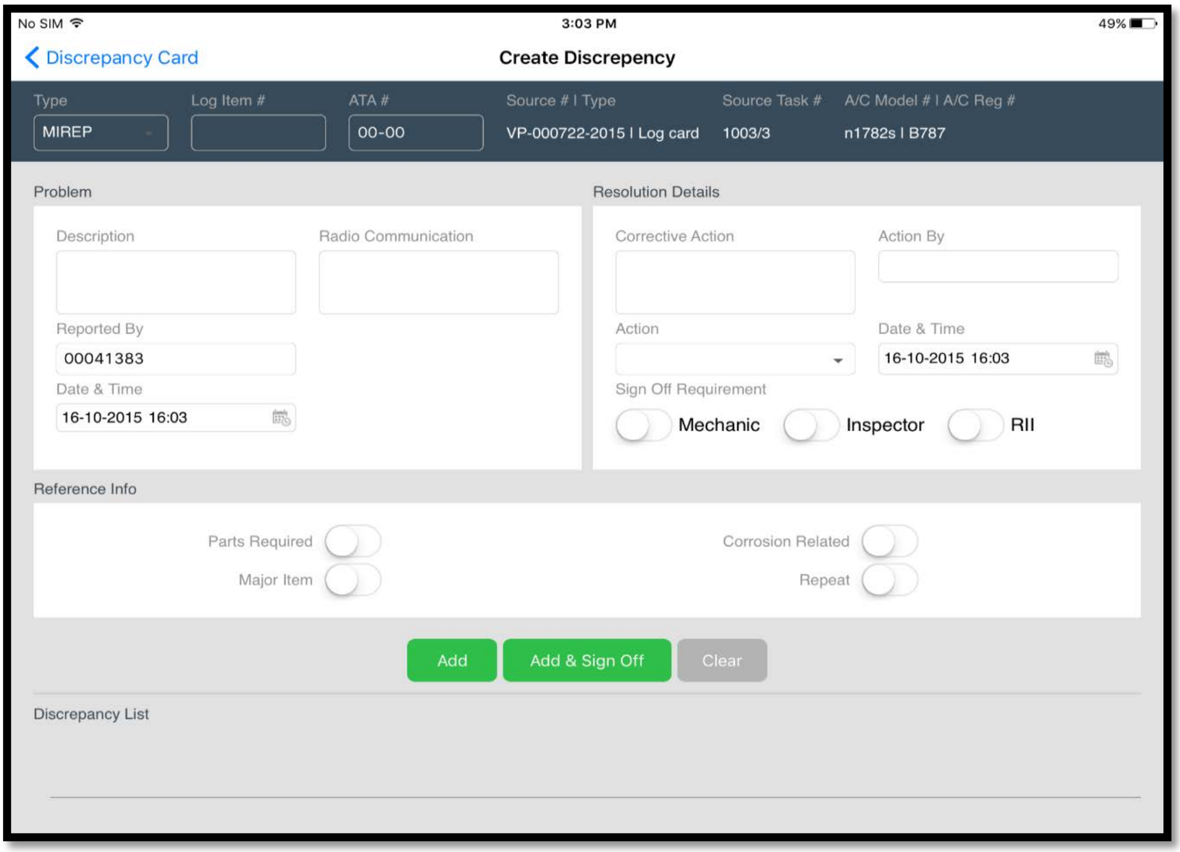
Create Discrepancy page can be launched from **Task List** or **Task Card** or **Discrepancy Card**. This page allows bulk creation of Discrepancies.

Provide the Discrepancy Type, Log Item # and ATA # in the top section, followed by Discrepancy Description in the Problem section. Here you can take a photo using the device’s camera to add an attachment to the Discrepancy. Click Add. This will add the newly created Discrepancy to the **Discrepancy List** in the bottom of the page.

Now to proceed, click 'Done'. Else to add more Discrepancies, continue providing the Description and clicking Add. To Add & Sign-Off during creation of the Discrepancy itself, use the Add & Sign-Off button. This requires the user to input corrective action in the Resolution Details section. Discrepancy related information can be set in the Reference Info section.

Click **Done** to create and insert all the newly added Discrepancies to the current Exe. Doc.

Exhibit – 11: Create Discrepancy



Material Request List

You can open **Material Request List** from the hamburger menu or from the **To Do** List page or from the **Task Card** / **Discrepancy Card** page.

The page is divided into the following sections:

1. Filter/Search/Sort section.
2. List section.
3. Action section.

Use Filter By option to quickly filter out Material Requests based on their Tracking Status.

Search allows you to do a global search across the following documents:

a. Execution Documents.

b. A/C Reg #.

c. Flight #.

d. Part #.

e. Serial #.

f. Component #.

g. Task #.

h. MR #.

i. Priority.

j. Warehouse.

k. Work Center #.

l. Customer Name.

Select a Search Option and then provide Search Criteria in the text box adjacent to the Search option and then click on the GO button.

Note: You can use Advanced Search by clicking on it or dragging it down with a swipe. Enter your search criteria and click the 'Search' button.

The List section displays the Material Requests that match the search criteria provided. Each Material Request is shown as a separate record with all important information regarding the same is shown in the same record.

Each record shows the following information:

1. First Line.
    a. Material Request #.
    b. Warehouse #.
    c. Priority.
    d. Request Date/Time.
    e. MR Status.
    f. Tracking Status.
2. Second Line.
    a. A/C Reg #.
    b. Exe. Doc. #.
    c. Task # / Discrepancy #.

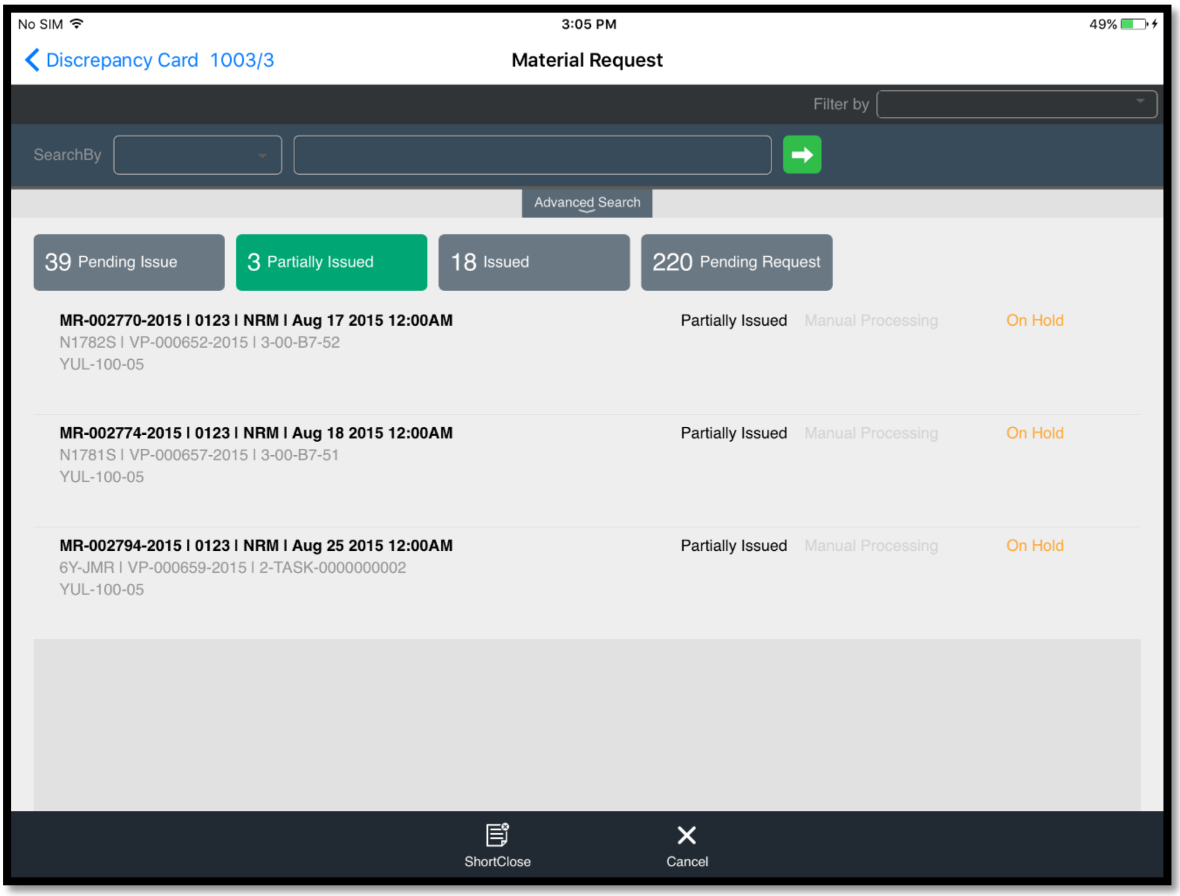
3. Third Line.
    a. Work Center #.

Action section allows you to perform the following actions in bulk:

1. Short Close.
2. Cancel.

Note: These actions can be individually performed on a Material Request record by swiping a record to the right in the list and clicking the swipe option.

Exhibit – 12: Material Request List



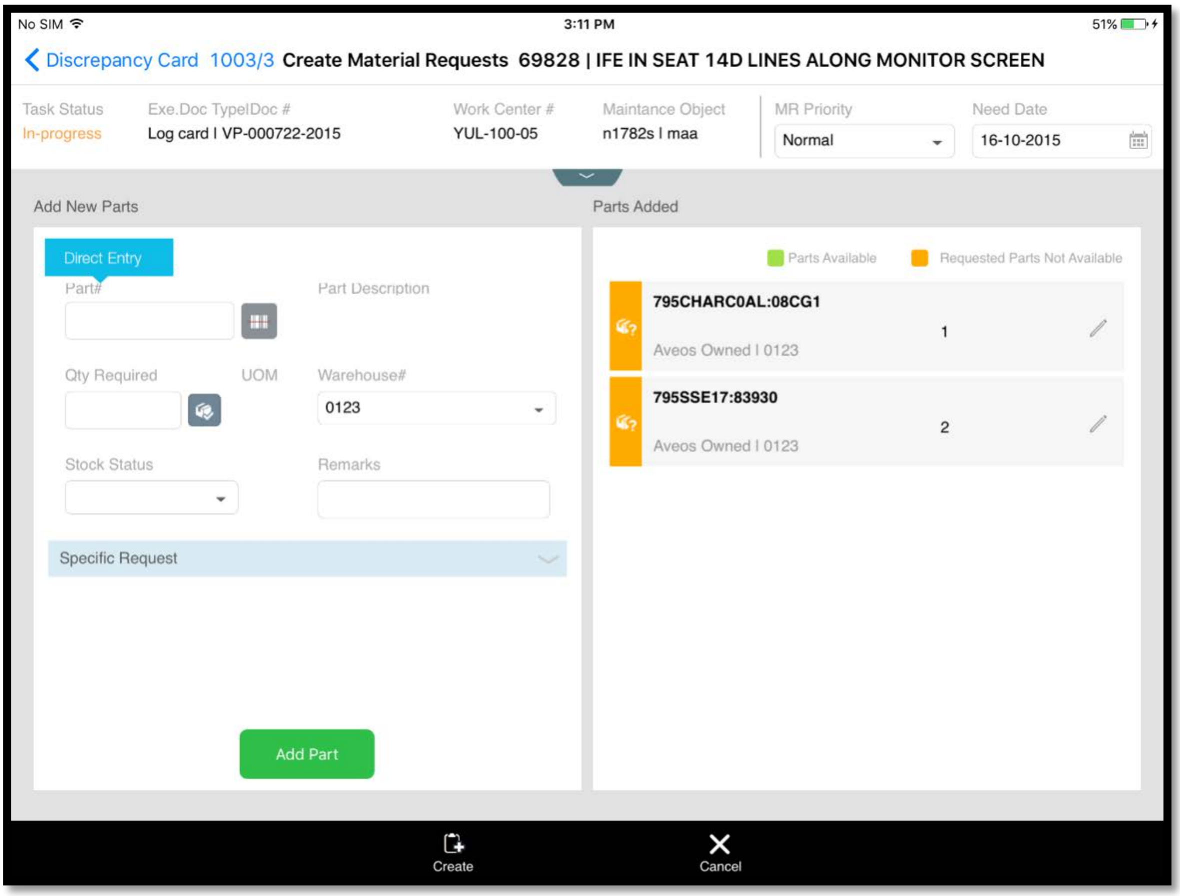
Clicking any of the Material Request records will open the **View Material Request** page for that MR.

Create Material Request

Create Material Request page can be launched from **Task List** / **Discrepancy List** or **Task Card** / **Discrepancy Card**.

You can quickly add parts from the Part Requirements of the Source Task / Discrepancy in the ‘Add Part from Requirement’ tab or manually request a part in the ‘Direct Entry’ tab. Click on ‘Add Part’ button to add the parts to the list on the right. Once the list is ready, click on the ‘Create’ button in the bottom action bar to create the Material Request.

Exhibit – 13: Create Material Request



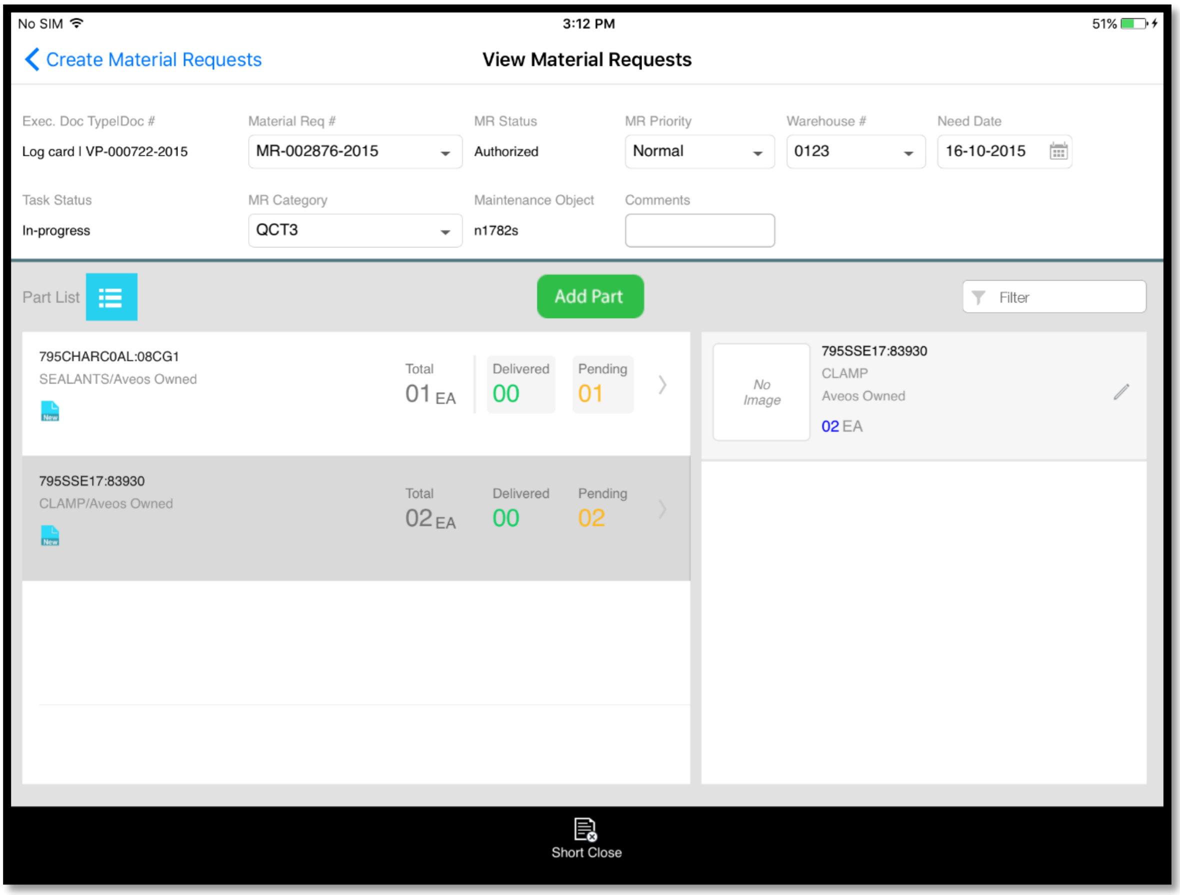
View Material Request

View Material Request page can be launched from **Material Request List** page on click of a Material Request record.

Basic Information regarding the Material Request is shown at the top of the page. The left side lists all the parts that were requested. Clicking on an item in this list, shows more details in the right side with the ability to edit the request or add more parts.

Short Close action is available at the bottom of the page to short close the current Material Request.

Exhibit – 14: View Material Request



Component Replacement List

You can **open Component Replacement List** from the hamburger menu or from the To Do List page or from the **Task Card** / **Discrepancy Card** page.

The page is divided into the following sections:

1. Filter/Search/Sort section.
2. List section.
3. Action section.

Use 'Filter By' option to quickly filter out Component Replacements based on their Disposition Codes.

Search allows you to do a global search across the following documents:

a. Execution Documents.

b. A/C Reg #.

c. Part #.

d. Serial #.

e. Component #.

f. Task #.

g. CR #.

h. A/C Position Code.

Select a Search Option and then provide Search Criteria in the text box adjacent to the Search option and then click on the GO button.

Note: You can use Advanced Search by clicking on it or dragging it down with a swipe. Enter your search criteria and click the Search button.

The List section displays the Component Replacements that match the search criteria provided. Each Component Replacement is shown as a separate record with all important information regarding the same is shown in the same record.

Each record shows the following information:

1. First Line.
    a. Source.
    b. Component Replacement #.
    c. CR Date/Time.
    d. OFF Part # / Serial #.
    e. CR Status.

