RAMCO AVIATION SOLUTION ENHANCEMENT NOTIFICATION Version 5.8.6

MechanicAnywhere

©2018 Ramco Systems Ltd. All rights reserved. All trademarks acknowledged

ramco

©2018 Ramco Systems Ltd. All rights reserved. All trademarks acknowledged.

This document is published by **Ramco Systems Ltd.** without any warranty. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose without the written permission of **Ramco Systems Limited.**

Improvements and changes to this text necessitated by typographical errors, inaccuracies of current information or improvements to software programs and/or equipment, may be made by Ramco Systems Limited, at any time and without notice. Such changes will, however, be incorporated into new editions of this document. Any hard copies of this document are to be regarded as temporary reference copies only.

The documentation has been provided for the entire Aviation solution, although only a part of the entire solution may be deployed at the customer site, in accordance with the license agreement between the customer and Ramco Systems Limited. Therefore, the documentation made available to the customer may refer to features that are not present in the solution purchased / deployed at the customer site.

contents

WHAT'S NEW IN MECHANICANYWHERE?
Ability to Dual Authenticate employee during Task Discrepancy Sign-off in MechanicAnywhere
Ability to update parameters against Task/subtask from MechanicAnywhere 7 Background
Ability to Add/View Component Tasks in e-Log of MechanicAnywhere
Ability to display and modify the Sign Off Comments in MechanicAnywhere 15 Background
Ability to add Open discrepancies in MechanicAnywhere 21 Background 21 Change Details 21
Ability to enter Execution Comments from Maint. Events & Task tab of E-Log screen
Ability to edit the existing Corrective Action from Discrepancy Card screen 28 Background
Ability to filter, search and sort the tasks in Maint. Events & Task tab of E-Log screen
Ability to identify the Sign Off requirements without entering Corrective Action in MechanicAnywhere

contents

Ability to capture the Est. Man Hours during Discrepancy creation	
Background	
Change Details	
Ability to defer a discrepancy from Discrepancy Write-up screen	41
Background	41
Change Details	41
Ability to Create and Sign Off Discrepancy together in Discrepancy Write	Up
screen	
Background	
Change Details	
Ability to perform Employee Time Booking automatically based on Task	Actuals
during Task Completion	
Background	47
Change Details	
Ability to end all clocks and also to record employee timesheet from	
Mochanic Anywhore	10
mechanicallywhere	
Background	
Ability to Limit Same Employee from Signing off as Mechanic/Inspector a	and RII53
Background	53
Change Details	53
Ability to Mandate Exe. Comments before Task Sign Off/Completion/Clo	sure 55
Background	
Change Details	55
Ability to Display App Version # in Hamburger menu	
Background	57
Change Details	57
Ability to Print Return Document from Mechanic Anywhere	
Background	
Change Details	
Ability to View sign off summary detail/Report	60
Background	60
Change Details	60

WHAT'S NEW IN MECHANICANYWHERE?

Ability to Dual Authenticate employee during Task Discrepancy Sign-off in MechanicAnywhere

Reference: AHBG-15535

Background

A task/discrepancy on completion must be signed-off by authorized personnel (Mechanic/Inspector) possessing pre-defined/specific skill sets. Typically, in scenarios where sign-off is performed by means of Mobile devices, the mechanics complete the work and sign-off the task. Post sign off by the mechanic, the device is handed over to the concerned inspector to perform inspector sign-off. In this situation, the system must enable the inspector to sign off the task using the same device as used by the mechanic without having to login into the device all over again. A provision to enable multiple employees to sign off without having to re-login into the application would make the sign off process more speedy and user-friendly.

Change Details

In the **E-Sign Off** pop-up, the **Employee ID** field has been converted into an input field to enable authorized users other than the login user to sign off the task /discrepancy without logging into the iPad again. This new field by default displays the employee name of the login user. Further, the Skill # field also displays in the following way by default:

- Primary Skill mapped to the 'Employee #' in HRMS business component
- First skill effective for the employee, if Primary Skill is not defined for employee.
- Blank, if skills are not defined for the employee

To facilitate **Dual Authentication** in **MechanicAnywhere**, the following data has been defined in the **Configure Dual Authentication** screen of the Smart Card Interface business component.

- Application Group: Mobility
- Entity: MechanicAnywhere
- Action: Sign-Off

Process parameter dependency for task/discrepancy sign off

However, dual authentication and dual sign off for task/discrepancy in MechanicAnywhere is allowed only if the following process parameters under the entity type "Package Type" and the entity "User-Defined" are enabled in the **Define Process Entities** activity as explained next.

- A user other than the login user can sign off only if the process parameter "Allow sign-off entry by different employee?" is set as '1' (Yes)
- The same employee (Employee ID) can sign off for Inspector or RII in addition to Mechanic sign off, If the process parameter "Permit Dual Sign-off by the employee?" is set as "0" (Yes).



