

RAMCO AVIATION SOLUTION

ENHANCEMENT NOTIFICATION

Version 5.9.0

Moblity

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WHAT'S NEW IN MECHANICANYWHERE?

Ability to Associate and Split Work Order in MechanicAnywhere

Reference: APRP-1301

Background

Sometimes maintenance activity/repair to be executed can be same across multiple parts. These multiple parts then can be associated with a single Shop Work Order consisting of a Main Core and Associated Cores. Also, if the maintenance cannot be executed for a Shop Work Order with multiple cores, then split functionality is required wherein the Main Work Order can be split and Child Work Orders be generated for later execution.

This facility is available in Shop Work Order component in desktop and a similar provision is required in Shop Execution screen of MechanicAnywhere wherein Mechanics can easily associate cores to a Shop Work Order with multiple cores, Split as and when required and view the Split Cores along with its Child Work Orders generated.

Change Details

- A new screen **Manage Cores** is introduced which will be launched on tap of **Manage Cores** link in **Shop Execution** screen of **MechanicAnywhere**.
- **Manage Cores** screen is structured as follows:
 - A table layout for showing all the **Associated Cores Information**
 - '+' button to add new associate cores which will launch a new popup **Associate Main Core**.
 - **Update** button to update the added associate cores
 - **Split** icon to perform splitting of the associated cores which will launch a new popup **Split Main Core**.
 - **View Split Cores** link which will show the list of all the split cores along with the Child Work Orders generated for the parent work order along with its status.
 - **Legend** section in order to denote the Main Core and Associated Core

Manage Cores in Shop Execution

Associating Cores and Splitting Cores functionality can be performed in **MechanicAnywhere** from the **Manage Cores** link available in the **Shop Execution** screen. On tap of **Manage Cores** link from the Action Tray of Shop Execution, a new screen **Manage Cores** will be launched.



Note: Manage Cores screen can be launched only for a Shop Work Order with Job Type 'Piece Part' or 'Make' and Multiple Cores set as 'Yes'.

Associating Cores to Shop Work Order

Initially, for a Shop Work Order having no associated cores, 1st record shown in the Associated Cores Information will be draft version of the Main Core itself. User can modify the quantity of the Main Core, start adding Associated Cores from Associate Main Core popup which launches on tap of '+' button.

The records added from Associate Main Core popup will show in the Associated Cores Information section as a draft record allowing the users to verify if the summation of On WO Qty. is same as the Shop Work Order total Qty. Only if the summation of On WO Qty. is same as the Shop Work Order total Qty., then Update button can be tapped for associating the added cores to the main Shop Work Order. Once the records in the Associated Cores Information section are updated it will show in an updated version which shows that cores have been associated to the main Shop Work Order.

User can also swipe left in order to both Edit and/or Delete records. On tap of Edit, Modify Main Core popup will be launched which will let the user modify the associate cores. Delete capability is supported only for records in draft version. User will not be able to delete an updated associate cores same as available in desktop.

Icons for differentiating between Main Core and Associated Core are provided again each row in Associated Cores Information section. Legend section shown at the bottom of screen denotes the Main Core and Associated Core.

Splitting Cores from Shop Work Order

For the updated records in Associated Cores Information, a Split icon would be shown towards the end of each row which enables the user to Split that particular core from the main Shop Work Order. On tap of the Split icon, Split Main Core popup will be launched wherein user can either perform a full/partial splitting of the core. On performing a partial split, the quantity(s) which was not split will be still retained in the Associated Cores Information section and only the rest of the entered Split Qty. will be split. On performing a full split, the corresponding record will be removed from Associated Cores Information section. The Split Qty. entered will be reduced from the main Shop Work Order Qty.

View Split Cores in a Shop Work Order

If there are any cores split from a Shop Work Order, the same can be viewed using a link **View Split Cores** in the bottom of Manage Cores screen. If any Child Work Orders are generated during the splitting of cores, then the same can be viewed from **View Split Cores** popup. It shows both the Child Work Orders generated along with its current status which the user can use for tracking of the Child Work Orders.

Exhibit 1: Identifies the new Manage Cores link in Shop Execution

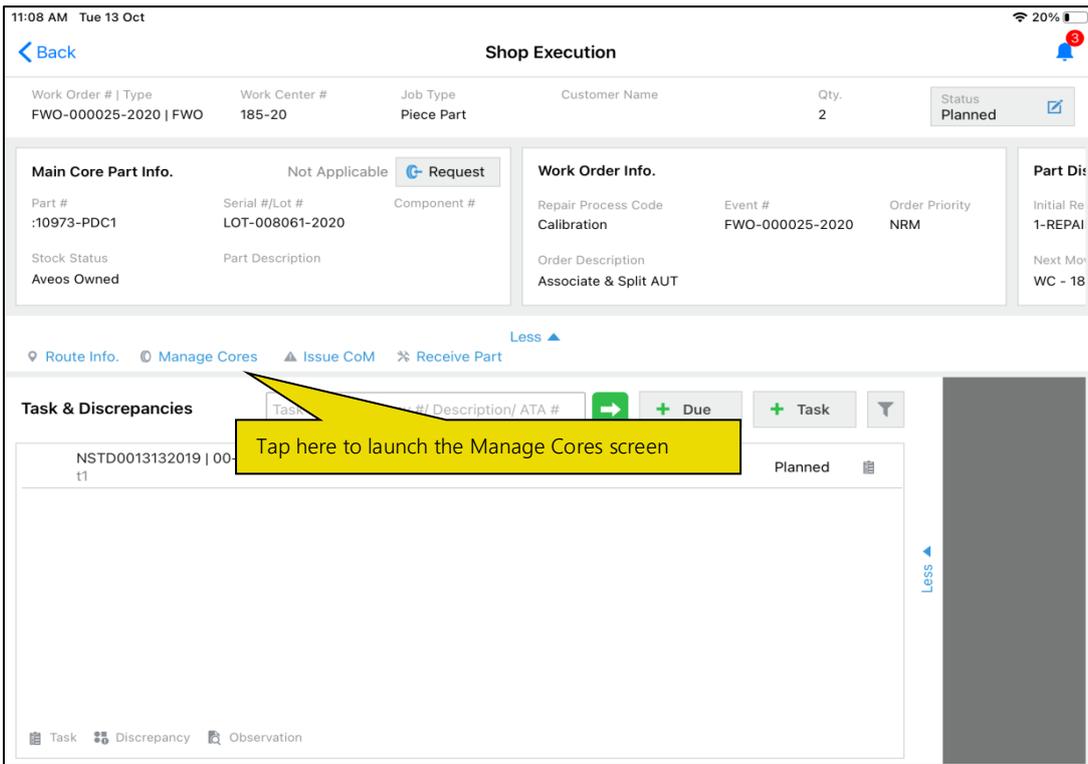


Exhibit 2: Identifies the new Manage Cores screen with Draft records

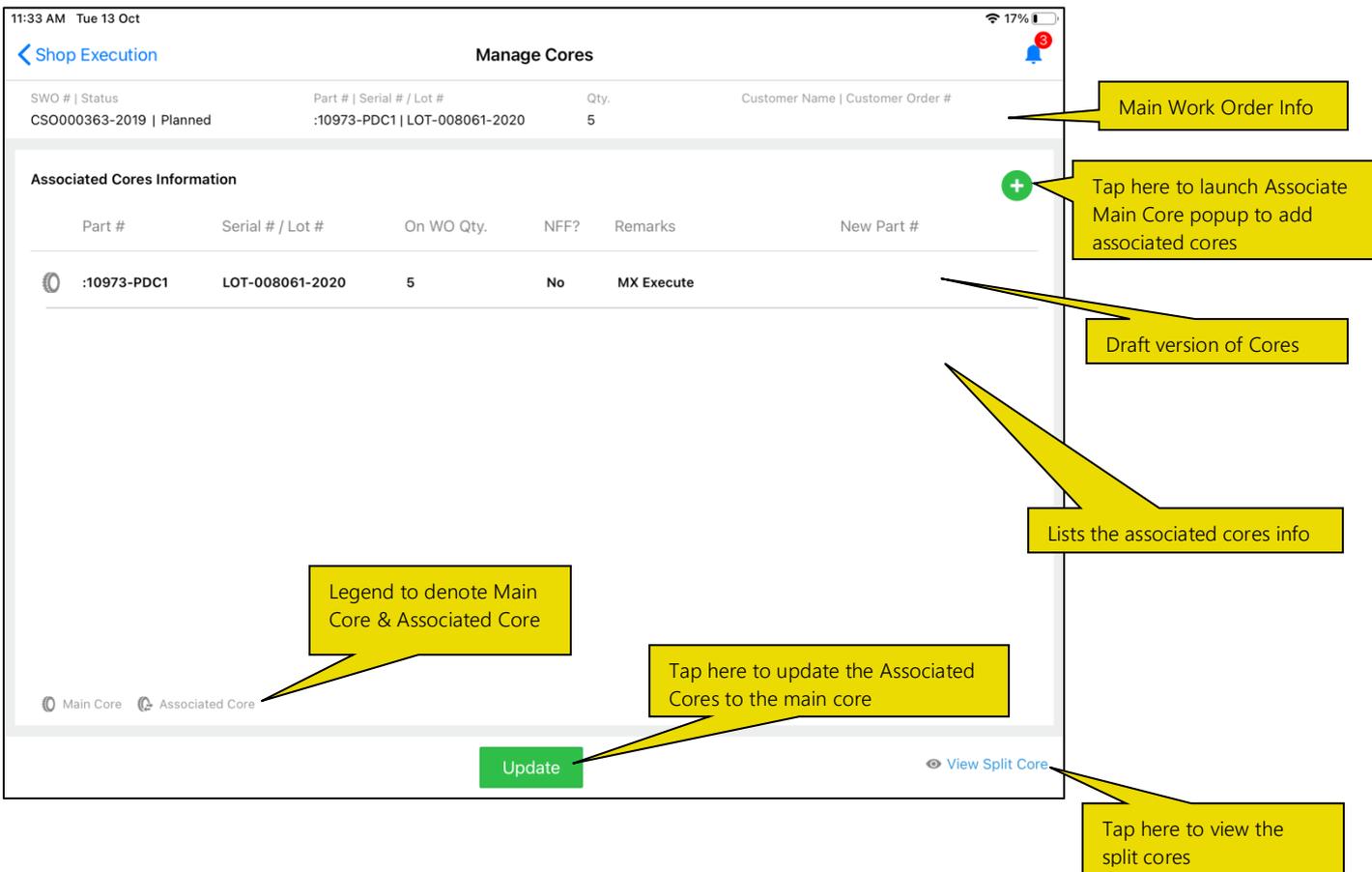
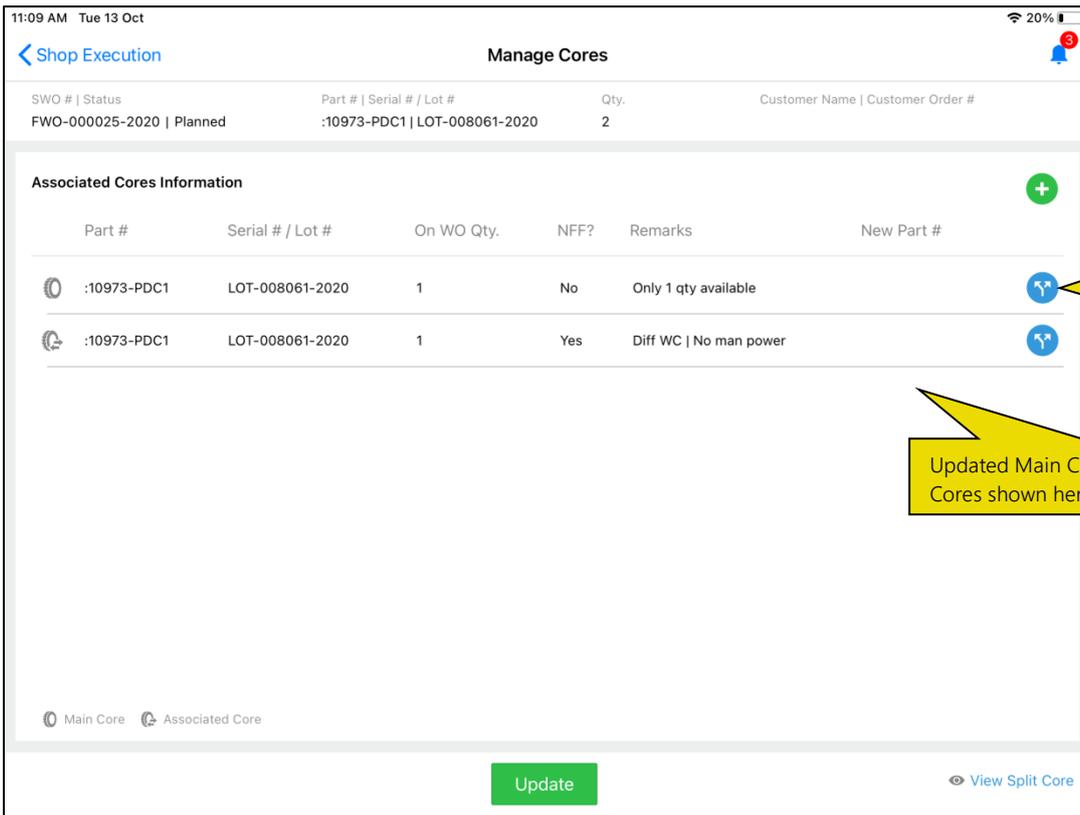


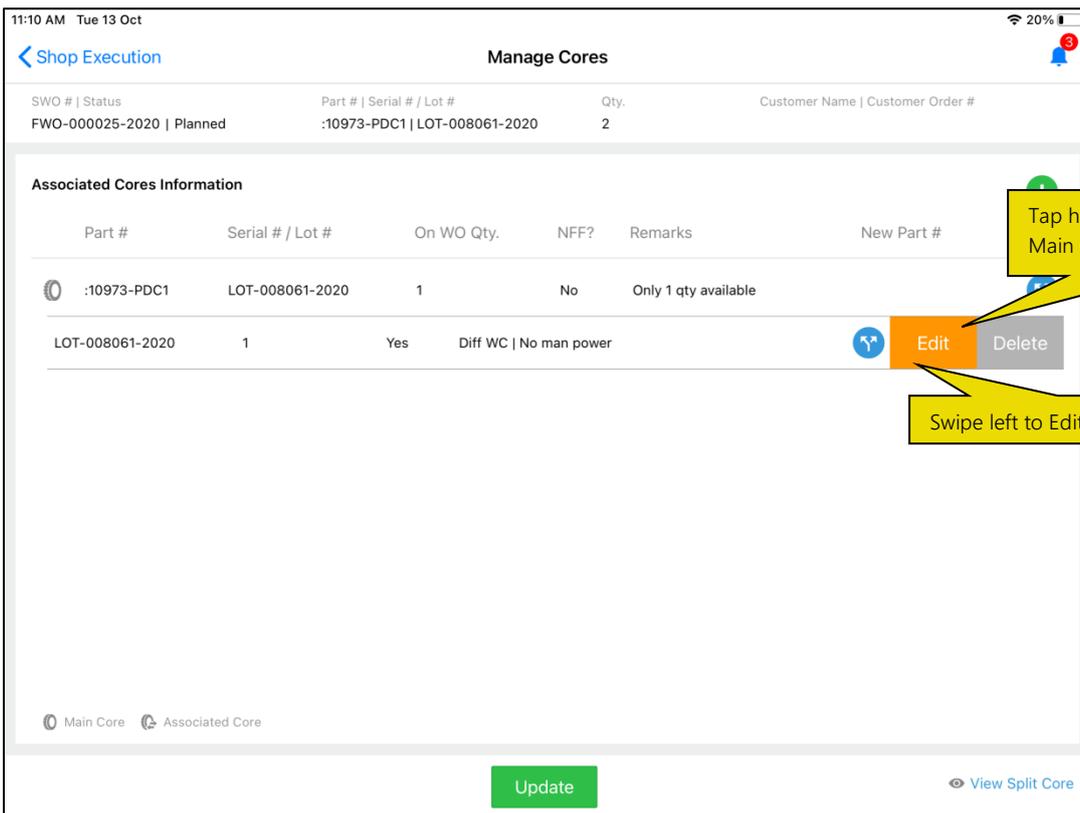
Exhibit 3: Identifies the new **Manage Cores** screen with Updated records



Tap here to launch Split Main Core to split the particular core from Main Core

Updated Main Core and Associated Cores shown here

Exhibit 4: Identifies the Edit/Delete functionality of **Manage Cores** screen



Tap here to launch the Modify Main Core popup

Swipe left to Edit/Delete a record

Exhibit 5: Identifies the new Associate Main Core popup of Manage Cores screen

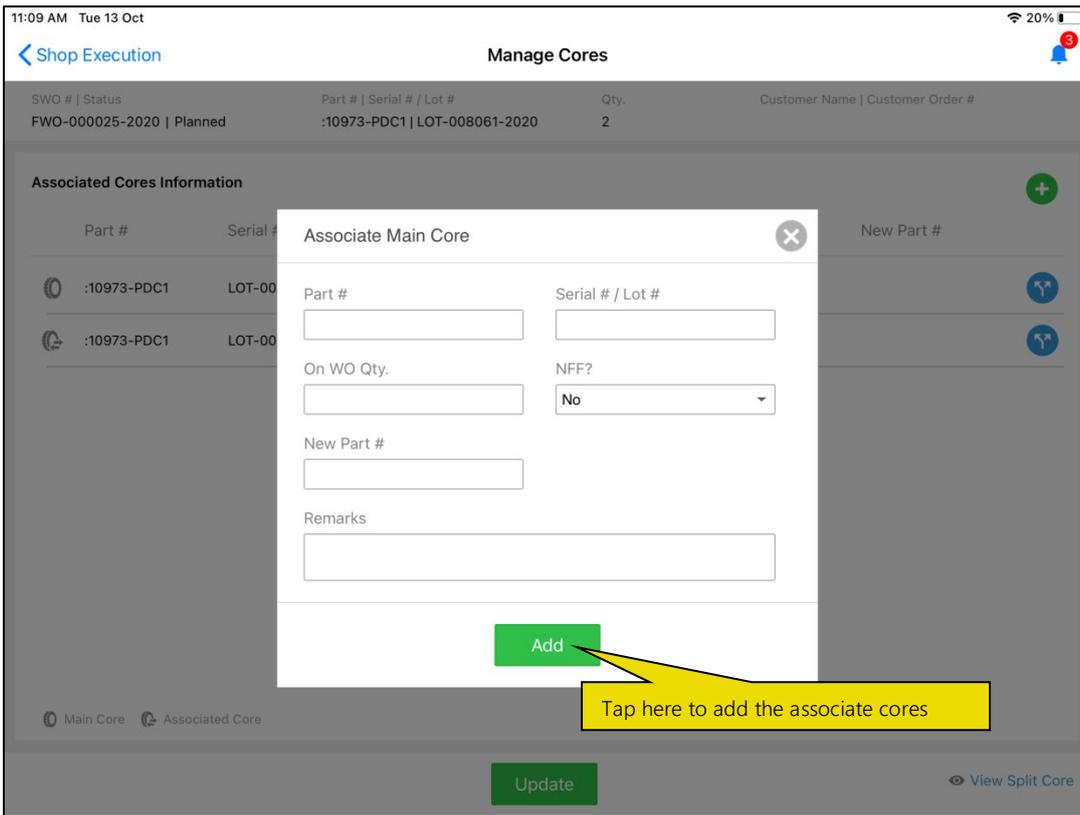


Exhibit 6: Identifies the new Modify Main Core popup of Manage Cores screen

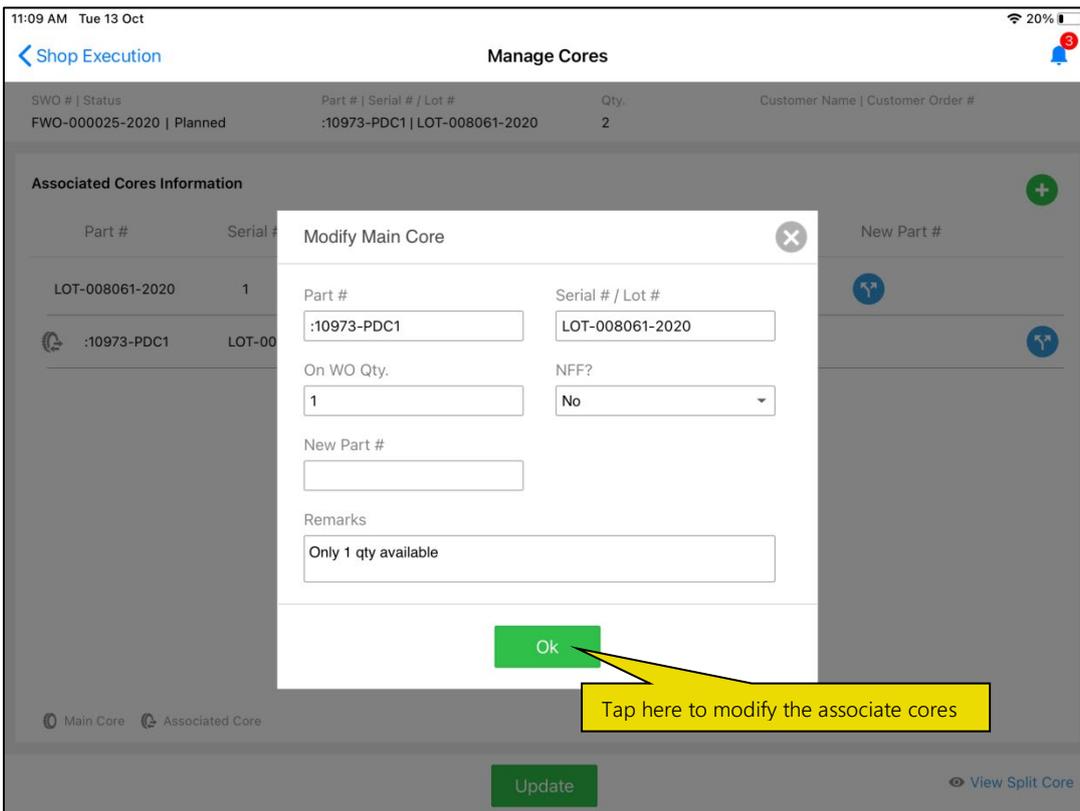


Exhibit 7: Identifies the new Split Main Core popup of Manage Cores screen

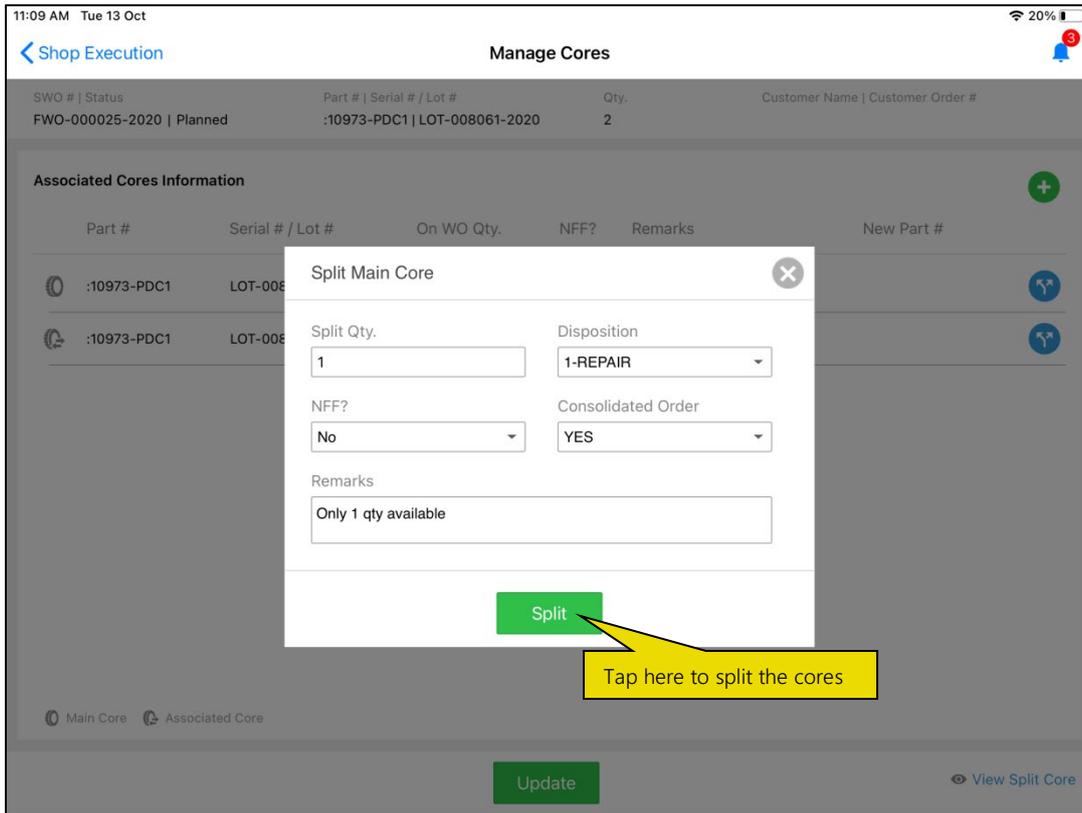
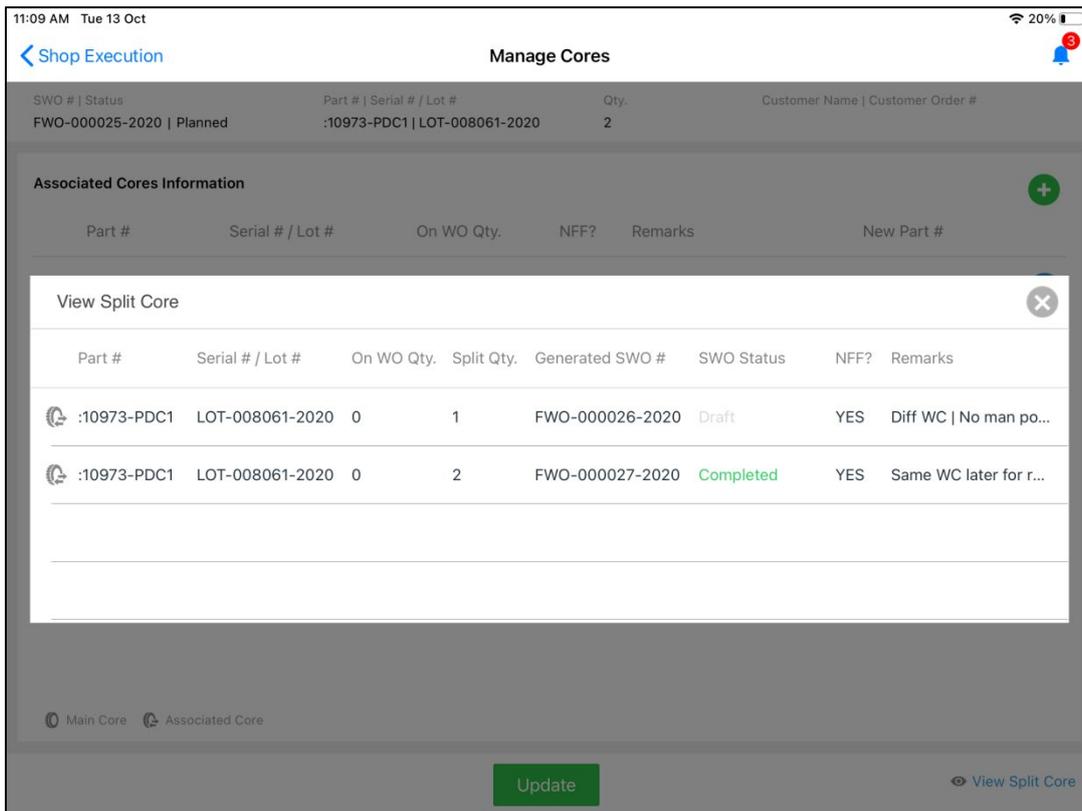


Exhibit 8: Identifies the new View Split Core popup of Manage Cores screen



Ability to generate CoM for Shop Work Order in MechanicAnywhere

Reference: APRP-1300

Background

After completion of a Shop Work Order execution, a certificate has to be issued to declare the airworthiness of new items or maintenance work undertaken on the Main Core. A Certificate of Maintenance (CoM) can be issued for a particular overhaul, repair, replacement, modification, mandatory inspection or scheduled maintenance inspection when the signatory is satisfied that the work has been properly carried out. CoM can be issued after all the tasks in the Shop Work Order are completed.

This facility is available in Shop Work Order component in desktop and a similar provision is required in Shop Execution screen of MechanicAnywhere.

Change Details

- A new screen **Issue Certificate of Maintenance** is introduced which will be launched on tap of Issue CoM link in **Shop Execution** screen of **MechanicAnywhere**.
- **Issue Certificate of Maintenance** screen will be launched based on different modes: Fresh/ Replace/ Approved CoM and is structured as follows:
 - Screen header shows the SWO # and Job Type of the respective SWO #.
 - **Shop Work Order Info:** shows the high level info of the referenced SWO # from **Shop Execution** screen.
 - **Certificate Info:** shows the information on the CoM # if generated earlier.
 - **Issue and Reference Details:** Shows all the relevant controls required to capture the issue and reference details along with toggles to determine the type of work done. Attachments section is also provided in order to capture any attachments done against a CoM #. Toggles turn ON/OFF will behave same as in desktop based on the applicable set options.
 - **Certificate Details:** Shows the details like Certifying Authority, Certifying Type and other relevant details required to issue CoM #. A list edit icon is provided to select multiple Certifying Authority(s).
 - **Record Statistics:** Shows the information regarding the Employee Name and Date & Time of the one who Created, Modified and Approved CoM #.
 - **Buttons:** Buttons like Create, Save, Approve, Cancel and Replace will be shown based on the context of Creating CoM, Modifying CoM, Approving CoM, Cancelling CoM or Replacing

CoM.

Issue Certificate of Maintenance in Shop Execution

Certificate of Maintenance for a Shop Work Order can be generated in MechanicAnywhere from the **Issue CoM** link available in the **Shop Execution** screen. On tap of Issue CoM link from the Action Tray of Shop Execution, a new screen **Issue Certificate of Maintenance** will be launched.



Note: Issue Certificate of Maintenance screen can be launched only for a Shop Work Order in Completed/Closed status.

Create CoM

- If no CoM has been issued for a SWO # yet, then the Issue Certificate of Maintenance will be launched in a Create mode where users can enter relevant details for creating CoM in Issue & Reference Details, select the Certifying Details and then tap on Create button to Create CoM.
- **Create CoM** popup will be launched and user can enter the details for allowing creation of CoM. Dual Authentication is also supported during creation of CoM.
- On tap of Create from Create CoM popup, CoM # will now be generated in 'Fresh' status and the Create button will be replaced by Save, Approve and Cancel buttons. Record Statistics section will now show the details of the Employee who created CoM # along with the Created Date & Time in the Created By section.

Modify CoM

- If CoM has been issued in Fresh status for a SWO #, then users can modify relevant details of the CoM # generated from the sections Issue & Reference Details and Certifying Details and then tap on Save button to Modify CoM.
- **Modify CoM** popup will be launched and user can enter the details for allowing modification of CoM. Dual Authentication is also supported during modification of CoM.
- On tap of Ok from Modify CoM popup, CoM # will now be modified to the details as modified by the user. Record Statistics section will now show the details of the Employee who modified CoM # along with the Modified Date & Time in the Modified By section.

Approve CoM

- If CoM has been issued in Fresh status for a SWO #, then users can approve the CoM # by tapping on Approve button.
- **Approve CoM** popup will be launched and user can enter the details for allowing approval of CoM. Dual Authentication is also supported during approval of CoM.
- On tap of Approve from Approve CoM popup, CoM # will now be generated in 'Approved' status

and the Save, Approve and Cancel buttons will now be replaced with a Replace button. Record Statistics section will now show the details of the Employee who approved CoM # along with the Approved Date & Time in the Approved By section.

Cancel CoM

- If CoM has been issued in Fresh status for a SWO #, then users can cancel the CoM # by tapping on Cancel button.
- Warning message prompting the user if the CoM has to be cancelled or not will be shown.
- On tap of Yes, the respective CoM # will be shown in 'Cancelled' status and the Save, Approve and Cancel buttons will now be replaced with a Replace button.

Replace CoM

- Replace CoM # can be performed only if an existing CoM for a SWO # is in either 'Cancelled' or 'Approved' status.
- On tap of Replace button, the Issue Certificate of Maintenance screen will be rendered in the same Create mode with the Replaced Certificate # control in the Certificate Info section showing the CoM # against which Replace button was tapped.