2. Second Line.
    a. Position.
    b. Level Code.
    c. ON Part # / Serial #.
    d. Disposition Code.

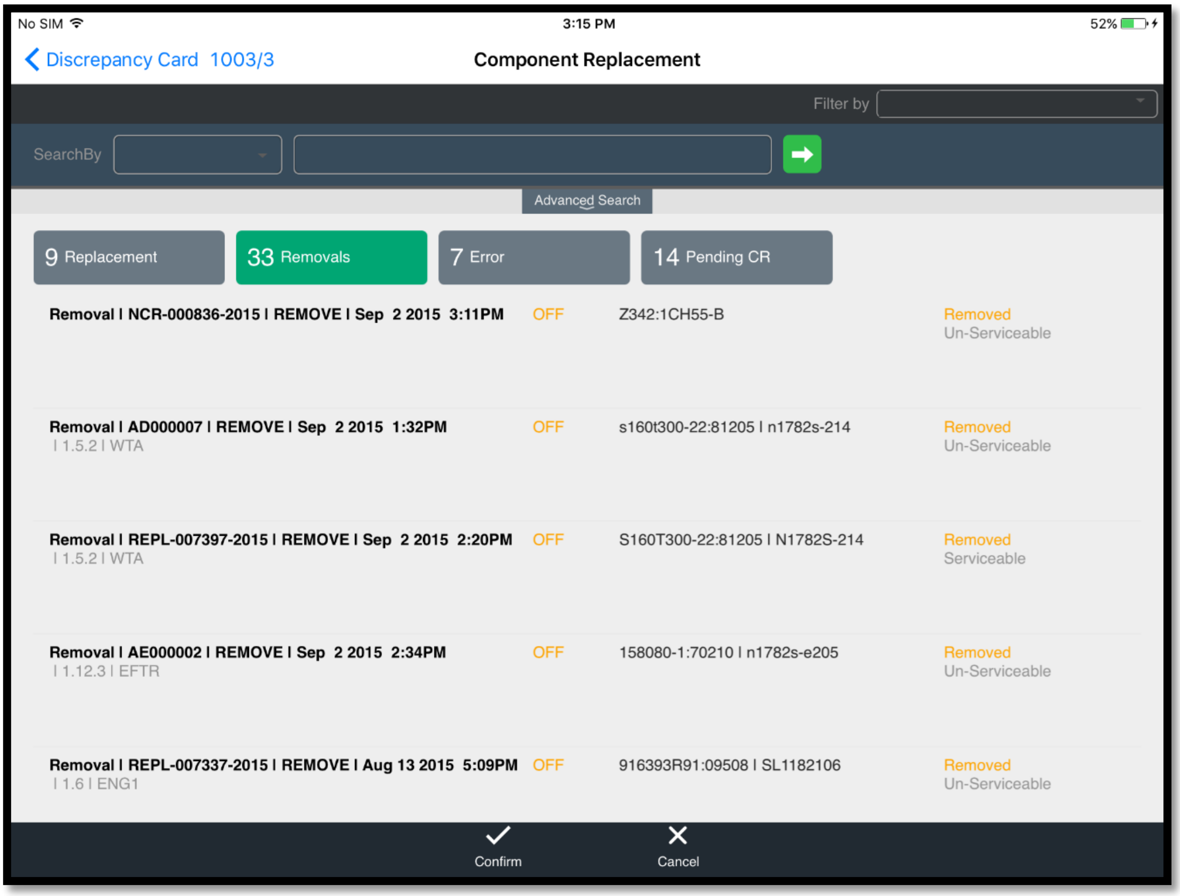
Action section allows you to perform the following actions in bulk:

1. Confirm.
2. Cancel.

Note: These actions can be individually performed on a Component Replacement record by swiping a record to the right in the list and clicking the swipe option.

Exhibit – 15:

Component Replacement List



Clicking any of the Component Replacement records will open the **View Component Replacement** page for that CR.

Create/View Component Replacement

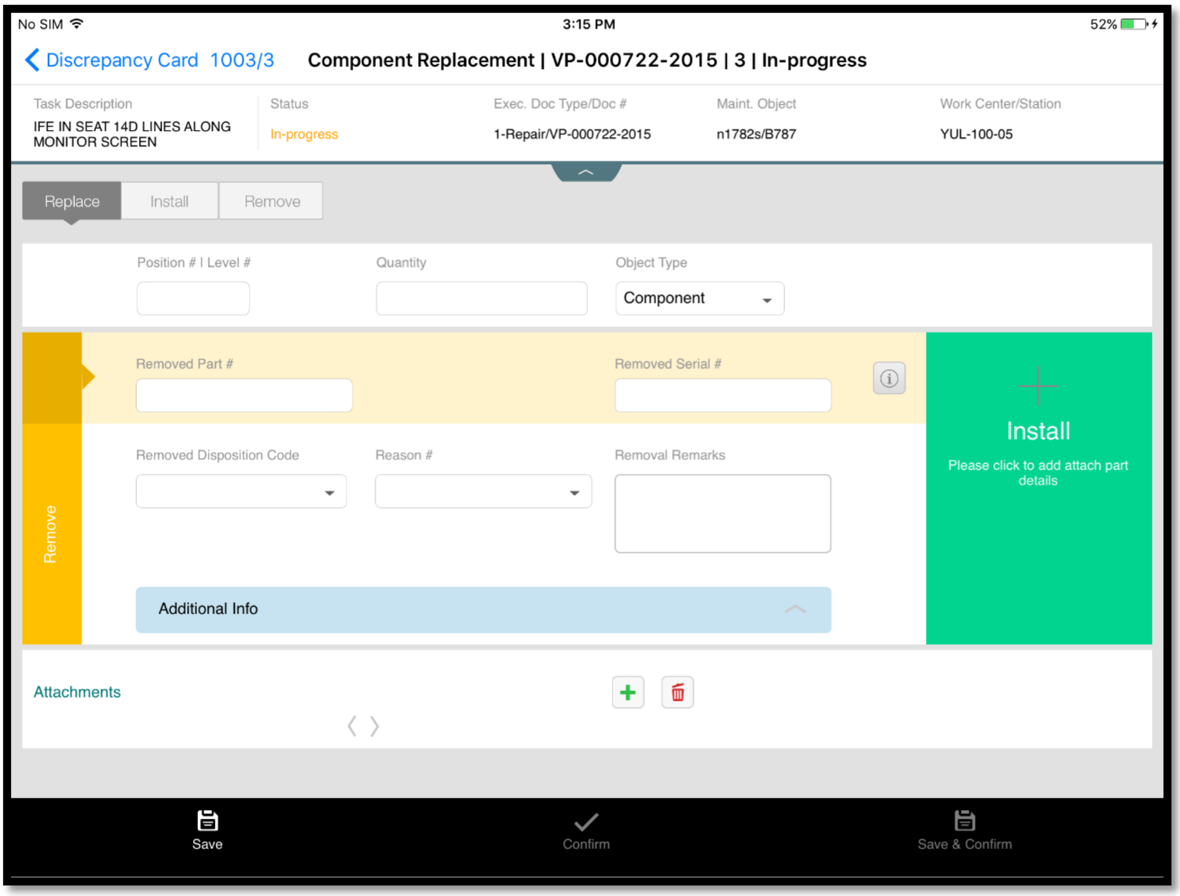
Create Component Replacement page can be launched from **Task List / Discrepancy List** or **Task Card / Discrepancy Card**. **View Component Replacement** page can be launched from **Component Replacement List** page on click of a Component Replacement record.

Basic Information regarding the Component Replacement is shown at the top of the page. Select either 'Replace' / 'Install' / 'Remove' based on the Replacement activity to be done. Enter the Removed Part # / Serial # and Installed Part # / Installed Serial # details in their respective sections. Provide the necessary input and click on Save in the bottom action bar to Save the record or Confirm to generate a Component Replacement # for an already saved record or 'Save & Confirm' to do both these actions in one click.

Installed Part # / Serial # can be defaulted by using the Issued Part popup to select any parts that were issued against the Source Task # / Discrepancy #. Auto Issue can be enabled by turning on the Auto Issue toggle next to the Installed Serial # control.

You can also take a photo and attach it to the Component Replacement record for future reference.

Exhibit – 16: Create/View Component Replacement



eLog

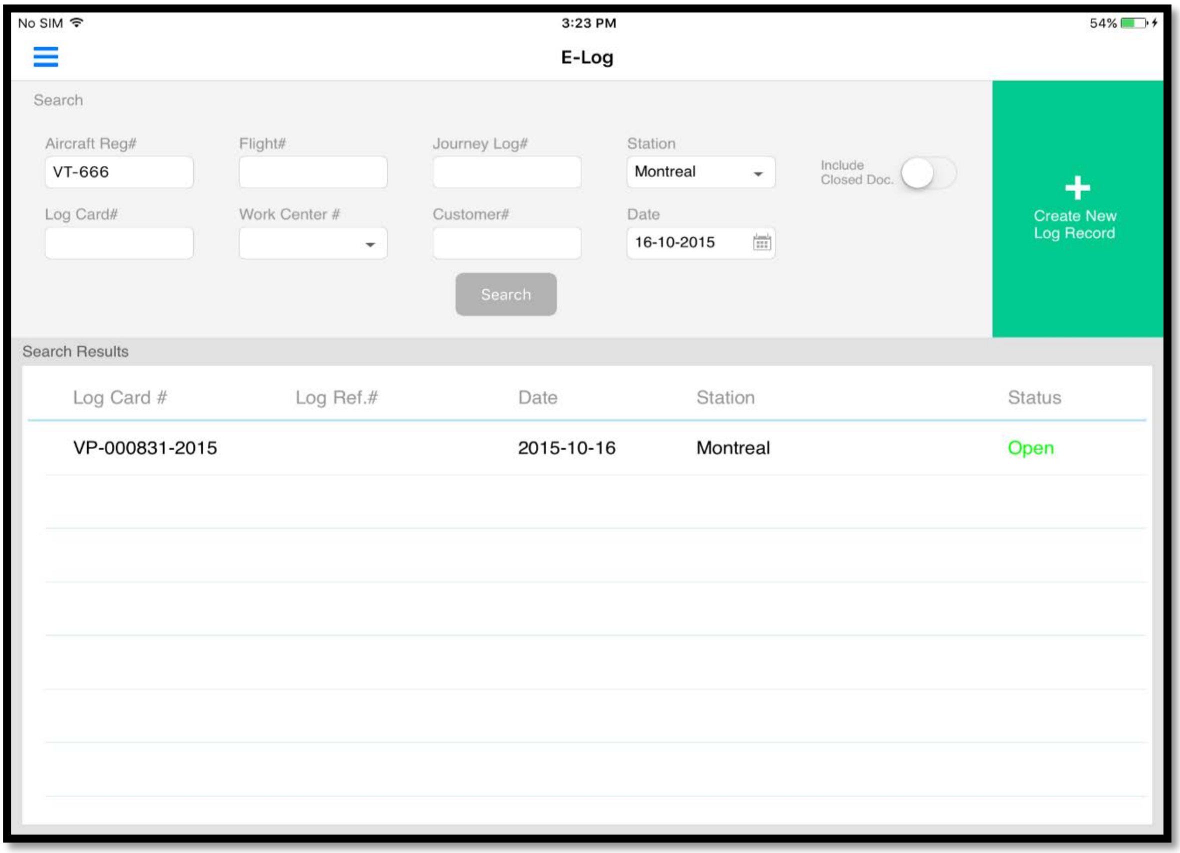
eLog allows you to quickly navigate a Technical Log in one UI without the need to jump between multiple list pages and UIs. This not only enables the mechanic to quickly record his work and move on, but also provides an easy way to review and complete a Log Card.

eLog can be launched from the hamburger menu. The first page to launch is the eLog Search page where you can search for a specific Log Card using the provided Search Criteria.

Note: If there are no search results available for the provided search criteria, the app will ask the user whether he wants to create a new log card and will automatically default the values used in the search criteria to create a new log card.

To create a new log card, tap on the 'Create New Log Record' button in the top right of the search page. This will open the **eLog Main** page.

Exhibit – 17: eLog Search



eLog Main

eLog Main shows the details of the Log Card. This page can launch as a create page (when creating a new Log Card) or as a view page (when launched for an existing Log Card). The top section has the basic log card details while the bottom section has the flight details associated with the log card. You can change any information in this page and tap the Save button in the action bar.

You can also change the Log Card status using the Status button in the top right corner of the page. And if there's a flight planned for the current Aircraft in the next 2 hours or less, a minute countdown 'Time to Departure' will appear in the right section which counts from 120 min to 0 min.

Exhibit – 18: Create Log Card

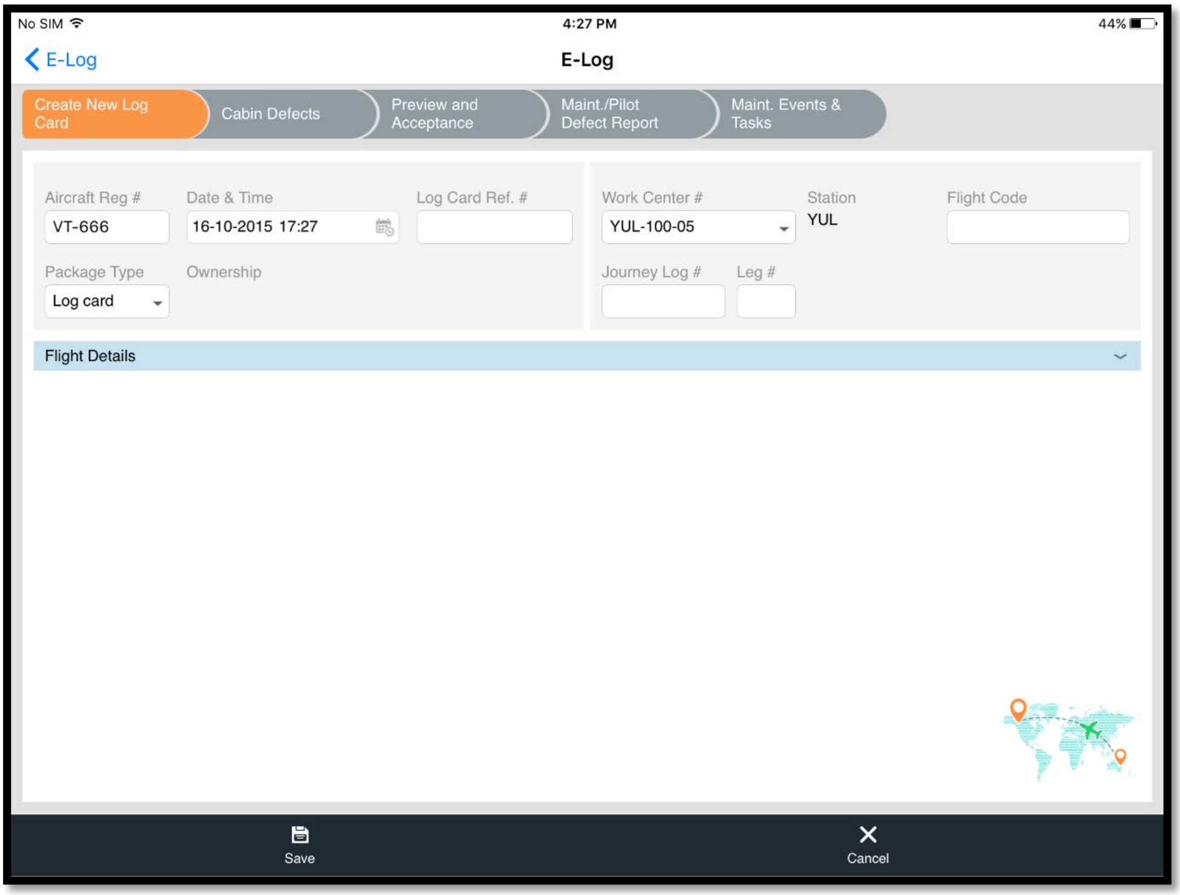
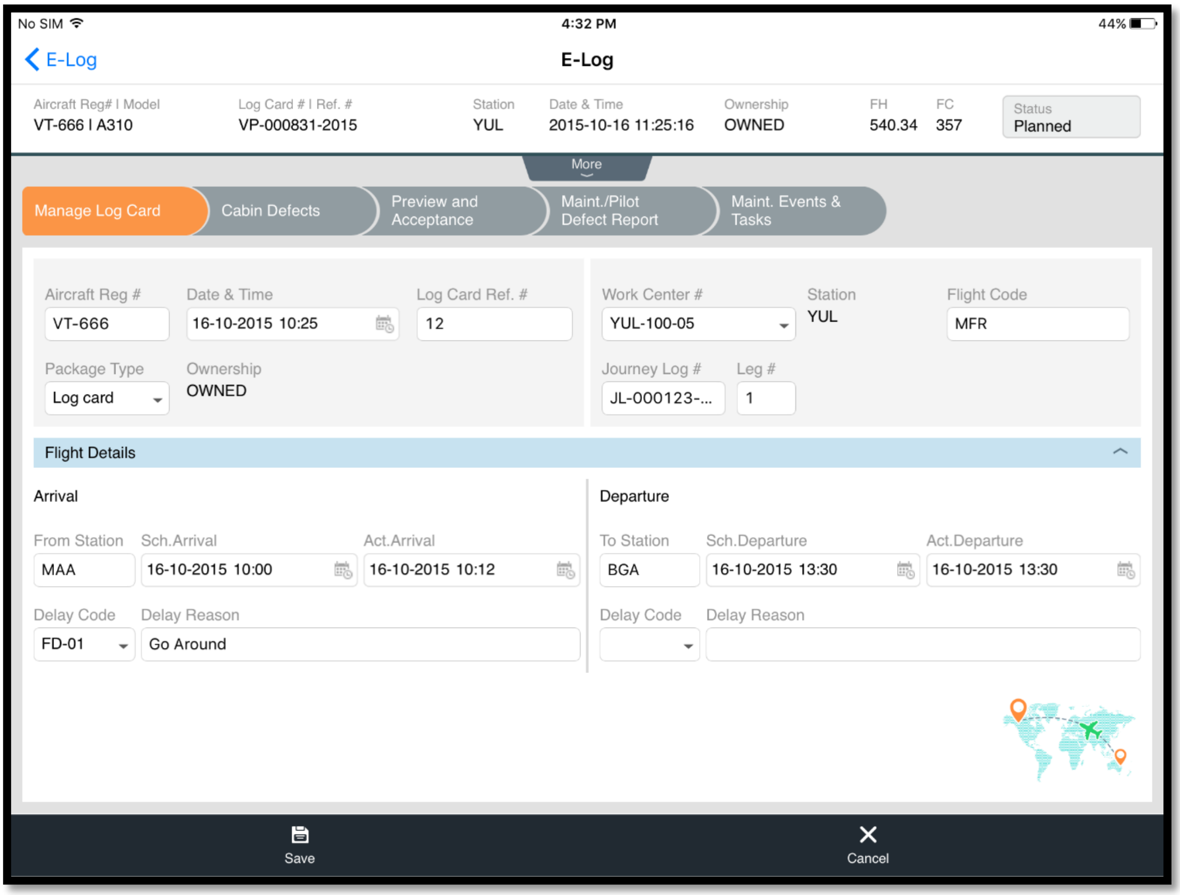


Exhibit – 19: Manage Log Card



eLog Maint. / Pilot Defect Report

In this section, you can do the following actions:

a. Record a new Discrepancy with the Record Discrepancy Write-up button.

b. Add a previously deferred Discrepancy with the Total Deferred Discrepancy button.

c. See a list of reported Discrepancies in the current Log card in the left side with basic information of the same.

d. Tapping on a Discrepancy record in the list will show more details in the right side for that Discrepancy.

e. Edit the current Discrepancy by tapping on the edit icon next to the Discrepancy # in the right side.

f. Start / Stop clock against the Discrepancy.

g. Add New Corrective action with the Add button available next to the Corrective Action display.