Exhibit 1: The E-Sign Off screen

iPad 穼			4:58	PM			֎ 16%
< E-Log			E-L	og			
Aircraft Reg# Model Js-101 A320-211	Log Card # F VP-002992-	Ref. # 2017	Station AIR INDIA STATION	Date & Time 10/Nov/2017 12:37:27	FH 593.50	FC 110.00	Status In-Progress
Manage Package	Cabin Def	E-Sign Off			8	Preview and	
	6	Sign Off By	E	Employee ID		Acceptance	
Task Maintena	ince Events	Mechanic		00001413 Password		La	_
+ Due List	Task	Inspector	[Em	ployee ID is	now editable.	
MODIFICATION IN: TSK-0001-2016 I 00-0			[2611 #		Part Consumption 0/0 Pending	Resources 2
Task description po	p up check loi 1-00			CF6-ENG			
The pollution monitor As required task I 00-	oring body ha 00			Date And Time 10/Nov/2017 16:58:05	ŧ		
			C	Comments		R	
			0-				
			Sign	Off			

Exhibit 2: The Configure Dual Authentication screen

\star 🔋 Configure Dual Authentic	cation				RamcoRole - RAMCO OU	- ≭ 를 덛 ← ?	Ç K
PIN Settings	No. of invalid entries 3			No. of digits	for PIN 1		
- Configure Functions							
(i i 3/3) → + □ ▼	Υ.			7 F 6 X 5	🗒 😒 👎 🖨 🔟 🗛	•	ρ
# 🗖 Application Group	Entity	Action	Authentication Type	Remarks	Created by	Created Da	ste
1 🗖 Desktop	Aircraft Maintenance Execution	Sign-Off	Not Required	*	DMUSER	2//Uct/201	1/ 15:30
2 🖹 Desktop	Aircraft Maintenance Execution	Vnid task	Login Password & PIN	v	DMUSER	27/Oct/201	7 15:30
3 🗖 Mobility	MechanicAnywhere	Sign-Ott	Login Password & PIN	*	DMUSER.	27/Oct/201	7 15:30
4 🗉				*			
4			Prerequisite d	ata to be defined h	ere		•
			Save				

Ability to update parameters against Task/subtask from MechanicAnywhere

Reference: AHBG-21149

Background

A provision to update mandatory parameter readings for tasks and sub tasks before their completion is available in **Aircraft Maintenance Execution** screen in the desktop application. A similar feature is required in the **MechanicAnywhere** to support mobile users to record parameter values before the task/sub task completion.

Change Details

In order to facilitate the update of parameter values against tasks/sub tasks in **MechAnywhere**, the following changes have been incorporated in **Task Card Details**:

- New button **Parameter Recording** has been added In the **Task Card Details** screen. On click of this button the **Parameter Recording** popup will appear. However, this button will not be available for tasks/subtask for which no parameters require to be updated.
- The **Parameter Recording** button displays = (Count of parameters not updated for task/sub tasks / Total cunt of parameters defined for task/sub tasks). For every task/sub task, the following fields appear in the tab:
 - ↔ Parameter Displays all the parameters defined for the task/sub task
 - o Value/Eval. Response Captures the value of the parameter.
 - o Exe. Remarks Captures the remarks of execution of the task
 - Updated Date & Time Captures the date on and time at which the parameter value was updated.
 - Updated By Captures Employee code of the login user
- Icon differentiator for Mandatory, Pending, Completed, New and Delta parameter values
 - o Mandatory parameters are displayed in Red
 - o Parameters for which update is completed are displayed in Green
 - Parameters for which update is pending are displayed in Yellow

- Image identifiers for **New Update** and **Delta Update** parameters
- Callout popup over the Parameter field that will display **Current Value** and **Permitted Values** (only if available)
- **Conditional Evaluation** multiline will display the following information respective to the parameters. User can select the checkbox and on update, the system will assign the Follow-Up Task# to the package if the parameter value matches the trigger value.
 - Trigger value (Min/Max)
 - o Follow-Up Action
 - Follow-Up Task #
 - o Follow Up Instruction
 - ↔ Remarks

Exhibit 1: The Parameter Readi	g button in Task (Card Details screen
--------------------------------	---------------------------	---------------------

iPad 🗢		9:49 AM		34%
E-Log	Task Carc	Details 1 PR-0001-20	18 A380	
Task Desc Parameter Recording in MechanicAnywhere	Maint. Object JS-101 - A320-211	Exec.Doc # I Type VP-003139-2018 - Log card	Discrepancy 🔶 Part Discrepancy	n Total Open Total
Plan Dates and Time 12-03-2018-12-03-2018 16:37:28 21:37:28	CO∉	Customer # - Name	0 0 0	0 0 0
In-Progress Z Pend Mect & Ins	ing with panic Execution pector Comments	Parameter Recordir 17/17 Pending Estimation Status Pending	Part Consumption & Return	00:00:1 Remaini
Sub Task	Fask Instruction			Attachments 4
Sub Tasks			Mechanic	Inspector
Parameter Becc	ording using Sub Task		00	N/A
			01	
Parameter Reco	ording using Sub Task 1		N/A	00
				01
Parameter Reco	ording using Sub Task 2		01	00
			00	01