Exhibit 1: Identifies the new Issue CoM link in Shop Execution

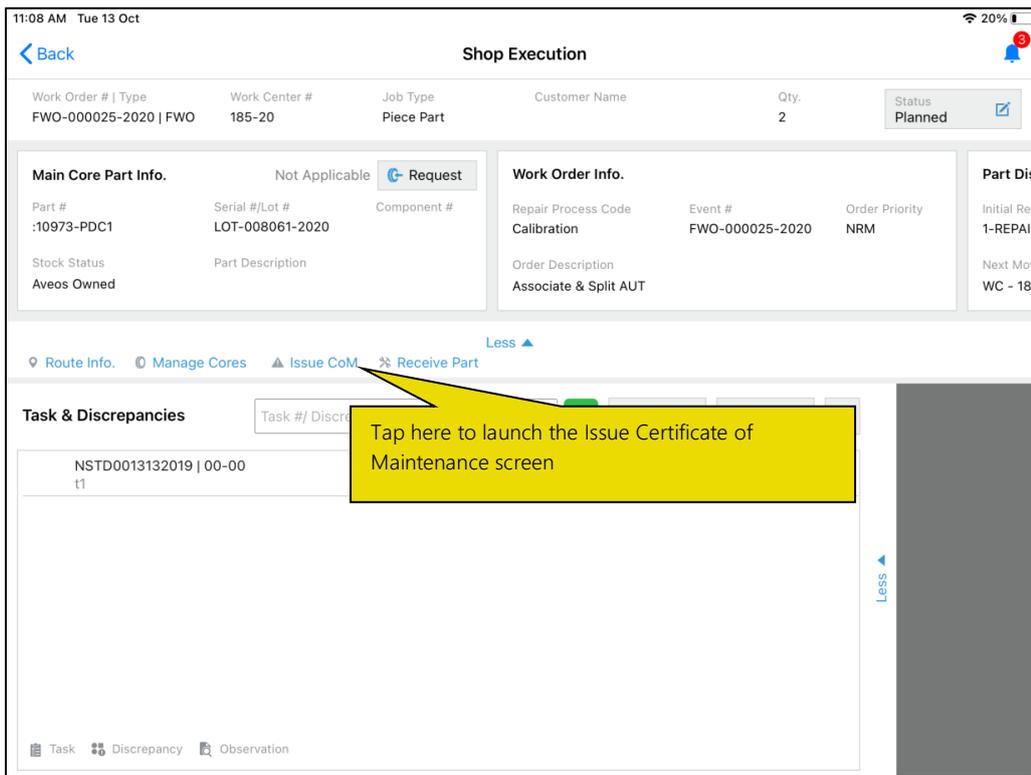


Exhibit 2: Identifies the new Issue Certificate of Maintenance screen for Create CoM

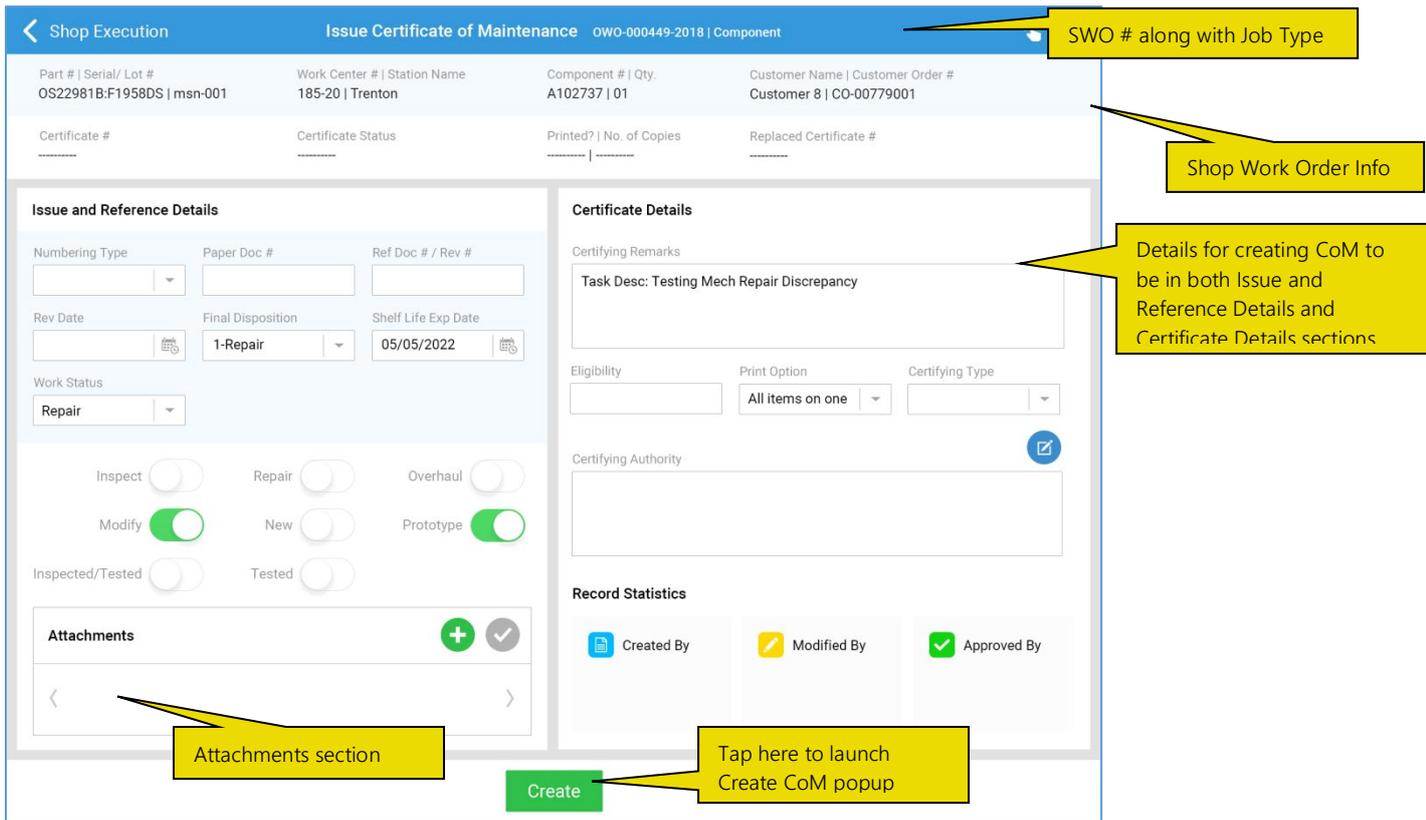


Exhibit 3: Identifies the new Create CoM popup in Issue Certificate of Maintenance screen

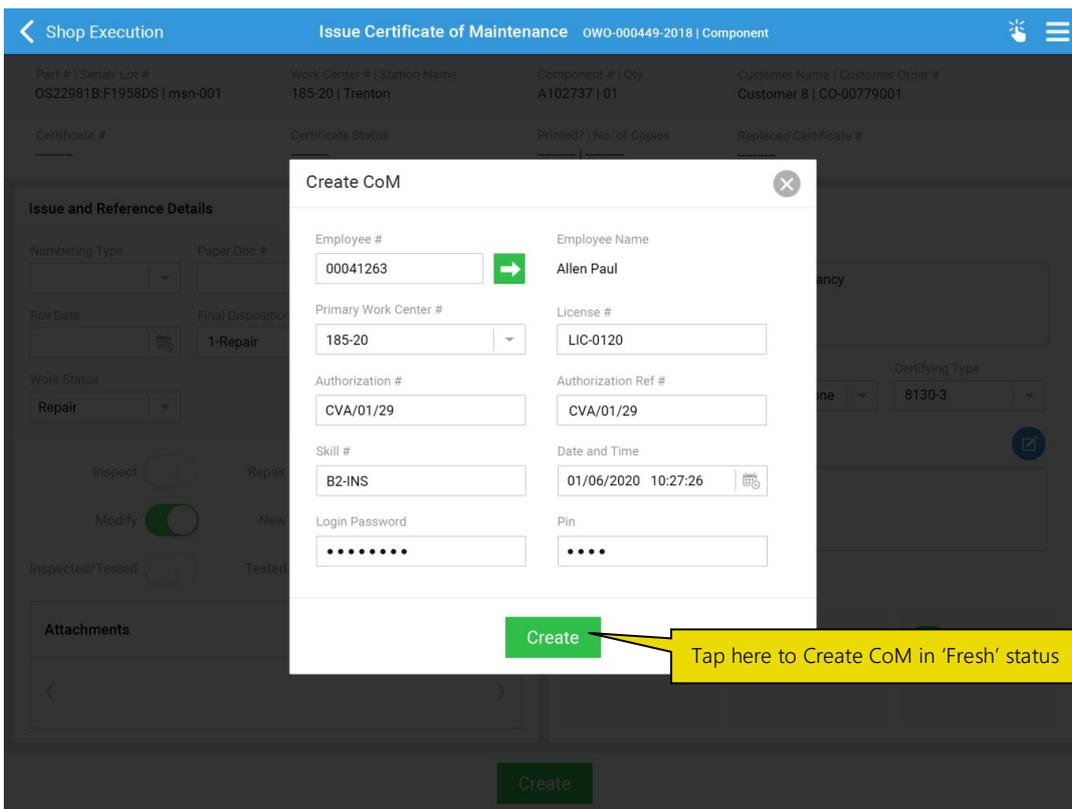


Exhibit 4: Identifies CoM in **Fresh** status in Issue Certificate of Maintenance screen

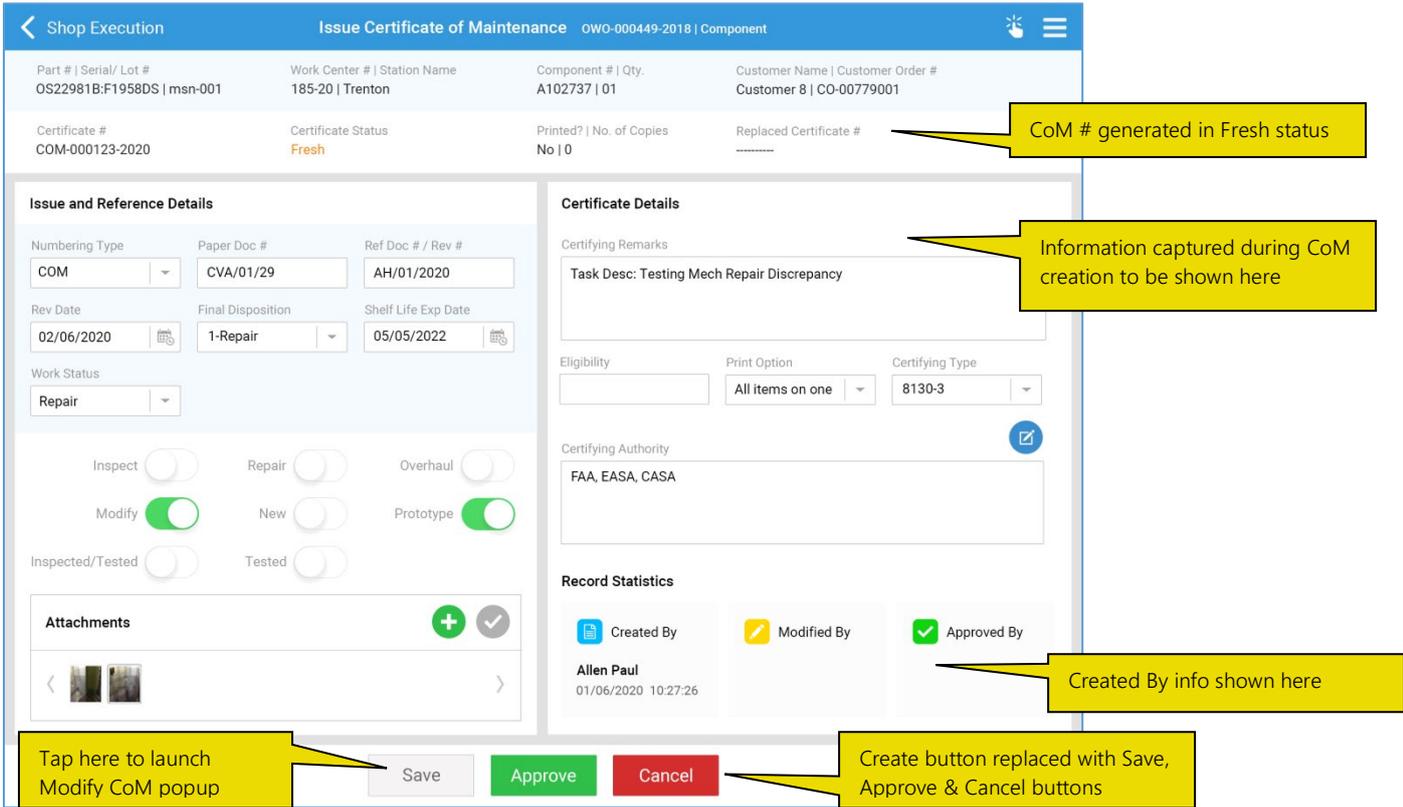


Exhibit 5: Identifies the new Modify CoM popup in Issue Certificate of Maintenance screen

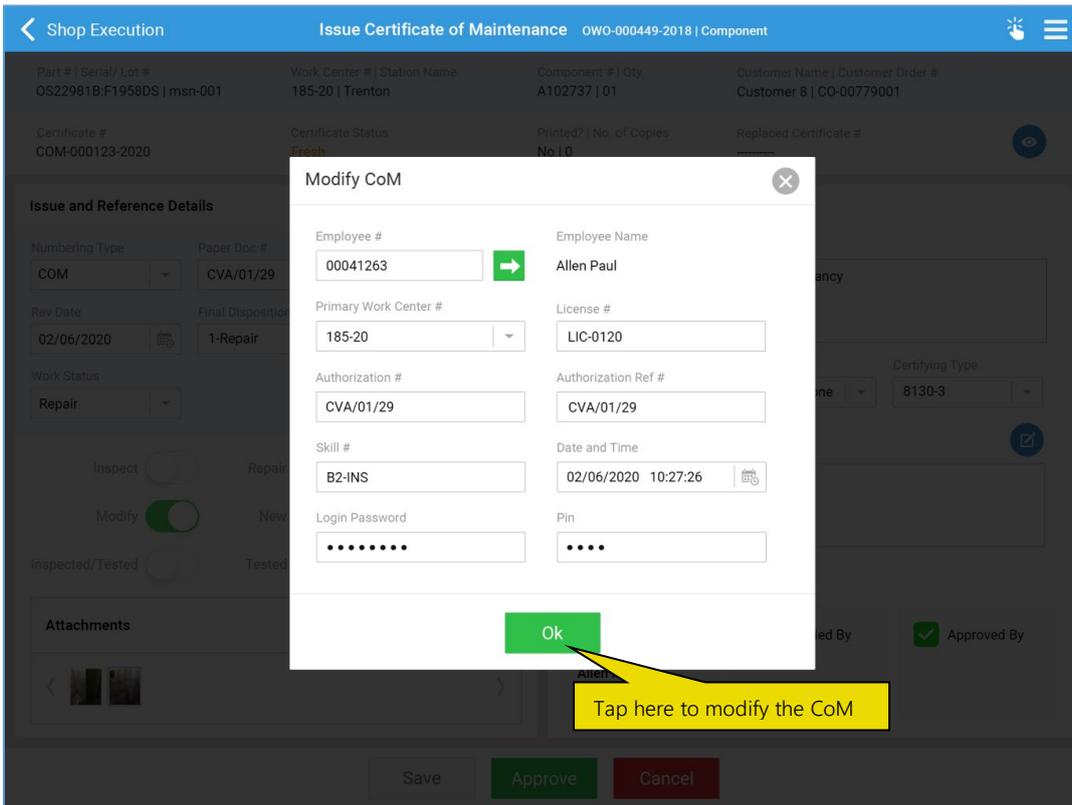


Exhibit 6: Identifies the modified CoM in Issue Certificate of Maintenance screen

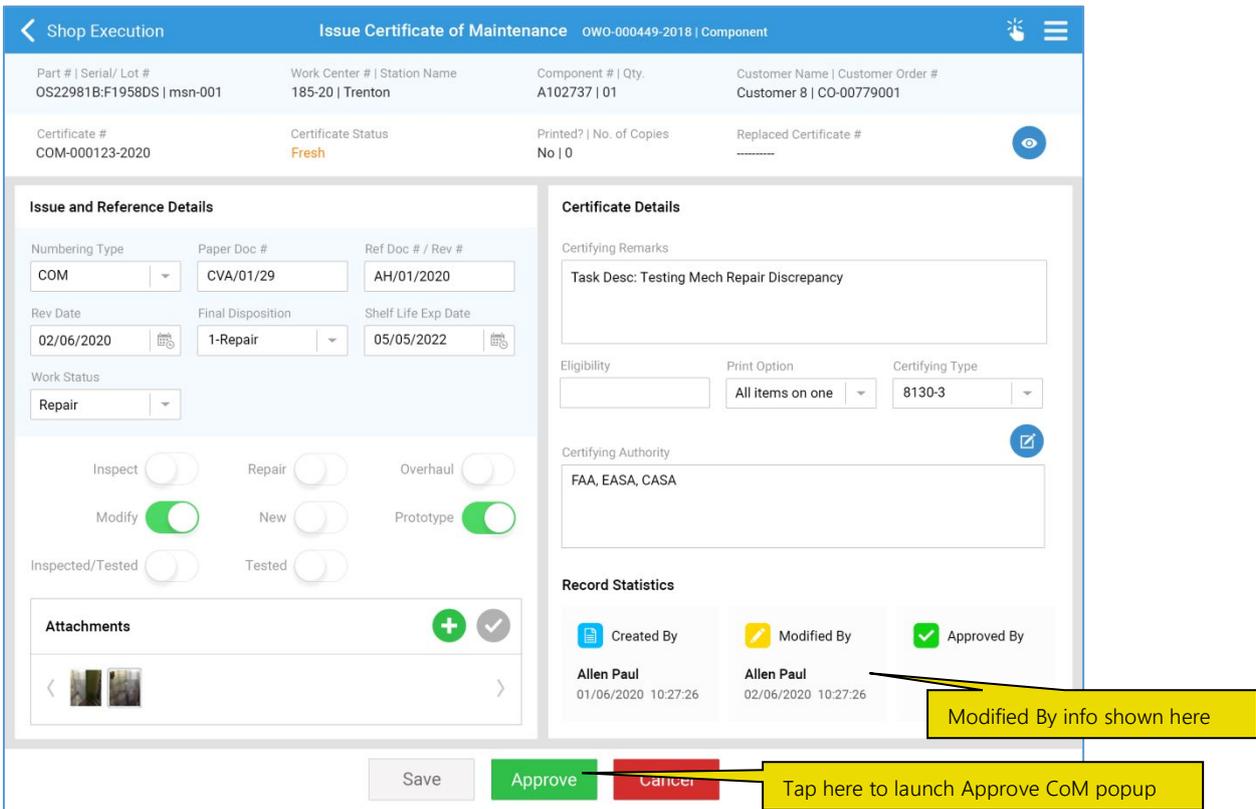


Exhibit 7: Identifies the new Approve CoM in Issue Certificate of Maintenance screen

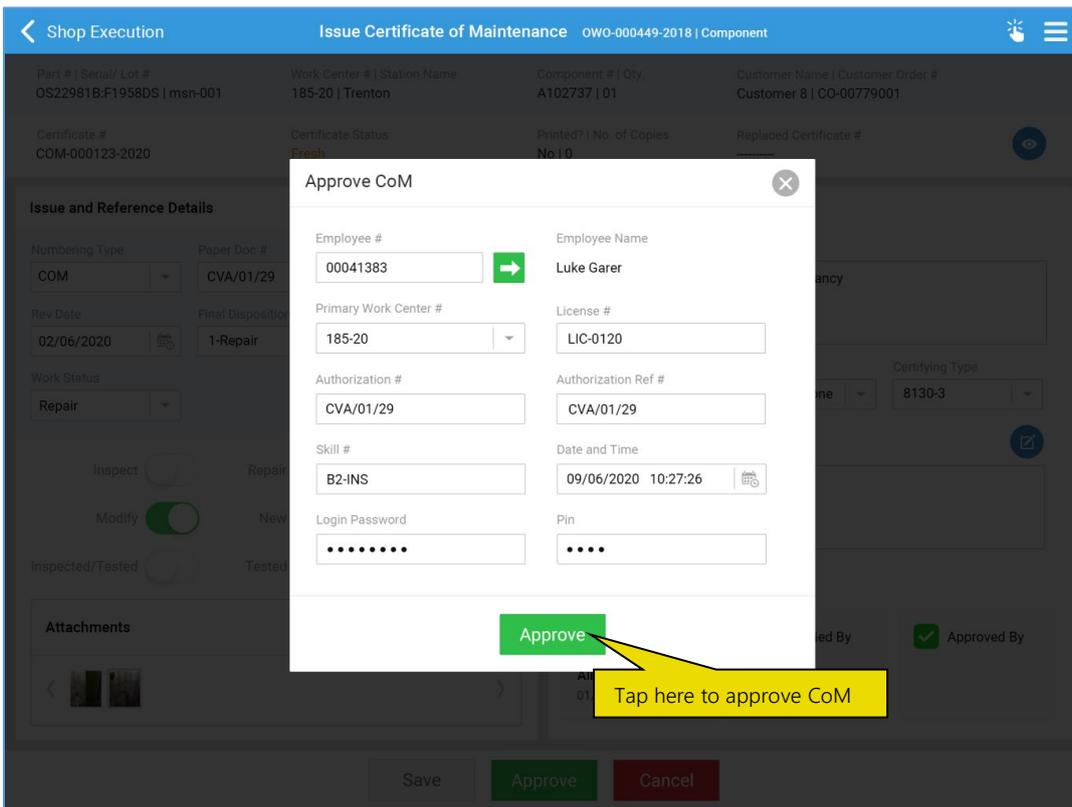


Exhibit 8: Identifies CoM in **Approved** status in Issue Certificate of Maintenance screen

Shop Execution | Issue Certificate of Maintenance | OWO-000449-2018 | Component

Part # | Serial/ Lot # | Work Center # | Station Name | Component # | Qty. | Customer Name | Customer Order #
OS22981B:F1958DS | msn-001 | 185-20 | Trenton | A102737 | 01 | Customer 8 | CO-00779001

Certificate # | Certificate Status | Printed? | No. of Copies | Replaced Certificate #
COM-000123-2020 | **Approved** | No | 0 | -----

Issue and Reference Details

Numbering Type: COM | Paper Doc #: CVA/01/29 | Ref Doc # / Rev #: AH/01/2020
Rev Date: 02/06/2020 | Final Disposition: 1-Repair | Shelf Life Exp Date: 05/05/2022
Work Status: Repair

Inspect: | Repair: | Overhaul:
Modify: | New: | Prototype:
Inspected/Tested: | Tested:

Attachments

Certificate Details

Certifying Remarks: Task Desc: Testing Mech Repair Discrepancy

Eligibility: | Print Option: All items on one | Certifying Type: 8130-3

Certifying Authority: FAA, EASA, CASA

Record Statistics

Created By	Modified By	Approved By
Allen Paul 01/06/2020 10:27:26	Allen Paul 02/06/2020 10:27:26	Luke Garer 09/06/2020 10:27:26

Replace

CoM # generated in Fresh status

Approved By info shown here

Save, Approve & Cancel buttons replaced with Replace button

Exhibit 9: Identifies Issue Certificate of Maintenance screen in Replaced mode

Shop Execution | Issue Certificate of Maintenance | OWO-000449-2018 | Component

Part # | Serial/ Lot # | Work Center # | Station Name | Component # | Qty. | Customer Name | Customer Order #
OS22981B:F1958DS | msn-001 | 185-20 | Trenton | A102737 | 01 | Customer 8 | CO-00779001

Certificate # | Certificate Status | Printed? | No. of Copies | Replaced Certificate #
----- | ----- | ----- | ----- | COM-000122-2020

Issue and Reference Details

Numbering Type: | Paper Doc #: | Ref Doc # / Rev #: |
Rev Date: | Final Disposition: 1-Repair | Shelf Life Exp Date: 05/05/2022
Work Status: Repair

Inspect: | Repair: | Overhaul:
Modify: | New: | Prototype:
Inspected/Tested: | Tested:

Attachments

Certificate Details

Certifying Remarks: Task Desc: Testing Mech Repair Discrepancy

Eligibility: | Print Option: All items on one | Certifying Type: |

Certifying Authority:

Record Statistics

Created By	Modified By	Approved By

Create

Replaced Certificate # shown here

Ability to record direct part consumption and return at Package level from eLog

Reference: APRP-973

Background

During closure of a package in MechanicAnywhere mobile application, users would like to view the count of all pending part consumption and return. Since Parts Return count is available only at task/discrepancy level, it is difficult to find at package level against which task/discrepancy the part consumption and return has to be recorded before package closure.

Therefore, a new provision is required wherein users can see the Parts Return counts and status across tasks and discrepancies at package level.

Change Details

1. New count display showing both **Pending and Total counts** for Parts Return which is similar to the one in eLog – Task tab is provided in the package header section in order to view the overall Pending Return at package level.
2. Parts Consumption screen is now renamed to **Part Consumption & Return** screen.
3. On click of pending Parts Return counts at package header level for Package #, **Part Consumption & Return** screen will be launched and all parts pending for return and consumption to be recorded will be filtered and shown in the left pane of the screen in the increasing order of Seq #.
4. Certain realignment has been made in the Part Consumption & Return screen header. Task#/Discrepancy# is now changed to Editable control with smart search enabled. This smart search will fetch only task and discrepancies inside the respective Package # against which **Part Consumption & Return** screen is launched.
5. If user wants to view for a particular task/discrepancy return, then the smart search can be used to search and filter results for a particular task/discrepancy.

Exhibit 1: Identifies the Parts Return count section at eLog package header level.

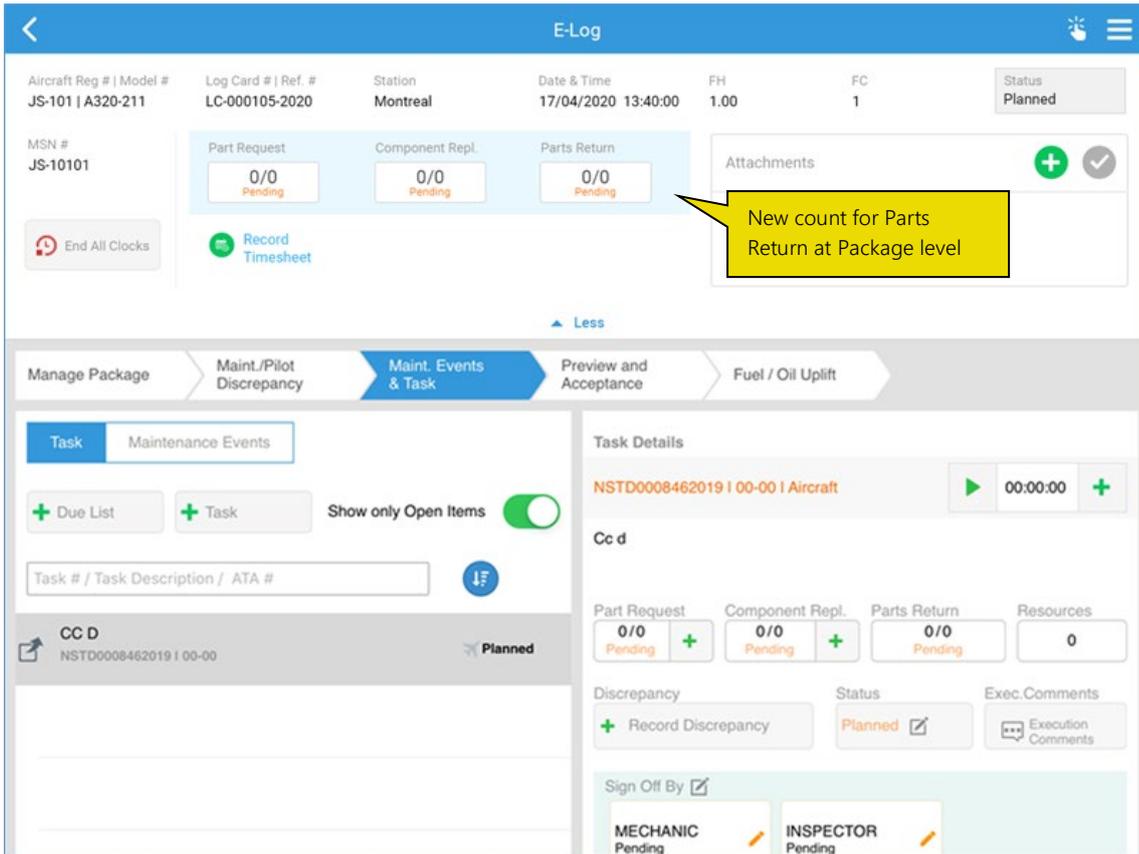
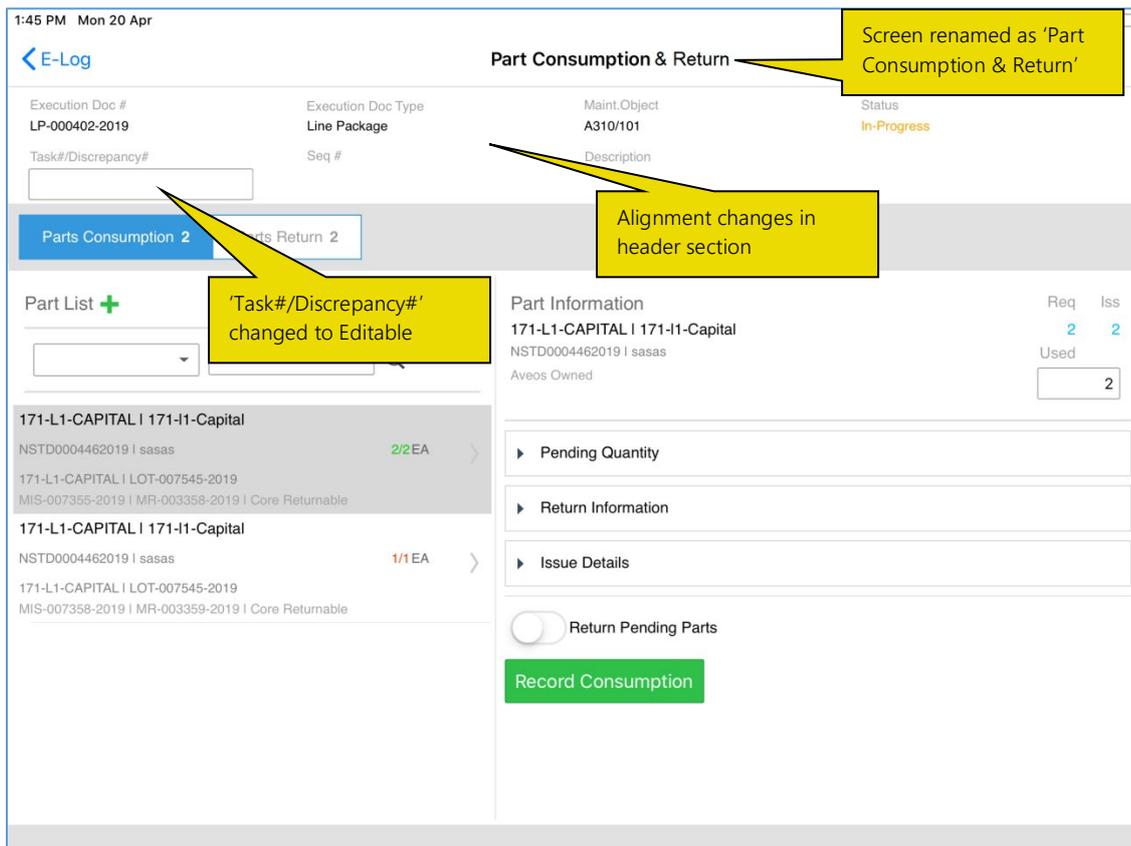


Exhibit 2: Identifies the changes in Part Consumption & Return screen



Ability to view multiple Corrective Actions against a Discrepancy in MechanicAnywhere

Reference: APRP-860

Background

Discrepancies recorded might require multiple Corrective Actions in order to rectify and close the same. Sign off requirements is recorded and captured at corrective action level. Currently in MechanicAnywhere only the corrective action that is recorded at the last is shown in both eLog and Discrepancy Card. This makes it difficult in order to view all the corrective action recorded against the discrepancy along with its sign off requirement.

Change Details

To facilitate display of multiple Corrective Actions, the following changes have been done in Mechanicnywhere:

- eLog – Maint./Pilot Discrepancy tab right pane realigned in order have explicit section for Corrective Action. **Corrective Action** section is now made swipeable in order see across corrective actions.
- A new **current view/total count** is shown in the corrective action section in eLog. This will facilitate the view for users when swiping across corrective actions.
- An **Action Tray** introduced in Discrepancy Card screen which allows users to perform multiple actions: Status Change (Current Status along with Edit icon), Edit Discrepancy (Along with edit icon), Part Cons. & Return and Task Card Digitization along with clock on/off icons.
- New tabs: '**Problem & Res. Details**' and '**Corrective Action**' are introduced in Discrepancy Card and existing tabs: '**Associate Repair Task**' and '**Resolution History**' moved alongside of new tabs.
- Problem & Res. Details tab renders the same controls realigned to provide a much better layout.
- New corrective action tab provides a dedicated tab for viewing all the corrective actions recorded against the respective discrepancy along with its sign off requirement. Users will be able to perform sign off, edit corrective action and also add new corrective action from this tab. On tap of the different Sign Off Requirements, e-Sign Off popup will be launched for performing sign off. Edit icon is provided beside each corrective action to launch 'Edit Discrepancy' popup in order to edit either Corrective Action description or sign off requirements of a particular corrective action. New Corrective Actions can be added from the top '+' icon that will launch 'New Corrective Action' popup.