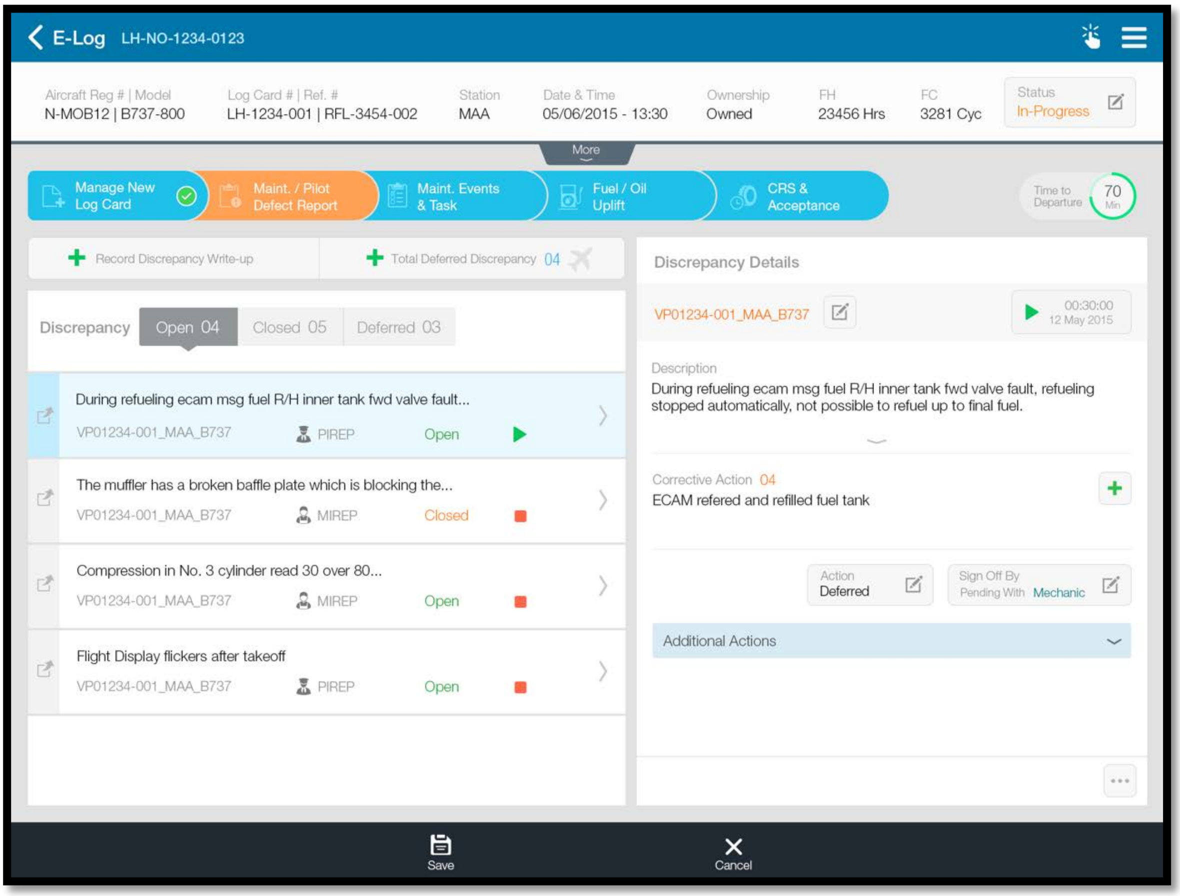
h. Change the status of the Discrepancy.

i. Sign-Off the Discrepancy.

j. View Material Requests count, Component Replacement count, Part Consumption count and Resources count for the current Discrepancy.

k. Add Photos against the current Discrepancy.

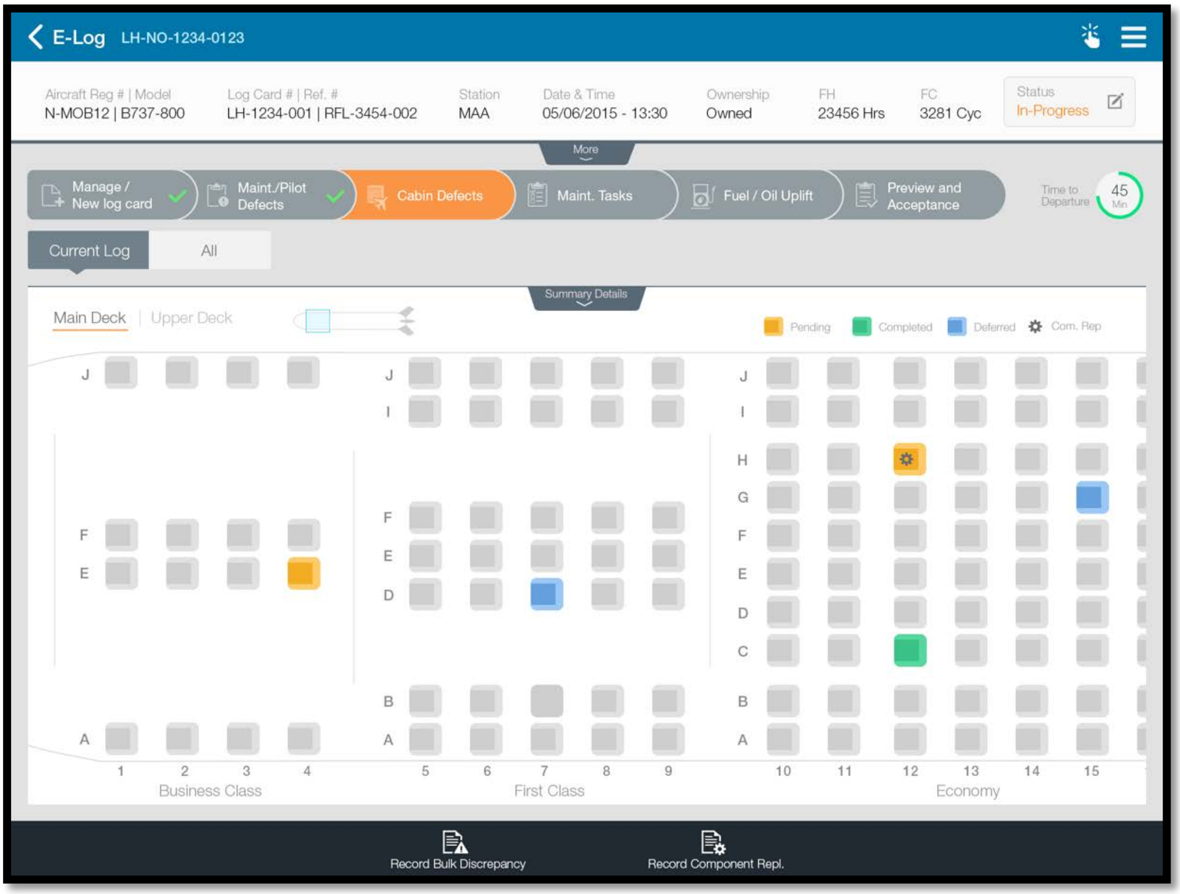
Exhibit – 20: Maint. / Pilot Defect Report



eLog Cabin Defects

View the Cabin Layout of the aircraft (Layout Of Passenger Accommodation (LOPA)) and quickly report a Discrepancy or perform a Component Replacement on a specific Seat and track it to closure.

Exhibit – 21: Cabin Defects

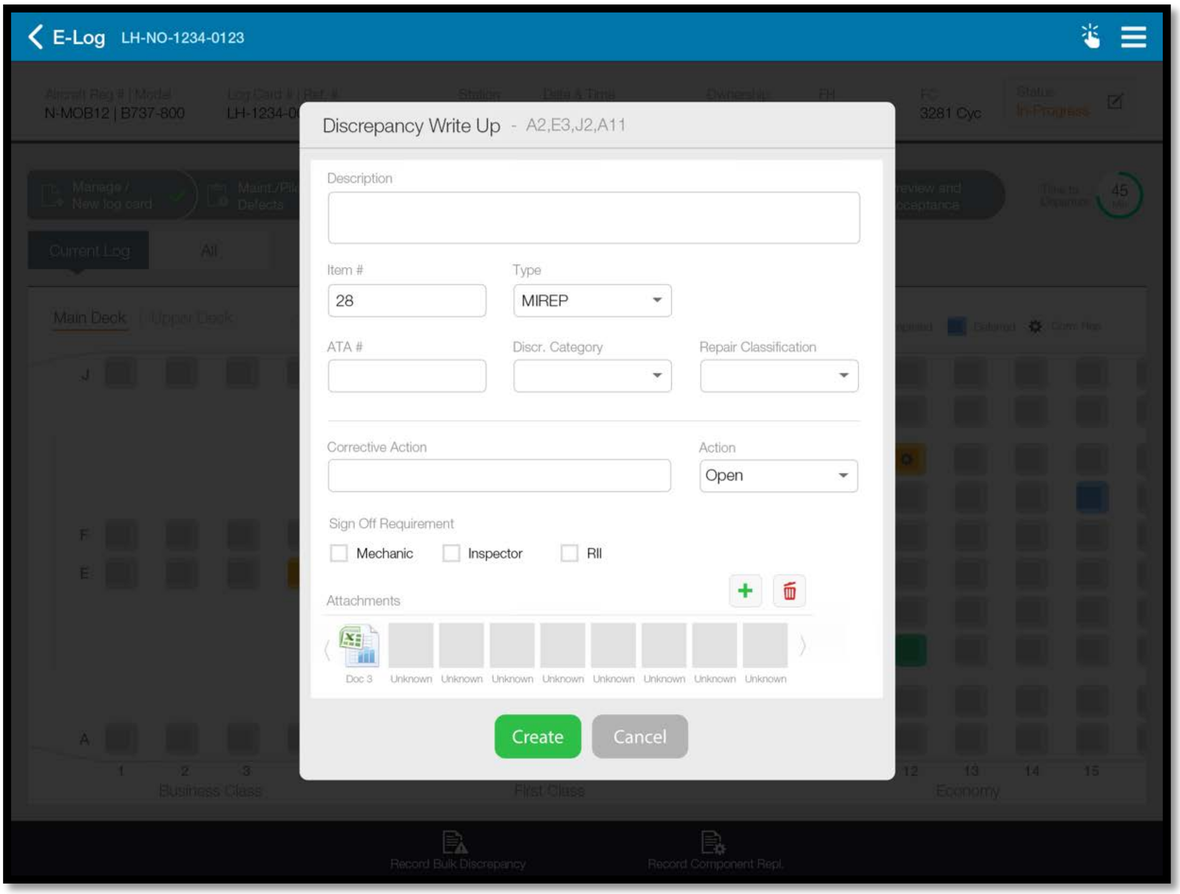


The top section allows you to select the deck to work on (Main Deck or Upper Deck). A preview panel is available beside that allows you to quickly change the current section of the aircraft that is being shown on the screen. To view Summary Details of all cabin defects in the current Log Card, swipe down or tap on the Summary Details tab. Here you can see count of Pending items against total items with respect to different Section Type.

Pending Discrepancies on a seat is highlighted by an Orange colour. Clicking on the same will show a list of Discrepancies reported on that seat. Once all the Discrepancies are closed, the seat will show up in Green colour. If there are deferred Discrepancies yet to be closed, the seat will show up in Blue colour.

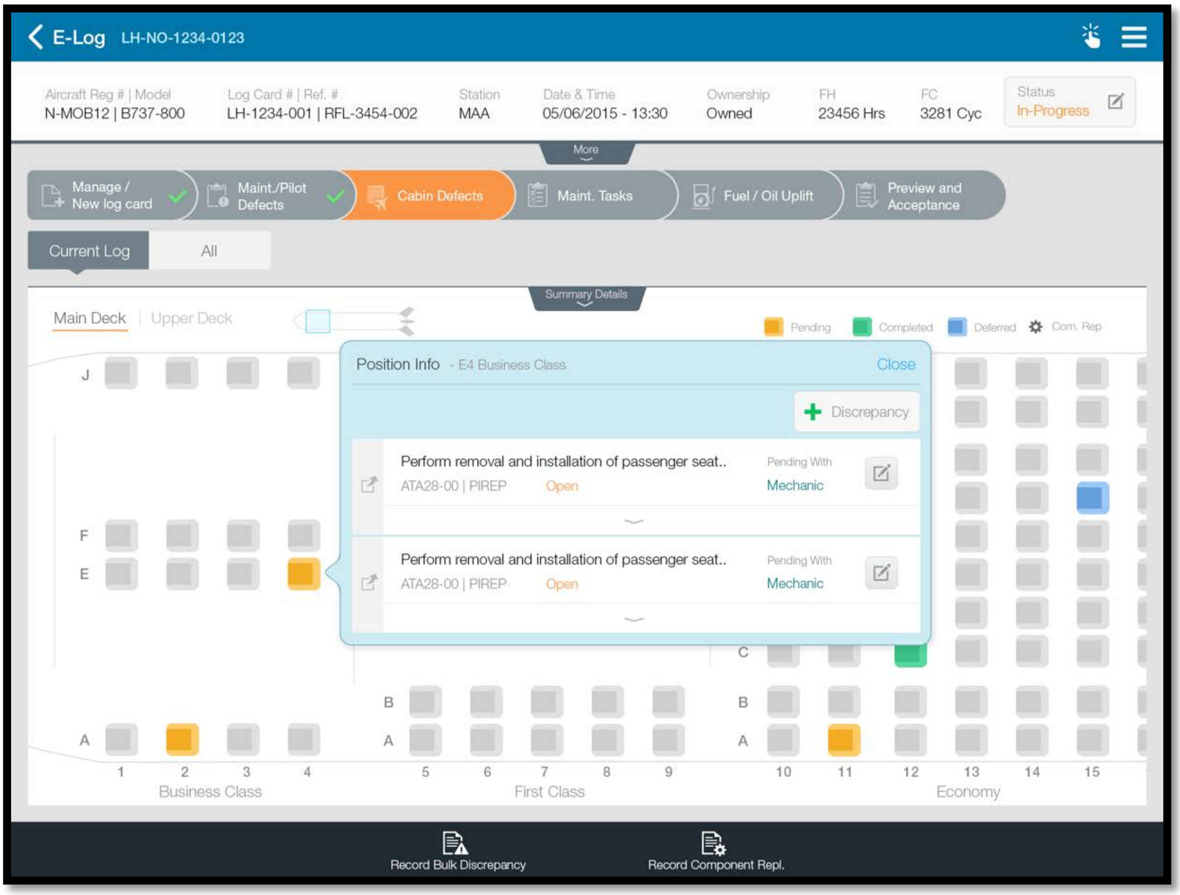
Clicking the Add New Discrepancy button in the Discrepancy List for an existing seat or clicking on an empty seat which has no Discrepancies reported, will automatically open the Discrepancy Write Up popup. Here you can create a Discrepancy for the current seat.

Exhibit – 22: Create Discrepancy



To record bulk discrepancies across multiple seats, click on the 'Record Bulk Discrepancy' in the bottom action bar and then select a few seats from the layout. Once done, click on the Confirm action bar button to open the Discrepancy Write Up popup. On click of Create, eLog will create individual Discrepancies for all the selected seats with the same Discrepancy Description that is provided appending the Seat Number along with the description.

Exhibit – 23: Discrepancy Info on a Seat



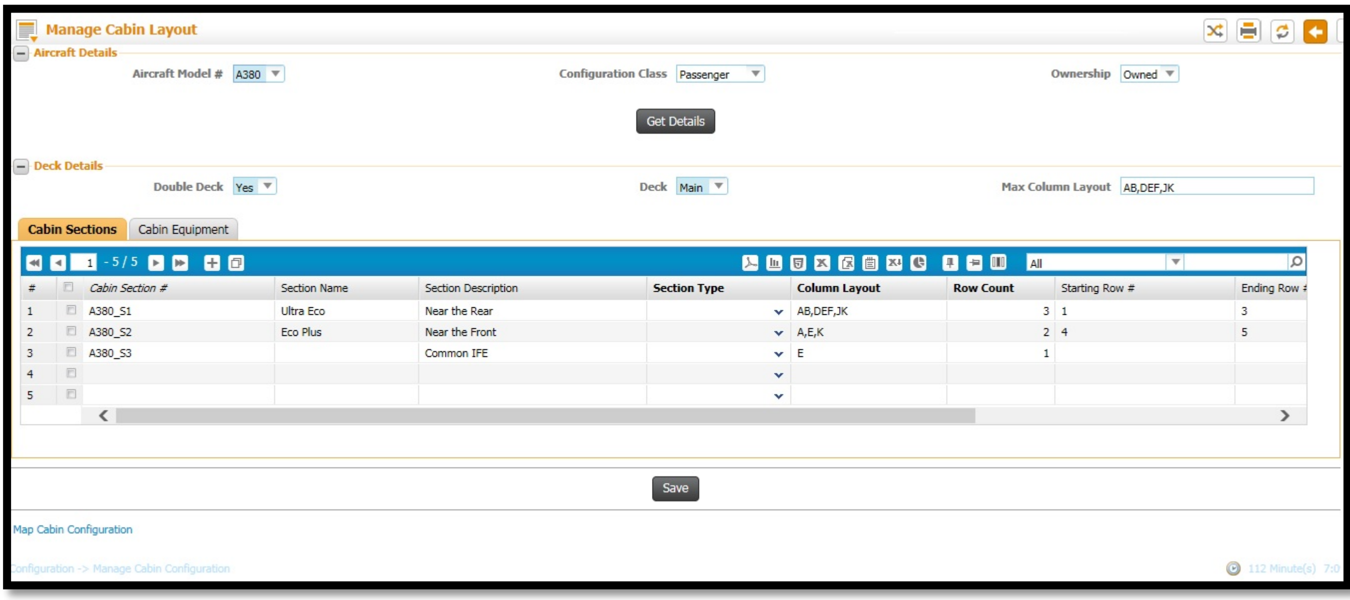
To record Component Replacement, click on the 'Record Component Repl.' in the bottom action bar and select a seat and click on Confirm. This will open up the Create Component Replacement page with all the details regarding the position and part defaulted. You can proceed to Confirming the Component Replacement transaction in that screen.