Exhibit 2: The Parameter Recording pop up for task

÷			4	1:38 PM				֎ 19% ∎
E-Log		Task Ca	rd Details 1	PR-0001-20)18 A380			
ask Desc		Maint Object	Exec Doc #1T	vne	Discrepan	ncv 上 Par	rt Request 📕	Comp. Repl
Parameter	r Recording		11	PR-0001-2018 Reco	ording Parameter			8
Task	Sub Task							
Parameter	Value/Eval.Response	Exe.Rema	rks		Update Date &	Time	Updated By	
N EC					12-03-2018	16:38:00 📾	00001413	
N EH					12-03-2018	16:38:00 📾	00001413	
D FC					12-03-2018	16:38:00 📸	00001413	
Conditional E	valuation				10.00.0010	16:20:00 ==	00001410	
Parame	eter Trigger Va	lue Follov	w-up Action	Follow-up Task#	Follow up	o Instruction		Remarks
FH	10 / Min8 :	Max10 Initiat	e Immediate	task1-001				
Fuel Us	sage 100 / Min1	00 : Ma Initiat	e Records Fo		Load the	Fuel with near	er station	
					Click her	e to update meters.		
Leg	gends							
			Upd	late Task				
Mandatory	D Delta Value 🚺 New Valu	ae						



Exhibit 3: The Parameter Recording pop up for sub task

iPad *	ŝ		4:3	88 PM		
< E	-Log	Та	sk Card Details 1	PR-0001-2018	A380	
Tas Pa M Pl 12 16	Parameter Recording	Tap sub ta which par readings o recorded.	ask for 11 Pr rameters 1 I Pr can be	R-0001-2018 Recording	Discrepancy 📕 Part Request g Parameter	Comp. Benl
	Parameter Recording using Sub Task	Parameter	Value/Eval.Response	Exe.Remarks	Update Date & Time	Updated By
	Parameter Recording using Sub	D APUH	100		12-03-2018 16:37:00	00001413
	Parameter Recording using Sub	N EF	20		12-03-2018 16:37:00	00001413
	Task 2	N FCR	20		12-03-2018 16:37:00	00001413
	Conditional Evaluation		Tallaura Astro	T-11-1-4		Descrite
	Parameter Trigger	Value	Follow-up Action	Follow-up Task#	Follow up Instruction	Hemarks
>	Legends Mandatory Pending Complet	ed 🕦 Delta Va	Update	Cli tas	ick here to update sk parameters.	



Exhibit 4: The Current & Permitted values Callout

iPad 奈	9:49 AM		
< E-Log	Task Card Details 1 PR-0001-	2018 A380	
Task Desc Pa Parameter Recording M	Maint Ohiect Exec Doc #1 Type 1 PR-0001-2018 F	Discrepancy 上 Part Request 上 Recording Parameter	Comp. Bepl
Pi Task 5 Tap the callout t 16 Parameter	con to launch hat displays Current hitted values.	Update Date & Time Updated By	
N EH Summary	8	13-03-2018 09:49:00	
Current Value 166 Permitted Value 2,4,6		13-03-2018 09:49:00	
E FH		13-03-2018 09:49:00 📾 00001413	
Fuel Usage Conditional Evaluation		13-03-2018 09:49:00 📾 00001413	
Parameter	Trigger Value Follow-up Action Follow-up Tas	sk# Follow up Instruction	Remarks
FH	10 / Min8 : Max10 Initiate Immediate task1-001		
Fuel Usage	100 / Min100 : Ma Initiate Records Fo	Load the Fuel with nearer station	
			_
	Update Task		_
Mandatory U Delta Value	New Value		

Ability to Add/View Component Tasks in e-Log of

MechanicAnywhere

Reference: AHBG-19820

Background

Presently, the users can create and assign the Aircraft tasks to a package in **MechanicAnywhere**. However, the Component tasks cannot be manually created or added to a package in the mobile application.

Change Details

To support creation and addition of the **Component** tasks by users, the below-listed changes have been done in the **MechanicAnywhere** mobile application.

- In the Add From Task Library and Create Task tabs of Task popup in the Maint. Events & Task tab of the E-Log screen, the following have been added:
 - Drop-down list box **Job Type** to capture **Component** tasks. The drop-down list box to default the **Job Type** as "Aircraft".
 - New input fields Part #, Serial # and Position Code to capture component details
- In the **Maintenance Events** popup in the **Maint. Events & Task** tab of the **E-Log** screen, the following have been added:
 - o lcons to differentiate the Aircraft and Component applicable tasks.
 - New Component Details section to view the Component and Job type details of the tasks.
 Component Details section to display only if Job Type is selected as On-Wing/Off-Wing/Component Removal
 - o Job type of the task to be displayed alongside task details

Exhibit 1: The Task popup in the Maint. Events & Task tab of the E-Log screen





Exhibit 2 The Add From Task Library tab in the Task popup in the Maint. Events & Task tab of the E-Log

screen



Ability to display and modify the Sign Off Comments in MechanicAnywhere

Reference: AHBG-22394

Background

In **Aircraft Maintenance**, typically the **Quality Audit** team reviews the Sign Off comments that the mechanics provide on completing a task or closing a discrepancy. Further, the mechanics would also want to modify the Sign Off comments made previously or add new comments against a task/discrepancy. Considering these critical requirements, a provision to add, update and view the Sign Off comments against a task/discrepancy must be built into **MechanicAnywhere.**

Change Details

The following developments have been carried out in **MechanicAnywhere** to enable the addition, update and viewing of Sign Off comments:

Discrepancy Card screen:

• New column Sign Off Comments added in the Resolution History tab with an icon . This icon indicates that sign off comments are available for the discrepancy. The users can swipe the record to view the Sign Off Comments button. On tapping of the Sign Off Comments button, the Sign Off Comments popup opens up. Now, the users can add new comments or modify/view existing comments in this popup for the selected discrepancy.