Exhibit 1: Identifies the changes in eLog - Maint./Pilot Discrepancy tab

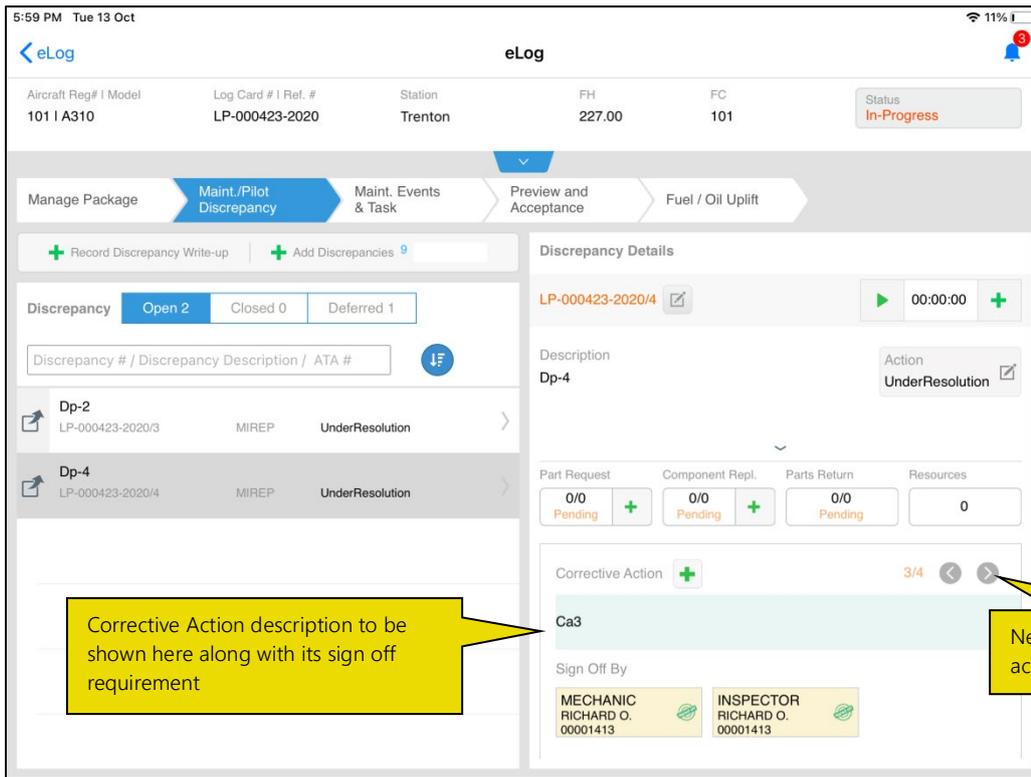


Exhibit 2: Identifies the new Problem & Res. Details tab in Discrepancy Card

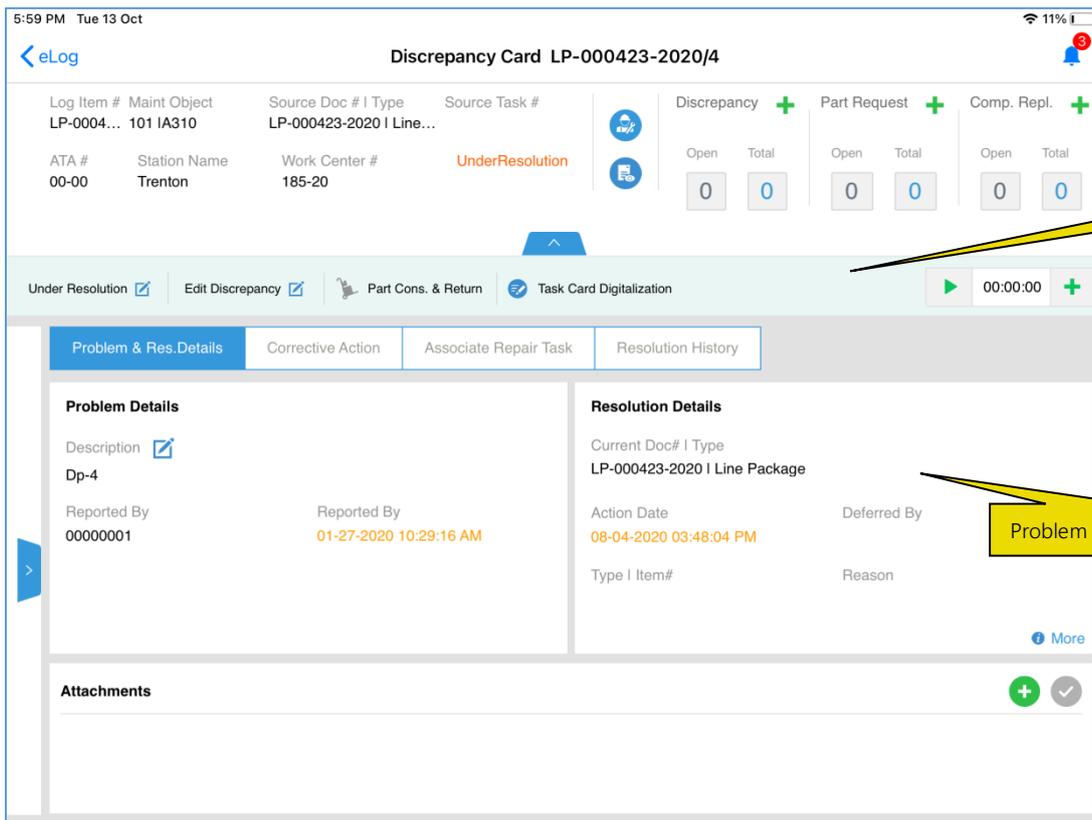


Exhibit 3: Identifies the new **Corrective Action** tab in Discrepancy Card

5:59 PM Tue 13 Oct

eLog Discrepancy Card LP-000423-2020/4

Log Item # Maint Object Source Doc # | Type Source Task #
 LP-0004... 101 IA310 LP-000423-2020 | Line...

ATA # Station Name Work Center # UnderResolution
 00-00 Trenton 185-20

Discrepancy + Part Request + Comp. Repl. +
 Open Total Open Total Open Total
 0 0 0 0 0 0

Under Resolution Edit Discrepancy Part Cons. & Return Task Card Digitalization 00:00:00 +

Problem & Res.Details **Corrective Action** Associate Repair Task Resolution History Corrective Action +

Corrective Action	Sign Off By
Ca-4	MECHANIC RICHARD... 00001413 INSPECTOR RICHARD... 00001413
Ca2	MECHANIC RICHARD... 00001413 INSPECTOR RICHARD... 00001413
Ca3	MECHANIC RICHARD... 00001413 INSPECTOR RICHARD... 00001413
Ca4	MECHANIC RICHARD... 00001413

Multiple Correction Actions listed here

Add Correction Action from here

Edit Correction Action and its sign off requirement from

Respective Sign Off requirements are shown here

Exhibit 4: Identifies the new **Associate Repair Task** tab in Discrepancy Card

5:59 PM Tue 13 Oct

eLog Discrepancy Card LP-000423-2020/4

Log Item # Maint Object Source Doc # | Type Source Task #
 LP-0004... 101 IA310 LP-000423-2020 | Line...

ATA # Station Name Work Center # UnderResolution
 00-00 Trenton 185-20

Discrepancy + Part Request + Comp. Repl. +
 Open Total Open Total Open Total
 0 0 0 0 0 0

Under Resolution Edit Discrepancy Part Cons. & Return Task Card Digitalization 00:00:00 +

Problem & Res.Details Corrective Action **Associate Repair Task** Resolution History

Tasks #	Description	Exec.Status	Sign Off Status	Exec.Doc

Exhibit 5: Identifies the new Resolution History tab in Discrepancy Card

5:59 PM Tue 13 Oct 11%

[eLog](#) Discrepancy Card LP-000423-2020/4

Log Item # LP-0004...	Maint Object 101 IA310	Source Doc # Type LP-000423-2020 Line...	Source Task #	 	Discrepancy +	Part Request +	Comp. Repl. +				
ATA # 00-00	Station Name Trenton	Work Center # 185-20	UnderResolution		Open	Total	Open	Total	Open	Total	
				0		0		0		0	

^

Under Resolution
Edit Discrepancy
Part Cons. & Return
Task Card Digitalization
▶ 00:00:00 +

Problem & Res. Details
Corrective Action
Associate Repair Task
Resolution History

Corrective Action	Action	Performed Date & Time	Rectified By	Inspected By	Ref. Doc #	Sign Off Comme...
Ca-4		01-27-2020 10:29:16 AM			LP-000423-2020	
Ca2		08-04-2020 03:23:02 PM			LP-000423-2020	
Ca3		08-04-2020 03:27:11 PM			LP-000423-2020	
Ca2	UnderResolution	08-04-2020 03:29:30 PM	00001413		LP-000423-2020	
Ca3	UnderResolution	08-04-2020 03:29:53 PM	00001413		LP-000423-2020	
Ca2	UnderResolution	08-04-2020 03:30:57 PM	00001413		LP-000423-2020	
Ca4		08-04-2020 03:47:49 PM			LP-000423-2020	
Ca4		08-04-2020 03:48:04 PM		00001413	LP-000423-2020	

Ability to record multiple oil uplifts against a single Package in eLog of MechanicAnywhere

Reference: APRP-1309

Background

'Multiple oil uplifts cannot be recorded against an Exe. Ref. Doc. # through the Fuel / Oil uplift screen of eLog in MechanicAnywhere.

Change Details

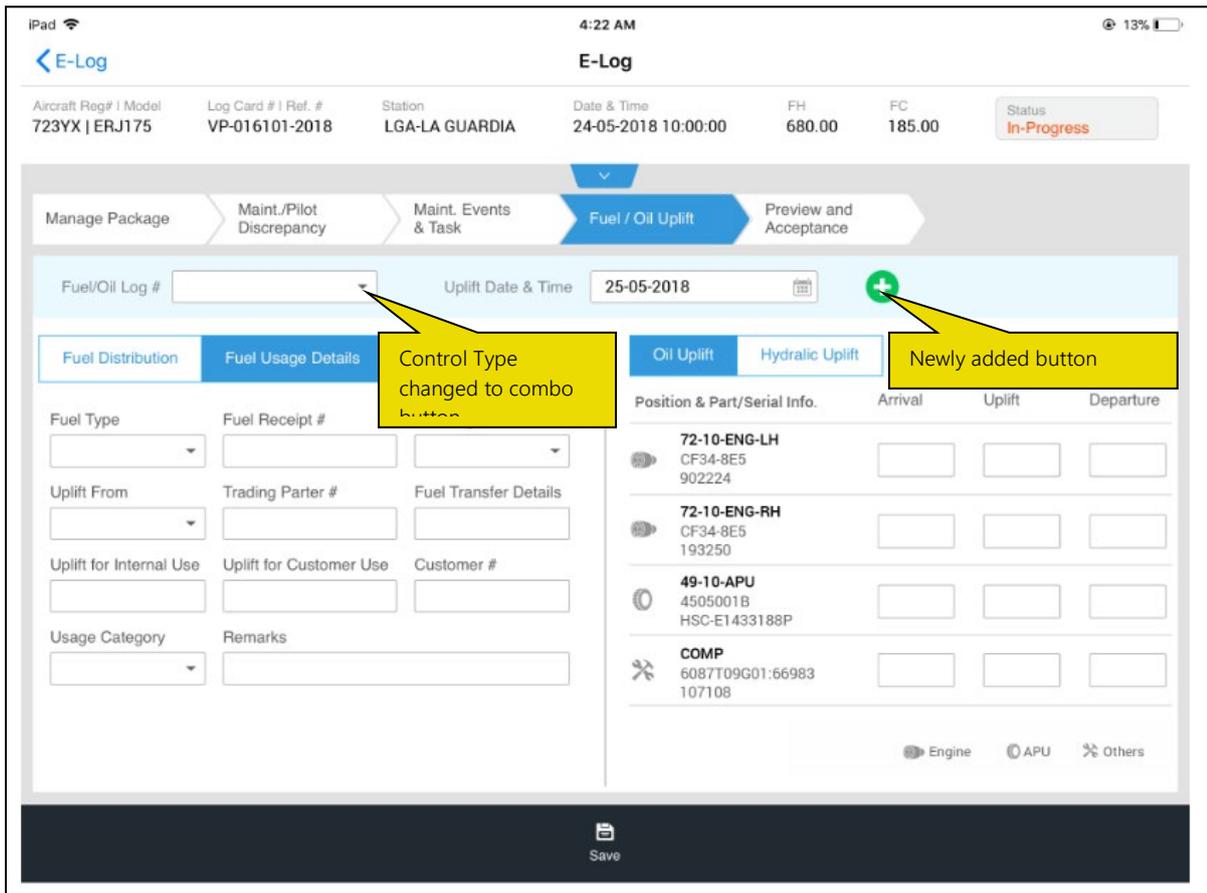
Fuel/Oil Uplift

The control type of "Fuel/Oil Log #" is modified to combo UI and new icon "Add Button" is added in the header besides Uplift Date & Time. On launch of 'Fuel/Oil Uplift' tab in eLog screen, the control 'Fuel/Oil Log #' loaded with the latest Fuel / Oil Log # recorded for the respective Package # against the Aircraft Reg # if recorded, otherwise it will display as BLANK.

If user taps on 'Add' button in the header section of 'Fuel/Oil Uplift' tab, system clears the values in all the tabs, Fuel/Oil Log # and shows only the Uplift Date & Time with the station date & time and enables as a new transaction to be done. If user enters values in any of the tabs: Fuel Distribution / Fuel Usage Details / Oil Uplift / Hydraulic Uplift and on tap of Save, will generate new 'Fuel/Oil Log #' for the respective transaction and display in the control 'Fuel/Oil Log #'. The values entered against the Fuel/Oil Log # will be saved.

If user selects a value from the combo 'Fuel/Oil Log #' in the header section of 'Fuel/Oil Uplift' tab, system will Refresh and show the corresponding values in the tabs: Fuel Distribution / Fuel Usage Details / Oil Uplift / Hydraulic Uplift, saved against the respective 'Fuel/Oil Log #' selected by the user.

Exhibit 1: Identifies the Fuel/Oil uplift in eLog



AI/ML Suggestions for Frequently Requested Parts based on Alternate Parts Coverage

Reference: APRP-1133

Background

In MechanicAnywhere, AI/ML Suggestions for Frequently Requested Parts based on Alternate Parts Coverage will add more value in the existing feature of Manage Frequently Requested Parts.

Change Details

Common Master

A new process parameter 'Consider Direct Alternates for Frequently Requested Parts Suggestion in MechanicAnywhere?' is added under the Entity Type 'Mobility and Entity 'MechanicAnywhere' in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) Existing Behavior – System will not consider Direct Alternates for Frequently Requested Parts Suggestion in MechanicAnywhere.
- 1 (Yes) – System will consider Direct Alternates for Frequently Requested Parts Suggestion in MechanicAnywhere.

Create Material Request - Task

If the process parameter "Consider Direct Alternates for Frequently Requested Parts Suggestion in MechanicAnywhere?" is set as '1' (Yes) and the Process Parameter "Show parts frequently requested together based on Part Relationship definition or MR history" under Entity Type "Package Type" and Entity "All user defined packages including Log Card" in **Set Process Parameters** screen of **Common Master** business component is set as '1', MR History and the Requested Part # is a direct alternate to any Part (one way or two way) as in **Maintain Alternate Part Nos.** screen and the Part # and Task (if applicable) having history of MR with other Part Nos. (based on the instance), then system lists all the Frequently Requested Parts of Part Requested and its Alternates in the Pop-up.

Create Material Request – Discrepancy description similarity

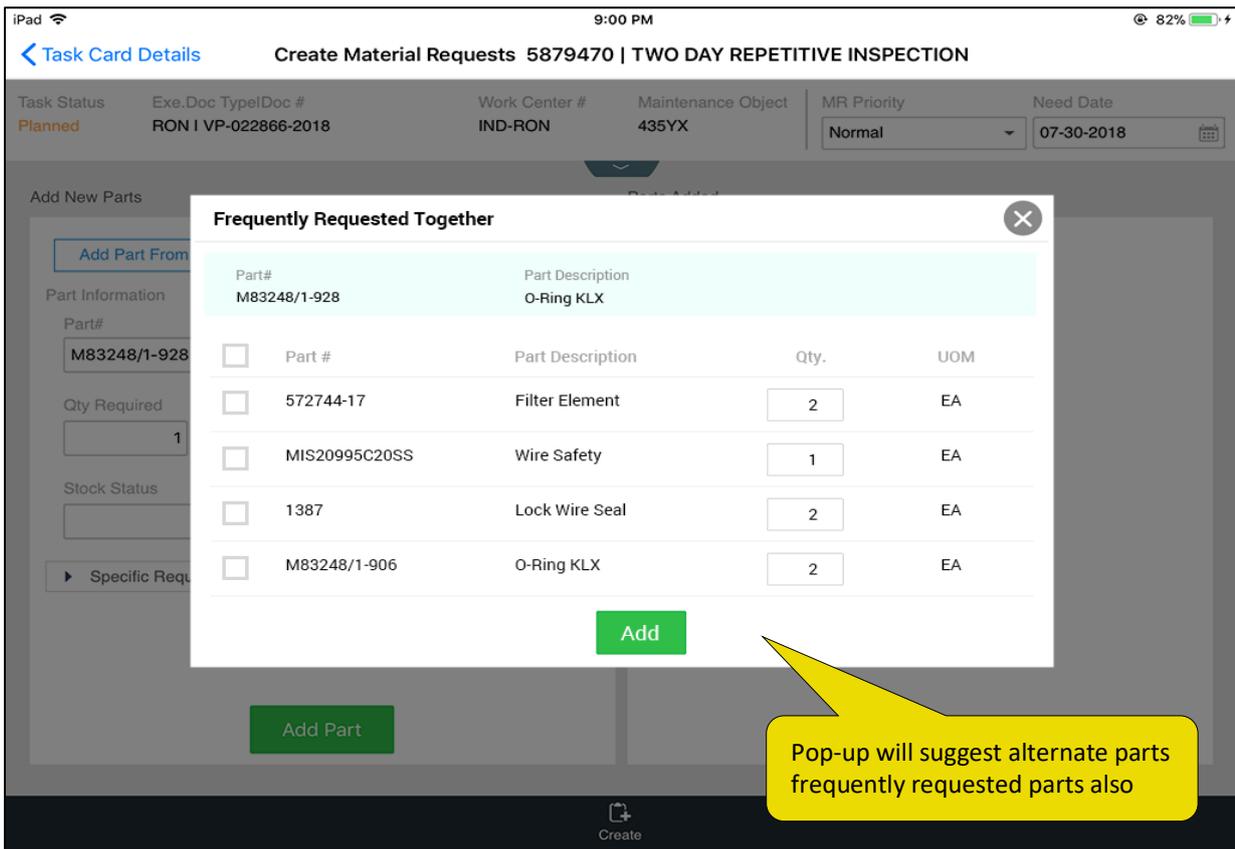
If the process parameter "Consider Direct Alternates for Frequently Requested Parts Suggestion in MechanicAnywhere?" is set as '1' (Yes) and the Process Parameter "Show parts frequently requested together based on Part Relationship definition or MR history" under Entity Type "Package Type" and Entity "All user defined packages including Log Card" in **Set Process Parameters** screen of **Common Master** business

component is set as '1', MR History and the process parameter "Basis to identify parts frequently requested together in Material Requests during Discrepancy execution" under Entity Type "Package Type" and Entity "All user defined packages including Log Card" in **Set Process Parameters** screen of **Common Master** business component is set as '0', Discrepancy Description Similarity and the Requested Part # is a direct alternate to any Part (one way or two way) as in **Maintain Alternate Part Nos.** screen and the Part # and Discrepancy (if applicable) having history of MR with other Part Nos. (based on the similarity of Discrepancy Description), then system lists all the Frequently Requested Parts of Part Requested and its Alternates in the Pop-up.

Create Material Request – Source Task # of Discrepancy

If the process parameter "Consider Direct Alternates for Frequently Requested Parts Suggestion in MechanicAnywhere?" is set as '1' (Yes) and the Process Parameter "Show parts frequently requested together based on Part Relationship definition or MR history" under Entity Type "Package Type" and Entity "All user defined packages including Log Card" in **Set Process Parameters** screen of **Common Master** business component is set as '1', MR History and the process parameter "Basis to identify parts frequently requested together in Material Requests during Discrepancy execution" under Entity Type "Package Type" and Entity "All user defined packages including Log Card" in **Set Process Parameters** screen of **Common Master** business component is set as '1', Source Task # of the Discrepancy and the Requested Part # is a direct alternate to any Part (one way or two way) as in **Maintain Alternate Part Nos.** screen and the Part # and Discrepancy (if applicable) having history of MR with other Part Nos. (based on the Source Task # of the Discrepancy), then system lists all the Frequently Requested Parts of Part Requested and its Alternates in the Pop-up.

Exhibit 1: Identifies the Frequently Requested Together pop-up



Ability to configure notifications from MechanicAnywhere

Reference: APRP-1031

Background

User can manually enable or disable the respective notifications whichever he/she wants to notify during the execution. Hence, provision to configure notifications from MechanicAnywhere is required.

Change Details

Hamburger Menu

A new bell icon is added in the Hamburger Menu of MechanicAnywhere to launch the **Configure Notifications** screen.

Configure Notifications

This screen will list down all the applicable notifications categorized in to three parts. Task Assignment, Package Release and Material Request. The notification will only be visible if it is enabled in the **Set Process Parameters** screen under Entity Type 'Notification' and Entity 'MechanicAnywhere' of **Define Process Entities** activity. In this new UI, against each notification, toggle will be available to turn ON/OFF the notification with Submit button. User can turn on/off toggle against the notification and submit will save it against the user.

List of Notifications:

- Assignment of a Task to a Mechanic
- Release of a Package for Execution
- Purchase Order raised for Material Request
- Stock Transfer raised for Material Request
- Shipping Note Confirmed for the Stock Transfer issue raised for Material Request
- Allocation of Parts for a Material Request

Exhibit 1: Identifies the Hamburger Menu

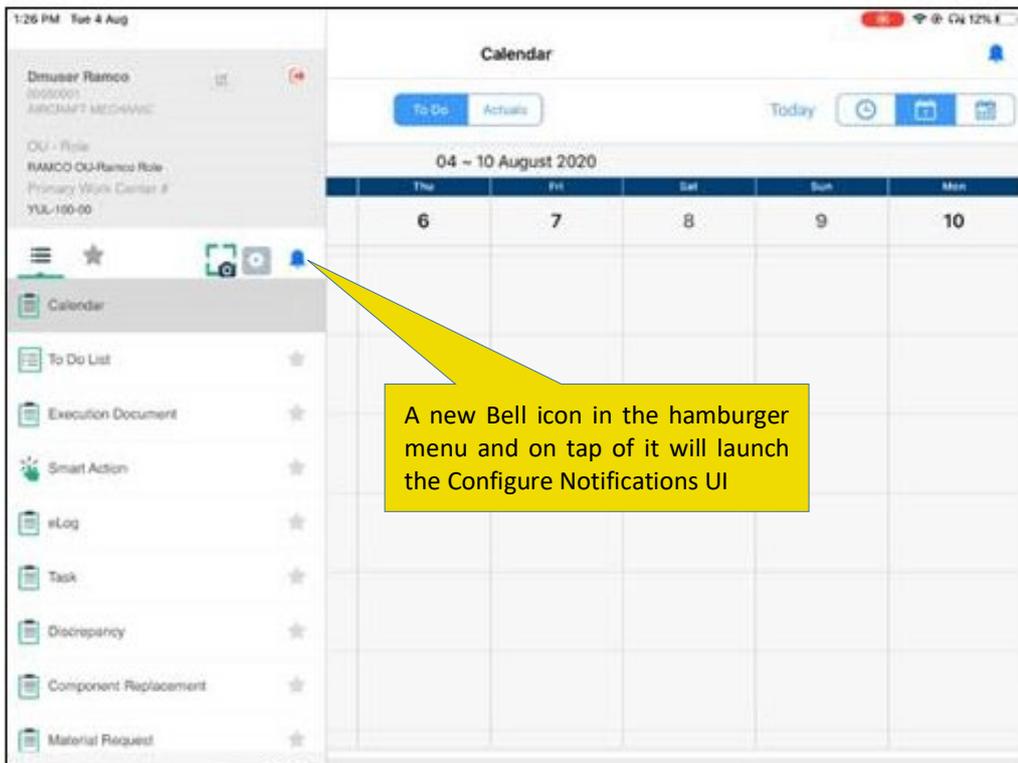
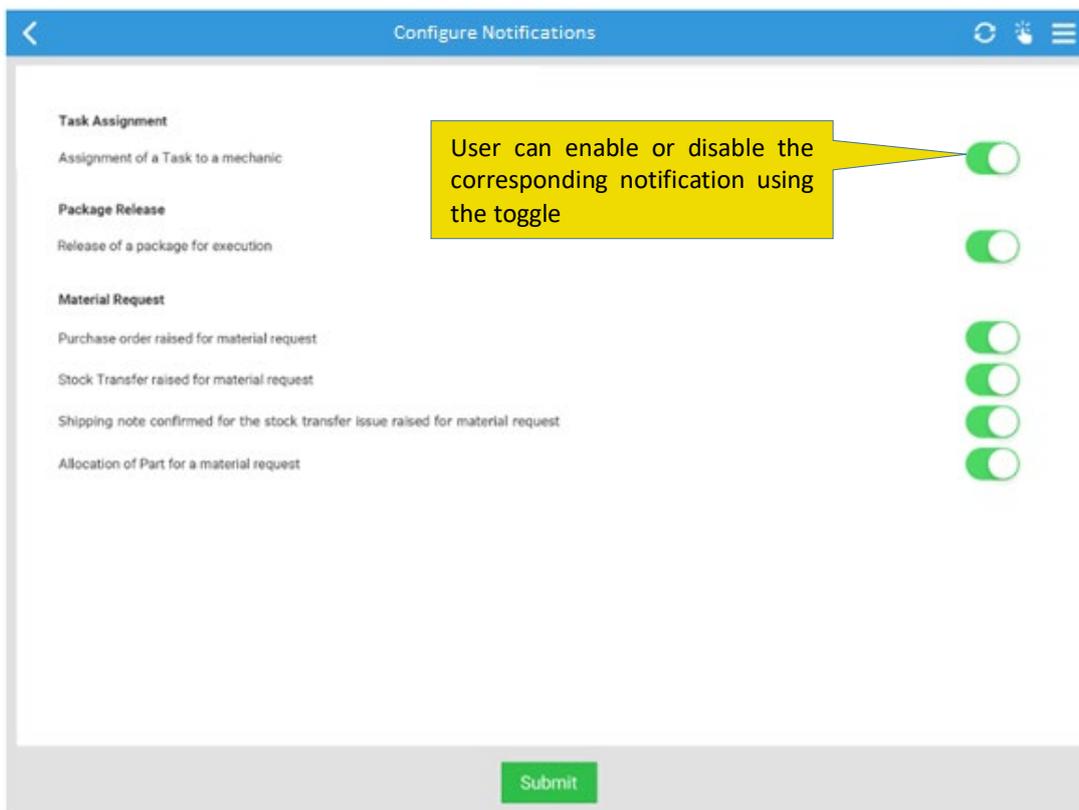


Exhibit 2: Identifies the Configure Notifications screen



Ability to specify specific Serial # / Lot # using a help page during Create MR in MechanicAnywhere

Reference: APRP-977

Background

When requesting a specific LOT/SN, there is no way to select a LOT/SN from available Qty. The SN or Lot must be entered manually. The requirement is to request for a Specific LOT/SN as in the Work Reporting Hub screen, which uses a help-on search.

Change Details

Specific Serial/Lot entry pop-up

Whenever user requests for Specific Serial # / Lot # from Create Material Request in MechanicAnywhere, the pop-up that launches to enter Specific Serial #/Lot # has to be enhanced to display the available Serial # / Lot # for the Part requested in the selected warehouse.

Serial Controlled Part

If the requested part is a serial controlled part, the pop-up has to be launched with the following columns in the ML with selectable checkbox against each row in the left end:

1. Serial # - will fetch all the available serials for the requested Part in the requested warehouse
2. UOM - will fetch the UOM of each Serial #
3. Condition - will fetch the condition of the Serial #
4. Stock Status - will fetch the stock status of the Serial #

Lot Controlled Part

If the requested part is a lot controlled part, the pop up has to be launched with the following columns in the ML with selectable checkbox against each row in the left end.

1. Lot # - will fetch all the Lot # available for the requested Part in the requested warehouse
2. UOM - will fetch the UOM of each Lot #
3. Condition - will fetch the condition of the Lot #
4. Stock Status - will fetch the stock status of the Lot #
5. Avail. Qty. - will fetch the quantity available in each Lot #

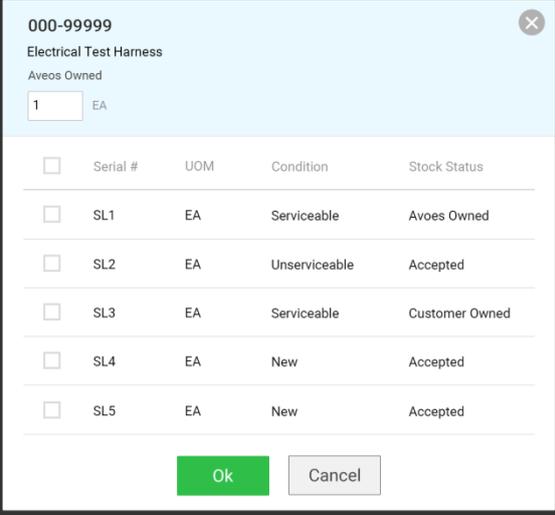
Serial-Lot Controlled Part

If the requested part is a serial-lot controlled part, the pop-up has to be launched with the following columns

in the ML with selectable checkbox against each row in the left end:

1. Serial #/Lot # - will fetch all the Serial # - Lot # available for the requested Part in the requested warehouse.
2. UOM - will fetch the UOM of each Serial # - Lot #
3. Condition - will fetch the condition of the Serial # - Lot #
4. Stock Status - will fetch the stock status of the Serial # - Lot #

Exhibit 1: Identifies the Pop-up for Serial Controlled Part.

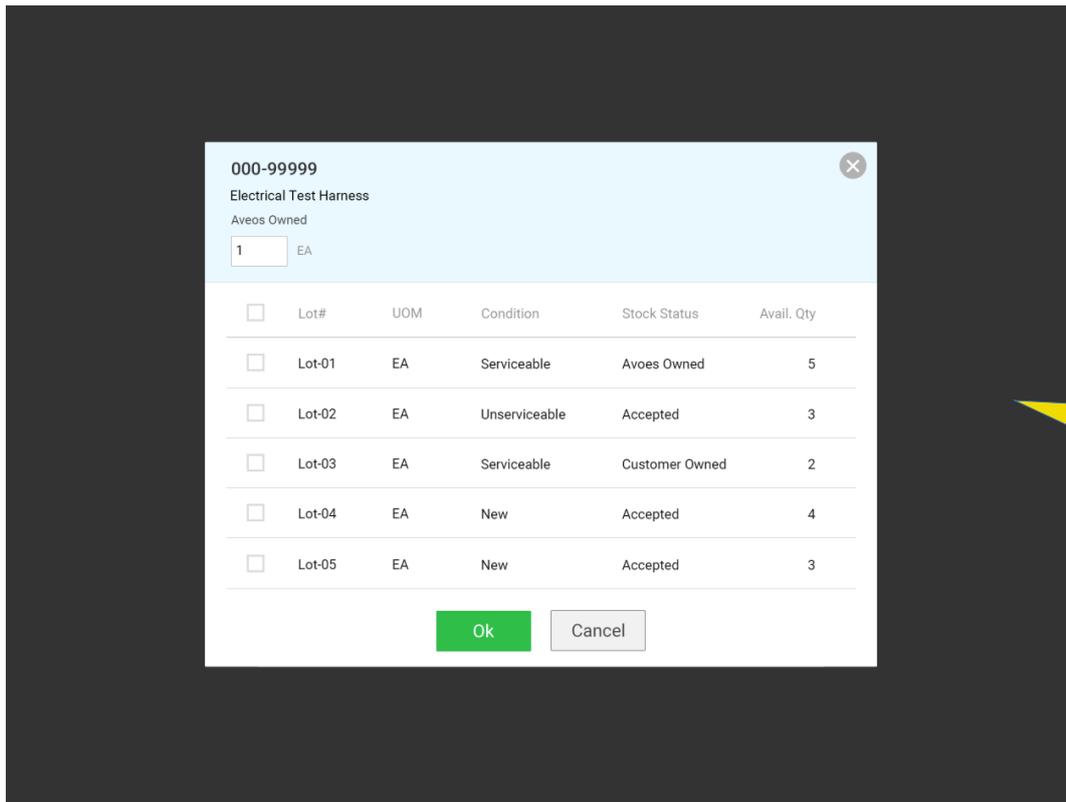


The screenshot shows a pop-up window titled "000-99999" for "Electrical Test Harness". It includes a field for "Avoes Owned" with the value "1" and a unit "EA". Below this is a table with columns for "Serial #", "UOM", "Condition", and "Stock Status". The table lists five serial numbers (SL1 to SL5) with their respective UOM (EA), conditions (Serviceable, Unserviceable, New), and stock statuses (Avoes Owned, Accepted, Customer Owned). At the bottom of the window are "Ok" and "Cancel" buttons.

<input type="checkbox"/>	Serial #	UOM	Condition	Stock Status
<input type="checkbox"/>	SL1	EA	Serviceable	Avoes Owned
<input type="checkbox"/>	SL2	EA	Unserviceable	Accepted
<input type="checkbox"/>	SL3	EA	Serviceable	Customer Owned
<input type="checkbox"/>	SL4	EA	New	Accepted
<input type="checkbox"/>	SL5	EA	New	Accepted

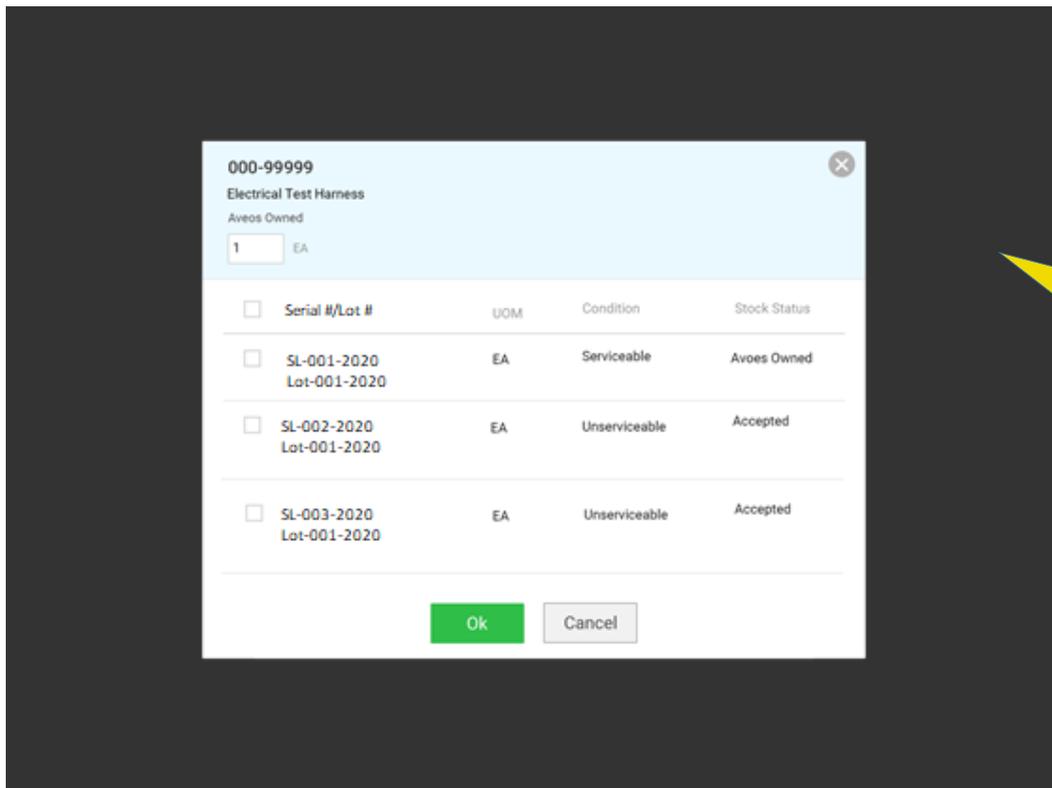
For a serial controlled part, will list all the available serials in the specified warehouse

Exhibit 2: Identifies the Pop-up for Lot Controlled Part.