The cabin layout for different aircrafts can be configured in the Ramco M&E Application. Under **Configuration Management → Configuration → Manage Cabin Configuration**.

In the **Manage Cabin Layout** page, choose the **Aircraft Model #**, **Configuration Class**,**Customer** and click *Get Details*. Then select whether the configuration is a double deck or not, if yes, select the current deck for configuration. Provide the **Maximum Column Layout** in capital letters with commas indicating space between the seats for the aisles. *Example: AB,DEF,JK denotes a 2-3-2 seating arrangement.*

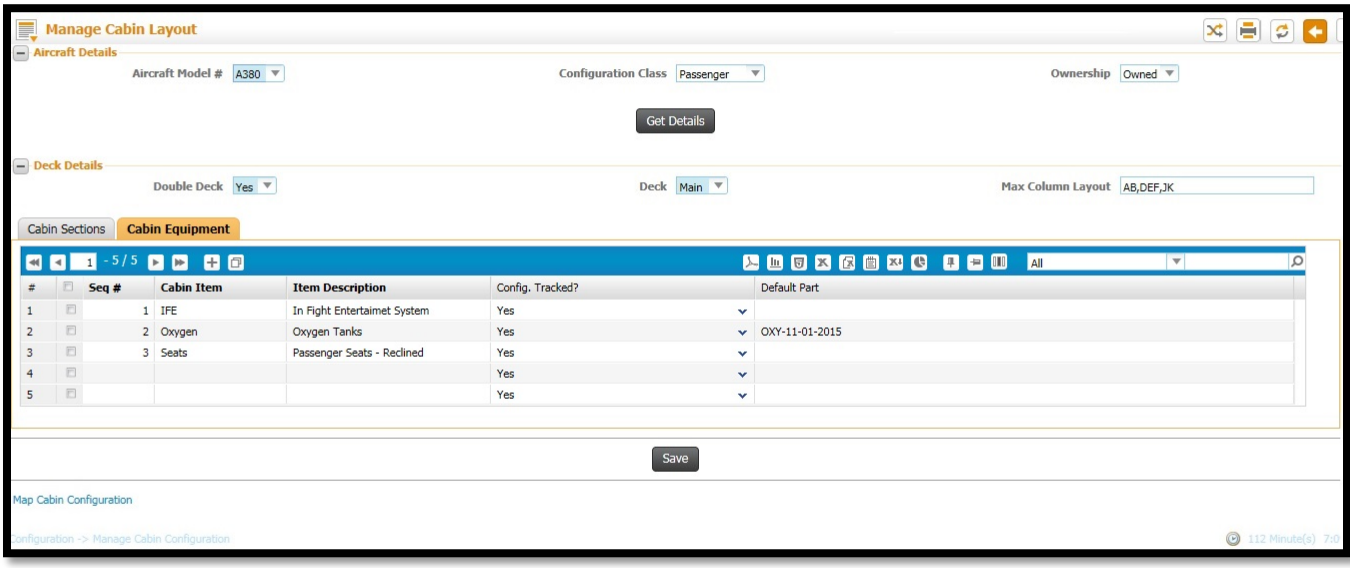
In the **Cabin Sections** tab, provide a **Section Name** and **Section Description** and choose **Section Type** (configured in the Configuration Quick Codes page). Type in the column layout with capital letter and commas indicating space between the seats for the aisles. Enter the number of rows to define for the current section with **Starting Row #** and **Ending Row #**. If there are multiple sections, **Seq #** allows you to say which section should come first. Set **Numbered?** as 'Yes' for seats and 'No' for non-numbered items such as a Common In Flight Entertainment system that can have its own section but no numbering. **Has Exit?** allows you to set whether there are any exits in the front or the rear of the current section.

Exhibit – 24: Cabin Sections



In the **Cabin Equipment** tab, provide all possible equipment to be shown in the Cabin Defects page (example: IFE, Oxygen Tanks, Seats). Set **Config. Tracked?**as 'Yes' if you want to track Component Replacements for those equipment. If this option is set as 'No', provide a Default Part # in the next column.

Exhibit – 25: Cabin Equipment

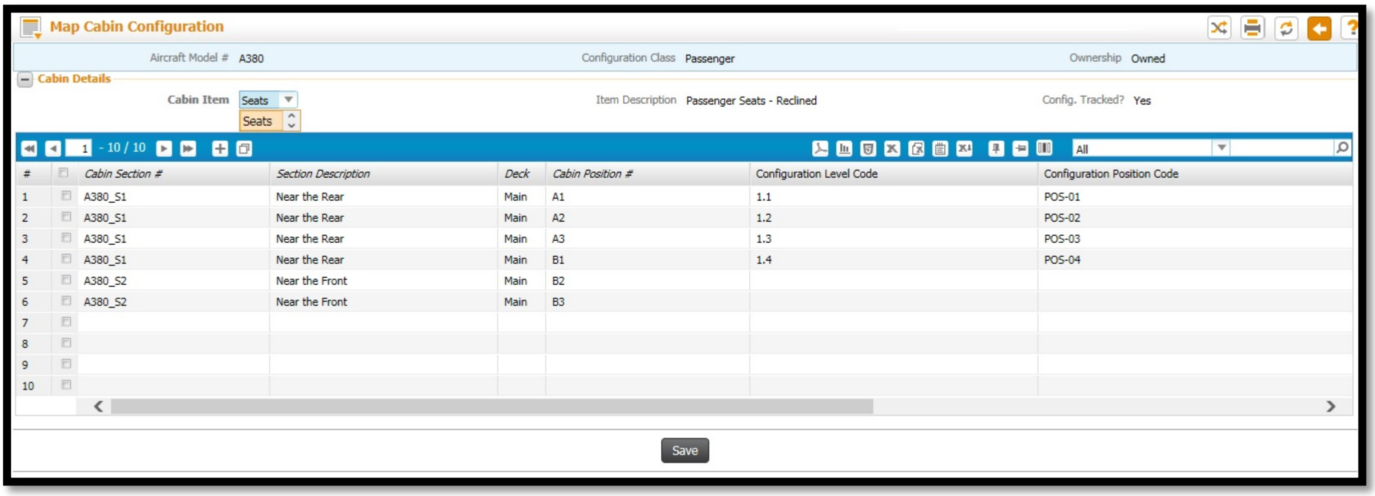


Once these are configured, launch the **Map Cabin Configuration** page via the link provided in the bottom of the page.

In the **Map Cabin Configuration** page, select a **Cabin Item** and provide either the **Configuration Level Code** or **Configuration Position Code** for each and every seat, if the selected Cabin Item is Config. Tracked (as set in the previous page). If there exists no configuration position for the seat, you can set **New Position?** as 'Yes' and provide a new Configuration Level Code and an existing Configuration Part # and system will automatically generate a new Configuration Position Code.

If the Cabin Item is not Config. Tracked, select if the item is applicable for each and every seat. System will automatically fetches the Default Part # from the previous page to load the **Standard Part #** but it can be changed for each seat, if required.

Exhibit – 26: Map Cabin Configuration



eLog Maint. Events & Task

In this section, you can do the following actions:

a. Add Tasks to the Log Card with the Add Task button.

b. Create New Non Standard Task or add Existing Task from the Task Library.

c. See a list of planned Tasks and Non Standard Tasks in the current Log card in the left side with basic information of the same.

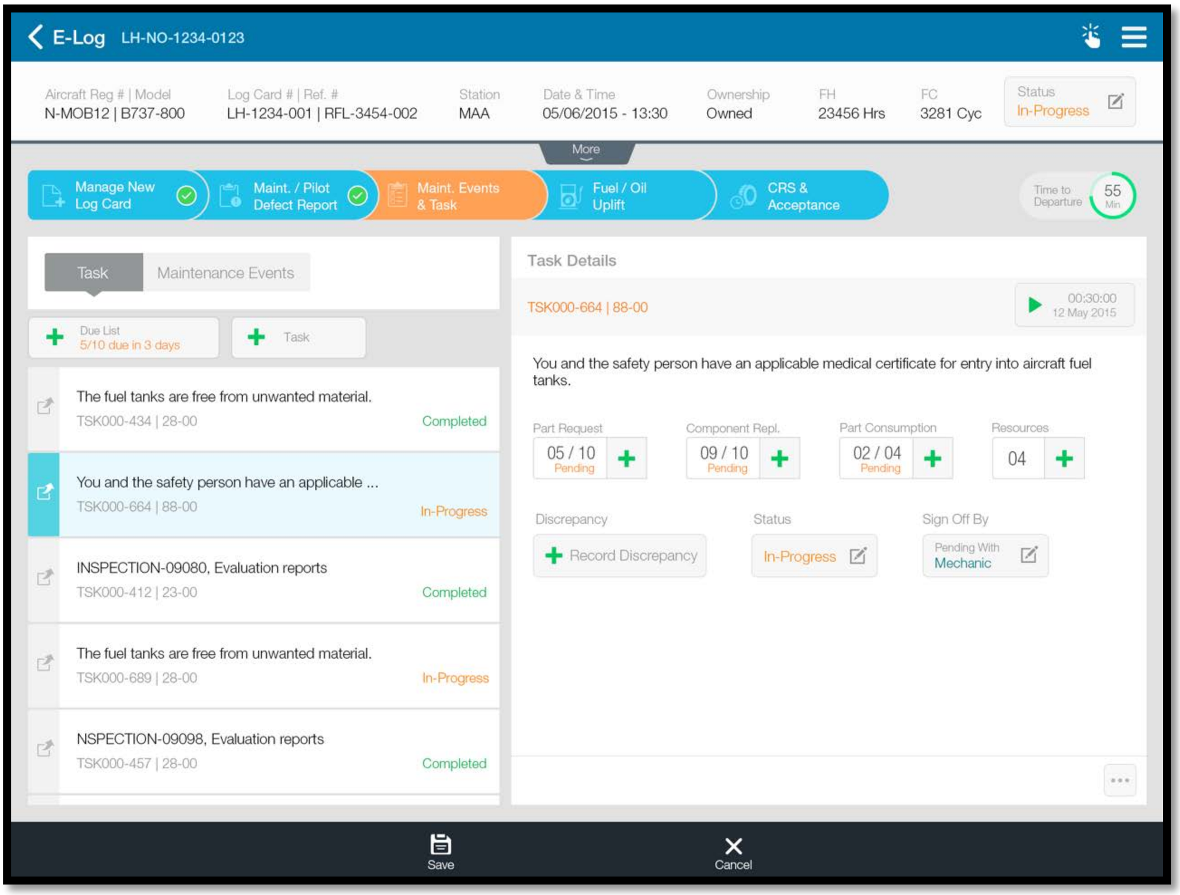
d. Tapping on a Task record in the list will show more details in the right side for that Task.

e. Start / Stop clock, Change Status, Sign-Off against the Task.

f. View Material Requests count, Component Replacement count, Part Consumption count and Resources count for the current Task.

g. Record New Discrepancy against the Task.

Exhibit – 27: Tasks

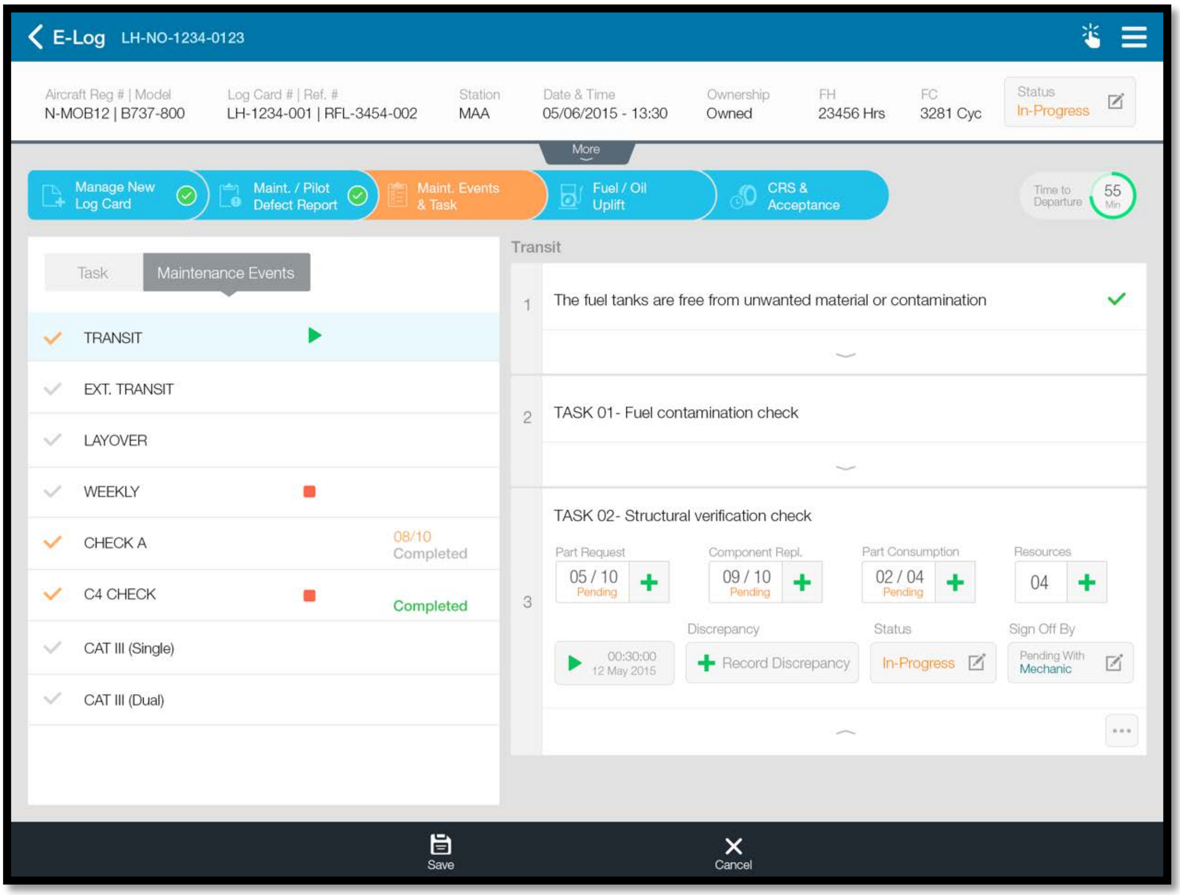


View Maintenance Events associated to the current Aircraft Model #.

h. Associate a Maintenance Event to the current Log Card.

i. Track and complete all the tasks in a Maintenance Event.

Exhibit – 28: Maintenance Event



eLogPreview & Acceptance

This section provides an overall view of the Log Card with pending work information along with the ability to Sign-Off CRS and CRA.

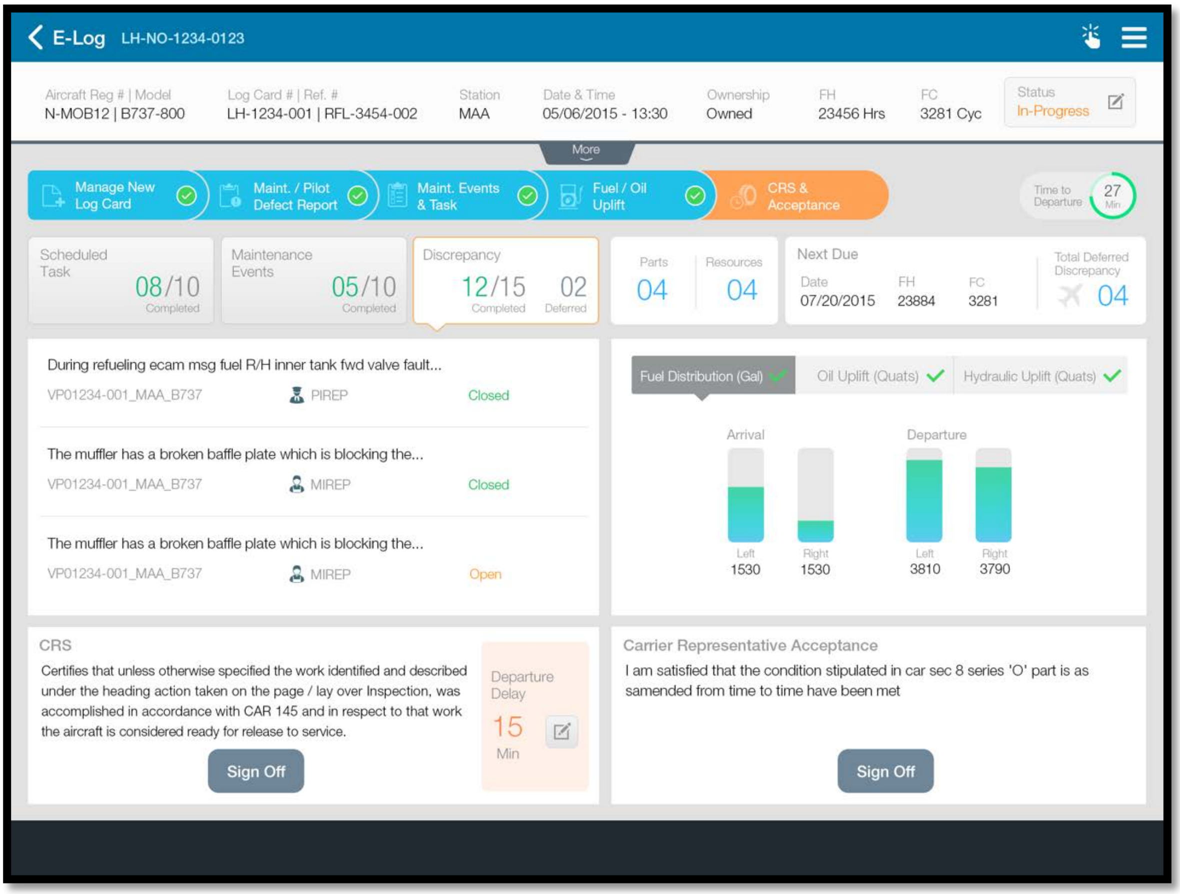
The left section shows Pending work against the Total work count for the following:

1. Scheduled Task.
2. Maintenance Events.
3. Discrepancy.

Clicking on either of these options will load the list section below the options and show the list of pending items against the completed items. Clicking on the pending items will directly jump to the respective section for that Task/Maintenance Event/Discrepancy.