Task Card screen:

- New Sign Off Comments History tab has been added in the Task Card Details screen. This tab displays the Sign Off Comments details of all the sub tasks of the selected task including Seq#, Sub Task Description, Skill #, Resource Group, , Employee #, Performed Date& Time and Sign Off Comments.
- The Sign Off Comments column displays the icon , which indicates that sign off has been completed and Sign Off Comments has been provided for the task. On swipe of the records the Sign Off Comments popup for the task/sub task appears. The users can add new comments or modify/view existing comments in this popup for the selected sub task.



Exhibit 1: New Sign Off Comments popup

iPad	Ŷ			11:25 PM			11% 11%
<	-Log		Discrepano	cy Card VP-0033	07-2018/6		
	Log Item # VP-00330	Maint Object A320-211 IJS-101	Source Doc # I Type Log cardIVP-003307-2018	Source Task #	Discrepancy	Part Request	Comp. Repl. 🕂
	ATA # 00-00	Station Name Adelaid	Work Center # 185-20	UnderResolution	Open Total	Open Total	Open Total
			Sign Off Comments				
			Comments Enter new or update	comments existing	Date and Time		
			comments	shere	24-05-2018 10:56:2	6 💼	
	Associa	te Repair Task Action Action	Tap the button to save comments. Entering new comments 00001413 - OWSIANYK, RICHARD	Add Comment	24-05-2018 10:56:13	INSPECTOF Pending	Record TimeSheet Sign Off Comments
	As		As per AMM	- MECHANIC	24-05-2018 10-54-08	307-2018	
	As	UnderF	As per AMM corrected by Mech 00001413 - OWSIANYK, RICHARD	nanic - MECHANIC	24-05-2018 10:54:08	307-2018	
			Tap wan com box.	to select the comm t to modify. The se iments appear in th	ients you lected le Comments		



Exhibit 2: The changes in the Discrepancy Card screen in MechanicAnywhere





Exhibit 3: The changes in the Discrepancy Card screen in MechanicAnywhere



Exhibit 4: The changes in the Task Card Details screen in MechanicAnywhere

iPad 🗢	•			11:	27 PM			🕑 11% 🔲
K E-	Log		Task Car	d Details 2	TSK-0001-2016	MPD		
Task MOE ANT	Desc DIFICATION ENNA REI	N INSTRUCTION #2 VHF	Maint. Object js-101 - A320-211	Exec.Doc # I Typ VP-003293-20	oe 018 - Line Package	Discrepancy	Part Request 🕂	Comp. Repl.
Plan 16-0 10:0	Dates and T 5-2018-18 1:47 07	ime I-05-2018 I:01:47	CO#	Customer # - Na	ime	0 0	0 0	0 0
In-F	Progress 🗹	Sign Off Requirement	Signed off	Execution Comments	Parameter Reco 2/2 Pending	ording Estimation Status Not Required	Part Consu & Return	Imption
	Sub Ta	sk Sign Off Comments	History	New 'Sign Off History tab	Comments	Attachr	10 ments	Record TimeSheet
	Seq #	Sub Task Decription	Skill #	Resource Gro	up Employee #	Performed Da	ate & Time Sig	gn Off Comments
	2.10	PITCH DISCONNECT - D	IS 00	Mechanic	00001413	16-05-2018		
	2.11	ELEVATOR SPRING TAB	M 00	Mechanic	00001413	16-05-2018		Z
	2.12	RUDDER PUSH OFF SW	IT CF6-ENG	Mechanic	00001413	16-05-2018		
	2.13	PITCH DISCONNECT - D	IS CF6-ENG	Mechanic	Swipe the record	to 6-05-2018		
	2.14	ELEVATOR SPRING TAB	M CF6-ENG	Mechanic	Comments butto	n05-2018		1
	2.9	RUDDER PUSH OFF SW	IT 00	Mechanic	00001413	16-05-2018		1
	2.3	ELEVATOR SPRING TAB	M 00	Inspector	00001413	16-05-2018		1
	2.10	PITCH DISCONNECT - D	IS 00	Mechanic	00001413	16-05-2018		1
	2.11	ELEVATOR SPRING TAB	M 00	Mechanic	00001413	17-05-2018		1
	2.11	ELEVATOR SPRING TAB	M 00	Mechanic	00001413	17-05-2018		Z