For a lot controlled part, will list all the available lots in the specified warehouse

Exhibit 3: Identifies the Pop-up for Serial - Lot Controlled Part



For a serial-lot controlled part, will list all the available serial-lots in the specified warehouse

Ability to filter Pending Return parts in the Parts Consumption Tab of MechanicAnywhere

Reference: APRP-969

Background

Business need is to provide the ability to display the parts that are pending for excess return. This is accomplished by adding a pending return toggle to the Parts Consumption Tab. The addition of new toggle button will allow the users to more easily view which parts are pending excess return.

Change Details

Parts Consumption

The Pending Direct Consumption toggle available under the Part Consumption tab has to be removed/deleted and instead of which a new button bar has to be introduced (with applicable counts on it) having the below 3 clickable options:

1. All
2. Pending Direct Consumption
3. Pending Return

This enhancement is applicable for both SWO and AME. On launch of the Part Consumption page, default the first tab "Part Consumption" and default "All" in the button bar available under the tab with all records fetched in this tab and the first record is selected and loaded in the right pane.

Count Logic

All - Displays the count of all part consumption records that are available against the "All" option of the button bar, which includes Pending Direct Consumption and Pending Return counts.

Pending Direct Consumption - Displays the count of all direct part consumption records (i.e. records having no Issue reference) that are saved but not yet confirmed against the "Pending Direct Consumption" option of the button bar.

Pending Return - Displays the count of all normal consumption records (i.e. records having an Issue reference) which have one or more quantity pending for excess return against the "Pending Return" option of the button bar.

Click Logic

All - On click of "All" option of the button bar, system retrieves and displays all the part consumption records including direct part consumption and pending return records in the left pane and the first record is selected and loaded in the right pane.

Pending Direct Consumption - On click of "Pending Direct Consumption" option of the button bar, system retrieves and displays all the direct part consumption records (i.e. records having no Issue reference) that are saved but not yet confirmed in the left pane and the first record is selected and loaded in the right pane.

Pending Return - On click of "Pending Return" option of the button bar, the system retrieves and displays all the normal part consumption records (i.e. records having an Issue reference) which have one or more quantity pending for excess return in the left pane and the first record is selected and loaded in the right pane.

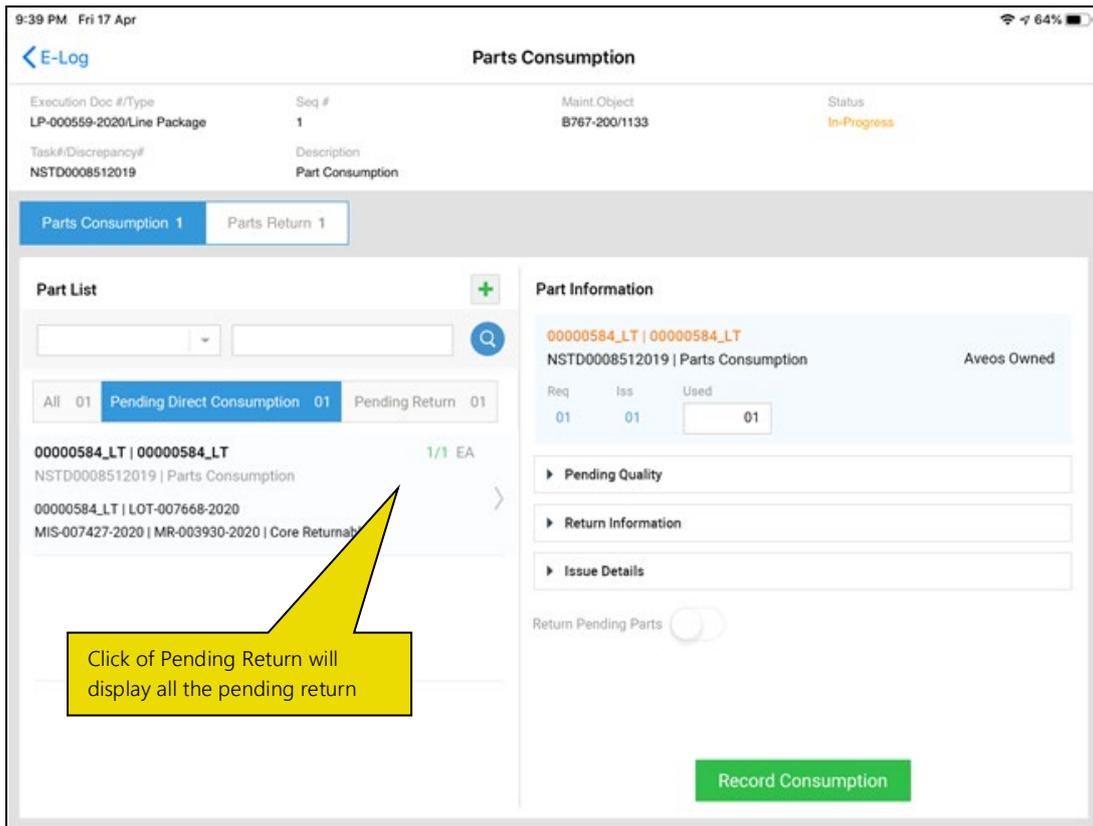
Search Logic

All - Based on the search input, the count of button bar vary accordingly. If user searched on with Part P1 in Parts Consumption tab in the Part List section, "All" tab should filter and fetch the part consumption details in which Part P1 is referred in the left pane and the first record is selected and loaded in the right pane. Display the count of same in the button bar 'All'.

Pending Direct Consumption - Based on the search input, the count of button bar varies accordingly. If user searched on with Part P1 in Parts Consumption tab in the Part List section, "Pending Direct Consumption" tab should filter and fetch the direct part consumption details (i.e. records having no Issue reference that are saved but not yet confirmed) in which Part P1 is referred in the left pane and the first record is selected and loaded in the right pane. The count of same is displayed in the button bar 'Pending Direct Consumption'.

Pending Return - Based on the search input, the count of button bar varies accordingly. If user searched on with Part P1 in Parts Consumption tab in the Part List section, "Pending Return" tab should filter and fetch the normal part consumption details (i.e. records having an Issue reference which has one or more quantity pending for excess return) in which Part P1 is referred in the left pane and the first record is selected and loaded in the right pane. The count of same is displayed in the button bar 'Pending Return'.

Exhibit 1: Identifies the Parts Consumption screen in MechanicAnywhere.



Ability to set Request Mode when raising Material Request from MechanicAnywhere

Reference: APRP-968

Background

Currently, the provision to set Request Mode when raising Material Request is available only in desktop. The requirement is to provide the ability to set the request mode when raising Material Request in MechanicAnywhere.

Change Details

Create Material Request

A new drop-down control "Request Mode" is added in 'Add New Parts' section. The Request Mode drop-down is loaded with the values 'Normal', 'Conditional Req.' and 'Force Req.'. By default the drop-down displays the values 'Normal'. The "Request Mode" control is displayed only if user selects AME package and perform material request in MechanicAnywhere. This enhancement is applicable for AME alone.



*Note: For the options selected above, the effectivity of the part is checked only if the "Part # - Model # Effectivity Check" drop-down list box is set as "Enforce" in the **Set Options** activity of the **Stock Maintenance** business component.*

Request Mode - Normal

If user enters Part details in **Create Material Request** screen and selects Request Mode as Normal and "Part # - Model # Effectivity Check" drop-down list box is set as "Enforce" in the **Set Options** activity of the **Stock Maintenance** business component and the entered part is not effective for the Aircraft Reg # or the Model #, then system will validate the user on tap of 'Add Part'.

Request Mode – Conditional Req.

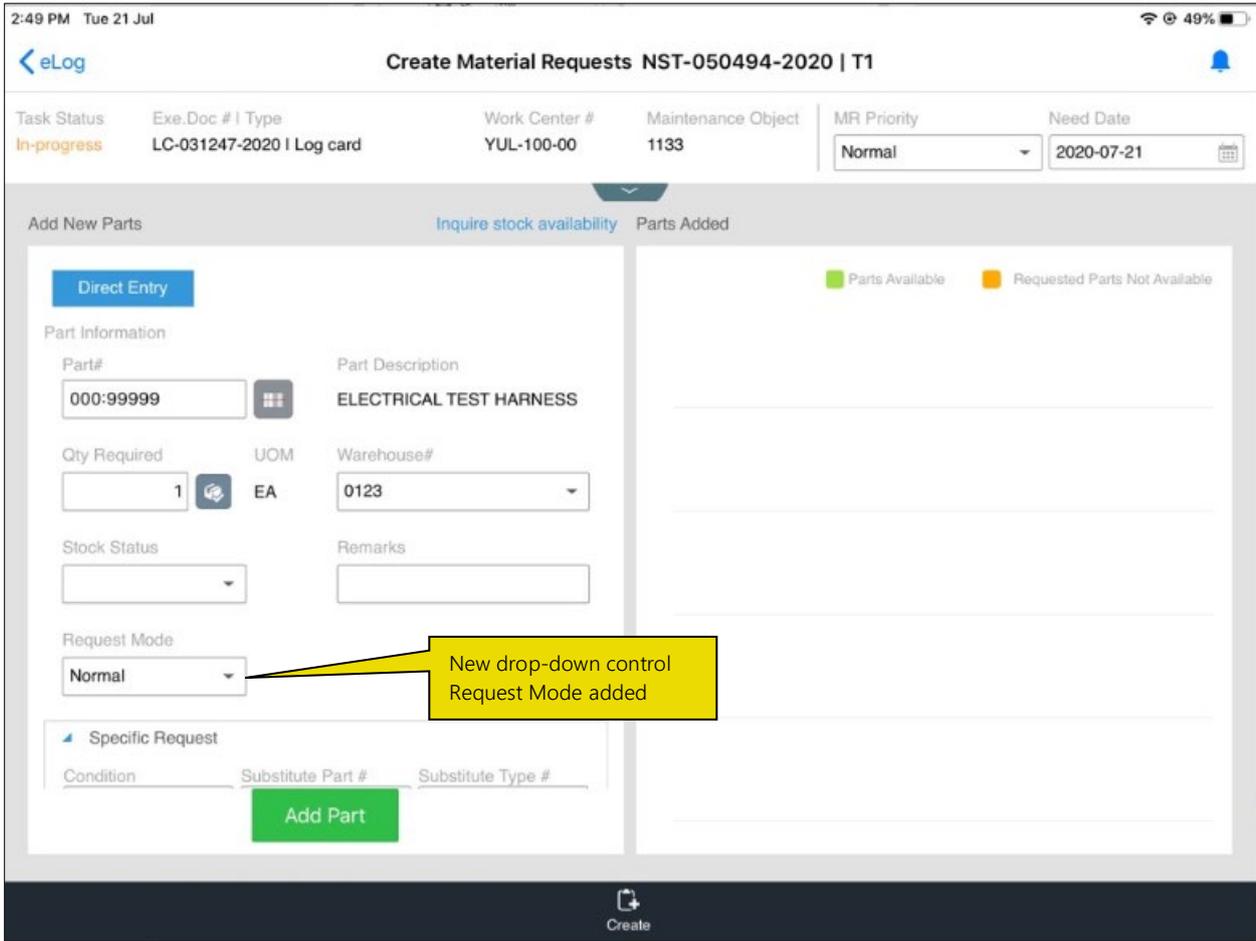
If user enters Part details in **Create Material Request** screen and selects Request Mode as 'Conditional Req.' and "Part # - Model # Effectivity Check" drop-down list box is set as "Enforce" in the "Set Options" activity of the "Stock Maintenance" business component and the entered part is not conditionally effective for the Aircraft Reg # or the Model #, then system will validate the user on tap of 'Add Part'.

Request Mode – Force Req.

If user enters Part details in **Create Material Request** screen and selects Request Mode as 'Force Req.' then

system saves the transaction on tap of 'Add Part', regardless of any effectivity.

Exhibit 1: Identifies the Parts Consumption screen in MechanicAnywhere.



Ability to default Alternate Part # toggle as ON when launching the Stock Inquiry screen

Reference: APRP-967

Background

This enhancement provides the ability to default Alternate Part # toggle as ON, when launching the Stock Inquiry screen in MechanicAnywhere App.

Change Details

Common Master

A new process parameter 'Default Alt. Part toggle in Stock Inquiry of MechanicAnywhere?' is added under the Entity Type 'Mobility' and Entity 'MechanicAnywhere' in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) Existing Behavior - System will not default 'Incl. alternates' toggle in **Stock Inquiry** screen of **MechanicAnywhere**
- 1 (Yes) - System will default 'Incl. alternates' toggle in **Stock Inquiry** screen of **MechanicAnywhere**

Stock Inquiry

If the process parameter "Default Alt. Part toggle in Stock Inquiry of MechanicAnywhere?" is set as "1" (Yes) and user launches **Stock Inquiry** screen, then default the 'Incl. alternates' toggle in "ON" position.

Exhibit 1: Identifies the Stock Inquiry screen in MechanicAnywhere

Stock Inquiry

Exec.doc type|Doc # Task #|Task name Work center #

Warehouse information

Storage location Warehouse # Zone # Bin #

Storage information

Mfr. Serial / Lot # Condition Trading Partner Type Trading Partner #

Display options

Incl. alternates Incl. qty in kit

Search **Clear**

Advance search ▲

Part list **Warehouse list**

Legend:
Ⓜ Alternate part Ⓛ Shelf life Ⓢ Hazmat part Ⓜ Service request warehouse Ⓜ Transfer matrix warehouse Ⓞ All other warehouse ● Free quantity ● Allocated quantity

Ability to manage notifications for shared devices in MechanicAnywhere

Reference: APRP-1100

Background

In an organization multiple mechanics may share one device during the execution of their work. Sometimes it is not easy for a mechanic to identify the notification belonging to him from the hundreds of notification. So there should be a way to manage the notifications in the shared devices as a convenient manner.

Change Details

- If the user has not logged out, then he/she will continue receiving push notifications even if the app is not running (closed/killed). This will work as long as the user is not logged out or another user took that iPad and logged in with the new credentials.
- Even the user logged out from device, still he can login and see the notifications in Notification Center. All the notifications will be saved in the Notification Center and user can see at any time after logging into MechanicAnywhere, but he will get the push notifications only if he is logged into the device.

Ability to view MR/CR count in eLog at Package level

Reference: APRP-672

Background

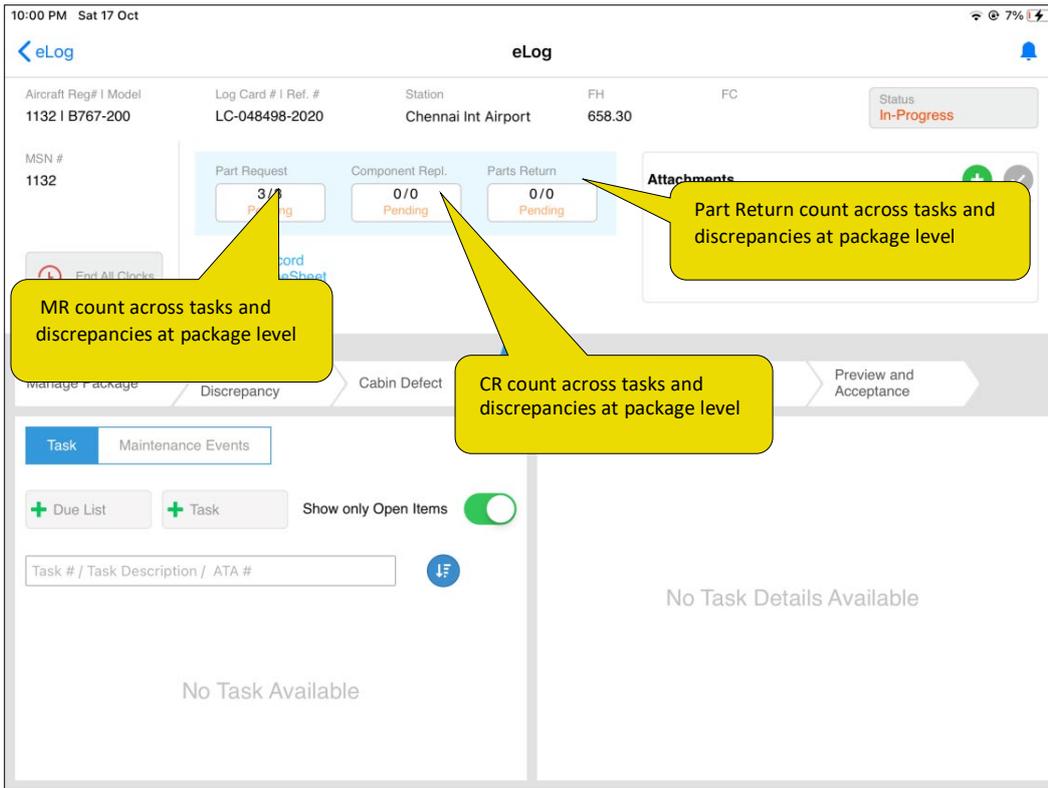
During completion or closure of a package, user would like to view the count of all pending Material Requests, Component Replacements and Part Returns of that package. Since we have Material Requests, Component Replacements and Part Returns counts at task/discrepancy it is difficult to find against which task/discrepancy the MR/CR is done in order to close before package completion.

Change Details

This enhancement brings a new provision wherein users can see Material Requests, Component Replacements and Part Return counts and status across tasks and discrepancies at package level.

- A new count display for Part Request, Component Repl. & Part Return which is similar to the ones in eLog – Task tab to be provided in the package header section in order to view the overall MR, CR & Part Return counts at package level
- User can tap on the respective counts to see the list of the Material Requests or Component Replacements or Part Returns in that package across all the tasks and discrepancies.

Exhibit 1: Identifies changes in 'eLog' of MechanicAnywhere



Reject Sign Off for Shop Work Order in MechanicAnywhere

Reference: APRP-666

Background

Sometimes when the Mechanic or Inspector is not satisfied with the work done, they cannot Sign Off/ Void that Task/ Discrepancy. In that case they will reject the Sign Off for Task/Discrepancy.

Change Details

Common Master

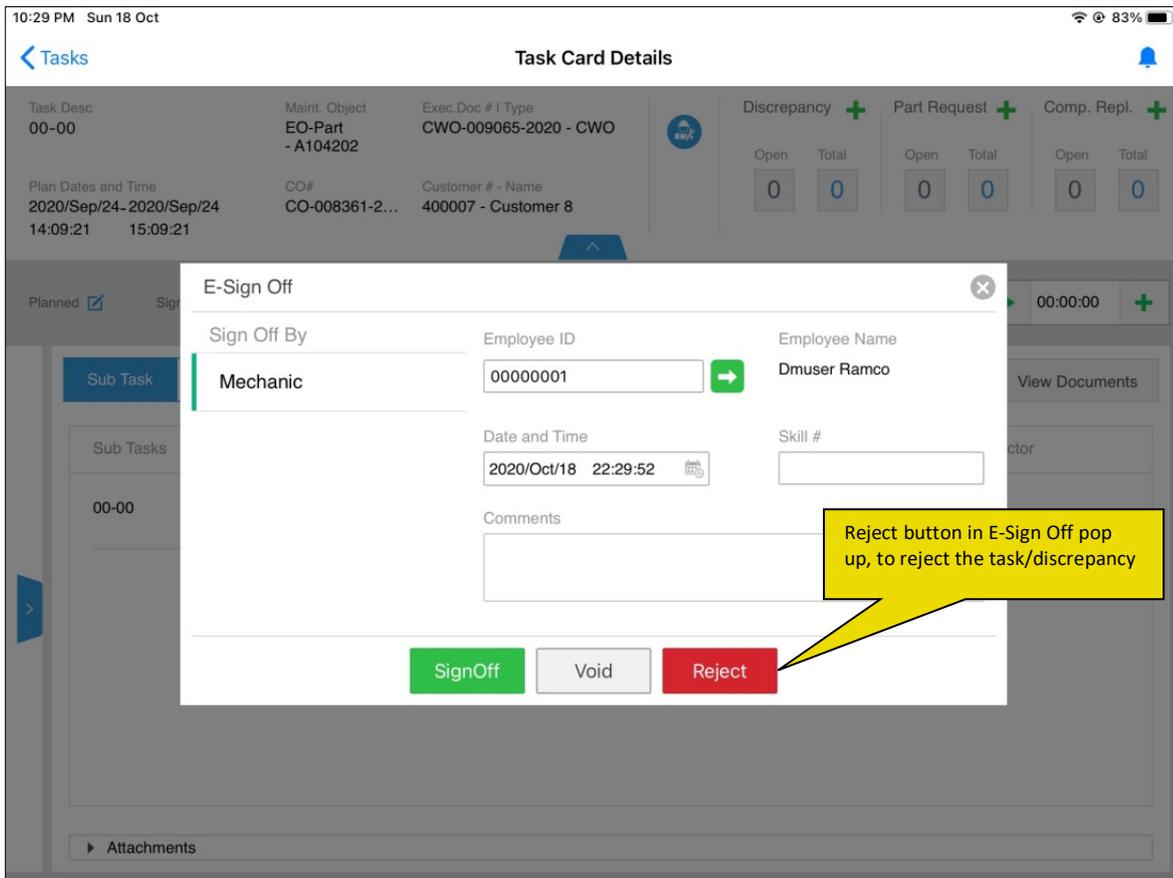
A new process parameter 'Restrict Rejecting of Sign Off for Shop Work Order in MechanicAnywhere?' has been introduced under the Entity Type 'Mobility' and the Entity 'MechanicAnywhere' in the **Define Process Entities** activity of **Common Master** with the following permitted values:

- 0 (No) - System will show the reject button for shop work order tasks and discrepancies
- 1 (Yes) Existing Behavior - System will hide the 'Reject' button and user can not reject a task/discrepancy.

E-Sign Off pop up

Add a new 'Reject' button in E-Sign Off popup for Shop Work Order Tasks and Discrepancies to reject a Task/Discrepancy. If the user sets the value for the set option 'Restrict Rejecting of Sign Off for Shop Work Order in MechanicAnywhere?' as '0' for No, the Reject button will appear in the E-Sign Off pop up for the shop work order tasks/discrepancies and user can reject the same.

Exhibit 1: Identifies changes in 'E-Sign Off' pop up of MecanicAnywhere for shop work order tasks and discrepancies.



Ability to specify the component details while recording discrepancy through MechanicAnywhere

Reference: APRP-216

Background

In **Aircraft Maintenance execution** screen where user can manually create and work on Aircraft as well as Component applicable discrepancies, currently user can enter the component details for a discrepancy in 'Action Change' pop for the 'Part Change – Close' action. But it will be very useful if the user can give the component details at the time of creation of discrepancies itself.

Change Details

This enhancement brings the ability to capture the component details at the time of creation of the discrepancies. User can see the component details from the eLog as well as the **Edit Discrepancy Card** popup.

User can capture the component details from **Create Discrepancy** screen and **Record Discrepancy Write up** popup. User can edit the component details from Create Discrepancy screen, **Record Discrepancy Write up** popup and **Edit Discrepancy Card** popup.

Exhibit 1: Identifies changes in in Maint./Discrepancy tab of eLog' of MechanicAnywhere.

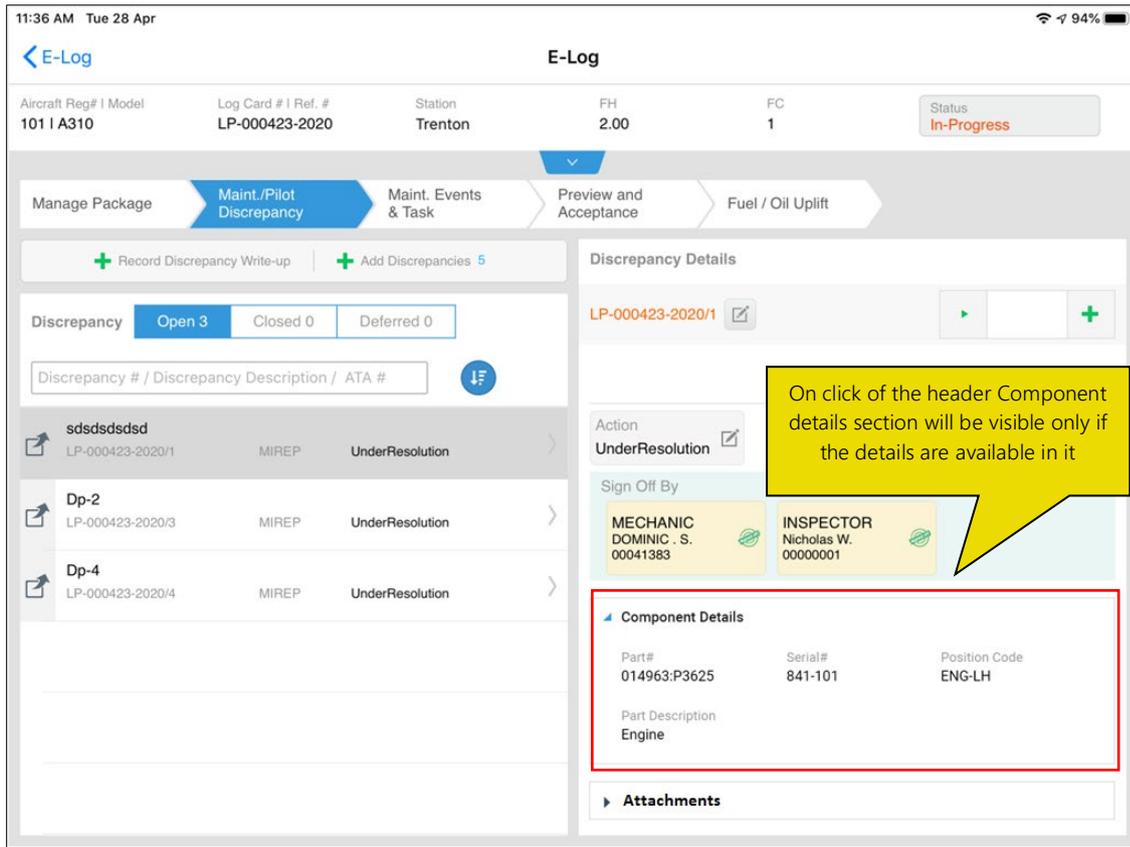


Exhibit 2: Identifies changes in in Discrepancy Card of MechanicAnywhere.

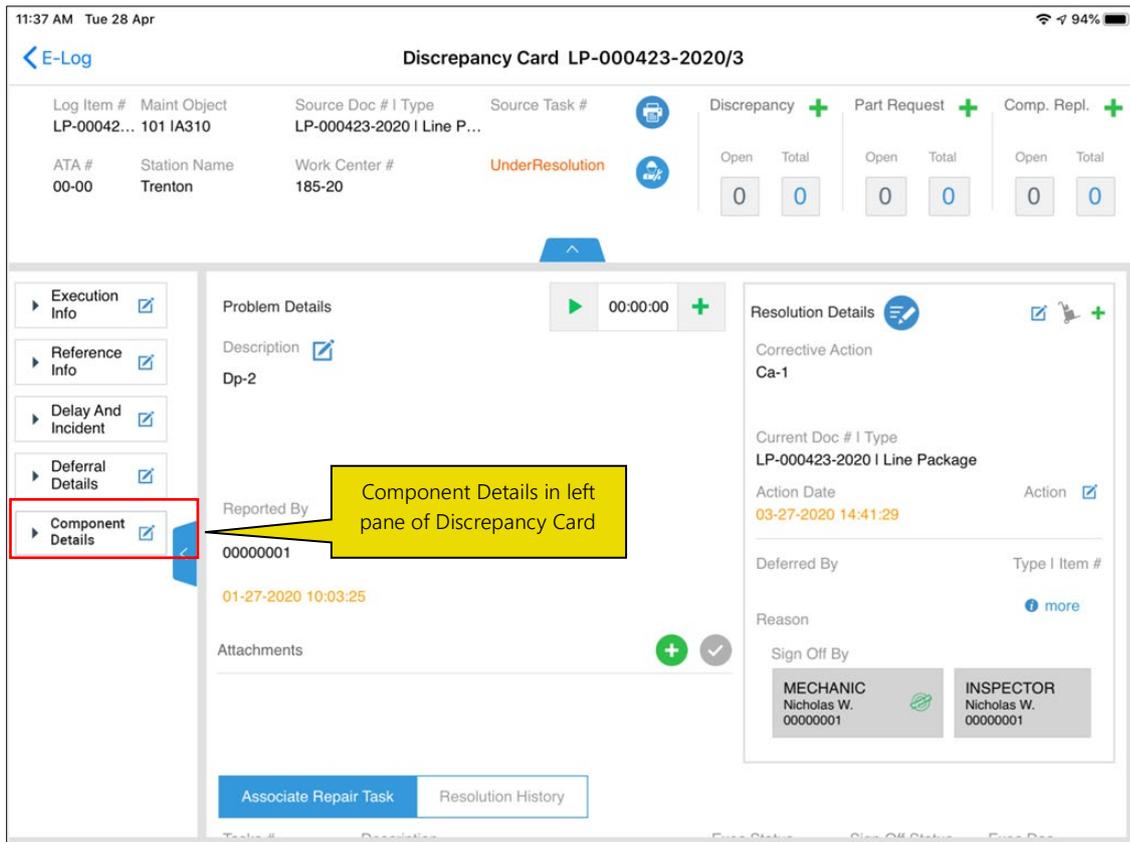


Exhibit 3: Identifies changes in in Edit Discrepancy Card pop up of MechanicAnywhere.

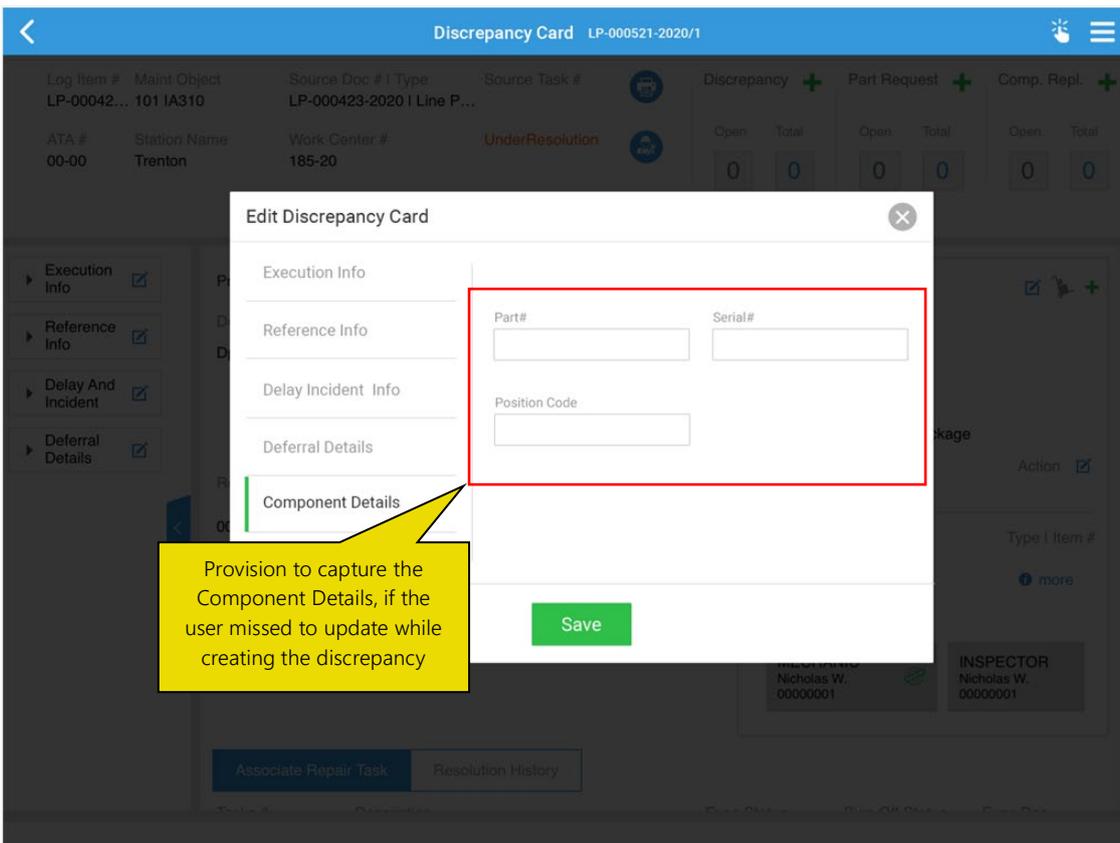


Exhibit 4: Identifies changes in in Create Discrepancy screen of MechanicAnywhere.