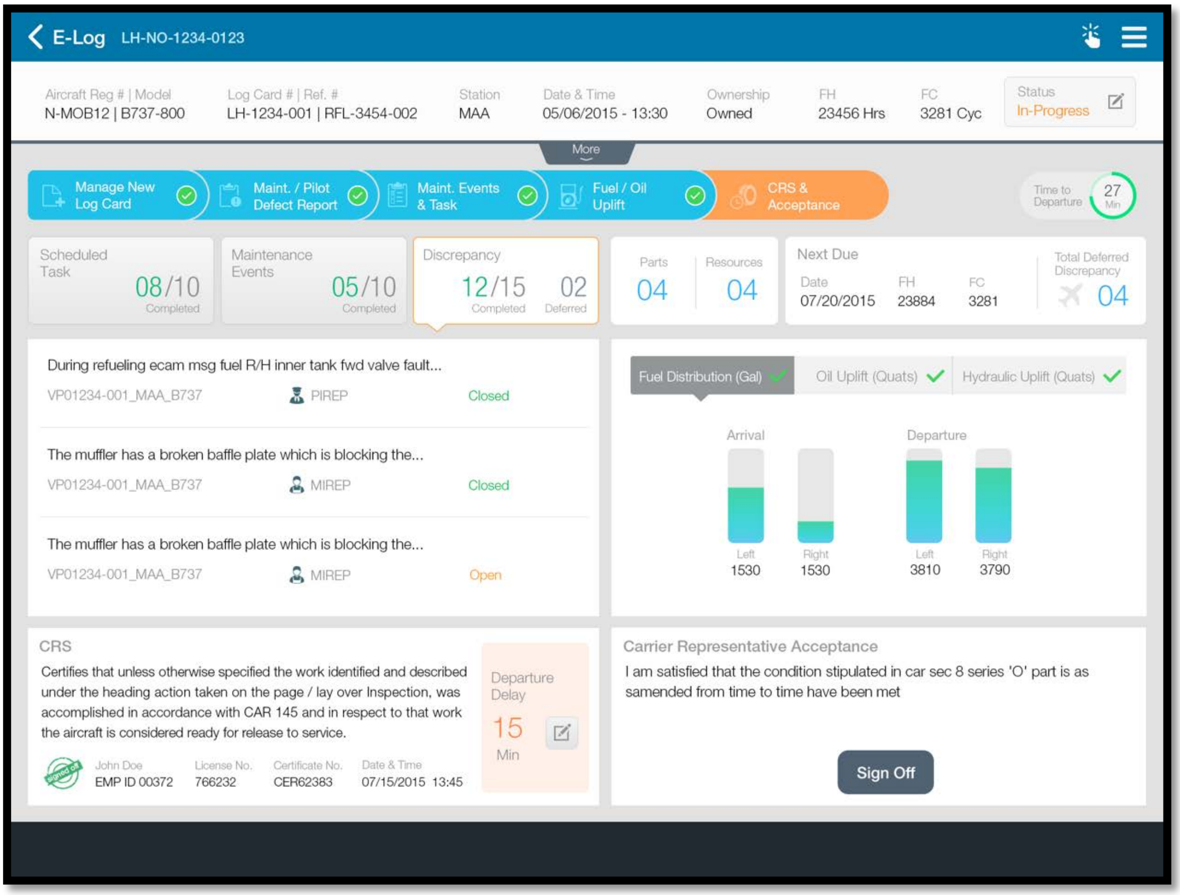
The right section shows Total Parts requested and Total Resource Reporting donefor the current Log Card. Also available is the view of the Next Due item with its Due Date, Due FH and Due FC along with the Total Deferred Discrepancy count.

Exhibit – 29: Preview & Acceptance



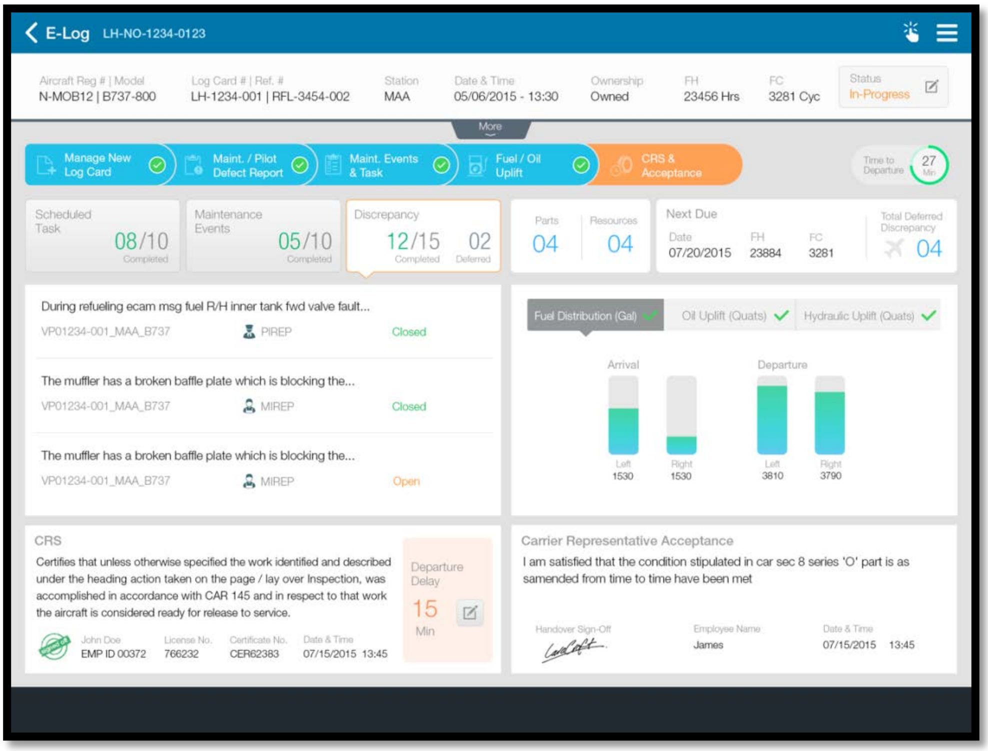
CRS is Certificate of Release to Service. When you Sign-Off CRS on eLog, it will automatically issue CoM certificate (Certificate of Maintenance) in the system. This is optional controlled by a Set Option in the Define Process Entities.

Exhibit – 30: CRS Sign-Off



CRA is Carrier Representative Acceptance. The Pilot or the person who is receiving the aircraft after the CRS is signed-off can do the acceptance sign-off. Signature of the person accepting the aircraft is captured on the touchscreen during sign-off. This is optional controlled by a Set Option in the **Define Process Entities** activity.

Exhibit – 31: CRA Sign-Off



Limitations of MechanicAnywhere

The following are the known limitations in the **MechanicAnywhere** application which will be addressed in later software updates.

1. The list pages viz., MR List, CR List, Task List & DP list in Mechanic Anywhere app can be used as a review page. Swipe and bulk actions have not been enabled from these pages.
2. While the desktop supports multiple barcode based work actions, for the current scope of release, only 'start clock' and 'stop clock' functions have been enabled in MechanicAnywhere mobile app.
3. A separate view page has not been developed for component replacements and for now, CRs can be viewed only in the CR list page.
4. Ability to modify hold status, Estimation status and record parameters have not been enabled from Task Card.
5. Fuel / Oil Information in eLog is currently not available.

WHAT'S NEW IN MOBILITY?

ABILITY TO MANAGE VARIOUS STORES OPERATIONS USING iPhone

Reference: AHBF-14126

Background

Warehouse operational efficiency is the key to the success of any organization. The successful day to day functioning of an organization is characterized by the efficiency with which the huge amount of data intensive transactions like Stock Receipts, Stock Issues, Stock Transfers, Stock Returns, etc. is dealt with on a daily basis. Aviation industry is no exception to it. In the conventional world, the Warehouse Clerks work on these documents in a typical desktop application. But with the ever growing need to simplify working, stay flexible and nimble, it has become imperative to ensure that the Warehouse Clerks are equipped sufficiently for managing warehouse operations anywhere and everywhere irrespective of their presence.

As IT advances, mobile devices are moving towards greater level of integration with human activity. So, it's highly demanding that Inventory management goes mobile and so Ramco introduced the **WarehouseAnywhere** application, which will increase the process efficiency and thus enhance productivity by enabling new ways of working. The warehouse anywhere application reduces the dependencies on desktop applications and ensures uninterrupted connectivity for the warehouse personnel. It ensures optimized performance, improved connectivity, and greater agility thus delivering exponential productivity gains and incremental business value to the customer.

Change Details

The WarehouseAnywhere application primarily helps the Warehouse Clerk (Warehouse In-charge/Stores Clerk) in carrying out the following three activities in their Warehouse.

- Stock Issue
- Stock Transfer
- Stock Inquiry

However, this list does not end here. The WarehouseAnywhere application will be enhanced in the forthcoming releases to manage all the key transactions that happen in a Warehouse, including Goods Receipt. This application is well integrated with the Ramco M&E desktop application, thereby ensuring all the work done in this application can also be viewed using the desktop application and vice versa.

WarehouseAnywhere application Pre-Requisites

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

e. iPhone 5 or later.

f. iOS 9 or later.

g. Constant network connectivity via Wi-Fi or 3G/4G.

h. 100 MB or more free space.

Note: Your carrier might charge you extra for data roaming if 3G/4G mobile data is used. When available, always prefer Wi-Fi connectivity over Mobile Data.

Installation Guide

WarehouseAnywhere app will be available to install from the enterprise store and not from the Apple App Store. To access the enterprise store, contact your IT Admin team to get the URL of the host server. Now follow the below steps on the iPhone.

11. Ensure the device is connected to Wi-Fi or Mobile Data.
12. Open Safari.
13. Type in the URL provided in the Address bar and click GO.
14. On the Enterprise store listing, select the ‘WarehouseAnywhere’ app.
15. Click ‘Install’ on the popup to allow installation on the device.
16. Quit Safari.
17. Wait for the app installation to complete.
18. Tap on the App icon.
19. If Untrusted App Developer popup shows up, click on ‘Trust’.
20. Quit the App.

Note: WarehouseAnywhere application has got commercial implications. It is available only for specific customers.

Application Configuration

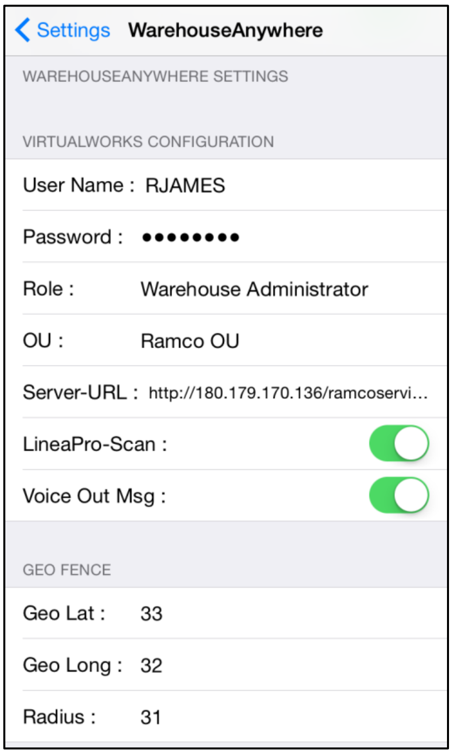
In order for the application to work seamlessly, there needs to be some configuration done for the WarehouseAnywhere application, which is discussed below.

- General Settings
  - The general settings are the ones that will be defined by the IT team of the organization and it'll be available in the iPhone Settings screen
  - These settings include the following.
    - Server Configuration
    - Default User/Role/Organization Unit Configuration
    - Geo Fencing Setup
      - By this configuration, user will be able to control the region in which the WarehouseAnywhere application can be used
    - Linea-Pro Scan
      - Linea-Pro is a Barcode scanning device that can ease the scan of Barcode in the WarehouseAnywhere application
      - This setting if turned on, the scan of Barcode can be accomplished using the hardware (Linea-Pro) attached to the mobile, in addition to the usage of Mobile Camera.

Note:

- *Only after configuring these settings, will the user be able to use the WarehouseAnywhere application in the mobile device.*

Exhibit 1: Identifies the **General Settings** screen



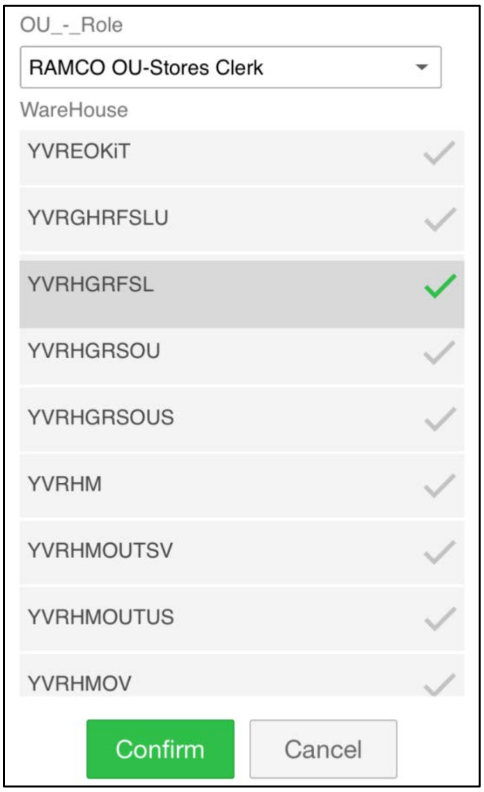
Application Settings

- o This screen will facilitate the User to modify the following
  - Context Role/Organizational Unit
  - Warehouse where the User is currently working.

Note:

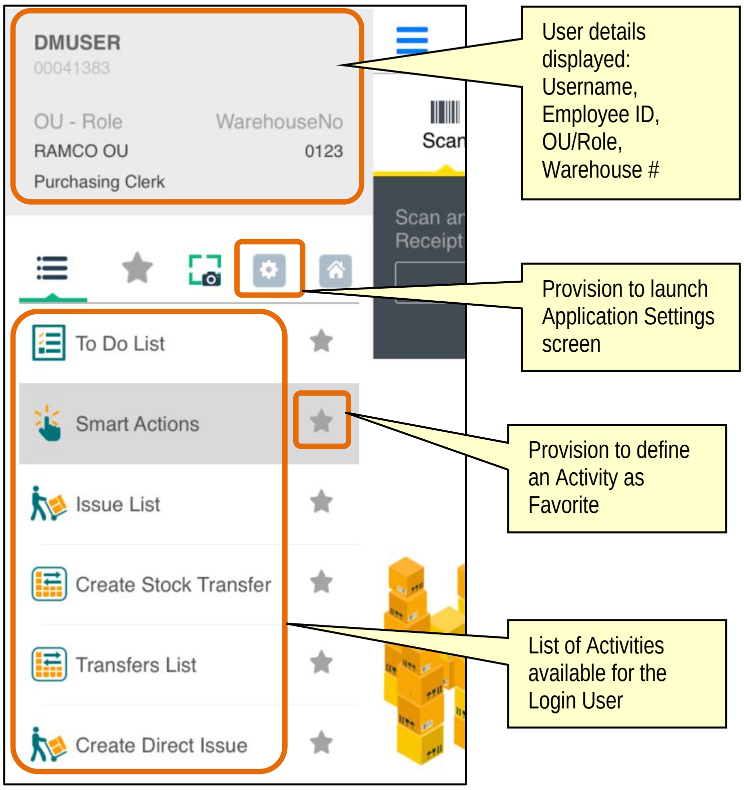
- *The definition of the Warehouse is a key setting as only the transactions in this Warehouse will be displayed throughout the application.*
- *This screen can be launched from the Menu Options page which serves as the hub to launch different screens in the application, along with the display of the User Login information.*

Exhibit 2: Identifies the **Application Settings** screen



- Menu Options
  - This screen acts as the hub for the user to view the Login Details, along with the Warehouse in which current work is carried out
  - Also, this screen lists the various activities that the user has the access rights to perform in this mobile application. The access rights definition is similar to the one available for the access control in the desktop application.

Exhibit 3: Identifies the **Menu Options** screen



General Screens

WarehouseAnywhere application simplifies the lives of the Warehouse Clerk by two means in the name of the following two powerful screens.

- Smart Actions
- To Do List

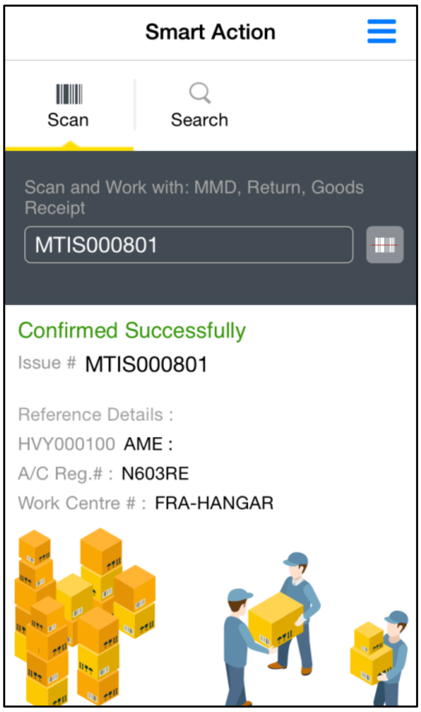
Smart Actions Screen

Smart Actions, as the name indicates, is a screen that is really smart to enable the User to work across all the transactions supported in the application. This screen facilitates the user to work by two means.