Exhibit 5: The Task Card Details screen in MechanicAnywhere

					11:29 PM			
E-I	_og		Tas	k Card Details	2 TSK-0001-201	6 MPD		
Task I		INSTRUCTION #2 VHF	Maint. Object js-101 - A32	Exec.Doc # 20-211 VP-00329	l Type 3-2018 - Line Package	Discrepancy	Part Request	Comp. Repl.
Plan I 16-09 10:01	Dates and Tin 5-2018-18- 1:47 07:	ne 05-2018 01:47	CO#	Customer #	- Name		0 0	0 0
In-P	rogress 🗹	Sign Off Requirement	Signed off	Execut Comm	Parameter R	ecording Estimation Status Not Required	Part Co & Retur	nsumption
	Sub Tas	sk Sign Off Commen	ts History			Attach	nments 10	Record TimeShee
	Coo #	Out Test Desciption	Skill	# Dessures	Outring Employee #	Dedama d D		
	Sed #	Sub Task Decription	OKIII	# Nesource	Group Employee #	Performed D	ate & Time	Sign Off Comments
	2.10	PITCH DISCONNECT - I	DIS 00	# Hesource Mechanic	00001413	16-05-2018	late & Time	Sign Off Comments
	2.10 2.11	PITCH DISCONNECT - I ELEVATOR SPRING TAB	DIS 00 B M 00	Mechanic Mechanic	00001413 00001413	16-05-2018 16-05-2018	ate & Time	Sign Off Comments
	2.10 2.11 2.12	PITCH DISCONNECT - I ELEVATOR SPRING TAI RUDDER PUSH OFF SV	DIS 00 B M 00 VIT CF6-	Mechanic Mechanic ENG Mechanic	00001413 00001413 00001413	16-05-2018 16-05-2018 16-05-2018	ate & Time	IZ IZ IZ
	2.10 2.11 2.12 2.13	PITCH DISCONNECT - I ELEVATOR SPRING TAI RUDDER PUSH OFF SV PITCH DISCONNECT - I	DIS 00 B M 00 VIT CF6- DIS CF6-	Mechanic Mechanic ENG Mechanic ENG Mechanic	00001413 00001413 00001413 00001413	16-05-2018 16-05-2018 16-05-2018 16-05-2018	late & Time	
	2.10 2.11 2.12 2.13 2.14	PITCH DISCONNECT - I ELEVATOR SPRING TAI RUDDER PUSH OFF SV PITCH DISCONNECT - I ELEVATOR SPRING TAI	DIS 00 B M 00 VIT CF6- DIS CF6- B M CF6-	Mechanic Mechanic ENG Mechanic ENG Mechanic ENG Mechanic	Group Employee # 00001413 00001413 00001413 00001413 00001413	16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018	late & Time	
	2.10 2.11 2.12 2.13 2.14 FF SWIT	PITCH DISCONNECT - I ELEVATOR SPRING TAI RUDDER PUSH OFF SV PITCH DISCONNECT - I ELEVATOR SPRING TAI	DIS 00 B M 00 VIT CF6- DIS CF6- B M CF6- c (Mechanic Mechanic ENG Mechanic ENG Mechanic ENG Mechanic 20001413	Group Employee # 00001413 00001413 00001413 00001413 00001413 16-05-2018	16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018	Sign	Sign Off Comments
	2.10 2.11 2.12 2.13 2.14 FF SWIT 2.3	PITCH DISCONNECT - I ELEVATOR SPRING TAI RUDDER PUSH OFF SV PITCH DISCONNECT - I ELEVATOR SPRING TAI . 00 Mechani ELEVATOR SPRING TAI	DIS 00 B M 00 VIT CF6- DIS CF6- B M CF6- c (B M 00	 Resource Mechanic Mechanic ENG Mechanic ENG Mechanic ENG Mechanic D0001413 Inspector 	Group Employee # 00001413 00001413 00001413 00001413 00001413 16-05-2018 00001413	16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018	Sign	Sign Off Comments
	2.10 2.11 2.12 2.13 2.14 FF SWIT 2.3 2.10	PITCH DISCONNECT - I ELEVATOR SPRING TAI RUDDER PUSH OFF SV PITCH DISCONNECT - I ELEVATOR SPRING TAI . 00 Mechani ELEVATOR SPRING TAI PITCH DISCONNECT - I	DIS 00 B M 00 VIT CF6- DIS CF6- C (B M 00 DIS 00	 Resource Mechanic Mechanic ENG Mechanic ENG Mechanic ENG Mechanic Ng Mechanic Inspector Mechanic 	Group Employee # 00001413 00001413 00001413 00001413 00001413 16-05-2018 00001413 00001413	16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018	Sign	Sign Off Comments
	2.10 2.11 2.12 2.13 2.14 FF SWIT 2.3 2.10 2.11	PITCH DISCONNECT - I ELEVATOR SPRING TAI RUDDER PUSH OFF SV PITCH DISCONNECT - I ELEVATOR SPRING TAI 00 Mechani ELEVATOR SPRING TAI PITCH DISCONNECT - I ELEVATOR SPRING TAI	DIS 00 B M 00 WIT CF6- DIS CF6- C (B M 00 DIS 00 B M 00	 Resource Mechanic Mechanic ENG Mechanic ENG Mechanic ENG Mechanic D0001413 Inspector Mechanic Mechanic Mechanic 	Group Employee # 00001413 00001413 00001413 00001413 00001413 16-05-2018 00001413 00001413 00001413	16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018 16-05-2018	Sign ton to	Sign Off Comments

Ability to add Open discrepancies in MechanicAnywhere

Reference: AHBG-16937

Background

The **Aircraft Maintenance Execution** business component in the **Ramco Aviation** desktop application allows user to add the Open (Under resolution) discrepancies to another package. This enables mechanics to work on the discrepancies, if they find the opportunity to work on them earlier than the scheduled date for the aircraft. Similar feature is required in the **Maint./Pilot Discrepancy** tab of the **E-Log** screen of **MechanicAnywhere** application as currently, the Open discrepancies cannot be added to another package.