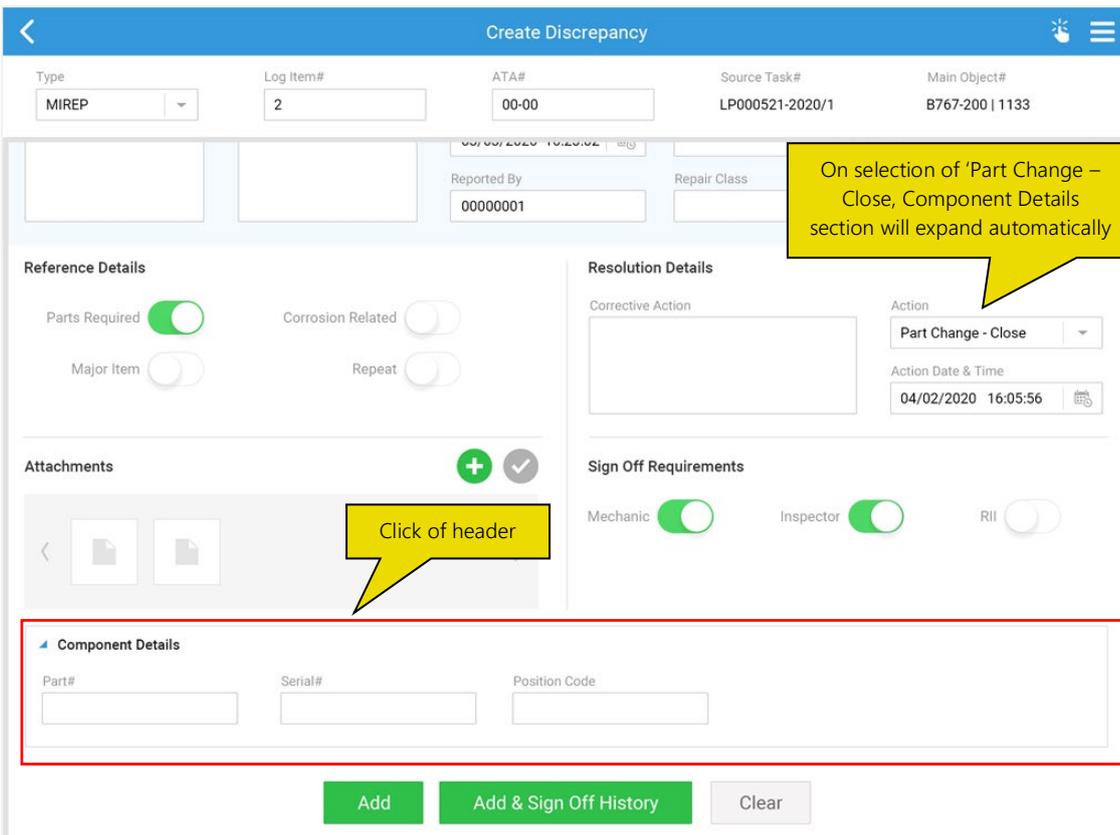
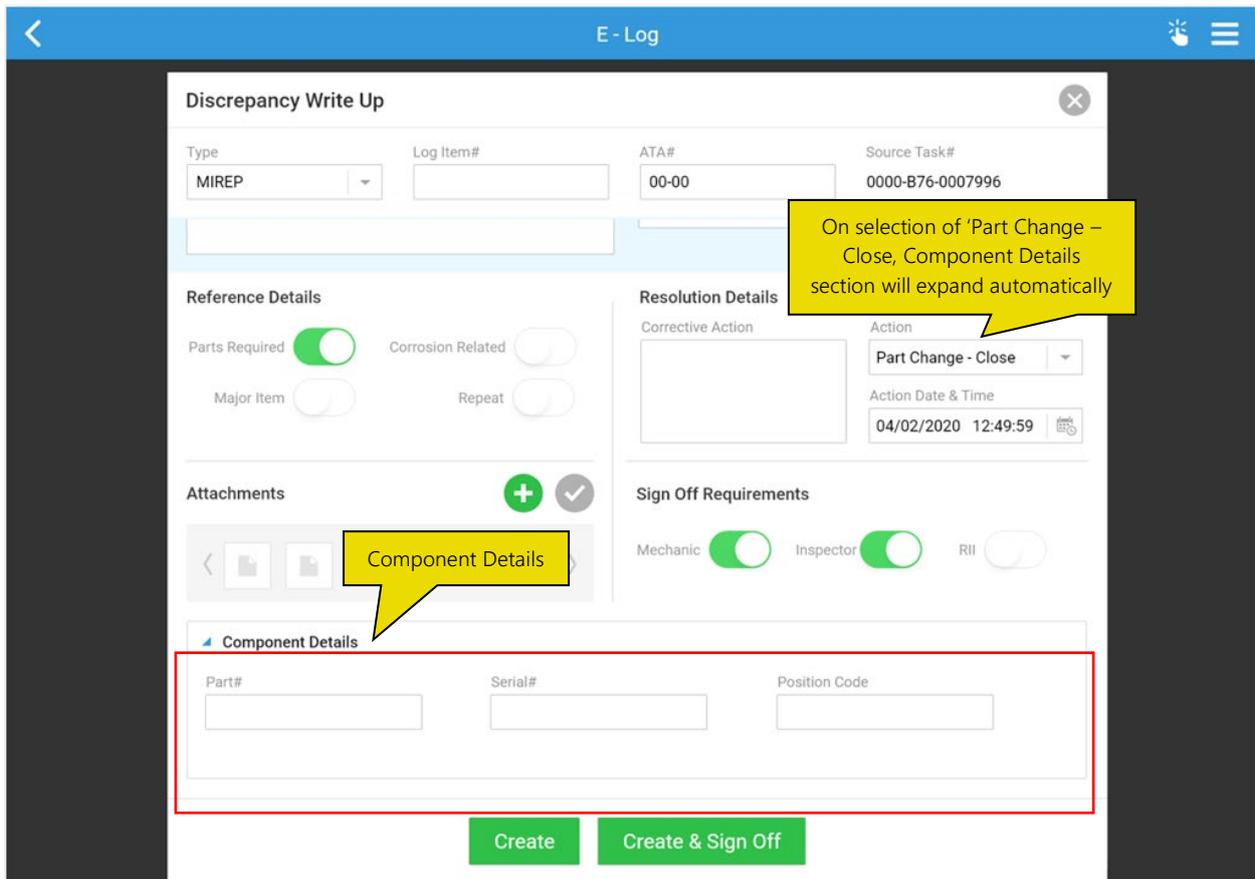


Exhibit 5: Identifies changes in Discrepancy Write Up pop up of MechanicAnywhere.



Ability to control Void/Reversal of Sign Off for both AME and SWO in MechanicAnywhere based on set options

Reference: APRP-206

Background

Sign off is one of the major actions when working on a Task/Discrepancy. In some cases, we need to limit certain users from Void/ Reversal actions during Sign Off.

Change Details

A new process parameter "Restrict Voiding of Sign Off in MechanicAnywhere?" is added under the Entity Type 'Mobility' and Entity 'MechanicAnywhere' in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) Existing Behavior - System will allow to void the Task/Discrepancy, the Void button will be visible and user can void the Task/Discrepancy.
- 1 (Yes) - System will not allow to void the Task/Discrepancy, the Void button will be hidden.

A new process parameter "Restrict Reversal of Sign Off in MechanicAnywhere?" is added under the Entity Type 'Mobility' and Entity 'MechanicAnywhere' in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) Existing Behavior - System will allow to reverse the sign off for Task/Discrepancy, the 'Reverse' button will be visible and user can reverse the sign off for Task/Discrepancy.
- 1 (Yes) - System will not allow to reverse the sign off for Task/Discrepancy, the 'Reverse' button will be hidden.

Exhibit 1: Identifies changes in 'E-Sign Off' pop up of MecanicAnywhere.(Restricting Void)

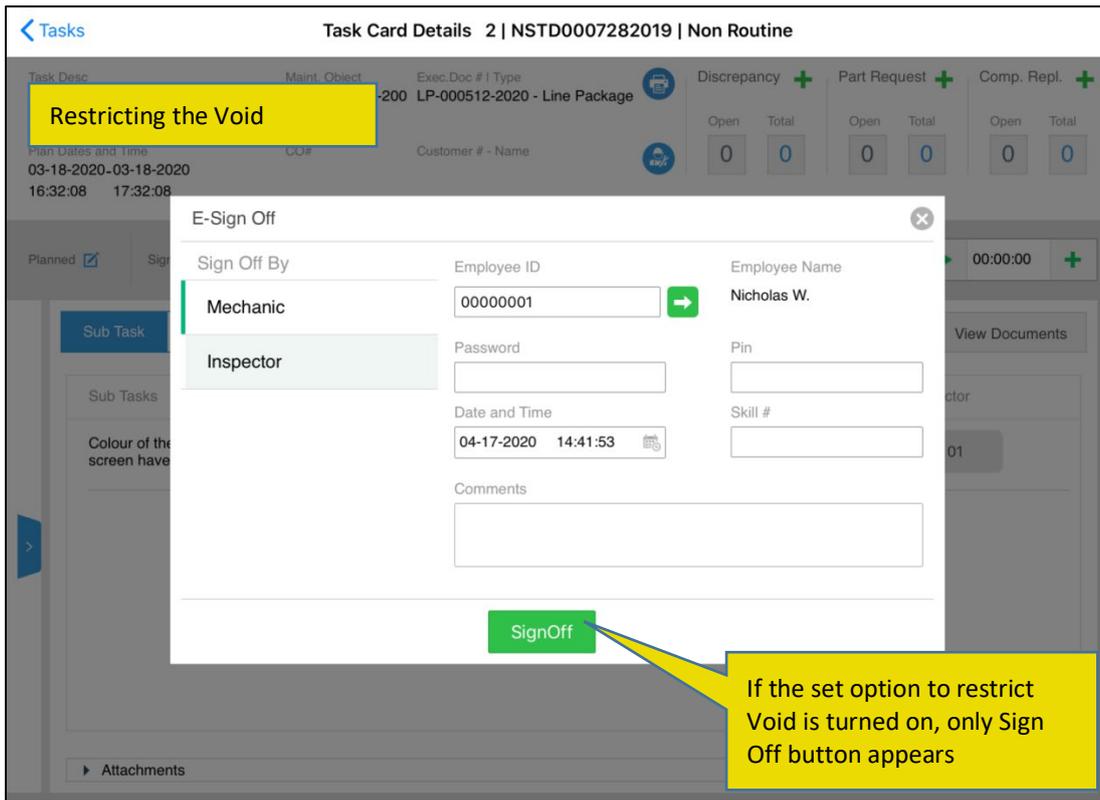
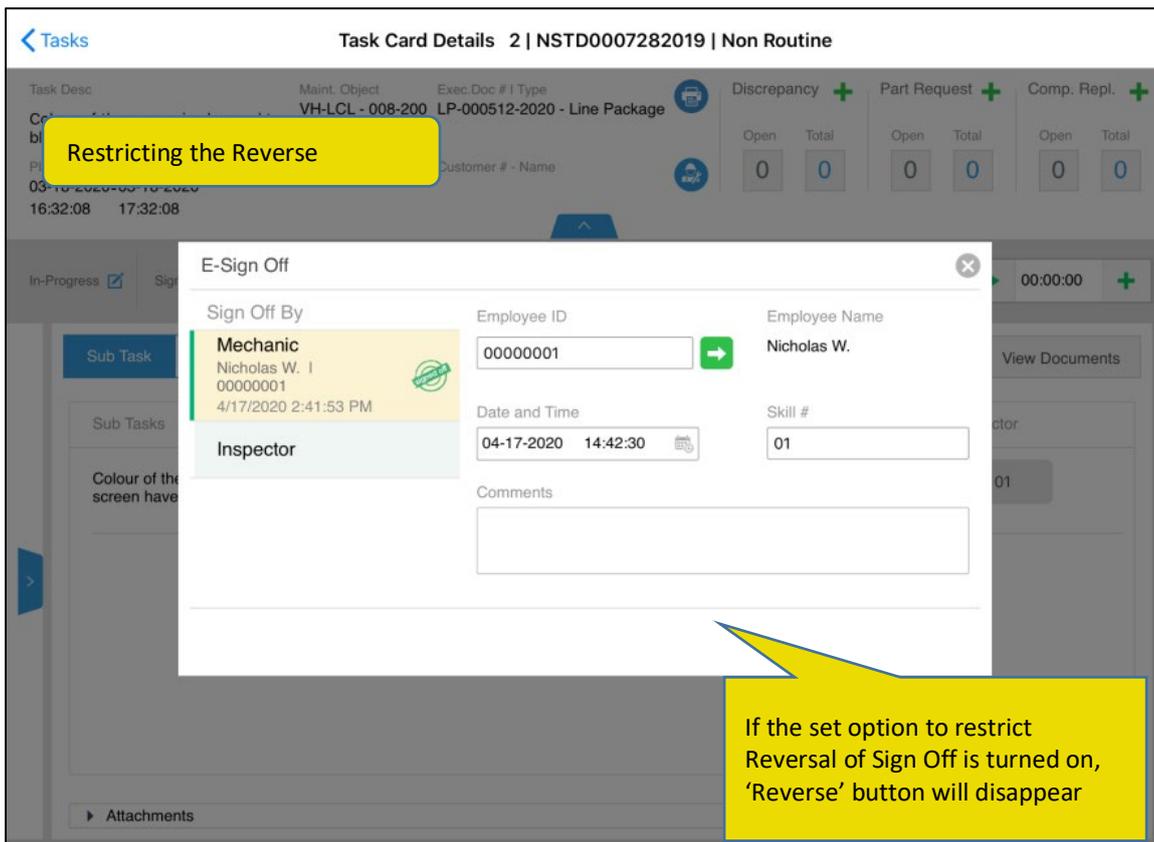


Exhibit 2: Identifies changes in 'E-Sign Off' pop up of MecanicAnywhere.(Restricting Reversal of Sign Off)



Ability to print Task/Discrepancy Card from eLog in Bulk in MechanicAnywhere

Reference: APRP-548

Background

Task cards and discrepancy cards printing is a core part of Aircraft Maintenance Execution. While the same is available on the desktop, the mobile provided a digital interface for executed that allowed the user to forego the package print and go fully digital. But for users, it is still beneficial to take a print for performing tasks that require detailed instructions. So there should be a provision to print the task cards/discrepancy cards from MechanicAnywhere as well.

Change Details

This enhancement brings the ability to select task/discrepancies and print those cards as a bulk. User can see the status of printing in the header section of eLog and can print the latest generated print by tapping on the 'View Doc.' icon.

- A new 'Select' icon added in the 'Maint. Events &Tasks' and 'Maint./Pilot Discrepancy' tab of E-Log screen for bulk printing of Tasks and Discrepancies.
- On tap of the select icon, 'check boxes' and 'Print' button will enable.
- User can select the check boxes of tasks/Discrepancies, which need to be printed.
- On tap of Print, the printing of selected Tasks/Discrepancies will be initiated.
- Once generated the print, user can see the PDF document by tapping on the 'View Doc.' button. User can also print/export the PDF.
- Last generated date and time will show under the 'View Doc.' button (View Doc' icon will show only for the Login User who initiated the Printing).
- If user not yet generated any print for a package, then the status will be like 'Not Generated'.
- Once the user selects and tap on the 'Print, button, then the status will be 'Under Generation'.
- Once the PDF is generated, then 'Last Generated Date and Time will show instead of status.
- If any errors occurred then the status will be 'Error'. User can tap on the status and see the corresponding error in the popup.



Note: This feature is applicable only for Patria.

Exhibit 1: Identifies changes in 'eLog' header of MecanicAnywhere.

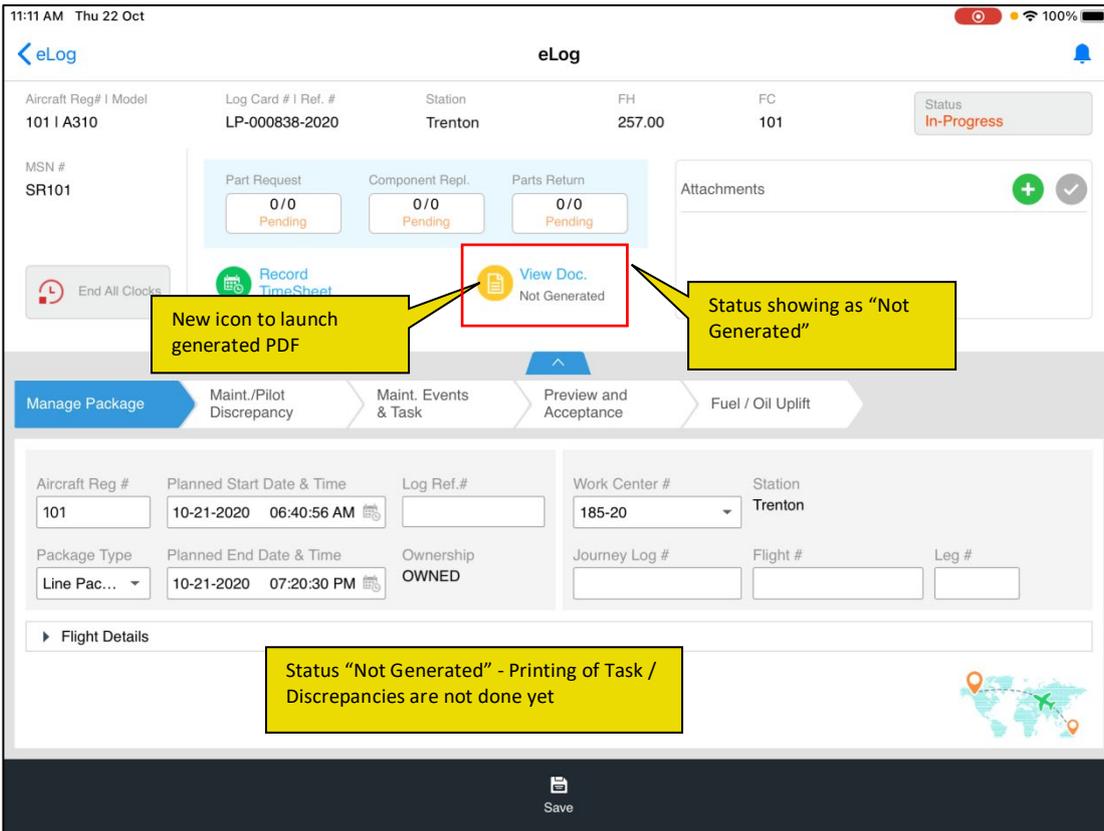


Exhibit 2: Identifies changes in 'Maint. Events & Task' / 'Maint./Pilot Discrepancy' tab' of eLog screen

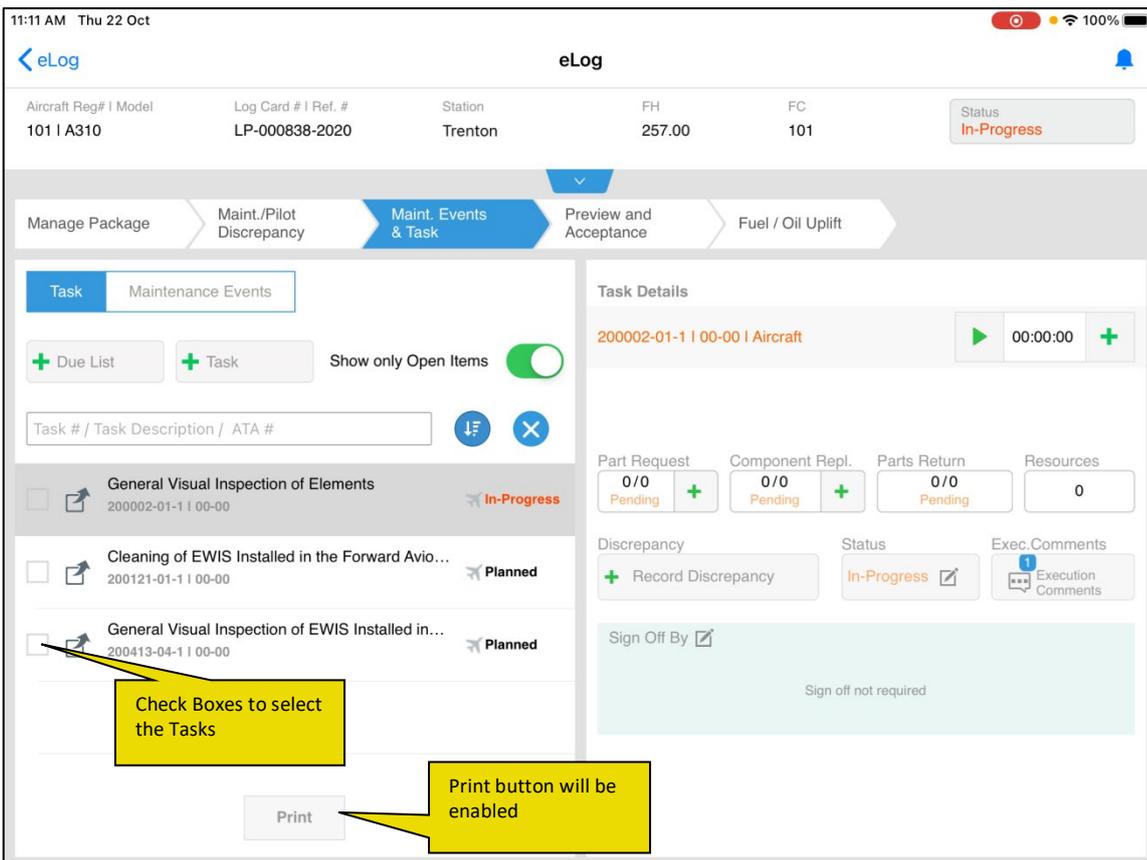


Exhibit 3: Identifies changes in 'eLog' header after tap on Print

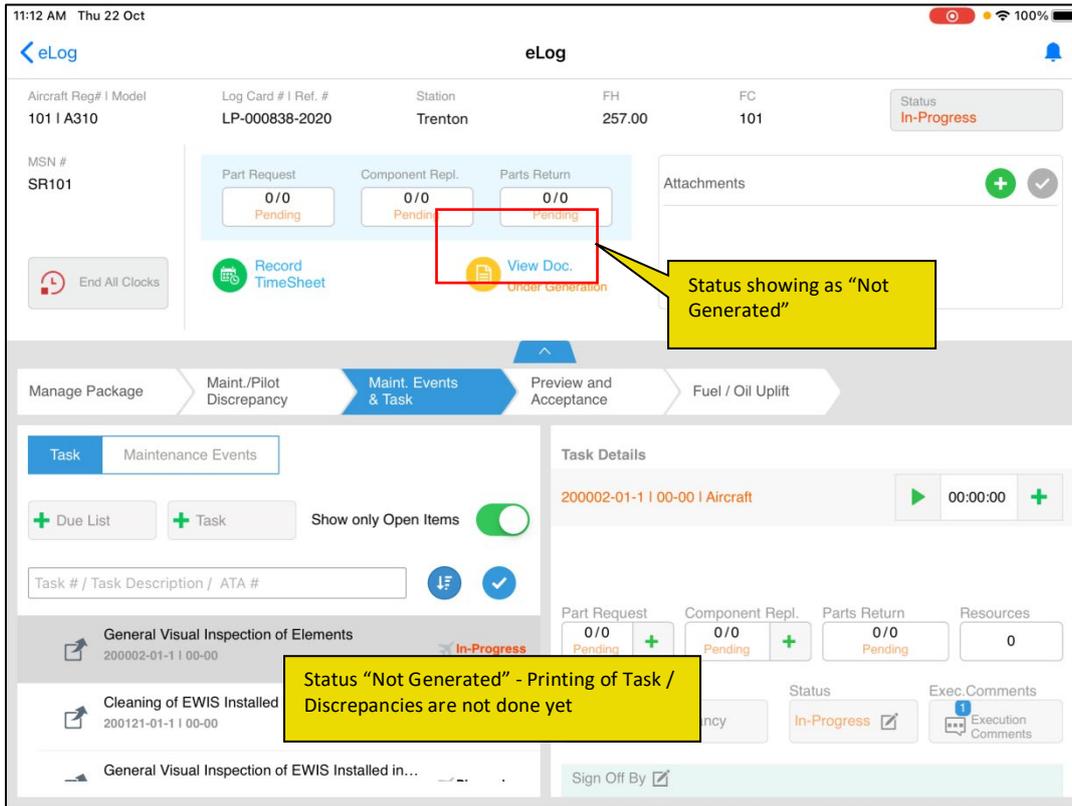
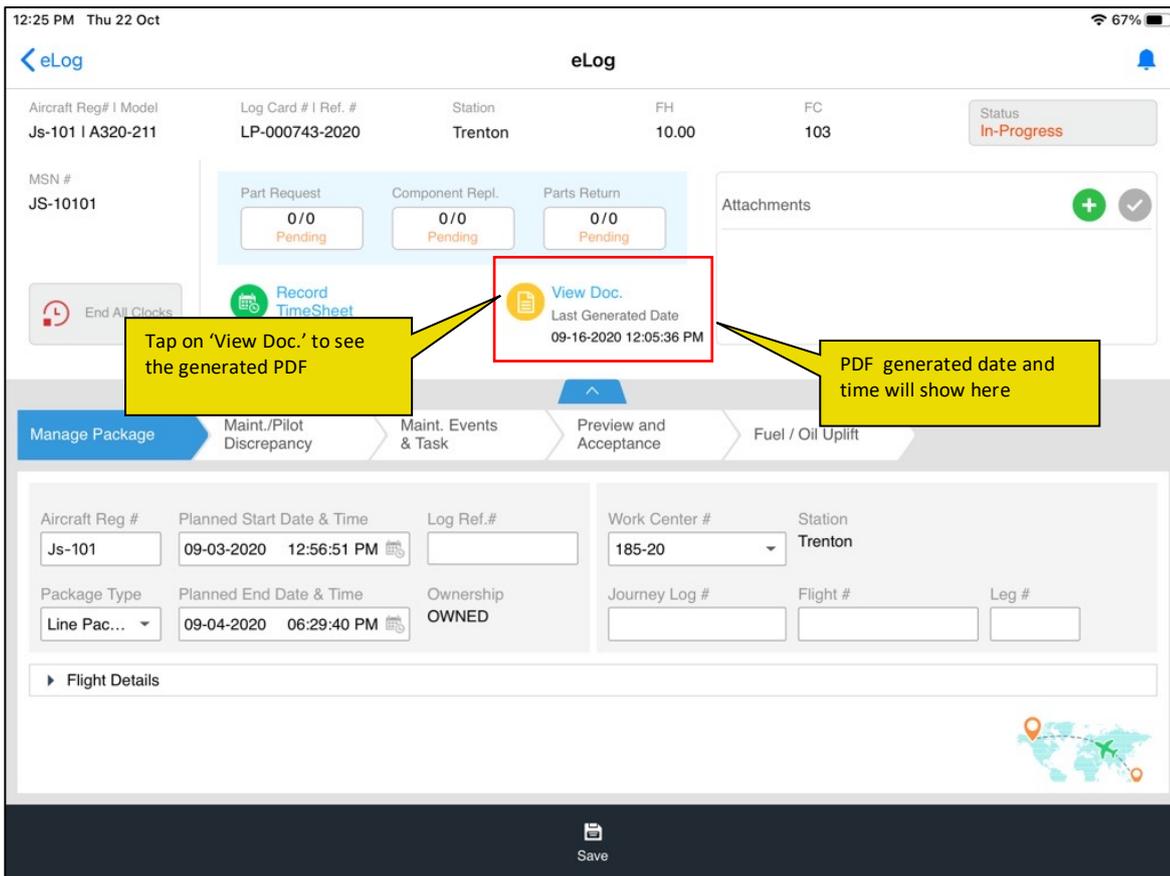


Exhibit 4: Identifies changes in 'eLog' header after generated the print.



Provision to validate the Model # and License # while generation of CoM based on option setting in MechanicAnywhere

Reference: APRP-262

Background

At the time of issuing the Certificate of Maintenance, the system should check whether the Mechanic is authorized to work on the particular Aircraft Model # or not. If the mechanic did not have any license # to work on the Aircraft Model # then there should be a provision to restrict the issue of Certificate of Maintenance. In this enhancement the system will validate the License # based on Aircraft Model # which is mapped to the skill of an employee while creating the CoM based on option setting in MechanicAnywhere.

Change Details

A new process parameter "Validate Aircraft Model # while generating CoM in MechanicAnywhere?" is added under the Entity Type 'Mobility' and Entity 'MechanicAnywhere' in the **Define Process Entities** activity of the **Common Master** business component with the following permitted values:

- 0 (No) Existing Behaviour – System will not validate for License # based on Aircraft Model # which is mapped to the skill of an employee
- 1 (Yes) – System will validate if Aircraft Model # is not mapped to the provided Skill # and License # in **Record Employee license Information** screen.

If the user sets the process parameter "Validate Aircraft Model # while generating CoM in MechanicAnywhere?" as "1" for "Yes", then system will check whether the Skill # which is mapped to the Licence # is mapped to the Aircraft Model # or not. If there is no mapping then the system will validate.

WHAT'S NEW IN LINEANYWHERE?

Ability to generate replenishment MR for the part requirements added against a discrepancy in LineAnywhere

Reference: APRP-688

Background

When a discrepancy is deferred due to reasons like part not available, users enter the Part # info while deferring. Once this discrepancy is added to another package, the part which was not available earlier should be available for the mechanics to work on.

Hence, a provision is required to generate Material Request for a discrepancy deferred with part requirements entered so that next time when the same discrepancy is added to another package, the part will be available for the mechanic to work on. Additionally, the Material Request generated should be a Replenishment Material Request and not a Maintenance Material Request as there are chances when the aircraft can be flown to other destination even though a Material Request is raised. The need is to just replenish the quantity of the part which was not available in stock for the discrepancy execution.

Change Details

To facilitate the generation of Replenishment Material Request from LineAnywhere, the following additions have been incorporated in Ramco Aviation:

- New process parameter to generate a Replenishment MR on discrepancy deferral from LineAnywhere is introduced under Entity Type: 'Package Type' and Entity: All user defined packages types including Log Card in the **Define Process Entities** activity of **Common Master** business component.

Process Parameter	Value	Impact in Smart Actions
Auto generate Replenishment Material Request on Discrepancy Deferral from LineAnywhere?	'0' for 'No'	System will not generate Replenishment Material Request on Discrepancy Deferral from LineAnywhere.
	'1' for 'Yes'	System will generate Replenishment Material Request on Discrepancy Deferral from LineAnywhere.

- On setting the process parameter above as '1' for the current package type, if the user has entered part requirements while deferring a discrepancy, then on transfer and processing of the package,

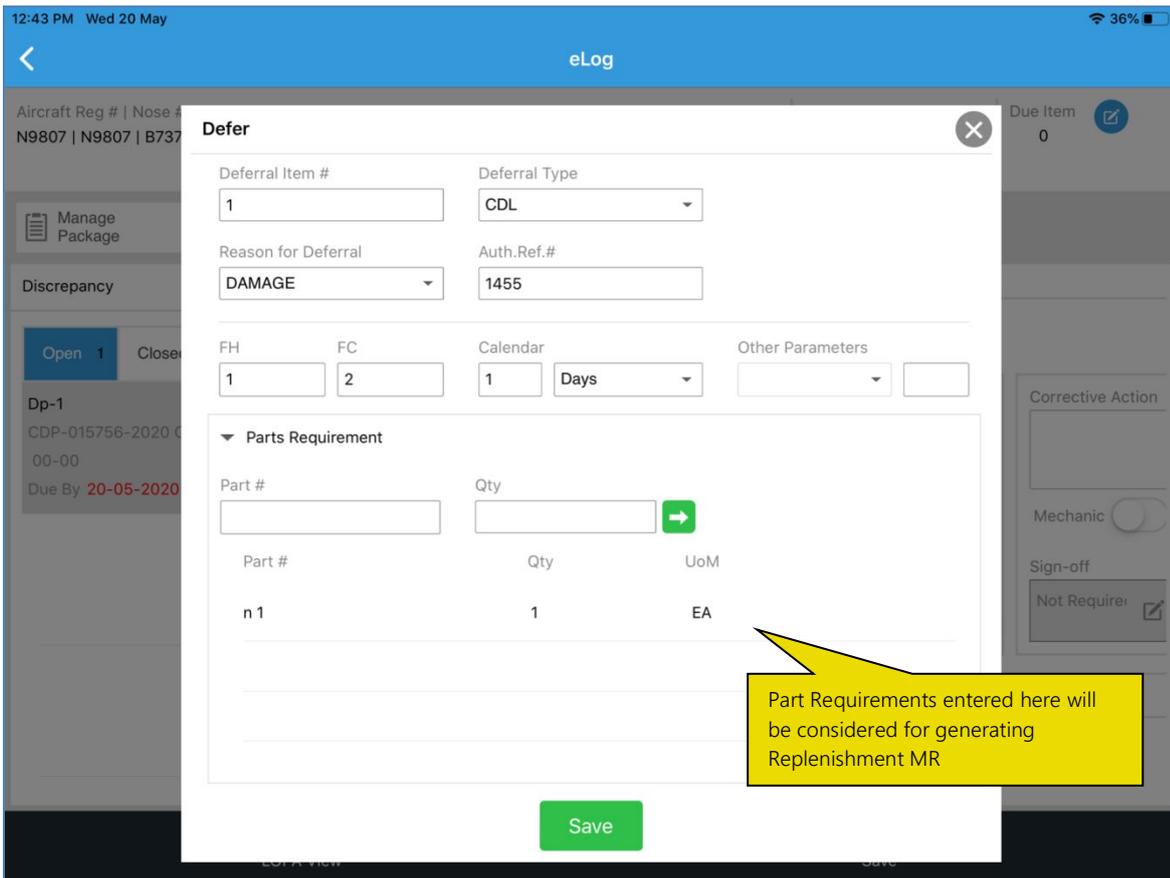
Replenishment MR will be generated.

- On transfer of the package that consists the deferred discrepancy, Material Request will be generated of the MR Class 'Replenishment' with Ref. Document # as the corresponding Package # having the deferred discrepancy in the Service Request Warehouse associated to the work center of the discrepancy only for the newly added parts requirements.
- Newly generated Replenishment MR from LineAnywhere will have the Remarks control of the corresponding MR shown as "Auto generated for Discrepancy # <%1> deferred from LineAnywhere."

Note:

1. *Replenishment MR will not be raised again for already raised parts.*
2. *Any modification done to the parts for which Replenishment MR is already raised will be not be considered.*
3. *Replenishment MRs which are generated will not get short closed automatically on discrepancy closure. It will be closed only if all the part requirements in the Replenishment MRs are fully satisfied.*
4. *If more than 1 part is saved while deferring, all the parts will be consolidated and only one Replenishment MR will be raised.*
5. *Replenishment MRs generated from LineAnywhere will not have any linkage to the package related screens in the desktop. It can be viewed only from View Material Request screen using the Package # as Ref Document # search criteria.*

Exhibit 1: Identifies the Defer popup in LineAnywhere



Ability to record Fuel Oil Consumption in LineAnywhere

Reference: APRP-566

Background

Mechanics usually inspect the Fuel and Oil levels of an aircraft before every departure and uplift the Fuel and Oil based on the flight requirements. These fuel and oil details, i.e. fuel and oil readings before the arrival of the aircraft, the fuel and oil readings being uplifted and the final readings of fuel and oil in the aircraft, must be captured.

A new provision is required to capture the fuel and oil uplift for an aircraft from LineAnywhere when Maintenance execution is carried out.

Change Details

To facilitate the capture of Fuel/Oil uplift from LineAnywhere, the following changes have been made.

- New tab: **Fuel/ Oil Uplift** is introduced in eLog screen of LineAnywhere.
- New process parameter to display Fuel / Oil Uplift Tab in eLog screen of LineAnywhere is introduced under Entity Type 'Package Type' and Entity 'All user defined packages types including Log Card' in the **Define Process Entities** activity of **Common Master** business component.