- Smart Scan
  - This is a facility through which a simple Bar Code scan can do all the work for the user.
  - As of now, the following tasks can be accomplished using this Smart Scan provision
    - Confirmation of Stock Issue
      - Scan the Smart Scan Barcode available in the MMD Report

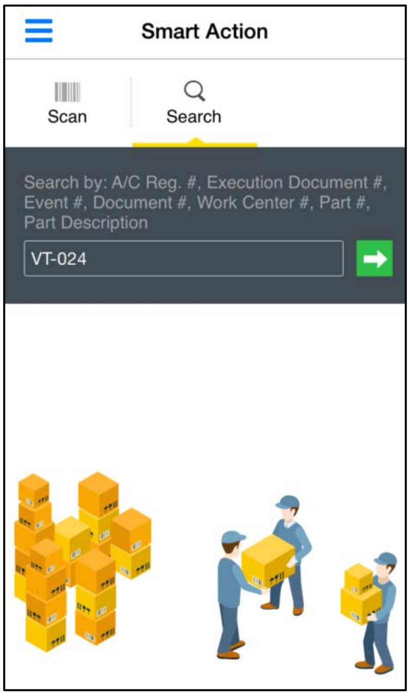
- Confirmation of Stock Return
    - Scan the Smart Scan Barcode available in the MMD Report/Return document report

Exhibit 4: Identifies the **Smart Scan** provision



- Smart Search
    - This is a facility that can retrieve the be used to retrieve all the documents supported in the application by means of the following common search filters
        - Document #
        - A/C Reg. #
        - Execution Document # (Ref. Document #)
        - Part #
        - Part Description
    - Tap the record obtained in the Search Results to go to the respective transactions detailed view screen

Exhibit 5: Identifies **the Smart Search** provision



To Do List Screen:

To Do List is a screen which categorizes the pending transactions for a Warehouse Clerk, so that those transactions could be worked upon immediately and closed. The categories vary from transaction to transaction.

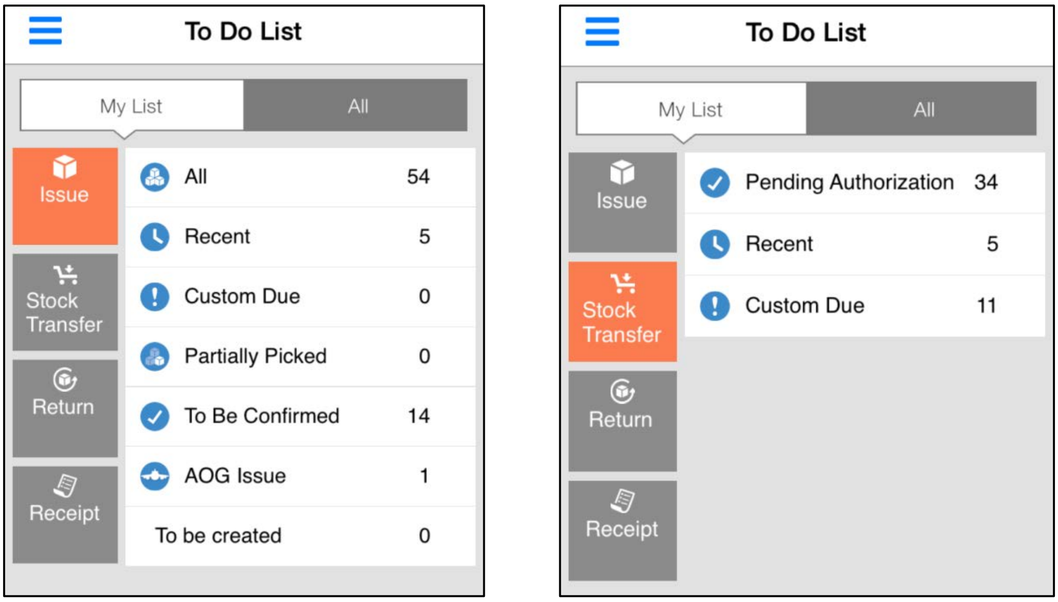
Apart from the categories for the transactions, this screen also segregates the documents in which the Login user has last worked from the other documents that are open in the Warehouse, so that the work initiated by the Login user takes more precedence.

The click of any record in the To Do List will provide the breakup for the count displayed in that record by landing the user in the List screen for the selected transaction.

For Stock Issues, the categories in **To Do List** are as follows.

- To be Created - Lists the Reference documents against which Issue creation is pending
- Partially Picked – Lists the Issue documents against which Picking has been initiated, but not completed
- To be Confirmed – Lists the Issue documents which are ready for Confirmation
- AOG Issues – Lists the Issue documents for whom the demand is having AOG priority
- Recent – Lists the last 5 Issue documents
- Custom Due – Lists the Issue documents that are due in the coming 5 days
- All – All the Open Issue documents

Exhibit 6: Identifies the **To Do List** for Stock Issue and Stock Transfers



For Stock Transfers, the categories in To Do List are as follows.

- Pending Authorization - Lists the Stock Transfer documents in Fresh status
- Recent – Lists the last 5 Transfer documents
- Custom Due – Lists the Transfer documents that are due in the coming 5 days

Note:

- *Count displayed is based on the Warehouse mapped to the User*
- *The value for arriving at the count of Recent Issues and Custom Due issues are available as Back end options for the mobile application settings*

Process Specific Screens

Apart from the above mentioned screens, there are many other screens with to address the processes supported in the WarehouseAnywhere application, which were listed earlier. The following is the list of the screens available for each of the processes.

- Stock Issue
  - Create Direct Issue
  - Create Issue
  - Issue List
  - Issue Details
  - Edit Issue Details

- Stock Transfer
  - Create Stock Transfer
  - Transfers List
  - Stock Transfer Details
  - Edit Transfer Details
  - Edit Location Details
- Inquiry
  - Stock Inquiry
  - Storage Inquiry
  - Part List
  - Part Details
  - Part Name Plate
- Common Screens
  - Add Parts
  - Edit Part Details
  - Edit Serial/Lot Details

Note:

- *Screens mentioned under Common screens are applicable for both Stock Issue and Stock Transfer processes.*
- *These screens offer the common capabilities of identification of the Parts for the document, modifying the Part level information and modifying the Serial/Lot level information respectively.*

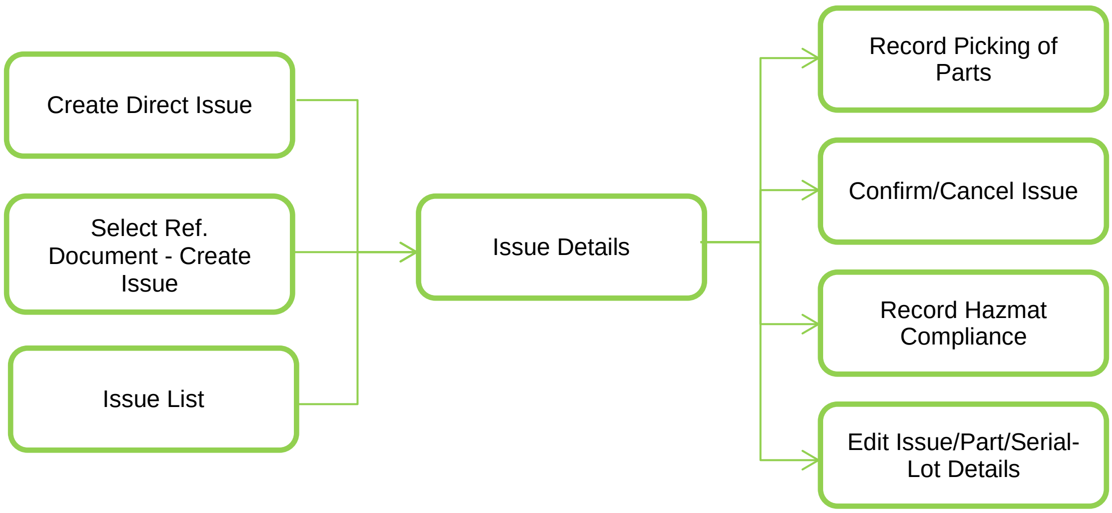
Stock Issue Screens

Stock Issue is the process through which the Stock available in Inventory is issued out to the requestor. Stock Issues in Ramco M&E application can be broadly classified as

- Reference Document based Issues – Issue documents raised with respect to a Reference document, which could be Material Request, Exchange/PBH Purchase Order or a Stock Transfer.
- Direct/Unplanned Issues – Issue documents created without any Ref. Document.

WarehouseAnywhere application supports management of both these issues. Repair Order Issue and Loan/Rental Issue will be handled in the upcoming releases of the mobile application.

The following describes the way the screen flow is laid out for the Stock Issue management.



Create Direct Issue

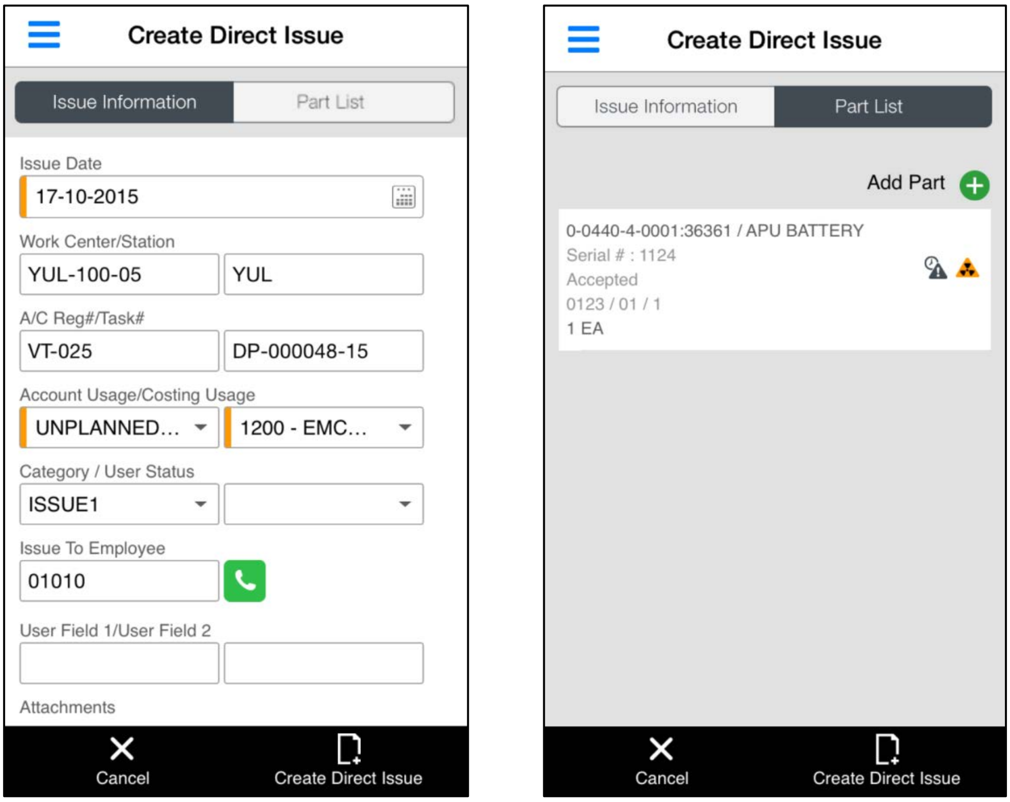
Create Direct Issue is the screen which can be used to record a Direct Issue in the mobile application. This screen has the following tabs.

- Issue Information – Tab where the Header information of the Direct Issue like A/C Reg. #, Work Center #, Station, etc. can be filled.
- Parts List – Tab where the Parts that are to be issued can be added into the Issue document. The values displayed in a record in this tab are Part #, Part Description, Serial/Lot #, Stock Status, Qty, Shelf Life Part Indicator and Hazmat Part indicator.

Once the information is filled in both these tabs, click of 'Create Direct Issue' button in the bottom bar will create the Issue document and render the success message screen from where user can proceed to do any of the following activities.

- View the Issue Details
- Go to 'To Do List' or 'Issue List'

Exhibit 7: Identifies the **Create Direct Issue** screen



Create Issue

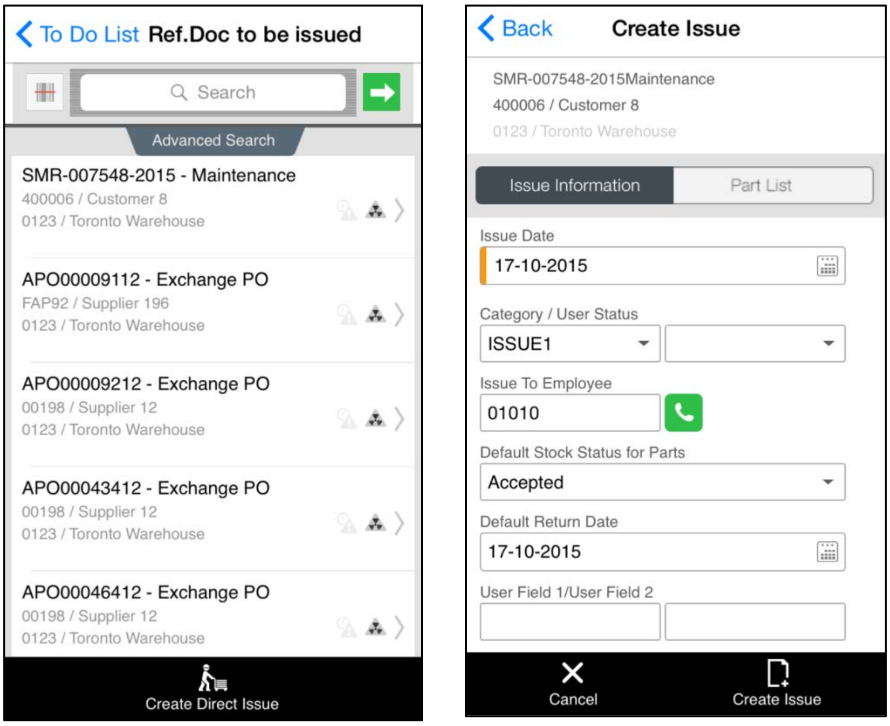
Create Issue activity helps the user in creating an Issue document against a selected Reference document. On selection of this activity, user will be first landed in the **'Ref. Document to be issued'** screen from where the reference document against which Issue is going to be created can be selected. On tap of the Ref. document, the user will be put up in the **'Create Issue'** screen, a screen similar to Create Direct Issue. The following are the main information presented in this screen.

- Details of the selected Reference document
- Issue Information tab – Issue Date, Default Stock Status for the Parts issued, Default Return Date for the Parts (applicable if any Returnable Part is available in the Issue)
- Parts List tab – Information of the Parts available in the Ref. Document selected like Part #, Part Description, Requested Stock Status, Shelf Life/Hazmat Indicator

Once the information is filled in both these tabs, click of 'Create Issue' button in the bottom bar will create the Issue document and render the success message screen from where user can proceed to do any of the following activities.

- View the Issue Details
- Go to 'To Do List' or 'Issue List'

Exhibit 8: Identifies the **Ref. Document to be Issued** and **Create Issue** screens



Note:

- *Click of Cancel button in the bottom bar of **'Create Issue'** and **'Create Direct Issue'** screen, will land the user in the previous screen.*
- *The other way of landing in the 'Ref. Document to be Issued' screen is by selection of the category 'To be Created' from the '**To Do List'** screen.*
- *The other way of landing in the 'Create Direct Issue' screen is to select the option 'Create Direct Issue' available in the bottom bar of the 'Ref. Document to be issued' screen.*

Issue List

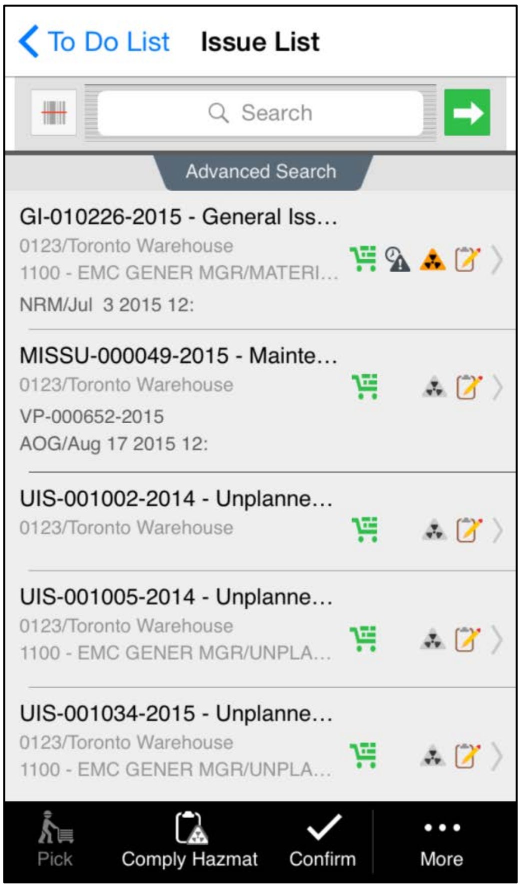
Issue List activity helps the Warehouse Clerk to retrieve all the Issue documents and perform the necessary action on the document. This screen can also be launched by selection of a category in the To Do List for Stock Issues. The screen has the following sections.

- Search/Advanced Search Section
  - The search bar available supports the search by the Issue # and the Part #
  - In case, Issue document needs to be retrieved based on additional Search filters, Advanced Search filters can be used which includes fields like 'Issue Type', 'Issue Status', 'Issue Date', 'Trading Partner', etc.