Change Details

The Add Deferred Discrepancies popup in the Maint. /Pilot Discrepancy tab of the E-Log screen has been renamed as Add Discrepancies.

Now, the users can retrieve all the unresolved discrepancies of their choice and then allocate them to a package for execution.

The **Filter By** (first) drop-down list box has been added in the **Add Discrepancies** popup with the following values:

- Deferred
- Open

However, on launch of the **Add Discrepancies** pop up, the **Filter By** drop-down list box will display **Deferred** and the second drop-down list box (**Advanced Filter 1**) will display the following values:

- Due By Days
- Overdue By Days
- Remaining FH
- Remaining FC
- Discrepancy #
- Description
- ATA #
- Discrepancy Type
- Discrepancy Category
- Deferral Type

On selection of **Open** in the **Filter By** drop-down list box, **Advanced Filter 1** will load the following values:

- Discrepancy #
- Exe. Doc #
- Discrepancy Type
- Discrepancy Description
- Discrepancy Category
- ATA #

The users can use the third drop-down list box (**Advanced Filter 2**) to select the value for the attribute selected in **Advanced Filter 1**

Discrepancy Retrieval

To retrieve discrepancies from **Due Items**, the users can select 'Deferred' from the **Filter By** drop-down list box.

Alternatively, discrepancies in the following statuses from packages created against the aircraft are retrieved, if Open is selected in the first drop-down list box.

- Fresh
- Pending
- Under Resolution
- Pending Deferral
- Deferred

The users can select the check box for the discrepancies and then click the **Add** button to allocate the discrepancies to a package. These discrepancies assume the status of "Under Resolution" in the allocated package.



Exhibit 1: The Maint./Pilot Discrepancy tab of the E-Log screen

●०००० Airtel 🗢		2:05	PM			@ 73%
< E-Log		E-Lo	og			
Aircraft Reg# I Model Js-101 I A320-211	Log Card # I Ref. # VP-002857-2017	Station AIR INDIA STATION	Date & Time 09/08/2017 08:33:07 AM	FH 593.50	FC 110.00	Status In-Progress
Manage Package	Cabin Defect	Maint. Events & Ma Task Dis	int./Pilot crepancy Fuel / O	il Uplift	Preview and Acceptance	
+ Record Discret	pancy Write-up 🛉 Add Dis	crepancies 0	Discrepancy Details			
Discrepancy Op	en 0 Closed 0 De	ferred 0				
N	o Discrepancy Avai	lable	No Discre	pancy De	etails Availa	able
	ya - tanatakan kala atak kutata kakadi ina arakara					

Exhibit 2: The rechristened Add Discrepancies pop-up with Filter By as Deferred

••••• Airtel 🗢			2:30 PM				82% +
< E-Log			E-Log				
Aircraft Reg# Model 6y-jmr ACFT-ENGINE	Log Card # Ref. # VP-002415-2016 11	Station Montreal	Date & Time 19/11/2010	6 10:32:08 PM	FH 12.10	=c 5.00	Status In-Progress
Manage Package	Cabin Defect Ma	aint. Events &	Maint./Pilot Discrepancy	Fuel / Oil	Uplift Pi	review and cceptance	
+ Record Discrepand	y Write-up 🕂 Add Deferre	d Discrepancies 1	Discrepan	cy Details		-	
Discrepancy Open (Add Discrepancies				¢	3	
	Filter By Deferred 👻	Due By Days	- 3	6	r		
	VP-002437-2016/1/	MIREP / Deferred		-9 FH -2 FC	Over Due By 257 Days		
No I	2					Availabl	
			Add				
	Б-	_				_	



Exhibit 3: The rechristened Add Discrepancies pop-up with Filter By as Open

••••• Airtel 奈			2:30 PM				82% 82% 4
< E-Log			E-Log				
Aircraft Reg# Model 6y-jmr ACFT-ENGINE	Log Card # I Ref. # VP-002415-2016 I 11	Station Montreal	Date & Time 19/11/2016 1	0:32:08 PM	FH 12.10	FC 5.00	Status In-Progress
Manage Package	Cabin Defect Ma	aint. Events & sk	Maint./Pilot Discrepancy	Fuel / O	il Uplift	Preview and Acceptance	
+ Record Discrepand	y Write-up 🕂 Add Deferre	d Discrepancies 1	Discrepancy	Details		_	
Discrepancy Open (Add Discrepancies Filter By Open testasd VP-002437-2016/1/	Discrepancy #	VP-002437-2	2016/1		Availa	
			Add			_	

Ability to enter Execution Comments from Maint. Events & Task tab of E-Log screen

Reference: AHBG-21090

Background

A provision to record **Execution Comments** against a task similar to that available in the **Task Card Details** screen is required in the **Maint. Events & Task** tab in the E-Log screen for easy usability.

Change Details

In the **Maint. Events & Task** tab of the **E-Log** screen, new button **Execution Comments** has been added to facilitate recording of the execution comments against the task. The button displays the count of the execution comments already recorded for the task and on click of the button, the **Execution Comments** popup appears. The popup comprises two input fields **Comments** and **Date and Time** to record the following information:

- **Execution comments** against the task
- Date and time of entry of Execution comment

Subsequent to data entry, the user can click the Add Comment pushbutton to save the information.