Process Parameter	Value	Impact in Smart Actions
Display Fuel/Oil Uplift Tab in eLog screen of LineAnywhere App?	'0' for 'No'	System will not show Fuel/Oil Uplift tab in eLog screen of LineAnywhere App
	'1' for 'Yes'	System will show Fuel/Oil Uplift tab in eLog screen of LineAnywhere App

- Fuel/ Oil Uplift tab will have two sections :
 - Fuel Distribution & Fuel Usage Details
 - Oil Uplift & Hydraulic Uplift
- Fuel Distribution and Hydraulic Uplift tabs will be shown only if there is an Item Description defined for Item Type: Fuel and Hydraulic respectively for the corresponding Aircraft Model # and Configuration Class combination of the Aircraft Reg #. Oil Uplift tab will show both Item Description defined for Item Type Oil and also from configuration by considering only Position Type with Engine and APU.
- Multiple Fuel/Oil Log # can be captured by tapping on the '+' icon. All the Fuel/Oil Log # captured against the respective Package # will be loaded in the combo Fuel/Oil Log #.

- 'Engine', 'APU', & 'Others' icons will be shown based on the following Position Types: Engine, APU and Landing Gear, Cabin & Others shown as 'Others' icon which is depicted in the legend section beneath.
- Values can be entered under Fuel Distribution / Fuel Usage Details / Oil Uplift/ Hydraulic Uplift tabs and then tap on Save to record a new Fuel/Oil Log # transaction.
- All the Fuel/Oil Log # recorded in LineAnywhere, on successful transfer of package, will show the respective 'Fuel/Oil Log #' in desktop under **Flight Log** business component.

Exhibit 1: Identifies the new **Fuel/Oil Uplift** tab in eLog: **Fuel Distribution & Oil Uplift**

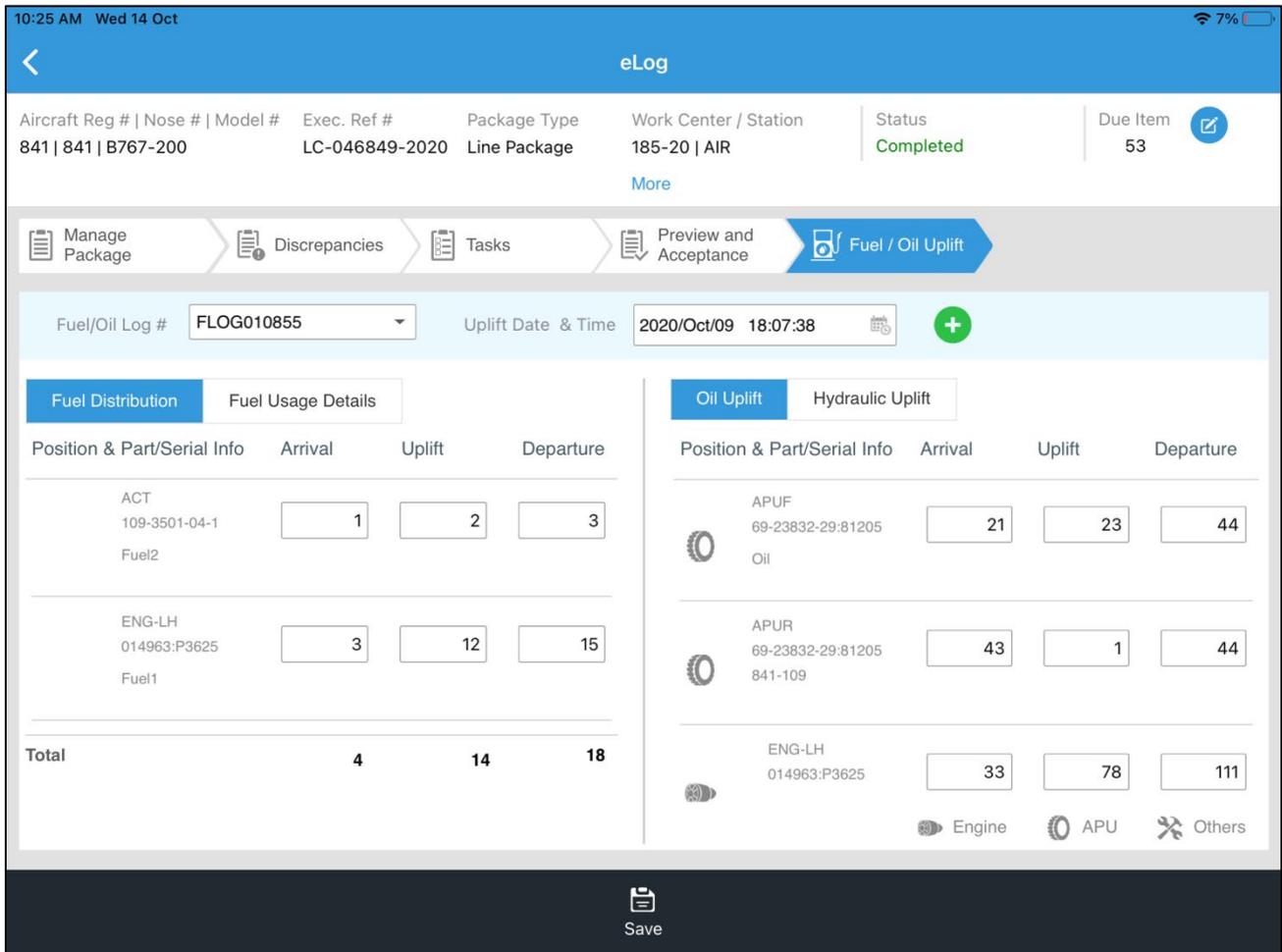


Exhibit 2: Identifies the new Fuel/Oil Uplift tab in eLog: Fuel Usage Details & Hydraulic Uplift

10:25 AM Wed 14 Oct
7%

<
eLog

Aircraft Reg # Nose # Model #	Exec. Ref #	Package Type	Work Center / Station	Status	Due Item
841 841 B767-200	LC-046849-2020	Line Package	185-20 AIR	Completed	53

More

Manage Package
 Discrepancies
 Tasks
 Preview and Acceptance
 Fuel / Oil Uplift

Fuel/Oil Log # FLOG010855
Uplift Date & Time 2020/Oct/09 18:07:38
+

Fuel Distribution
Fuel Usage Details

Fuel Type	Fuel Receipt #	Tracking UOM
ATF-K10	zx/23	DZ
Uplift From	Trading Parter #	Fuel Transfer Details
Internal Stock		
Uplift for Internal Use	Uplift for Customer Use	Customer #
2	0	
Usage Category	Remarks	
	Hghgh	

Oil Uplift
Hydraulic Uplift

Position & Part/Serial Info	Arrival	Uplift	Departure
EDP 10-60470-5:81205	3	5	8
Hydraulic			

Engine
 APU
 Others

Save

Ability to Clock On/Off and Record Direct and Indirect Time in LineAnywhere

Reference: APRP-559

Background

A mechanic carrying out maintenance activities in LineAnywhere also needs to book time against the respective task/discrepancy he/she is working on and also if an indirect time regarding a Training/Meeting etc. also needs to be captured while working offline in LineAnywhere application. Currently LineAnywhere does not have a provision to book time against a task, discrepancy or book indirect time.

A new provision is required wherein users can book timesheet against task, discrepancy or book an indirect time, review and modify timesheet record from LineAnywhere.

Change Details

To facilitate the recording direct and indirect time from LineAnywhere, the following additions have been incorporated in Ramco Aviation:

- New icon: **Record Indirect Time** introduced in eLog at package header level which will launch Record Indirect Time popup for recording Indirect Time
- New icons: **Record Timesheet** introduced at Tasks tab and Discrepancies tab which enables clocking, viewing time and launching Record Direct Time popup for recording manual Direct Time
- Timesheet booked from LineAnywhere will be saved in Draft version and on synching Online; timesheet will be booked in the corresponding status as set in the Process Parameter if no validations pertain.
- New process parameter to display Record Timesheet icons in eLog screen of LineAnywhere is introduced under Entity Type 'Mobility' and Entity 'LineAnywhere' in the **Define Process Entities** activity of **Common Master** business component.

Process Parameter	Value	Impact in Smart Actions
Enable Timesheet reporting in LineAnywhere?	'0' for 'No'	System will hide clock icons in eLog Tasks and Discrepancies tabs and also Record Indirect Time in eLog
	'1' for 'Yes'	System will show clock icons in eLog Tasks and Discrepancies tabs and also Record Indirect Time in eLog

Record Direct Time

- New icons for Record Direct Time for Task are provided in the eLog - Tasks tab and for Discrepancy in the eLog - Discrepancies tab under the Discrepancy Details tab in the header section. The three icons are as follows:
 - **Start/Stop clock icon:** Tap on Start clock to start time for a task/discrepancy. Tap on Stop Clock to record the time
 - **Time duration:** Shows the total time recorded for a task/discrepancy.
 - **Add icon:** Tap here to record a direct time for task/discrepancy. Record Direct Time popup launches with the respective task/discrepancy reference defaulted. Enter relevant details in the Record Direct Time popup and tap Save in order to record a direct time.
- On recording a direct time, Unique Identifier # will be captured in order to distinguish each time recording and the Booking Type will be captured as AME.

Record Indirect Time

- New link Record Indirect Time is provided in the eLog header. Tap on the Record Indirect Time link to launch Record Indirect Time. Enter relevant details in the Record Indirect Time popup and tap Save in order to record an indirect time.
- On recording a direct time, Unique Identifier # will be captured in order to distinguish each time recording and the Booking Type will be captured as AME.

Error Correction of Time Recording

- Any timesheet errors thrown during the transfer of Packages will be shown on Validate/Transfer in LineAnywhere. Each Error Message will be shown with the Unique Identifier # that was captured during the time recording along with a Timesheet label.
- Error Messages can be tapped and Modify Direct Time / Modify Indirect Time popup will be launched based on the time recording done if it is a Direct Time / Indirect Time respectively.
- In case not rectified in LineAnywhere app, the package can be force transferred and then rectified from desktop **Transfer Work Package Log** screen. A new column **Timesheet Errors** is introduced wherein all timesheet related errors counts will be shown. On tapping of the error counts, against the Error Entity Type: Timesheet, error messages will be shown based on the Error Entity Ref # which shows the captured Unique Identifier #.
- Each Error Messages can be rectified using the newly added attributes in the **Manage Transfer Info** popup.

Only on successful transfer of packages, timesheet will be booked in the corresponding status as set in the Process Parameter if no validations pertain.

Exhibit 1: Identifies the new Record Indirect Time link in eLog

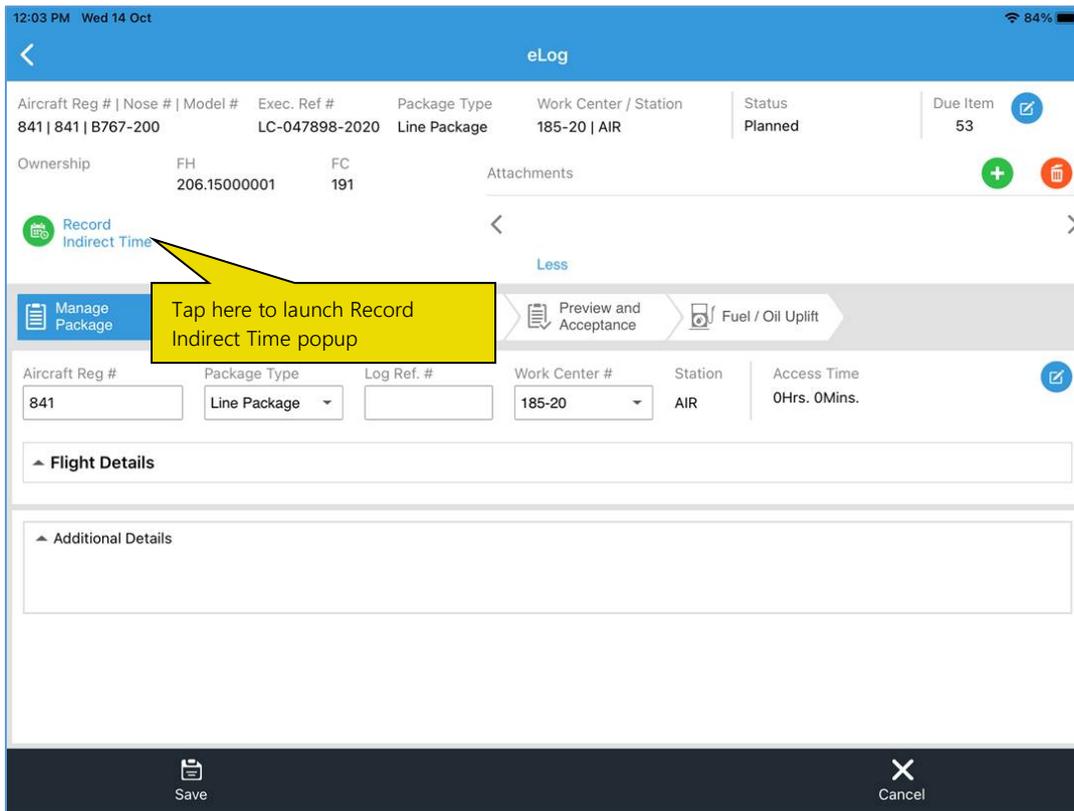


Exhibit 2: Identifies the new Record Indirect Time popup in eLog

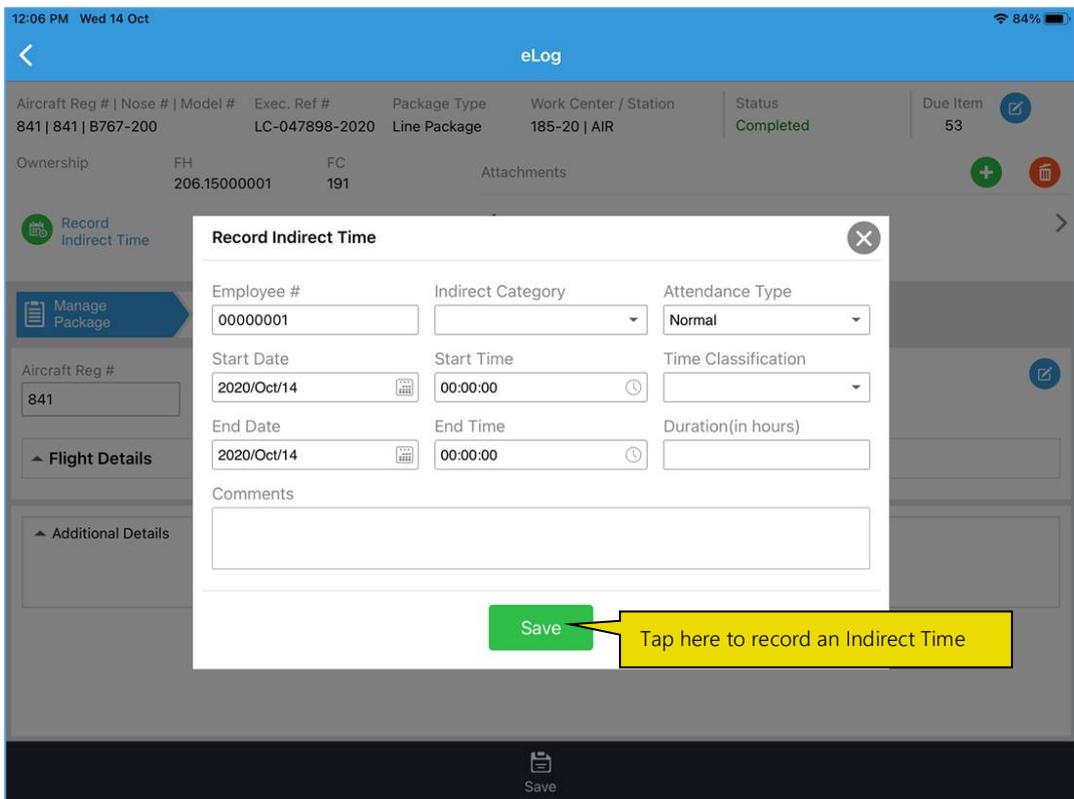


Exhibit 3: Identifies the new Record Timesheet icons in eLog – Tasks tab

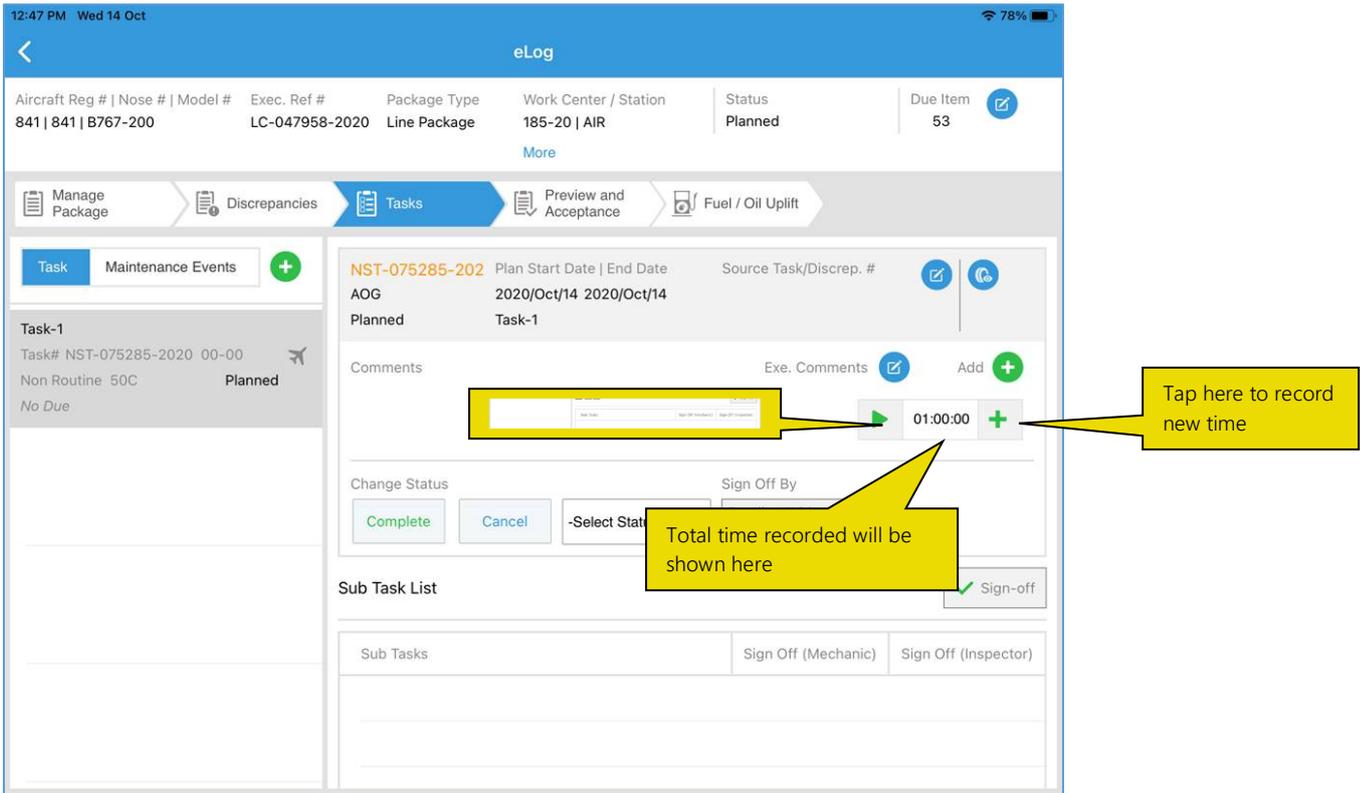


Exhibit 4: Identifies the new Record Timesheet icons in eLog – Discrepancies tab

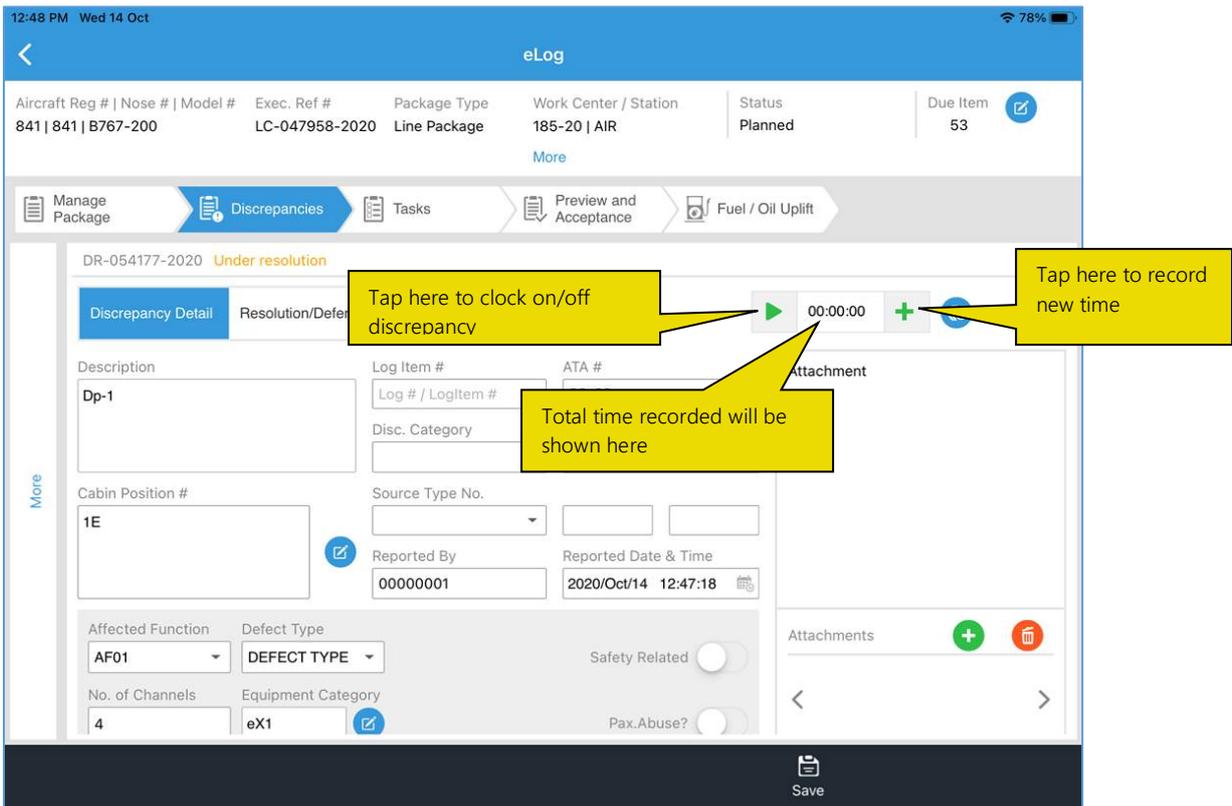


Exhibit 5: Identifies the new Record Direct Time popup in eLog tab

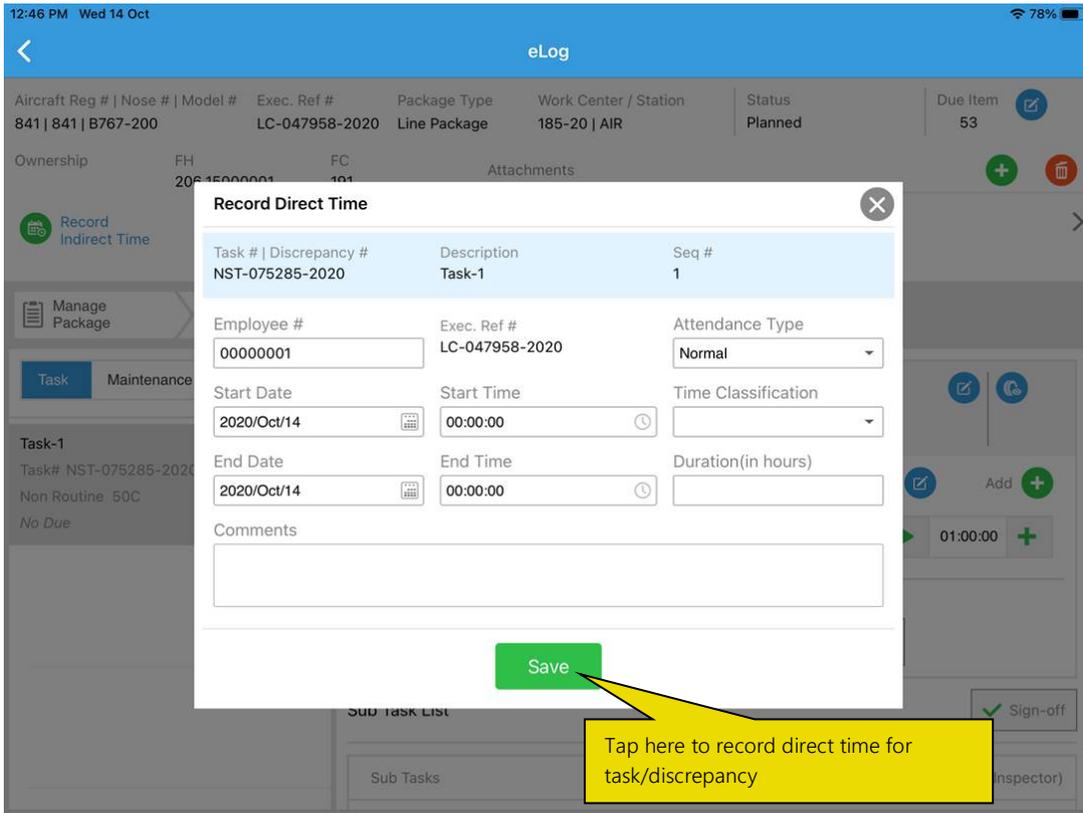


Exhibit 6: Identifies the Timesheet errors in Transfer Work Package screen

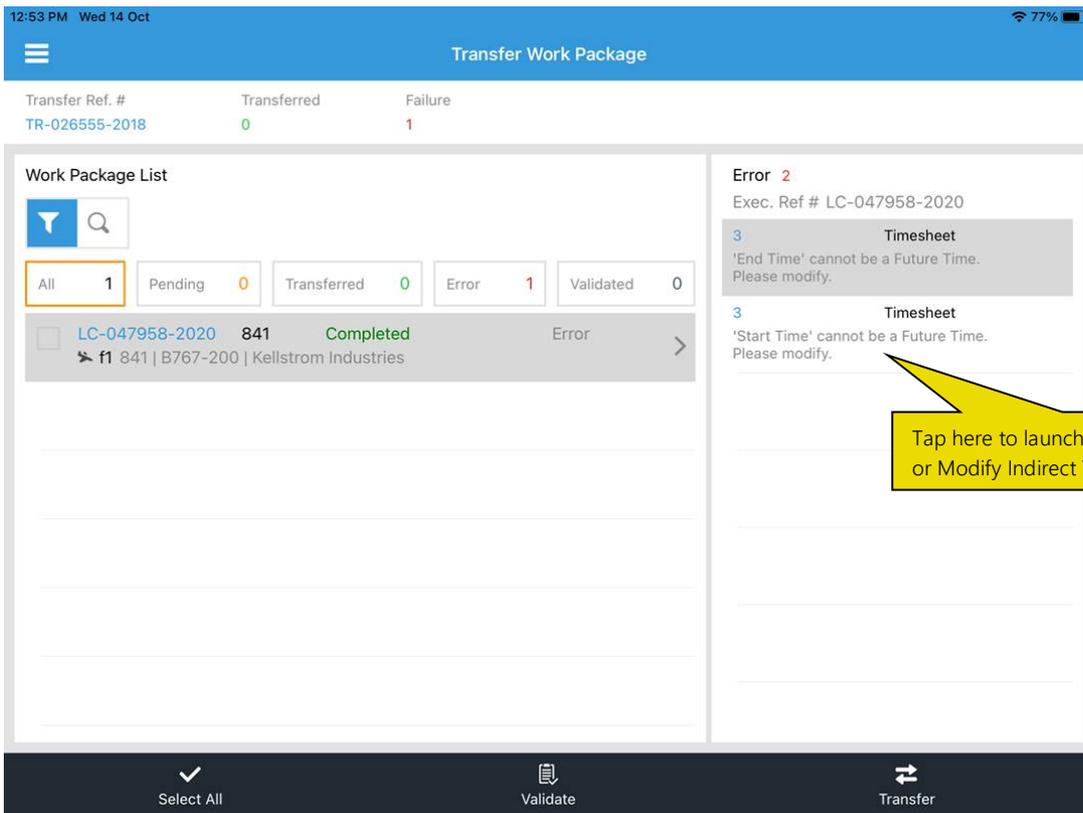


Exhibit 7: Identifies the new Timesheet Errors column in Transfer Work Package Log screen

The screenshot shows the 'Transfer Work Package Log' interface. At the top, there are search criteria including Station (AIR), Work Center (185-20), and Date From/To (2020/Oct/01 17:27:14 to 2020/Oct/15 17:27:14). Below the search bar, a summary row shows counts for various error types: 45 All, 23 Error, 0 Pending, 1 Validated, 21 Processed, and 0 Shortclosed. The main table lists 10 rows of data with columns: #, Package #, Aircraft Reg #, Arrival Flight #, Transfer / Load Ref #, Transfer / Load Status, Total Error Count, Package Errors, Task Errors, Discrepancy Errors, Comp Repl Errors, Timesheet Errors, and Other Errors. A yellow callout box points to the 'Timesheet Errors' column, with the text 'New Timesheet Errors column'. At the bottom, there are buttons for 'Validate', 'Process', and 'Short-Close', along with system status information like 'Last Login on 2020/Oct/15 at 17:24:48' and 'Server: 0.156 /Client: 1.797'.

Exhibit 8: Identifies the new attribute in Manage Transfer Info screen for Timesheet errors

The screenshot shows the 'Manage Transfer Info' interface. At the top, there are fields for Package # (LC-046367-2020), Error Entity Type (Timesheet), and Error Entity Ref. # (2). Below these fields, there is an 'Error Message' box containing the text: '*Start Time' cannot be a Future Time. Please modify.'. The main part of the screen is a table with columns: #, Attribute, Permitted Value, and Value. The table lists 9 attributes: Employee #, Start Date, Start Time, End Date, End Time, Duration, Attendance Type, and Comments. A 'Save' button is located at the bottom of the table. The interface also shows a sidebar with navigation options and a status bar at the bottom.

In LOPA, when user clicks on 'Select All', system should provide the option to select only the Seats

Reference: APRP-691

Background

In LOPA, if user double taps on the Aircraft nose, it will select the whole deck with a warning message. Now, user always wants to select only seats in the deck on double tap.

Change Details

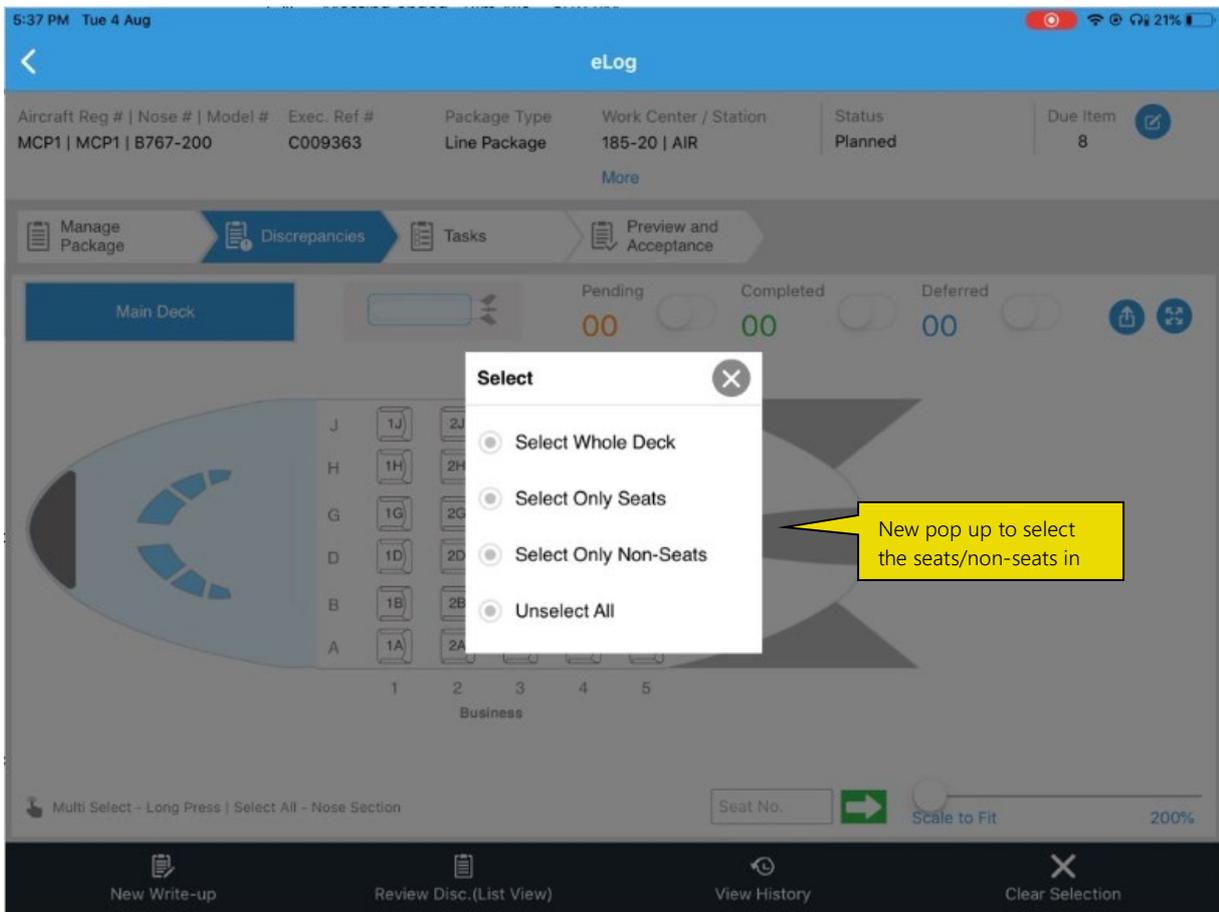
LOPA View

Whenever user double taps on the nose of Aircraft in LOPA, the existing warning message is replaced with the new pop-up with options to select the seats/non-seats in the aircraft.

The new pop-up provides the facility to select the whole deck, only seats, only non-seats and unselect everything in the deck of the aircraft.