- o The Advanced Search filter, if applied will be displayed over the Issues List

- Issues List
  - o Issues List is the section in which the Issue documents pertaining to the search criteria are displayed. The information displayed includes Issue #, Issue Type, A/C Reg. #, Ref. Document #, Trading Partner Name, Priority, Issue Date, Account Usage and Costing Usage values are displayed, along with the indicators for Picking of Parts, Hazmat Parts, Shelf Life Parts and Issue status are displayed.
  - o This multiline also helps the Warehouse Clerk in performing some operations in the Issue document like Recording Hazmat Compliance, Recording Picking of Parts, Confirming the Issue, Cancelling the Issue and modifying the basic information of the Issue document.

Exhibit 9: Identifies the **Issue List** screen



Note:

- *It is note that only the applicable information for a given document gets displayed in the multiline*
- *It is possible to record picking of parts/updation of Hazmat Compliance/Confirmation/Cancellation of multiple issues at one go by using the actions available in the bottom bar.*

- *Only the actions for which the user has access shall be displayed in the multiline actions / enabled in the bottom bar actions for the user.*

Issue Details

Issue Details can be said as the heart of the Stock Issue process in the WarehouseAnywhere application. This screen provides the Warehouse Clerk a complete view on the details of an Issue document. This screen also provides the Warehouse Clerk to act upon the Issue document and perform the tasks of updating Picking, Hazmat Compliance, Confirmation, Cancellation and Modification of the Issue document. The following are the sections available in this screen.

- Issue Information – This is the section which displays the basic information of the Issue document like Issue #, Issue Type, Trading Partner Name, Account/Costing Usage, Issue Date, Priority, Ref. Document #, Ref. Document Type and A/C Reg. #. The information displayed varies with respect to the Issue Type and the availability of the information for that Issue document
- Part View Tab – This tab displays the information of the Parts in the Issue document. This displays the Part #, Part Description, Issued Qty for the Part, Stock Status and indicators for picking status, identification of Hazmat Part and Shelf Life Part.
- Detail View Tab – This tab displays the detailed information of the Parts issued including the Serial/Lot #, Condition, Trading Partner Name, in addition to the information displayed in the Part View tab.

Exhibit 10: Identifies the **Issue Details** screen

The possible actions in this screen can be classified into two types.

- Line Level Actions – The actions that are possible by right swipe of the multiline available in the Part View and Detailed View tabs. The available actions through swipe include Picking, modification of the details and recording hazmat compliance.
- Document Level Actions – These actions include the Modification of Issue details (available in the Issue Details section), Confirmation the Issue (available in the Bottom Bar), Cancelling the Issue (available in the Bottom Bar)

Picking of Parts:

- Picking of Parts against the issue is a new capability introduced in the mobile application. As of now, Picking is mandatory before confirming the Issue document. However, Picking will be made configurable in the upcoming releases.

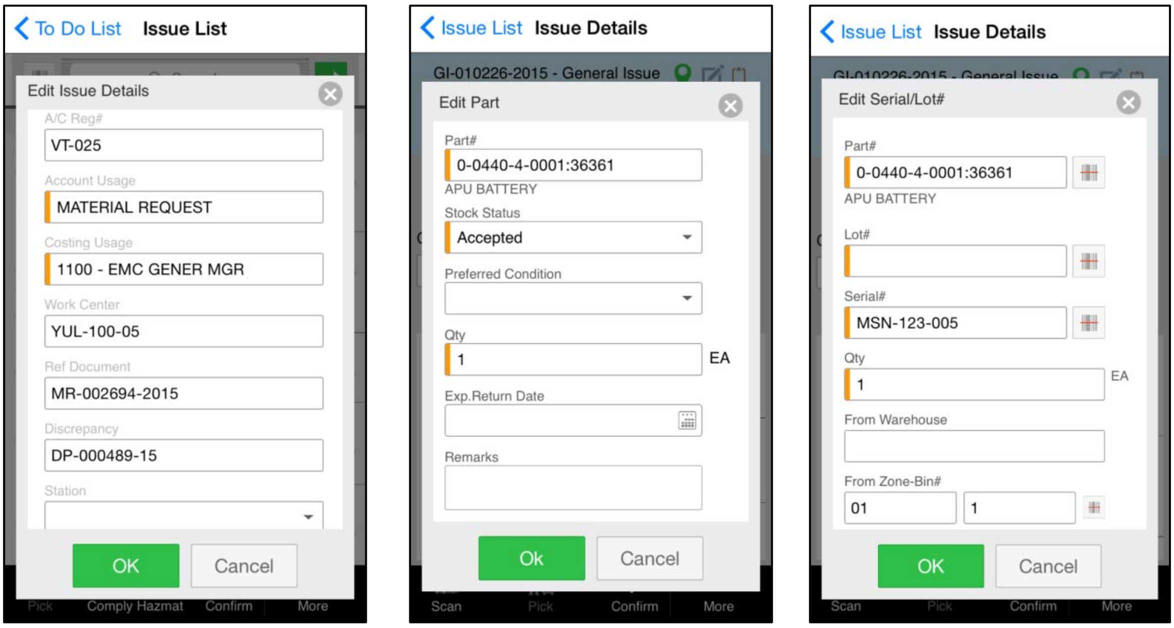
Modification Screens

These are the screens that offer the provision to modify the information pertaining to an Issue document. The modification is available at three levels, Document, Part and Serial/Lot level modifications in the following screens respectively.

- Edit Issue Details
- Edit Part Details
- Edit Serial/Lot Details

All the modifications supported in the desktop application will also be supported in the mobile application.

Exhibit 11: Identifies the screens for modification of the issue document

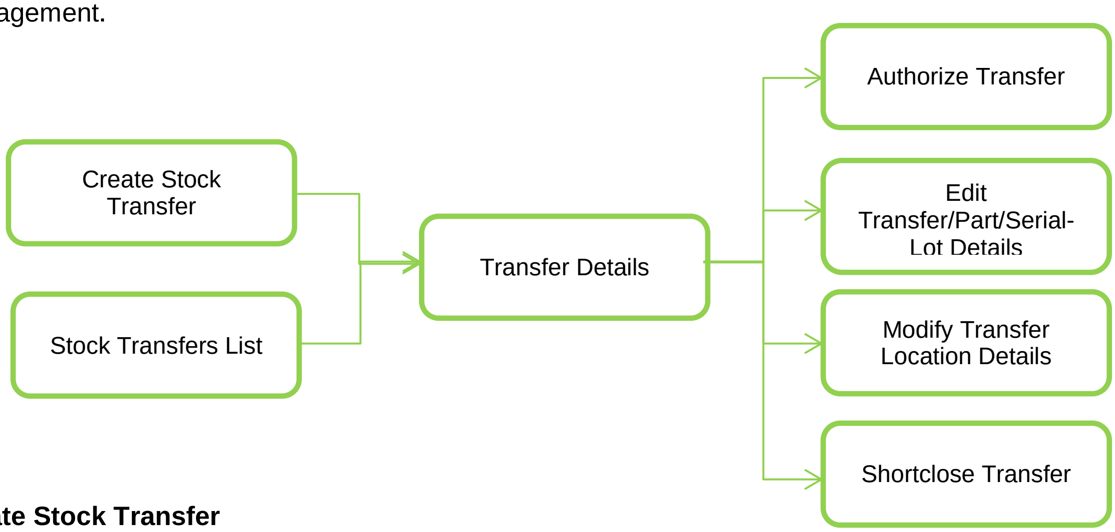


Stock Transfer Screens

Stock Transfer is the process through which the Stock available in Inventory transferred to some other location. Stock Transfers in Ramco M&E application can be broadly classified as

- Intra Warehouse Stock Transfer – Stock Transfer document to record transfer of Stock within a Warehouse.
- Inter Warehouse Stock Transfer – Stock Transfer document to record transfer of Stock across Warehouses. This document acts as the reference to the Stock Transfer Issue that happens from the Warehouse from where the Parts are transferred, which in turn acts as the reference document for the Stock Transfer Receipt recorded in the Recipient Warehouse.

The following describes the way the screen flow is laid out for the Stock Transfer management.



Create Stock Transfer

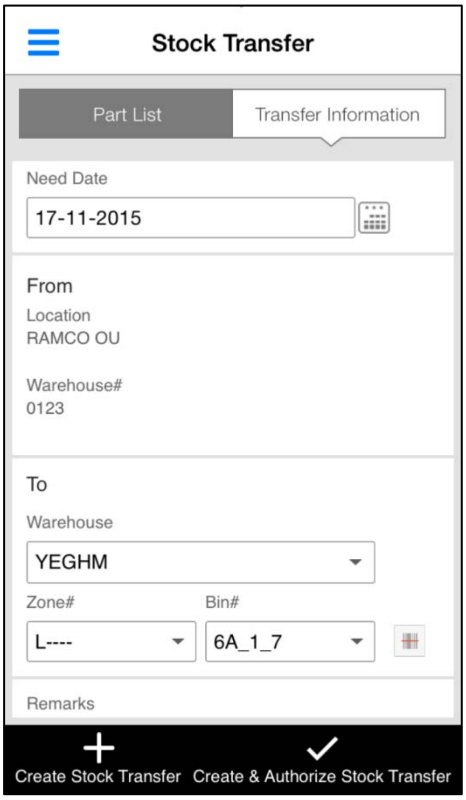
Create Stock Transfer is the screen that is used to create a Stock Transfer document. This screen caters creation of both Inter and Intra Warehouse Stock Transfers. This screen takes in information in the following sections.

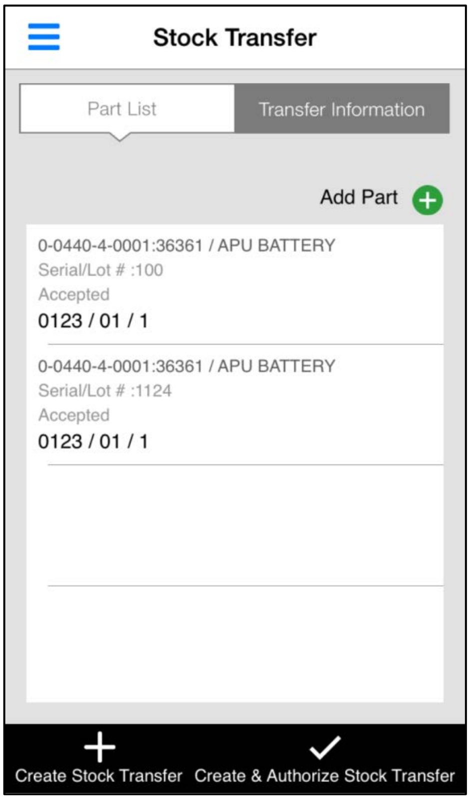
- Transfer Information tab – This tab is used to record the basic information for the Stock Transfer document like Transfer Date, Need Date, Transfer To Location, Transfer Category, User Status, etc.
- Parts List tab – This tab is used to add Parts into the Transfer document. The values displayed in a record in this tab are Part #, Part Description, Serial/Lot #, Stock Status, Qty, Shelf Life Part Indicator and Hazmat Part indicator.

Once the information is filled in these tabs, the Stock Transfer document could be simply created or created and authorized at one go, by using the buttons below. After creation, user can navigate to:

- Transfer Details / To Do List / Transfer List

Exhibit 12: Identifies the **Create Stock Transfer** screen



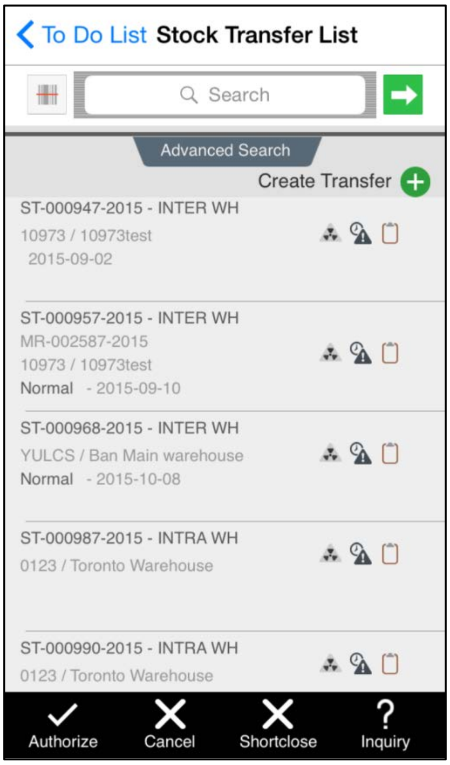


Transfers List

Transfers List activity helps the Warehouse Clerk to retrieve all the Transfer documents and perform the necessary action on the document. This screen can also be launched by selection of a category in the To Do List for Stock Transfers. The screen has the following sections.

- Search/Advanced Search Section
  - The search bar available supports the search by the Transfer # and the Part #
  - In case, Issue document needs to be retrieved based on additional Search filters, Advanced Search filters can be used which includes fields like 'Transfer Status', 'Transfer Date', 'Trading Partner', etc.
- Transfers List
  - Transfers List is the section in which the Transfer documents pertaining to the search criteria are displayed. The information displayed includes Transfer #, Transfer Type, Trading Partner Name, Priority and Transfer Date values are displayed, along with the indicators for Hazmat Parts, Shelf Life Parts and Transfer status are displayed.
  - This multiline also helps the Warehouse Clerk in performing some operations in the Stock Transfer document like Authorization, Cancellation and Short Closure.

Exhibit 13: Identifies the **Stock Transfer List** screen



Note:

- *It is note that only the applicable information for a given document gets displayed in the multiline.*
- *It is possible to authorize, cancel or Shortclose multiple Stock Transfer documents at one go by using the actions available in the bottom bar.*

Stock Transfer Details

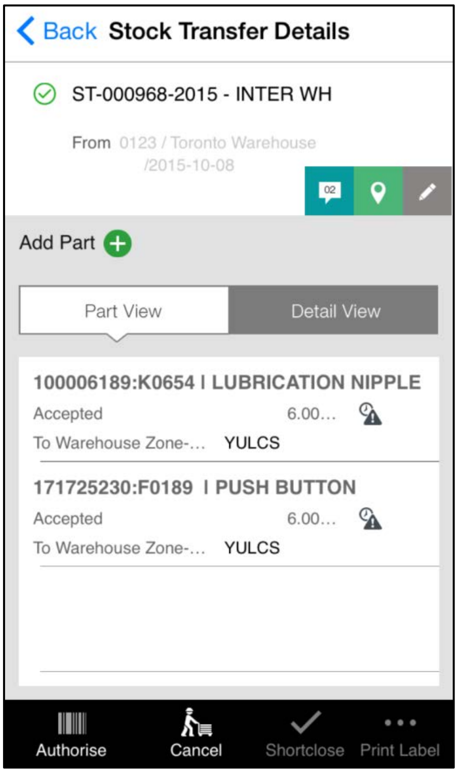
Stock Transfer Details is the central screen for the Stock Transfer process in the WarehouseAnywhere application. This screen provides a visibility of all the information of the Stock Transfer document under the following sections.

- Stock Transfer Details
  - This is the header section which displays the basic information of the Stock Transfer document like the Transfer #, Transfer Type, Transfer Date, Priority, etc.
  - This section holds the task to edit the basic information for a Stock Transfer document
- Part View Tab
  - This is the Tab which provides the summary of the information of the Parts transferred

  - The information displayed in this multiline are Part #, Part Description, Transfer Qty, Stock Status, Shelf Life and Hazmat Part indicator
  - Along with the summary of information provided, it hosts the tasks applicable at Part level in a Stock Transfer document which includes modification of the Part details, addition of Storage Information (Serial/Lot #s to be transferred). modification of the Transfer To Location details and also a view on the Stock Inquiry

- Detailed View Tab
  - This tab offers the complete information of the Parts involved in the Stock Transfer document, including the Serial/Lot # transferred and Condition
  - This tab hosts the tasks for the modification of Serial/Lot details, Transfer to Location and a view on Stock Inquiry

Exhibit 14: Identifies the **Stock Transfer Details** screen



Note:

- *Apart from the swipe actions, there are other actions available in bottom bar to Authorize, Cancel or Shortclose the Stock Transfer. Also, there is a provision to add new Parts into the Stock Transfer document.*

Modification Screens

These are the screens that offer the provision to modify the information pertaining to a Stock Transfer document. The different modifications available in a Stock Transfer document are, Document, Transfer to Location, Part and Serial/Lot level details modifications and these modifications are supported in the following screens respectively.

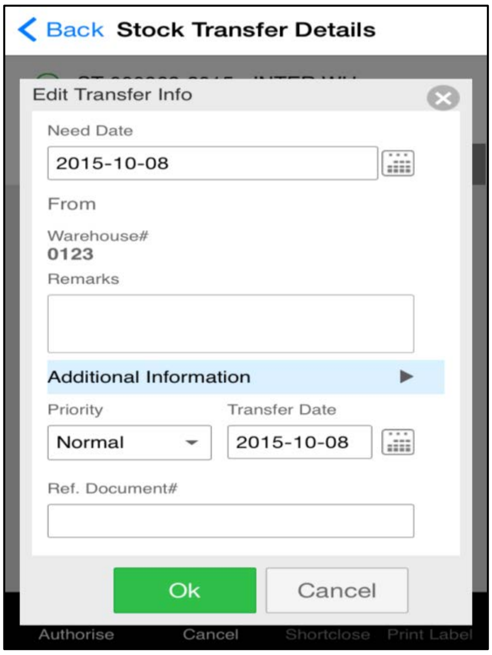
- Edit Transfer Details
- Edit To Location
- Edit Part Details
- Edit Serial/Lot Details

All the modifications supported in the desktop application will also be supported in the mobile application.