Exhibit 1: The Execution Comments button in the E-Log screen

iPad 🗢		5:55 PM			15% 🚺 🔸
E-Log		E-Log			
Aircraft Reg#1 Model Log Care JS-101 I A320-211 VP-003	d # 1 Ref. # Station 1053-2018 Adelaid	Date & Time 24-Jan-2018 15:41	FH 633.50	FC 126.00	Status Planned
Manage Package Maint./ Discrep	Pilot Maint. Events & Task	Cabin Defect	Fuel / Oil Uplift	Preview and Acceptance	
Task Maintenance Event + Due List + Task Test NST-004555-2018 00-00 MODIFICATION INSTRUCTION	S Pla DN #2 VHF ANTENNA	Anned Task Details TSK-0001-2016 LOC MODIFICATION INS using a roof wedge install the base plate Part Request 2/2 +	0-00 I Aircraft STRUCTION #2 VHF or interior wedge, put e or interior hardware.	ANTENNA REINF in place before pl Parts Return 0/0	FORCEMENT If roceeding to
TSK-0001-2016 00-00	- In-	Progress Discrepancy Record Discrep Sign Off By MECHANIC Pending	Status pancy In-Progre	Execution Comme	ec. Comments Execution Comments



Exhibit 2: The Execution Comments popup in the Maint. Events & Task tab

ramco

Ability to edit the existing Corrective Action from Discrepancy Card screen

Reference: AHBG-21088

Background

A provision to modify the corrective action in the **Discrepancy Card** screen of **E-Log** is required to facilitate changes in the corrective action recorded previously against the discrepancy.

Change Details

New **Edit i**con has been added next to **Resolution Details** in the **Discrepancy Card** screen on the click of which the **Edit Discrepancy** popup appears. In this popup, the users can modify the corrective action and discrepancy description. However, the user is allowed to modify corrective action against the discrepancy only if no sign off has happened for the corrective action. If **Mechanic/Inspector/Both** sign off has already happened against the current corrective action, the system does not allow users to modify the corrective action.



Exhibit 1: Change in the Discrepancy Card screen

iPad 🗢				5:56 PM						15% 🚺
< E-Lo	g		Discrepand	cy Card VP-00305	2-2018/1					
Log VP-0	Log Item # Maint Object VP-00305 A320-211 IJS-10		Source Doc Type No Log cardIVP-003052-2018	Source Task #	Discre	pancy 🕂	Part Request 🕂		Comp.	Repl. 🕂
ATA	#	Station Name	Work Center #	UnderResolution	Open	Total	Open	Total	Open	Total
00-0	00	Adelaid	185-20		0	0	0	0	0	0
				^			Click to to mod Correc	he Edit ic dify tive Actio	on	
Pr	roblem De	etails		•	Resolution	n Details 🗹	4			*+
D	escription	Ø			Correctiv	e Action				
Te	est				Test					
					Current E	oc Type No I VP-00305	o 2-2018			
Re	eported E	By			Action Da	ite		Ac	tion 🗹	
00	0001413				22-Jan-2	018 18:12:0	0			
> 22	2-Jan-201	8 18:05:00			Deferred	Ву				
At	ttachmen	ts		+	Decor			Туј	pe I Item #	ŧi –
					neason					
					Sign Off	Ву				
			$\langle \rangle$		INSPE Pending	CTOR	/ MEC	CHANIC ding	Ż	
	Associat	le Repair Task	Resolution History							
Та	asks #	Descrip	tion	Ex	ec.Status	Sion	Off Status	Exe	ec.Doc	



Exhibit 2: Changes in the Discrepancy Card screen

iPad 🗢		5:56 PM			15% 💽 🦛
< E-Log	Disc	crepancy Card VP-00305	52-2018/1		
Log Item # Maint Ob VP-00305 A320-211	ject Source Doc Type N I IJS-101 Log cardIVP-00305	No Source Task # 2-2018	Discrepancy +	Part Request 🕂	Comp. Repl. 🕂
ATA # Station N 00-00 Adelaid	Edit Discrepancy		Orea Tatal	Conce Total	Open Total
	Source Type	Source#			
Problem Details Description	Description Test				}r +
Reported By	ATA# 00-00	Discr.Category	Repair Classification		ne Edit
00001413 22-Jan-2018 18:05:0	Corrective Actions				iscrepancy opup that opears on ick of the dit icon
Attachments	Sign Off Requirement Mechanic	RII			
		Save		ANIC 9	/
Associate Repair 1	Task Resolution History				
Tasks #	Description	Ex	ec.Status Sion	Off Status Exe	ic Doc

from search since the users may not want to view them.