- If user selects 'Select Whole Deck' radio button, the pop-up will be closed and the entire deck in the aircraft will be selected. The selected seats will display all the seats/non-seats selected.
- If user selects 'Select Only Seats' radio button, the pop-up will be closed and only the seats in the deck of aircraft will be selected. The selected seats will display all the seats selected.
- If user selects 'Select Only Non-Seats' radio button, the pop-up will be closed and only the non-seats in the deck of aircraft will be selected. The selected seats will display all the non-seats selected.
- If user selects 'Unselect All' radio button, the pop-up will be closed and all the seats/non-seats in the deck of the aircraft will be deselected. The 'selected seats' will display blank.

Exhibit 1: Identifies the Select pop-up in LOPA



Defect Source to be mandatory during discrepancy creation in LineAnywhere

Reference: APRP-690

Background

The defect source field is sometimes left blank which prevents MRC from being able to accurately classify. This also impacts reports that rely on defect source. The need is to mandate the defect source in LineAnywhere during discrepancy creation.

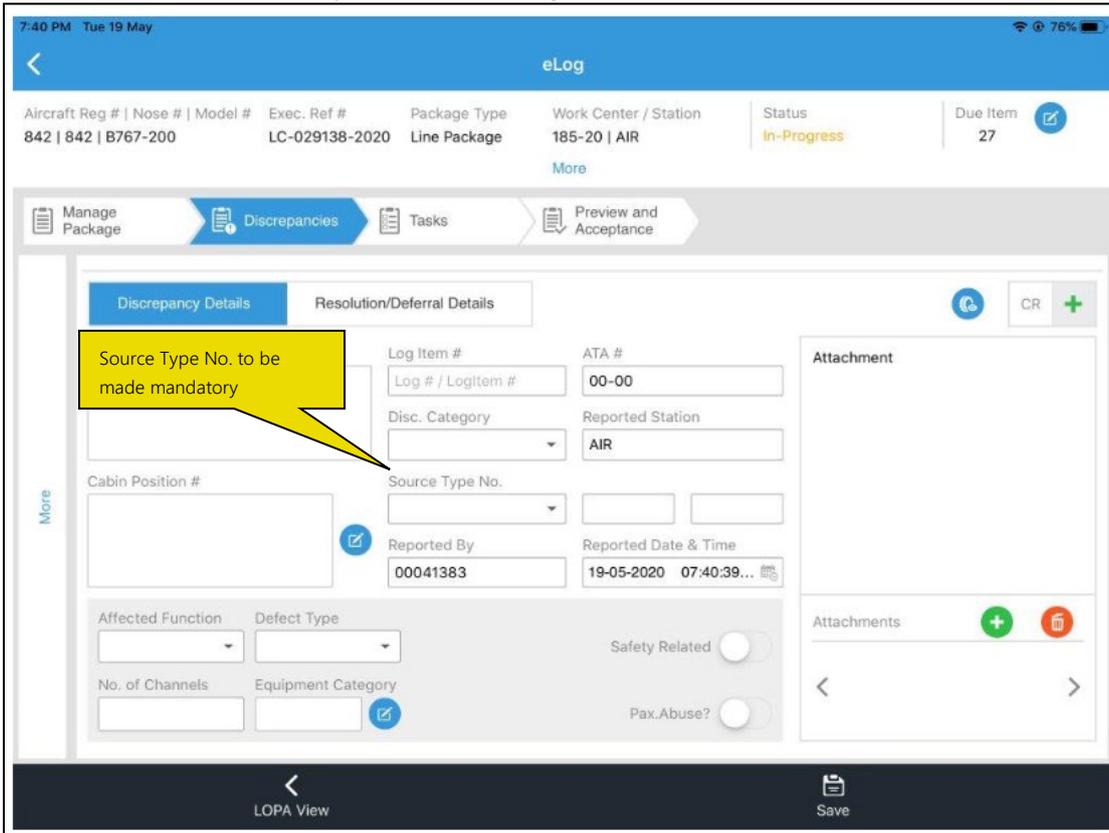
Change Details

Discrepancy Reporting

With the help of existing process parameter 'Mandate source document details on discrepancy reporting?' at Package Type level in **Define Process Entities** activity, will mandate the source document to be selected on discrepancy reporting in LineAnywhere.

If the process parameter 'Mandate source document details on discrepancy reporting?' is set as "1" (Required for PIREP, MIREP and Cabin Discrepancies) or "3" (Required for all Discrepancy types) for the current package type, on creating discrepancy in Discrepancies tab with the Source Type No. combo or the value next to it as blank, system will validate the user on Save.

Exhibit 1: Identifies the Discrepancies Tab in eLog



Corrective Action to be made mandatory when deferring the discrepancy in LAW

Reference: APRP-689

Background

Corrective action is to be made mandatory when deferring the discrepancy. This will make sure that the sign off has to be done whenever the discrepancy is deferred.

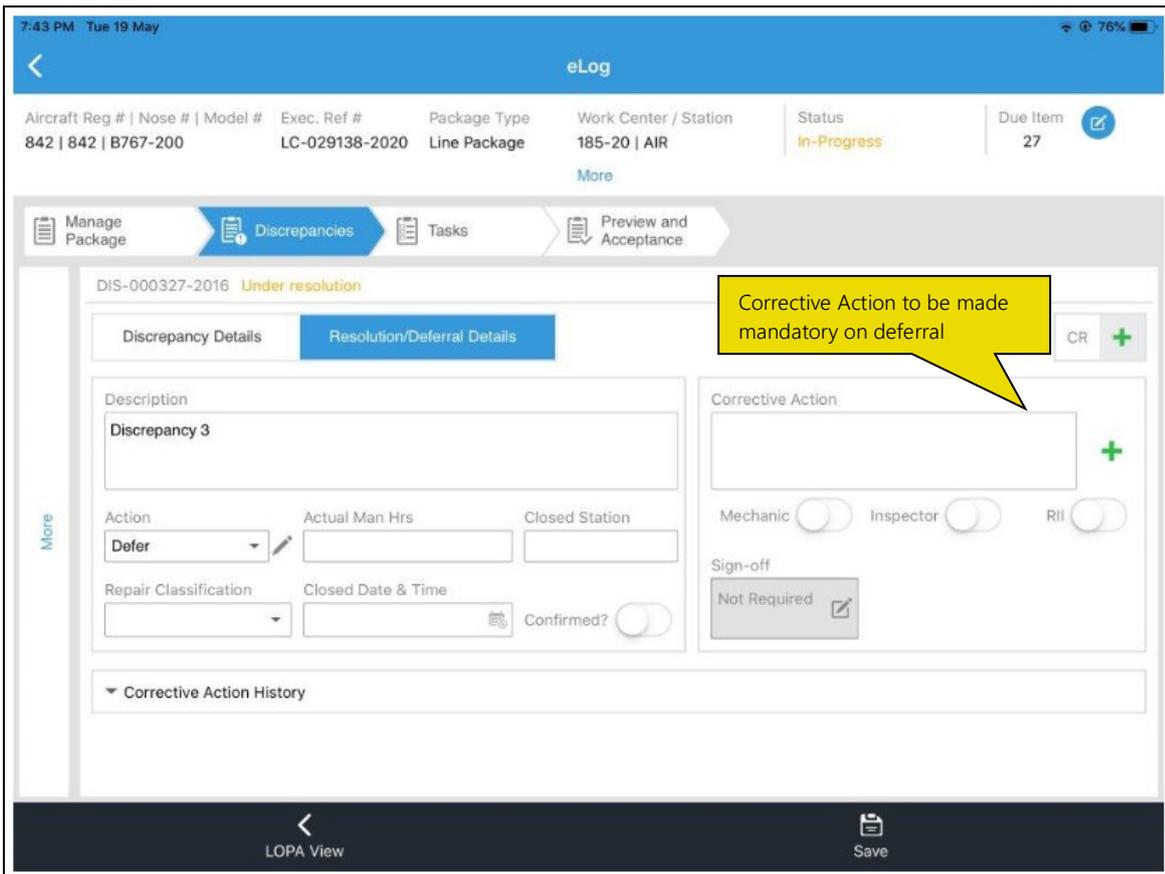
Change Details

Discrepancy Deferral

With the help of existing process parameter 'Mandate Corrective Action during Discrepancy Deferral?' at Package Type level in **Define Process Entities** activity, system will mandate the corrective action to be recorded against the discrepancy during deferral.

If the process parameter 'Mandate Corrective Action during Discrepancy Deferral?' is set as "1" (Yes) for the current Package Type, then user performs Deferral of a discrepancy by selecting Action as "Defer" for a Discrepancy without entering Corrective Action. On Save, the system will validate as "Please enter Corrective Action to proceed."

Exhibit 1: Identifies the Discrepancies tab in eLog



Ability to display Planning Date & Time in the Due List in LineAnywhere

Reference: APRP-1093

Background

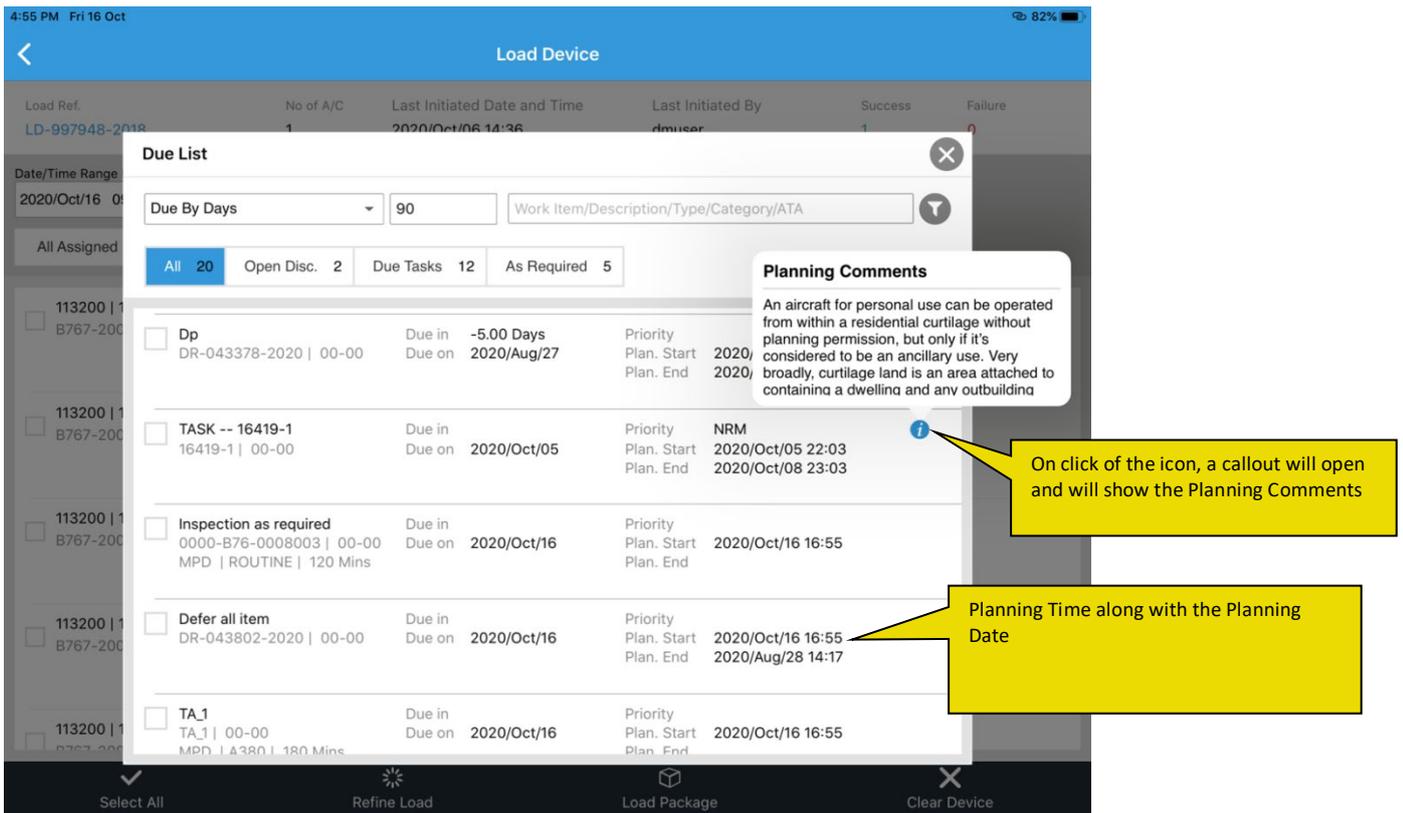
For majority of the tasks the estimated man hours will be less than one day only. When they update the planning date and time in planning board, the from and to date will be the same. Therefore there should be a provision to show planning time along with planning date in Due List pop up.

Change Details

This enhancement brings the ability to see the Planning time along with the Planning Date in the Due List popup of of LineAnywhere. Also the user can view the Planning Priority in the Due List popup.

If any Planning comments are available for a particular record in the Due List popup, then there will be an icon near to that record. User can tap on the icon, then a callout will launch with the Planning comments.

Exhibit 1: Identifies changes in 'Due List' of LineAnywhere.



Visibility of the part requirement when the deferred discrepancy is added to another package

Reference: APRP-687

Background

If a discrepancy is deferred with part requirements and then it is added to another package, there should be a provision to see the previous part requirements against that discrepancy in the latest package in LineAnywhere. Provision also needs to be given for the mechanic to edit/delete the part requirement.

Change Details

This enhancement brings the ability to edit the part requirements after it saved and also once the package successfully processed in online, user can view and modify the Part requirement in **Edit Part Requirement** screen of desktop.

If user added that discrepancy from due list to a new package, then part requirement associated with the discrepancy can be viewed in **View Part Requirements** pop up. User can view/modify/delete all the part requirements against that discrepancy in defer popup. User can see the part requirement for a discrepancy from the **View Part Requirements** popup as well.

Exhibit 1: Identifies changes in 'Defer pop up of LineAnywhere

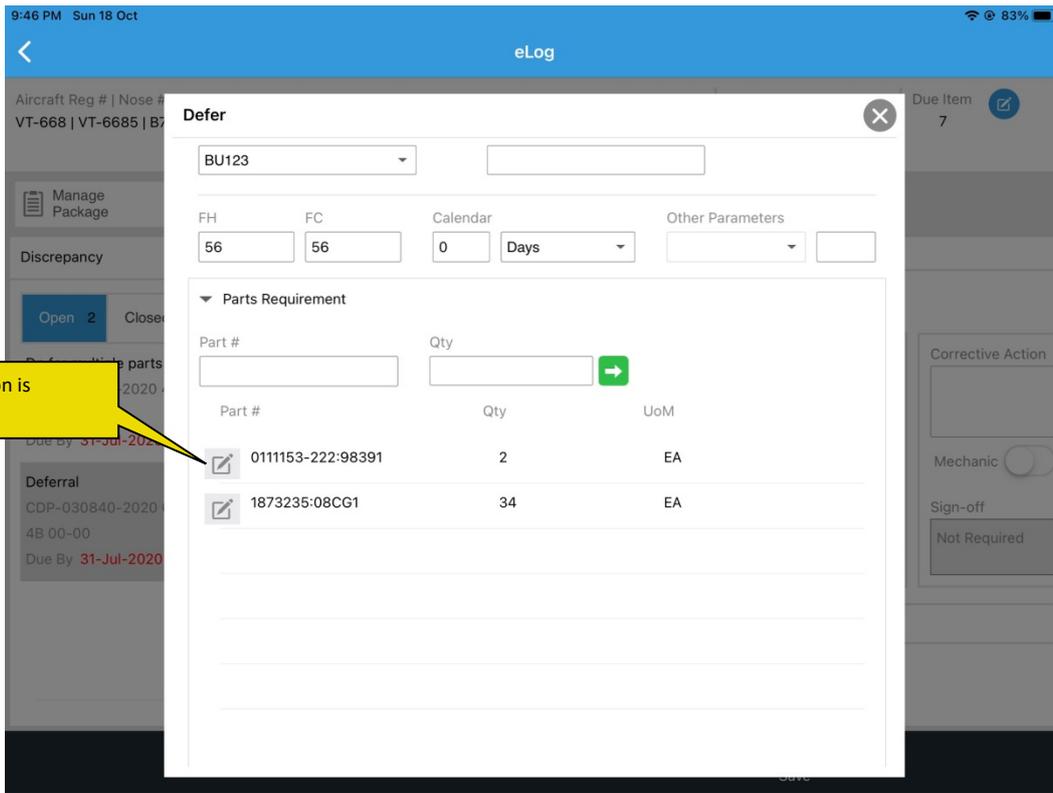
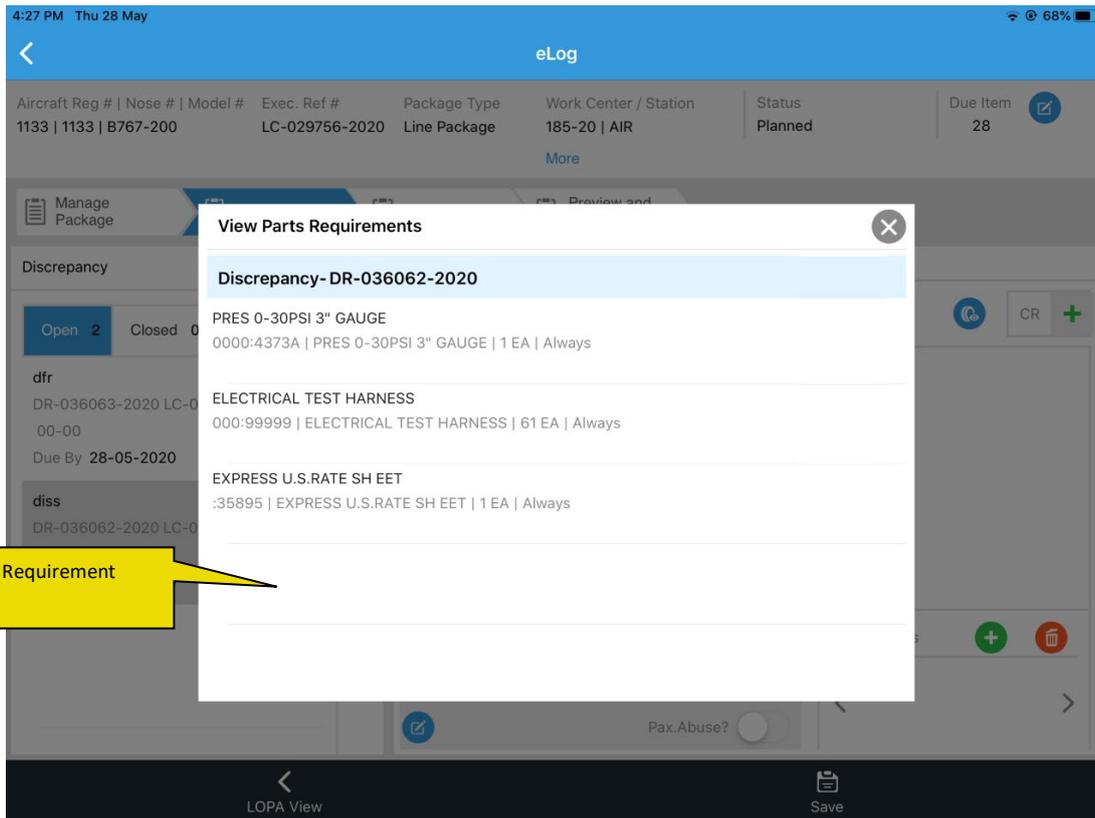


Exhibit 2: Identifies View Parts Requirements popup in LineAnywhere



Mandate the part requirement in defer pop up based on the deferral reason selected in LineAnywhere

Reference: APRP-668

Background

Sometimes the mechanic cannot perform the maintenance due to unavailability of Parts. In that case the mechanic will defer the discrepancy with the deferral reason related to the unavailability of parts. Business need is to mandate the part requirement in defer popup based on the deferral reason selected.

Change Details

Common Master

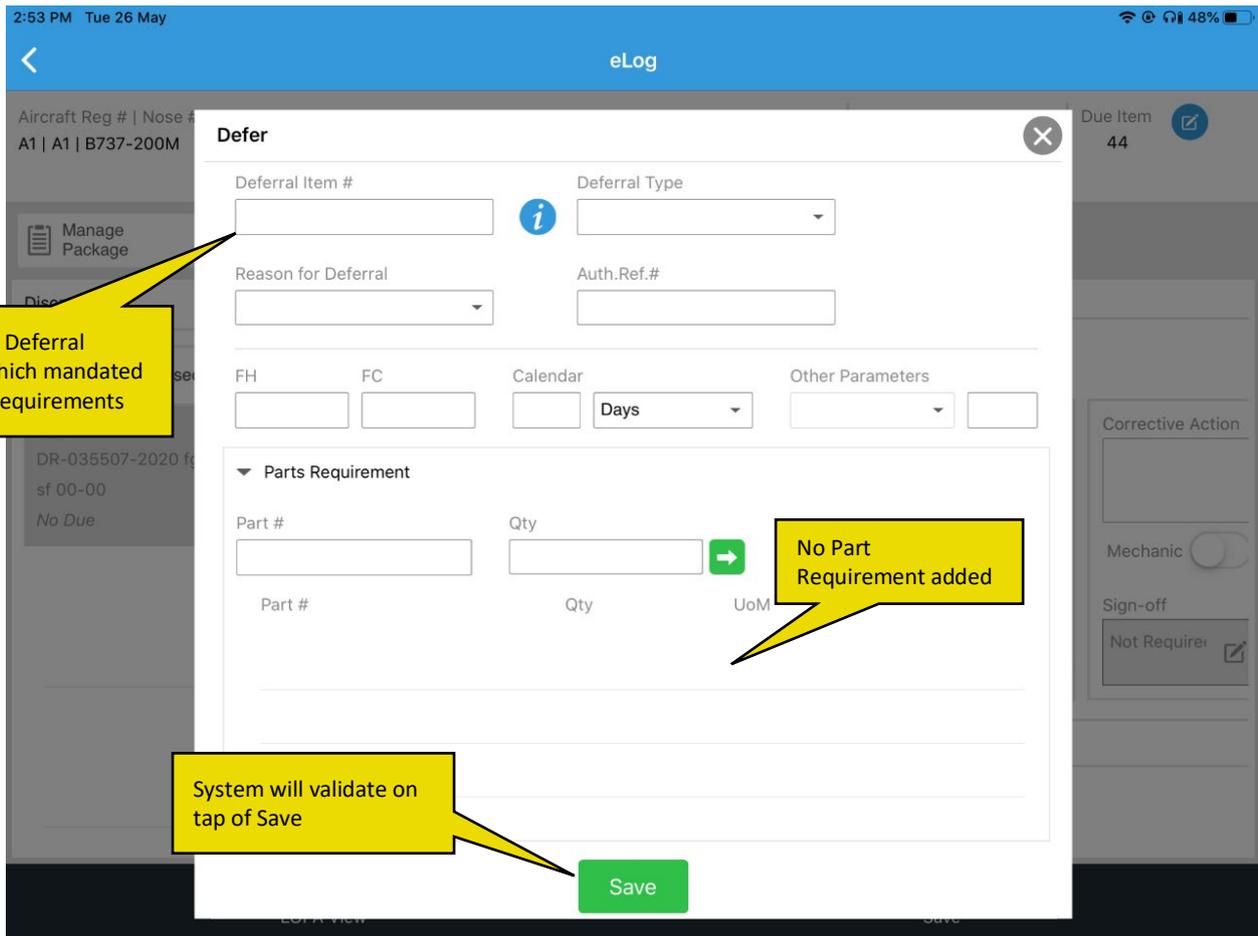
A new process parameter 'Deferral Reasons for which Part Requirements has to be mandated?' introduced under the Entity Type 'Mobility' and the Entity 'LineAnywhere' in the **Define Process Entities** activity of **Common Master** with the following permitted values:

- BLANK- Existing Behavior - System will not mandate the part requirement for any of the 'Reason for Deferral'.
- Valid 'Reason for Deferral' values (comma separated if multiple) as defined under the **Compliance Tracking & Control** business component - System will mandate the part requirement for the entered 'Reason for Deferral' on defer of a discrepancy.

Defer pop up

If user gives value for the set option 'Deferral Reasons for which Part Requirements has to be mandated?' and tries to defer a discrepancy with the same value as 'Reason for Deferral', then the system will validate for part requirement.

Exhibit 1: Identifies changes in 'Defer pop up of LineAnywhere



Ability to hide UI elements in LineAnywhere based on Set Options

Reference: APRP-561

Background

In LineAnywhere, there are many features and certain users may not be needed some features. This enhancement brings the ability to hide the feature based on set options in LineAnywhere.

Change Details

Along with this feature user can control the below UI changes.

- Ability to hide All Assigned, Assign to Me and All Inbound tabs based on set option.
- Ability to hide 'Access Time based on set option.
- Expand/Collapse Flight Details section on screen launch based on set option.
- Enable/Disable 'Cabin Position #' based on set option

Common Master

A new process parameter 'Show Assigned & Inbound records in the Load Device and My Dashboard screens?' is added under the Entity Type 'Mobility' and Entity 'LineAnywhere' in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) - System will not show Assigned & Inbound records in the Load Device and My Dashboard screens
- 1 (Yes) Existing Behavior - System will show Assigned & Inbound records in the Load Device and My Dashboard screens

A new process parameter "'Show Access Time in LineAnywhere?'" is added under the Entity Type 'Mobility' and Entity 'LineAnywhere' in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) - System will not show Show Access Time in LineAnywhere
- 1 (Yes) Existing Behavior - System will show Show Access Time in LineAnywhere

A new process parameter "' Expand Flight Details section on launch of Manage Package tab of eLog?'" is added under the Entity Type 'Mobility' and Entity 'LineAnywhere' in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) - System will not expand Flight Details section on launch of Manage Package tab of eLog
- 1 (Yes) Existing Behavior - System will expand Flight Details section on launch of Manage Package

tab of eLog

A new process parameter “Disable Cabin Position # in Discrepancies tab of eLog?” is added under the Entity Type ‘Mobility’ and Entity ‘LineAnywhere’ in the **Set Process Parameters** screen of the **Define Process Entities** activity with the following permitted values:

- 0 (No) Existing Behavior - System will enable Cabin Position # in Discrepancies tab of eLog
- 1 (Yes) - System will disable Cabin Position # in Discrepancies tab of eLog

Exhibit 1: Identifies changes to hide Assigned & Inbound records in the Load Device screen of LineAnywhere (Existing)

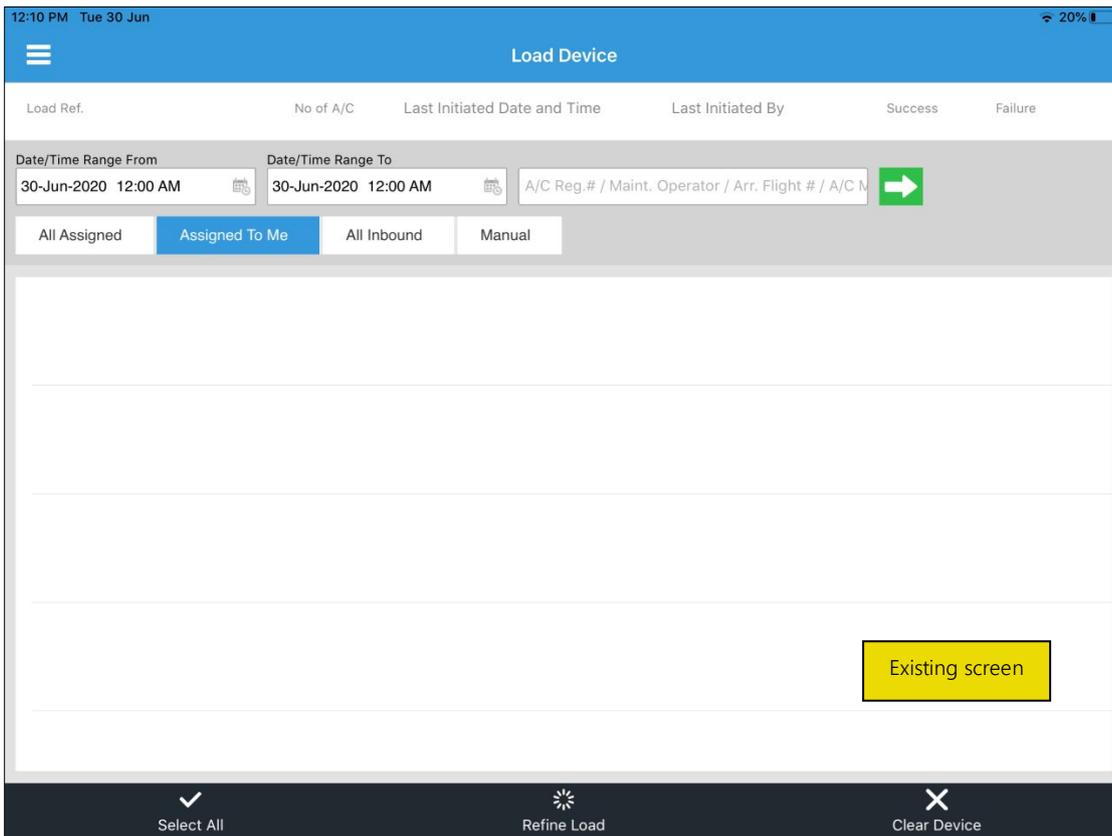


Exhibit 2: Identifies changes to hide Assigned & Inbound records in the Load Device screen of LineAnywhere (Modified)

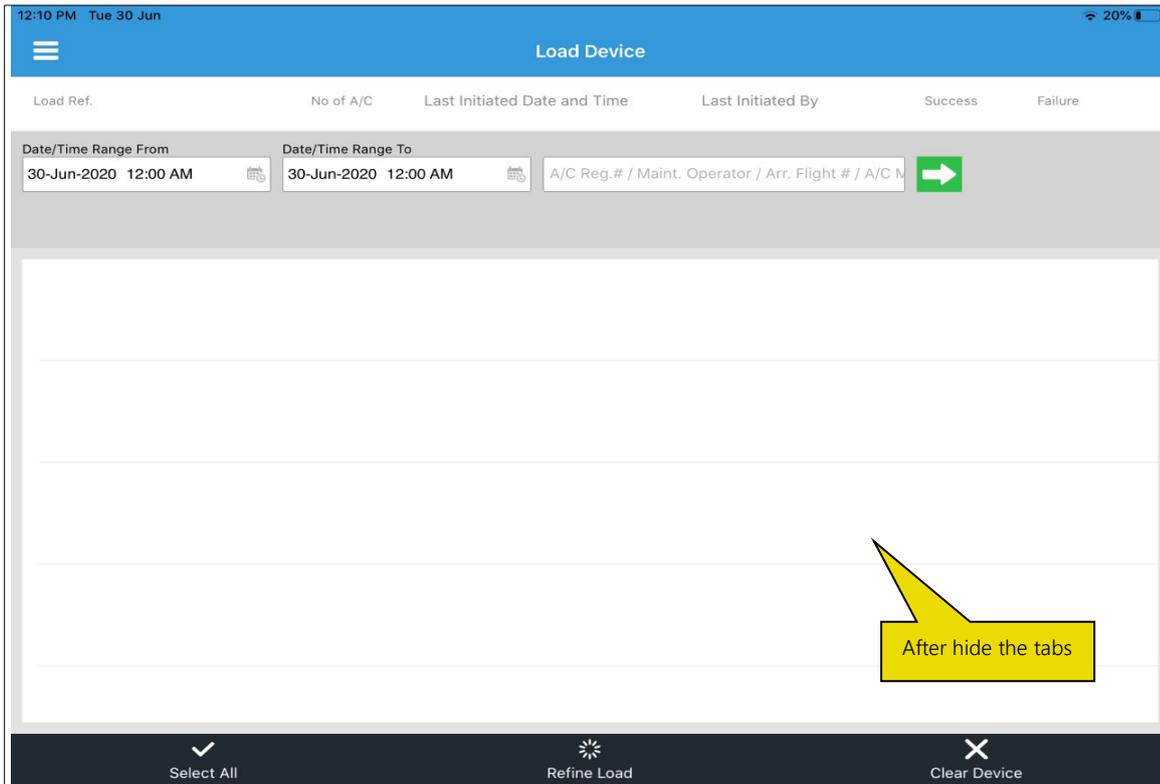


Exhibit 3: Identifies changes to hide Assigned & Inbound records in the My Dashboard screen of LineAnywhere (Existing)

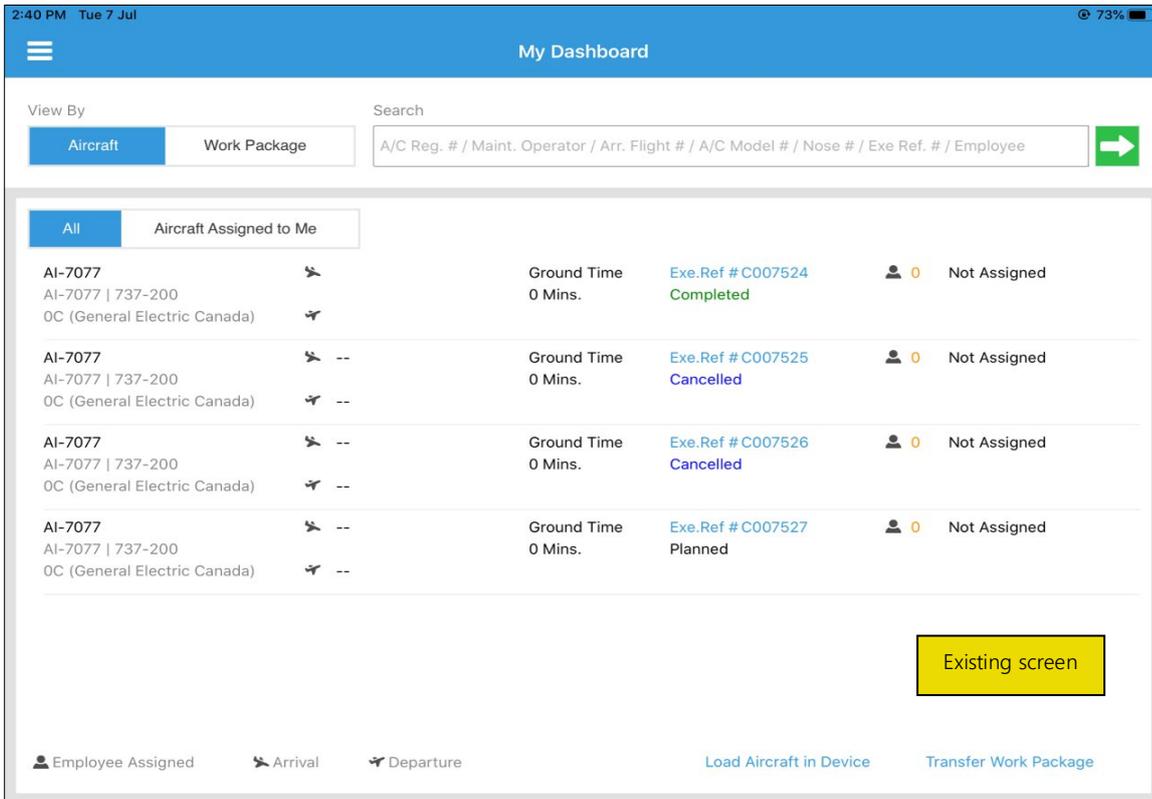


Exhibit 4: Identifies changes to hide Assigned & Inbound records in the My Dashboard screen of LineAnywhere (Modified)