Note:

- *The Part and Serial/Lot details modification screen for a Stock Transfer document are the same as that available for the Issue document except that few issue specific fields like Exp. Return Date will not be visible in the screens for a Stock Transfer document.*

Exhibit 15: Identifies the screens for modification for the **Stock Transfer** document



Stock Inquiry Screens

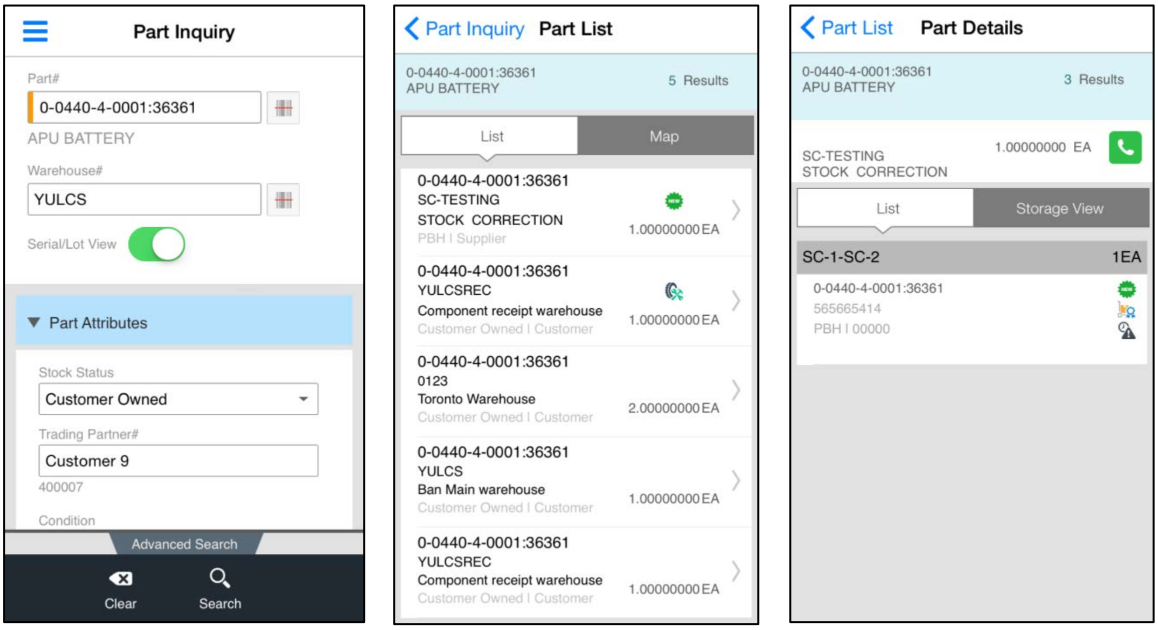
A provision to view the Stock available in inventory is a must require functionality in any Inventory Management software. WarehouseAnywhere provides this function in two forms which can be used by different roles.

Stock Inquiry

- Activity which can be used by any person who wants to view the stock availability for a given Part.
- In addition to the Part #, user can make the inquiry with other attributes available in the 'Advanced Search' section like Trading Partner, Stock Status, Warehouse, Storage Location, Condition, etc.

- There are some special consideration given to retrieve the Parts by the following filters, which are self-explanatory
  - o Include Alternate Parts
  - o Include Quantity in Kit
  - o Exclude Expired Parts
- After providing the necessary inputs, click of Search button in the bottom bar will retrieve the Parts specific to the Search criteria by launching the Part List screen
  - o If the Serial/Lot View is selected, Warehouse # entry becomes mandatory and the user will be landed in Part Details screen directly instead of Part List screen

Exhibit 16: Identifies the **Stock Inquiry** screens



- **Part List**
  - o This screen displays the count of the Part available across Warehouses in the given organization
  - o The Quantity of the Part displayed in this screen is at the Part – Warehouse - Stock Status – Condition level
  - o The information displayed in the multiline of this screen are Part #, Warehouse #, Warehouse Description, Stock Status, Ownership and Quantity of the Parts along with the indicators for Ownership and Alternate Part.
  - o On tap of any record in this multiline will launch the Part Details screen.
  - o There is a Map View provided in the Part List screen which can display the Warehouses in a geographical map, thereby providing an

understanding of the distance within which the Part is available in the nearly location (i.e.) other Warehouses.

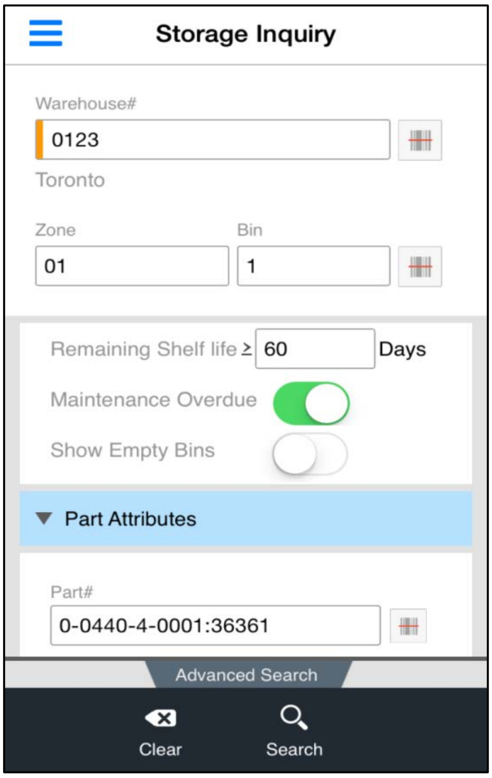
- **Part Details**
  - This screen displays the Serial/Lot level information for the Part-Warehouse-Stock Status-Condition combination selected from the Part List screen
  - This screen can also be launched directly from the Part Inquiry screen by using the Serial/Lot view search filter
  - The information displayed in the header of this screen is the Part-Warehouse details of the selected or searched value
  - The information displayed in the multiline of this screen are Serial/Lot #, Mfr. Serial/Lot #, Stock Status, Trading Partner # and indicators for Hazmat Part, Shelf Life Part and Ownership of the Part-Serial/Lot #.
  - The information displayed is grouped by the Zone-Bin # of the Warehouse
  - Further details of the record can be viewed by using the swipe action 'View Part Name Plate'

Storage Inquiry

Storage Inquiry is much similar to the Stock Inquiry function except that this function is more focused on the Stock availability in a given Warehouse, unlike the Stock available for a Part as in Stock Inquiry. The screen has the following capabilities.

- Search by Warehouse #, Zone # and Bin #, along with Advanced Search filters like Part #, Stock Status, Condition
- As already said that Storage Inquiry is more focused on Warehouse, there are search filters which can retrieve exceptional stocking in the Warehouse such as
  - Empty Bins
  - Stocked Maintenance Overdue Items
- Once the search criteria are entered, click of Search button in bottom bar will launch the Zone-Bin View screen where the Zone-Bin level summary of Stock can be viewed.

Exhibit 17: Identifies the **Storage Inquiry** screens



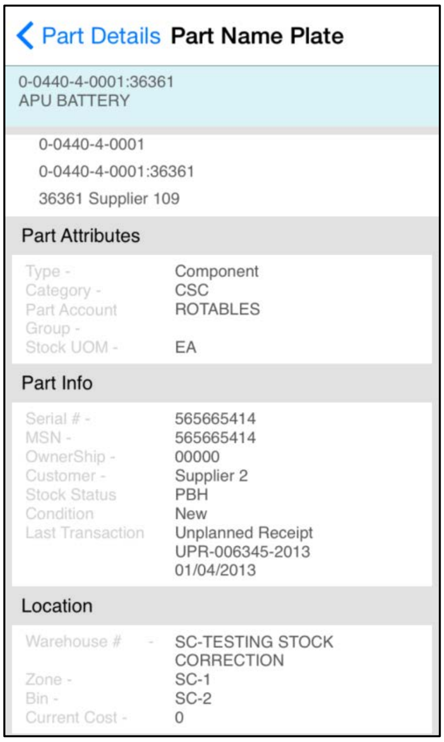
Zone Bin View

- This is a screen which is used to list down the Zone-Bins available in the Warehouse selected.
- Along with the list there are indicators for identifying the Ownership of the Parts available in that Zone, Hazmat Parts and Shelf Life Parts indicator
- On tap of any record will launch the Parts List screen displaying the Parts available in that Zone-Bin and subsequently landing in the Part Details screen which displays the Serial/Lot details for the selected Part.

- **Part Name Plate**
  - This is a screen which can be launched from Part Details screen by selecting a particular Part-Serial/Lot # combination.
  - This screen displays all the information for the selected record which can be categorized as
    - Part Attributes – Basic attributes of the Part selected like Part Type, Category, Part Account Group and Stock UOM
    - Part Info – Stock attributes like Stock Status, Condition, Mfr. Serial/Lot #, Internal Serial/Lot #, Trading Partner information, Source document details

- Location Info – Current location (i.e.) Warehouse-Zone-Bin where the Part is available
- Maintenance Info – Component #, Parameter Value, Next Due value and Expiry Date

Exhibit 18: Identifies the **Part Name Plate** screen



Points to Note

- Call capability, collaborate and the document attachment capability is not supported
- Provision to create Loan/Rental/Repair Order issues is not supported
- Barcode Label printing
    - Warehouse Label
        - In order for the Warehouse label scan to work, the label should be printed in the following format
        - Warehouse # : ATL-LN-SER
        - Barcoded text : W001ATL-LN-SER
    - Zone-Bin Label
        - In order for the Zone-Bin label scan to work, the label should be printed in the following format
        - Normal Zone
            - Zone # : ZN-01

        - Bin # : BN-01
        - Barcoded text : W002ZN-01||BN-01
    - Free Zone
        - Zone # : ZN-02
        - Barcoded text : W002ZN-02
- Part Barcode Label
    - In order for the Part-Serial/Lot scan to work, the label should be printed in the following format
        - Serial/Lot Controlled Part
            - Part # : 01-015-A
            - Serial/Lot # : SL-000140-15
            - Barcoded text : P00101-015-A||SL-000140-15
        - None Controlled Part
            - Part # : 01-015-C
            - Barcoded text :P00101-015-C

WHAT'S NEW IN ROUTE ANYWHERE APPLICATION?

ABILITY TO RECORD MOVEMENT OF PARTS

Reference: AHBF-11859

Background

Material movement is unavoidable for any work to happen in an organization. If this activity is not properly tracked, there is a high possibility that the materials get misplaced/lost, thereby leading to inaccurate reporting on material availability. This may affect the entire organization's efficiency by leading to surplus order placements, etc.

Thus, a solution to track the Material movement effectively within an organization will be a boon. But, the boon will become a pain, if the solution provided for tracking Material Movement is tedious.

Hence, to accurately track the Material movement in the simplest way, Ramco offers the Mobile Application **RouteAnywhere**.

This RouteAnywhere application, available for iOS users will ease the Material movement by assisting them by playing the role of the documents helping Part movement like Material Movement Document (MMD), Return Document, Routing Slip, Job Card, etc. This application will be handy for the users responsible for Part Movement who are addressed by various names in Aviation industry like Milk Men, Runner for Parts, Striders, Water Spiders, etc. This RouteAnywhere will be useful in environments wherein separate person is identified just for movement of Parts.

This RouteAnywhere application is not a standalone application (i.e.) User cannot create a Part Movement from this application. Instead, it facilitates the recording the accomplishment of the Part Movement against the documents generated in the Ramco M&E desktop application.

Change Details

Any application is just a combination of multiple User Interfaces and RouteAnywhere is no exception to it. The RouteAnywhere application is nothing but the combination of the following User Interfaces, which help the user to view the details of the documents against which the Part Movement should be done and then record the Part movement.

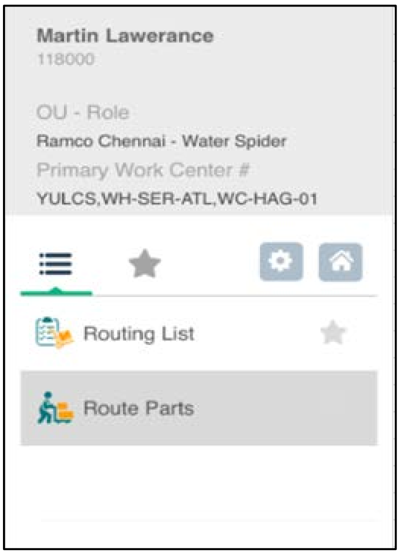
- Home Page
- Routing List
- Route Parts

Home Page

The **Home Page** will cater the following needs for any user.

- Helps to view the Context Role/Organization Unit in which the user has logged in.
- Helps to view the boundary of operation (i.e.) Warehouses/Work Centers for which the given user has access rights for movement of Parts.
- Helps to configure the application settings for the Login User.
- Helps as a hub from where navigation to different screens in the application is possible.

Exhibit 1: Identifies the **Home page**



The **Settings** screen will help the User in configuring the following items.

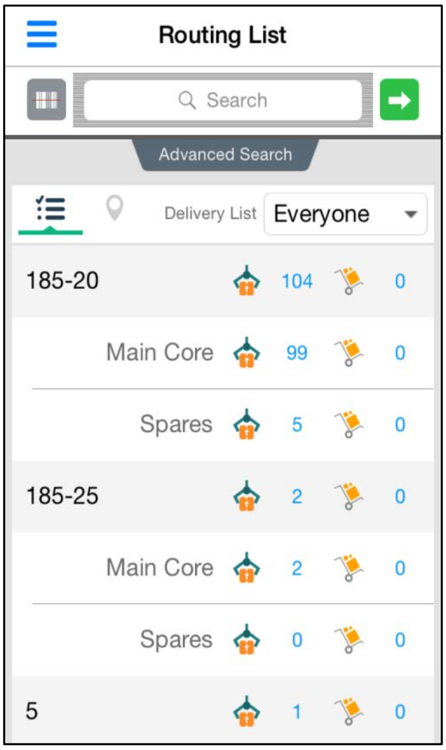
- Context Setting – The Organizational Unit and/or the Role in which the User needs to work
- Boundary of Operations (i.e.) Work Center/Warehouse from/to which the User can Route the Parts
- Default Login screen for the User to work
  - Routing List – Screen which serves the Work Center wise count of the documents against which Part Movement has to be done.
  - Route Parts – Screen which serves the function of recording the Movement of Parts using the RouteAnywhere application.

Routing List

The **Routing List** screen provides the view on the count of documents against which Routing of Parts has to be done Work Center wise, for the User. This screen has the following sections.

- Search Section
  - This section provides the capability to filter the documents pending for Routing.
  - There are two types of search possible, Basic Search and Advanced Search
  - Basic Search can be done with the fields Work Center #, Warehouse #, Part # and Reference Document #, whereas the Advanced Search can be done with the Date range for the Routing Instruction, From/To Location for Routing, etc.
- Routing List (Search Results)
  - This section lists the count of documents against which the Parts are to be routed (i.e.) either Picked or Dropped. The count displayed here accounts to the following.
    - Routing Instructions posted in the M&E Desktop application during the Intershop Routing. The Routing Instruction could be either for Routing a Part across Work Centers or Routing of a Part from Work Center to a Warehouse.
    - Routing Instruction posted in the M&E Desktop application during the routing of Parts from the Receiving Warehouse to Work Center
  - The details displayed in this section will be in two categories, Main Core and Spares. The Main Core is the term used to refer the Part in which Maintenance activity should be carried out. Spare Part is the term used to refer the parts that are used to support the Maintenance activity.
  - Selection of any record will launch the ‘Route Parts’ screen, wherein the Movement of Parts is recorded.

Exhibit 2: Identifies the Routing List screen



Note: There's also a Map view available for viewing the Routing List. In this view, the Work Centers/Warehouses will be displayed as Pins and click on them will show the count of documents pending for Routing.

Route Parts

The **Route Parts** screen is used to record the Picking of Parts against a document into the Cart and then delivering the Part in the place where it needs to be delivered. This screen has the following tabs to categorize the document based on the current location of the Parts with the Movement personnel.

- Pick List
  - This tab lists the documents against which Picking of Parts is pending in the Location selected.
  - The information displayed for a document will be the "Document #" against which Parts are to be moved, From Location and the To Location.
  - User can swipe the record and click 'Add to Cart' button to mark that the Picking of Parts is done against that document.
  - Bulk Picking can be recording using the action 'Add to Cart' available in the Bottom Pane.
- My Cart
  - This tab lists the documents that are Picked, but yet to be delivered from the Location selected

- Delivery of Parts can be recorded either at the document level or by bulk selection of documents

- Delivered
    - This tab lists the documents against which Parts are delivered in the Location selected.
    - Parts delivered can be reverted back to Cart, in case of wrong deliveries.

Exhibit 3: Identifies the **Route Parts** screen

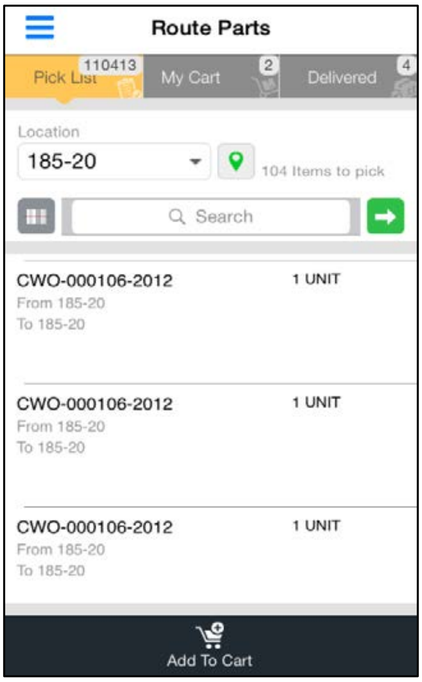
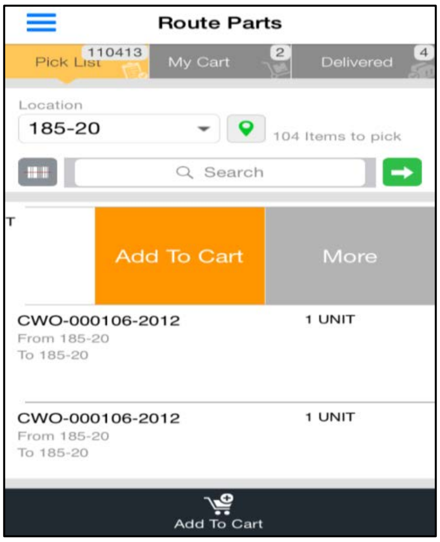


Exhibit 4: Identifies the Swipe Action (Add to Cart)

Exhibit 5: Identifies the **Delivered** tab in route parts page



Note: The Count displayed next to the title of the tab is the total count of documents to be acted in that tab across locations. In the 'Delivered' tab, the records can be filtered based on Delivered Date.

Note: Modification of the Warehouse or Work Center from where users can route parts is not supported.

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