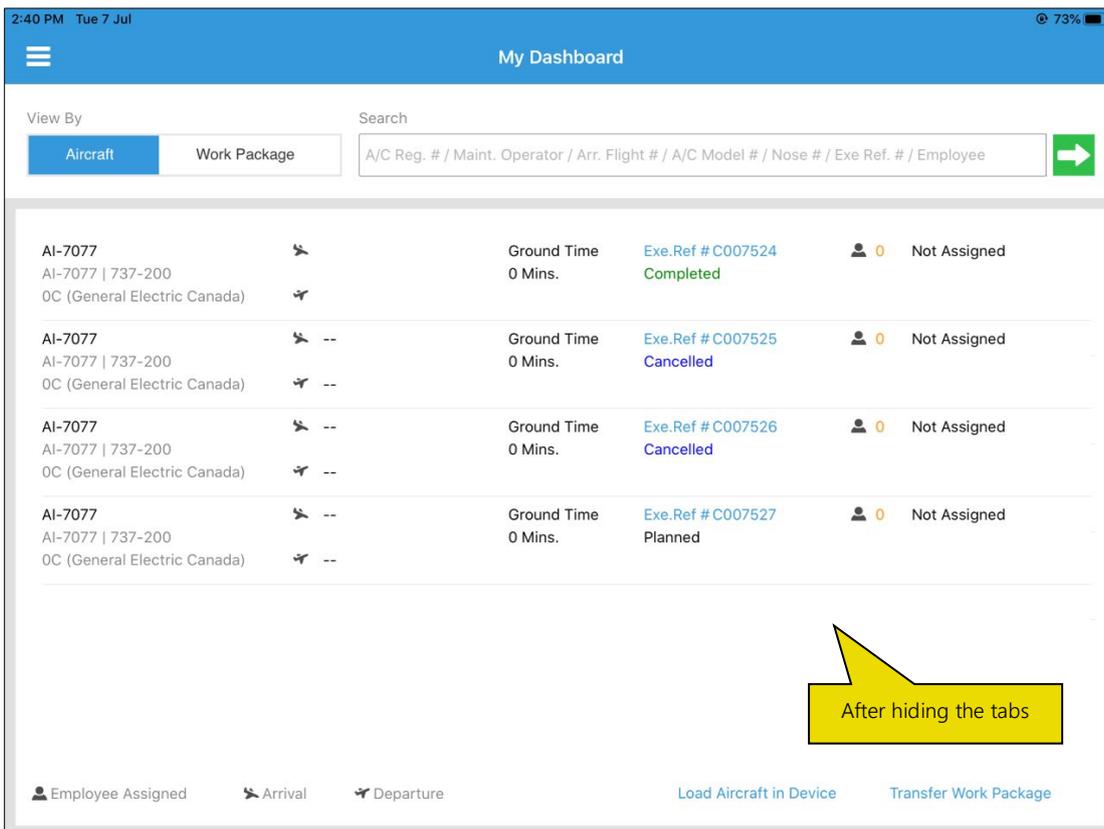


Exhibit 5: Identifies changes to hideAccess Time in LineAnywhere.(Existing)

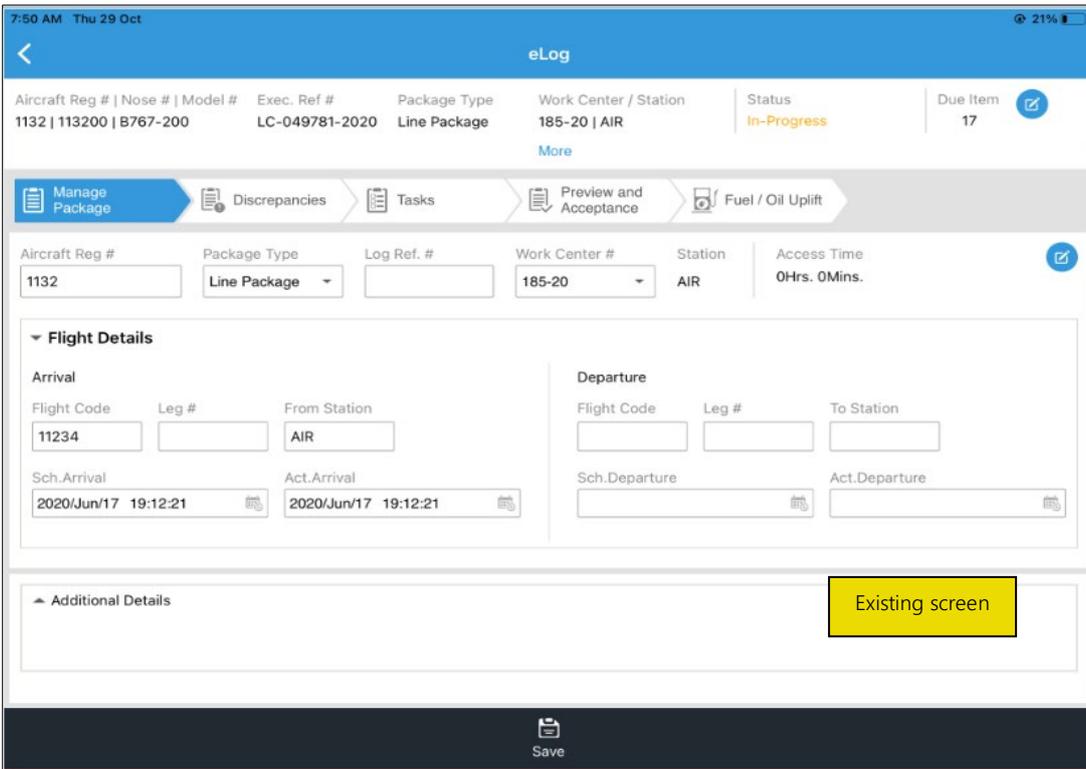


Exhibit 6: Identifies changes to hideAccess Time in LineAnywhere.(Modified)

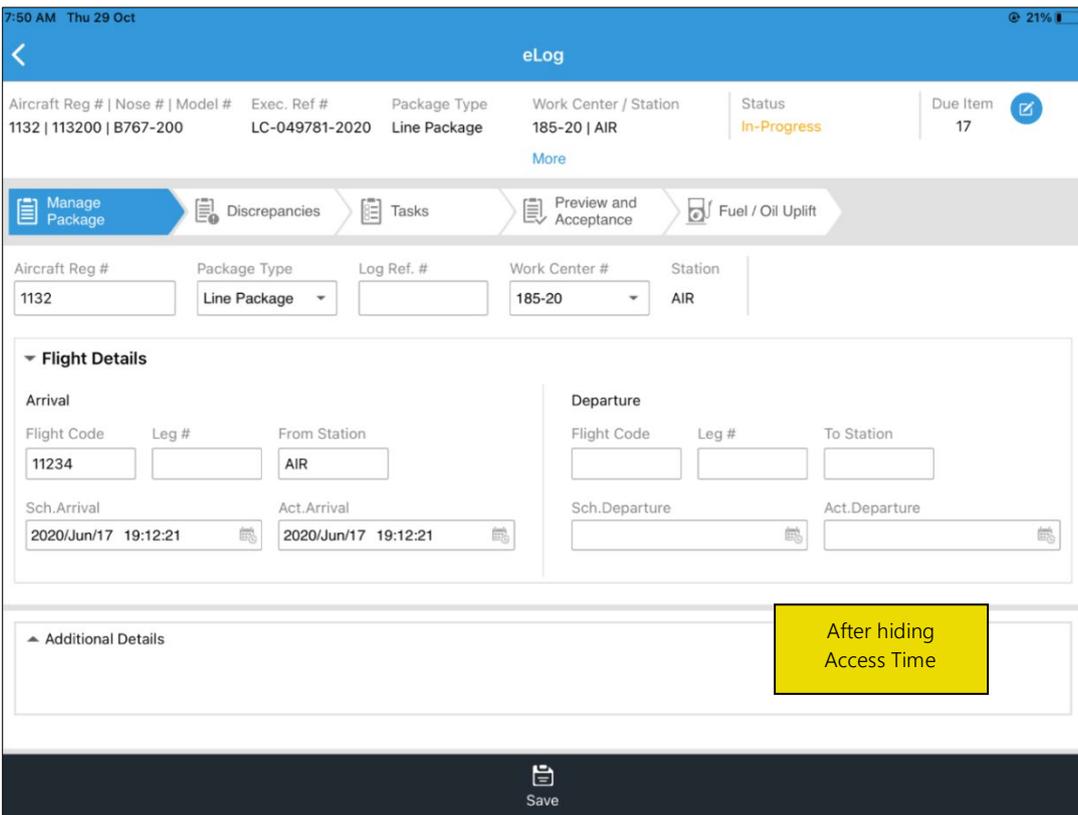


Exhibit 7: Identifies changes to collapse Flight Details section in LineAnywhere

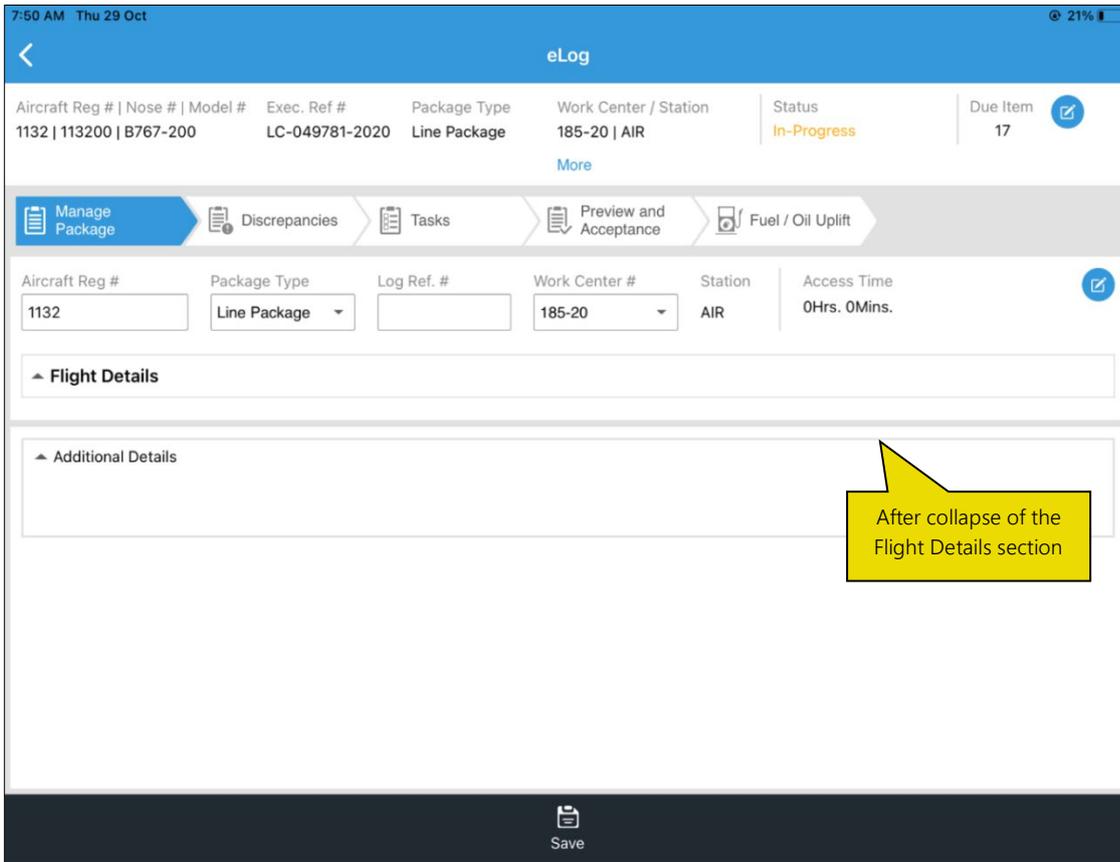


Exhibit 8: Identifies changes Discrepancies tab of LineAnywhere

12:12 PM Tue 30 Jun 20%

eLog

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

AI-7077 | AI-7077 | 737-200 C007525 Line Package 185-20 | AIR Planned 1

[More](#)

Manage Package **Discrepancies** Tasks Preview and Acceptance

Discrepancy Details Resolution/Deferral Details CR +

Description	Log Item #	ATA #	Attachment
	Log # / Logitem #	00-00	
Cabin Position #	Disc. Category	Reported Station	Attachments
	1A	AIR	
Affected Function	Source Type No.	Reported By	Safety Related <input type="checkbox"/>
No. of Channels	Reported Date & Time	00000001 30-Jun-2020 12:12 PM	
Defect Type	Equipment Category	Pax.Abuse? <input type="checkbox"/>	

[LOPA View](#) [Save](#)

After disabling of Cabin Position #

Ability to map and view Source Task for Non Standard Tasks in LineAnywhere

Reference: APRP-558

Background

At times during hangar execution, mechanics will add some non-standard tasks from the execution screen. Sometimes this added non-standard task should have a Source Task # reference for reference purposes. In order to achieve this requirement, a new provision is required where the users can create a Non-Standard Task for an existing Task as Source Task in LineAnywhere.

Change Details

This enhancement brings the ability to create or add a task with Source Task/Discrep. # in LineAnywhere. User can create/add the tasks from Tasks tab and Discrepancies tab against a Task and Discrepancy as Source Task/Discrep. # respectively.

Process parameter renamed to "Mandate Source Task/Discrep. # for Non-Standard Tasks in Work Reporting Hub?" under the Entity Type 'Package Type' and the Entity 'All user defined package types including Log Card' in the **Define Process Entities** activity of **Common Master** business component.

Exhibit 1: Identifies changes in **Tasks** tab of LineAnywhere

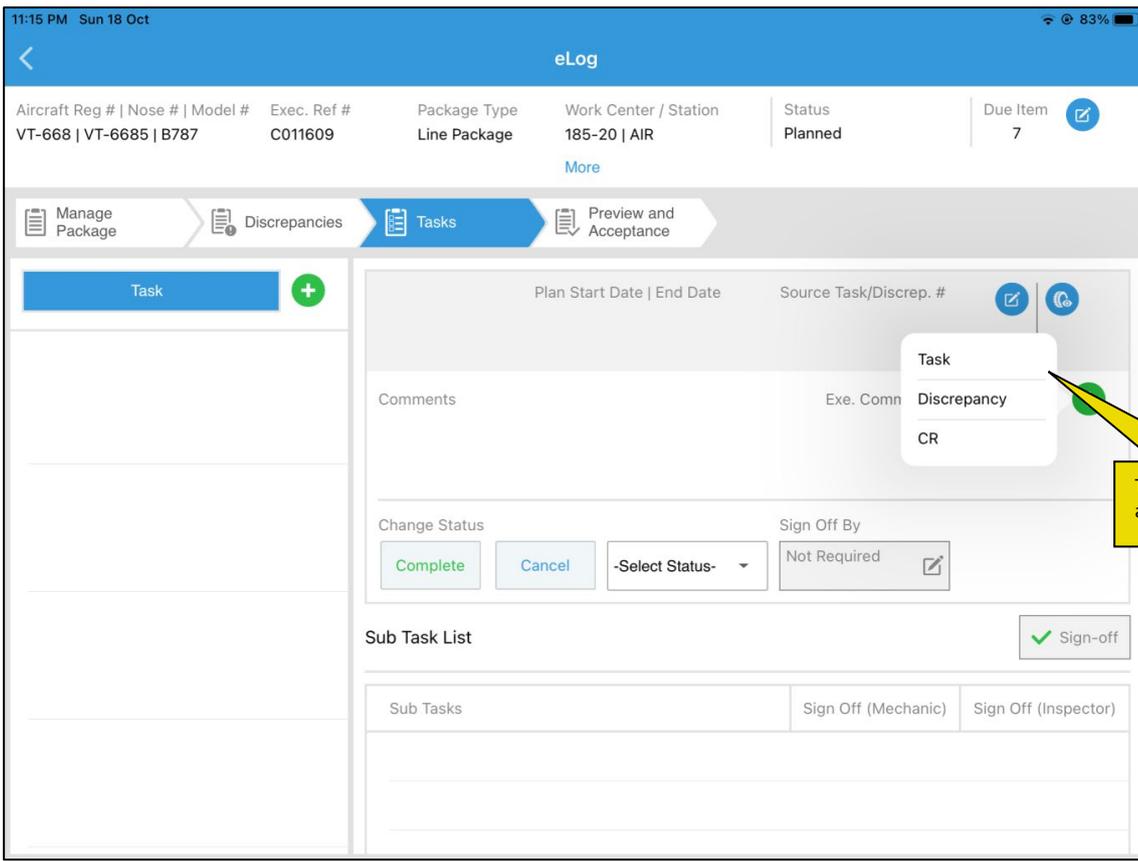
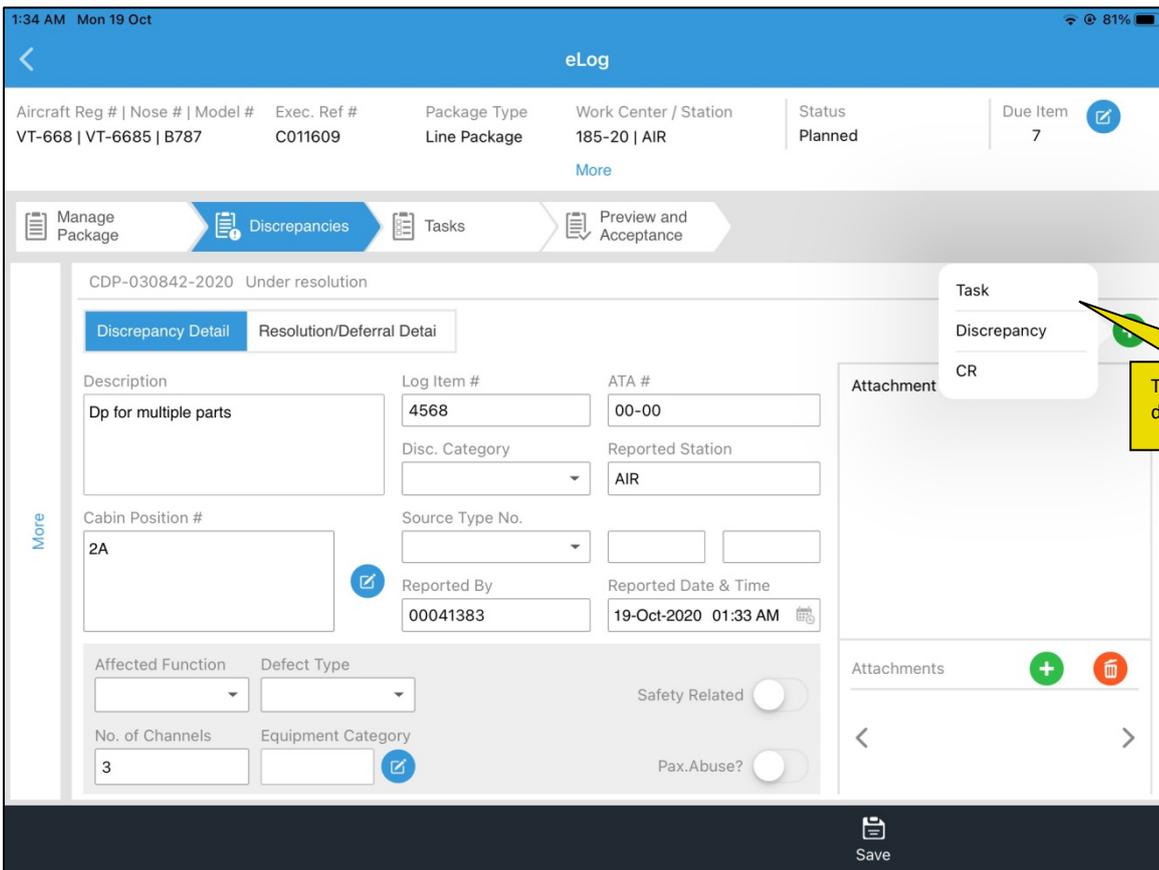


Exhibit 2 : Identifies changes in **Discrepancies** tab of LineAnywhere



Ability to capture Exe. Comments against Subtasks in LineAnywhere

Reference: APRP-557

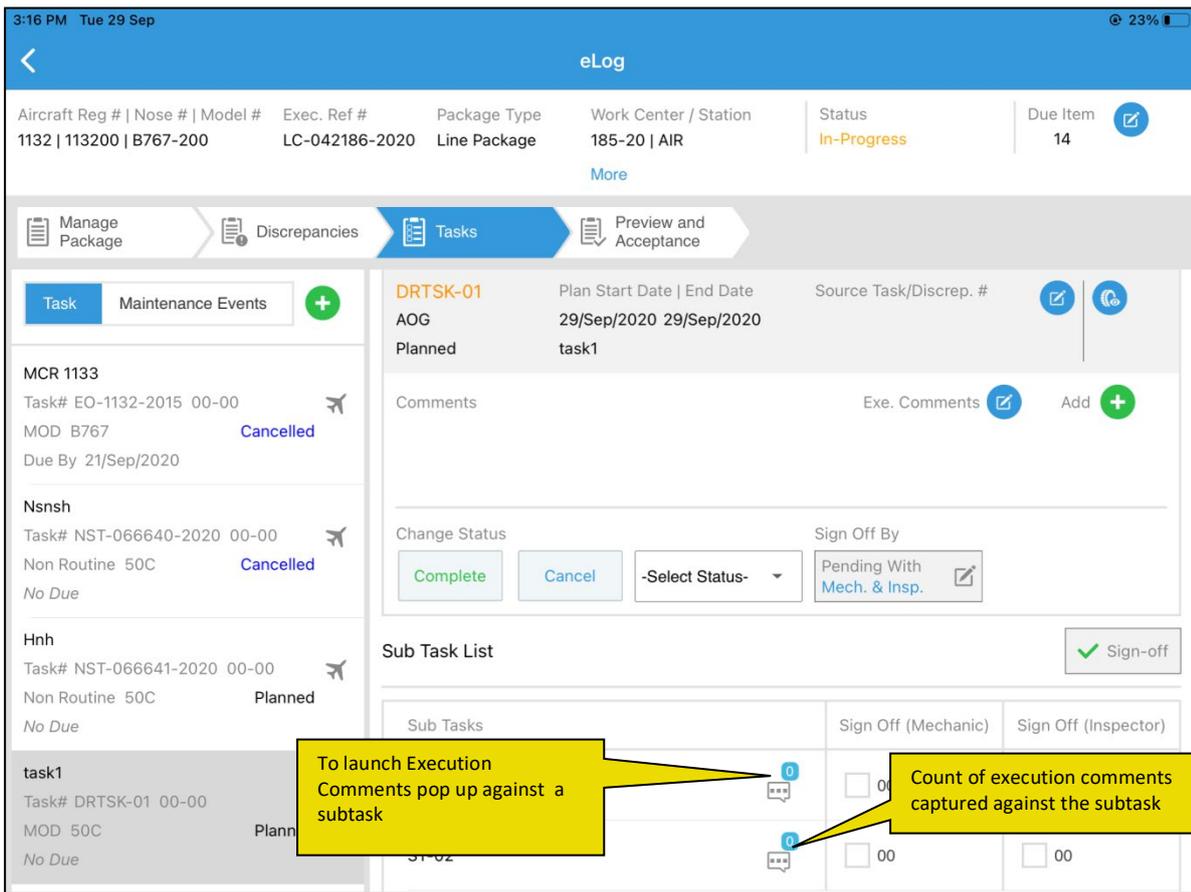
Background

Sometimes mechanics will work in multiple shifts and a single task or even the sub task may go for various days, in that case there should be a provision to record multiple execution comments at sub task level to communicate to next mechanic.

Change Details

This enhancement brings the ability to capture execution comments in each subtask level. So the user can capture execution comments against task level and subtask level. If any subtask is going for various days he/she can capture the execution details against that particular subtask. If user captured the execution comments in each subtask level of a task, then he/she can see all the execution comments together in the execution comments pop up for that respective task.

Exhibit 1: Identifies changes in Tasks tab of LineAnywhere



Ability to default RII Sign Off requirement and perform RII Sign Off in LineAnywhere

Reference: APRP-556

Background

Certain Tasks require additional inspection other than the Inspector. RII Sign Off is required for these tasks. This enhancement brings the ability to do the RII sign off for tasks/discrepancies from LineAnywhere.

Change Details

New process parameter 'Allow signed off Mechanic/Inspector to sign off as RII for same Task/Discrepancy?.' introduced under the entity type 'Mobility' and the entity 'LineAnywhere' in the Define Process Entities activity of Common Master with the following permitted values:

- 0 (No) Existing Behavior - System will not allow to sign off a task/discrepancy for the same employee who signed off as Mech/Inspector.
- 1 (Yes) - System will allow to sign off a task/discrepancy for the same employee who signed off as Mech/Inspector.

User can default the RII sign of requirement for the standard task in task master. To default RII Sign off for nonstandard tasks/discrepancies, user can use the existing set option "Require RII Sign-Off for Non-Routines?" from the Set Process Parameter screen.

Exhibit 1: Identifies changes in E-Sign Off popup of LineAnywhere.

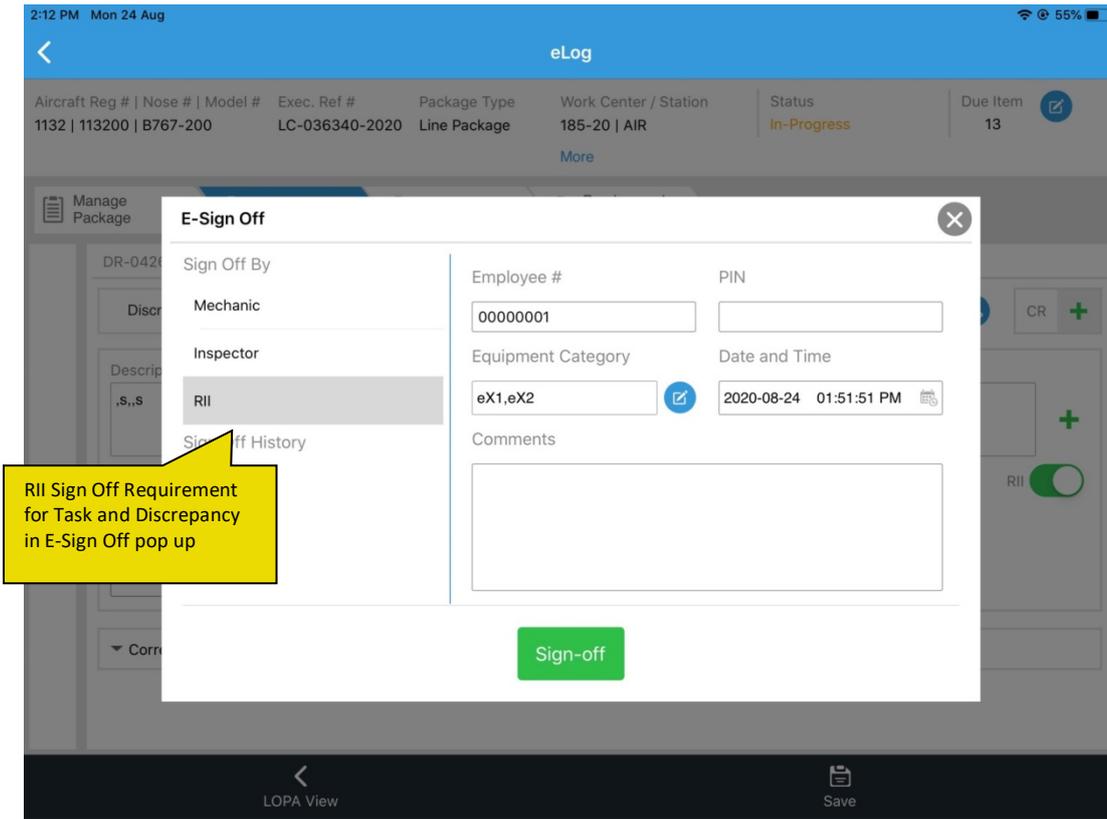
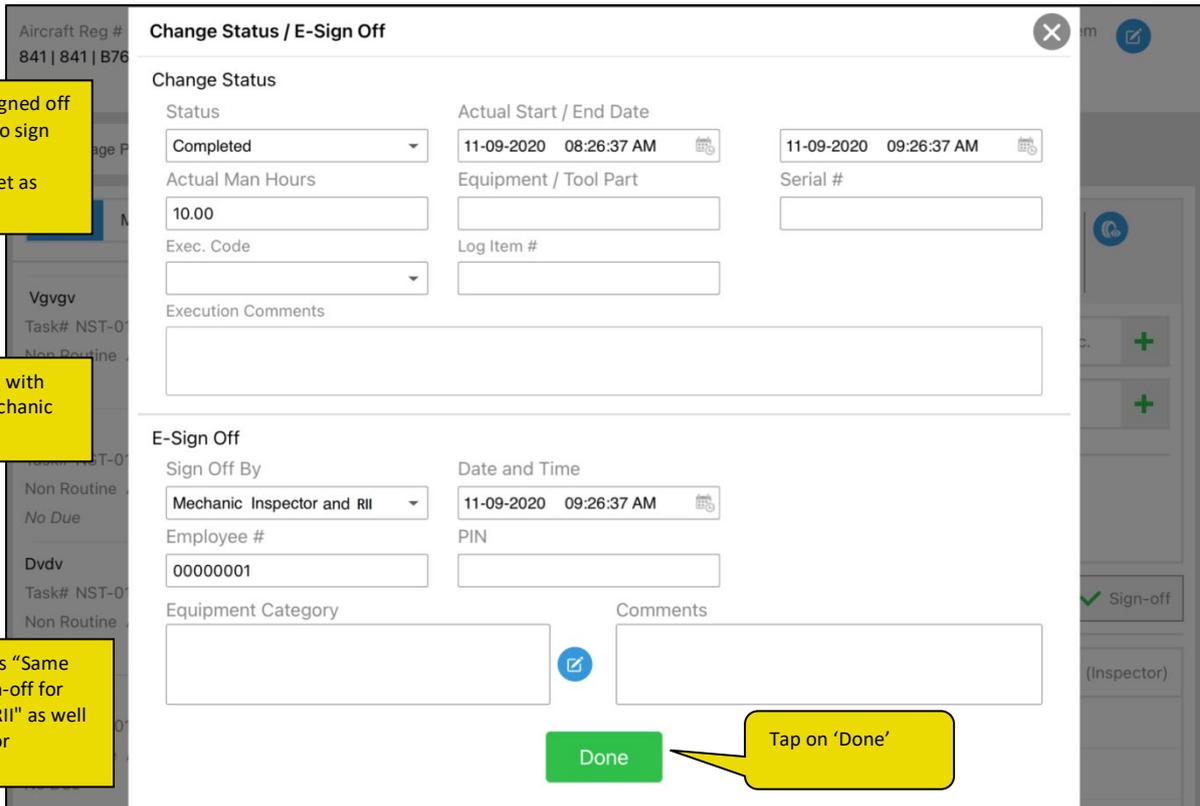


Exhibit 2: Identifies changes in Change Status/E-Sign Off popup of LineAnywhere.



Ability to Complete Package in LineAnywhere when all Tasks are cancelled

Reference: APRP-616

Background

In certain situation after creation of package, user does not add any task for execution (or) cancels all the tasks that are already added. After all the tasks are cancelled, the package still remains in Planned Status and the package cannot be transferred back to desktop. Therefore there should a provision to complete the package even though all tasks are in cancelled status or there are no tasks available as this affects the performance guarantee reports.

Change Details

A new process parameter "Allow completion of Planned Packages having no planned jobs in LineAnywhere and Work Reporting Hub?" is added under the Entity Type 'Package Type' and Entity 'All user defined package types including Log Card' in the **Define Process Entities** activity of the **Common Master** business component with the following permitted values:

- 0 (No) Existing Behaviour – System will not allow to complete Planned Packages having no planned jobs (Complete button will be Disabled)
- 1 (Yes) – System will not allow to complete Planned Packages having no planned jobs (Complete button will be Enabled)

If the user sets the process parameter "Allow completion of Planned Packages having no planned jobs in LineAnywhere and Work Reporting Hub?" as "1" for "Yes", then for the packages which are empty or only cancelled tasks, the 'Complete' button will be enabled. User can click the complete button and complete the package.

Exhibit 1: Identifies changes in 'Manage Package' tab of 'eLog' screen of LineAnywhere

eLog

Aircraft Reg # | Nose # | Model # | Exec. Ref # | Package Type | Work Center / Station | Status | Due Item
AI-7078 | 2 | 737-200 | LC-027256-2020 | Line Package | 185-20 | AIR | Planned | 3

More

Manage Package | Discrepancies | Tasks | Preview and Acceptance

Aircraft Reg # | Package Type | Log Ref. # | Work Center # | Station | Access Time
AI-7078 | Line Package | | 185-20 | AIR | Hrs. Mins.

Flight Details

Arrival

Flight Code | Leg # | From Station
123 | | LAX

Sch.Arrival | Act.Arrival
2020-02-10 10:09:36 AM | 2020-02-10 10:09:37 AM

Departure

Flight Code | Leg # | To Station
| |

Sch.Departure | Act.Departure
| |

Additional Details

Save Complete Cancel

Complete button to Complete Empty Packages/ Packages with Cancelled Tasks & Discrepancies

Corporate Office and R&D Center

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