Ability to filter, search and sort the tasks in Maint. Events & Task tab of E-Log screen

Reference: AHBG-21782

Background

In reality in MRO organizations, the packages that execute heavy checks on aircraft comprise of more than a hundred tasks. Since the **E-Log** screen has the capability to load all the tasks, the users find it demanding and time consuming to scroll through the lengthy task list to locate specific/desired tasks. Hence a provision to search for tasks within a package and to sort the retrieved tasks is required to make the task identification speedy for the users. Further, a provision is also required to exclude completed/closed tasks

Change Details

As part of this enhancement, the following have been incorporated in the **Maintain Events & Tasks** tab in the **E-Log** screen:

- Search box to retrieve tasks of the users' choice. Three filters have been provided including Task Description, Task # and ATA # based on which the tasks from the package will be retrieved.
- Toggle button has been added to include/exclude Closed items (tasks which are in Closed or Completed status) from the search. However, the toggle button will not influence the search criteria.
- Sort button to enable users to specify the display order of the retrieved tasks. Users can select from one of the following attributes:
 - Sequence #
 - o ATA #
 - o Zone
 - o Exec. Phase

ramco

Exhibit 1: The changes in the Maintain Events & Tasks tab in the E-Log screen

iPad 奈			12:10	AM (③ 33%
< E-Log			E-L	og			
Aircraft Reg# I Model js-101 I A320-211	Log Card # I Ref. # VP-003248-2018	Station Adelaid	Date & Time 09-05-2018	11:22:00	FH 673.996666667	FC 177.00000000	Status In-Progress
Manage Package	Maint./Pilot Discrepancy	Maint. Events & Task	Fu	el / Oil Uplift	Preview a Acceptan	und ce	
Task Mainte	enance Events			Task Detail	s		
➡ Due List	➡ Task	Show only Open Items		TRANSIT C	HECK 00-00 Ai	rcraft	►
Mod MODIFICATION TSK-0001-201610	I INSTRUCTION #2 \ 00-00	VHF ANTENNA T	lanned	Part Reque 0/0 Pending Discrepance + Record Sign Off B	st Componer 0/0 Pending v d Discrepancy v 2 v 2 v 2 v 2 v 2 v 2 v 2 v 2	tt Repl. Parts Retur Pandi Status Planned C Sign off not required	n Resources 1 Exec.Comments Execution Comments

Exhibit 2: The sort option in the Maintain Events & Tasks tab in the E-Log screen

iPad 🗢		12:11 AM			@ 33% 🔳 ·
KE-Log		E-Log			
Aircraft Reg# Model Log Card # Ref. # js-101 A320-211 VP-003248-2018	Station Adelaid	Date & Time 09-05-2018 11:22:00	FH 673.99666667	FC 177.00000000	Status In-Progress
Manage Package Maint/Pilot Discrepancy	Maint. Events & Task	Fuel / Oil Uplift	Preview and Acceptance		
Task Maintenance Events		Task Detai	ls		
+ Due List + Task	Sort By Show onl	ence #	🛞 0 I Aircr	Select the attri that will decide display order o retrieved tasks	bute 2 the f
Mod	• ATA #			ol Parto Doturo	Bosquimes
MODIFICATION INSTRUCTION #2 TSK-0001-2016 / 00-00	2 VHF ANTE)/0 nding	+ 0/0 Pending	1
	Exec.F	Phase	St	atus	Exec.Comments
		ОК	y Pi	anned 🗹	Execution Comments
			Sign	off not required	

Ability to identify the Sign Off requirements without entering Corrective Action in MechanicAnywhere

Reference: AHBG-21902

Background

The users in **MechanicAnywhere** become aware of the signoff requirement of a discrepancy only after the corrective action has been specified for the discrepancy. A provision is required to display the signoff requirement even before the corrective action has been specified by the mechanics. This will help mechanics to create discrepancies incidentally found at the time of inspection, which cannot be immediately rectified owing to time constraints.

Change Details

New process parameter 'Allow Identification of Sign Off Requirement without Corrective Action for Discrepancies?' defined under the entity type Package Type and the entity All User Defined values including Log Card but excluding "--All Packages--" in the **Define Process Entities** activity of **Common Master** will now determine whether **Corrective Action** for a discrepancy is required to view the Sign off requirement at the time of creation. However, this process parameter works in conjunction with another process parameter "Default Sign-off Requirement for Non Routines" as it handles the Sign Off requirement for package types. The Sign Off requirement toggles will be auto-enabled based on the process parameter in following screens of **MechanicAnywhere**:

- Record Discrepancy Write Up
- Create Discrepancy
- New Corrective Action
- Edit Discrepancy

Allow Identification of Sign Off	Default Sign-off	Impact in Discrepancy Write Up,
Requirement without Corrective	Requirement for Non	Create Discrepancy and New
Action for Discrepancies? Value	Routines Value	Corrective Action screens
1 / Allowed	"1" for 'Mechanic',"2"	The Signoff toggle buttons will be
	for'Inspector',"3" for 'Mech. &	auto-enabled on page launch
	Insp.'	
	0/Not Required	The Signoff toggle buttons will not
		be auto-enabled on page launch
0/Not Allowed	"1" for 'Mechanic',"2"	The Signoff toggle buttons will not
	for'Inspector',"3" for 'Mech. &	be auto-enabled on page launch
	Insp.'	
	0/Not Required	The Signoff toggle buttons will not
		be enabled on page launch

Note: However, in the Edit Discrepancy popup and New Corrective Action popup, the Sign Off Requirement toggle buttons (Mechanic/ Inspector) will remain selected or deselected as saved at the time of discrepancy creation.

Exhibit 1: The Discrepancy Writeup screen in MechanicAnywhere

iPad 🦻	<i>h</i> .	9:57 AM	
K E	-Log	E-Log	
Aircrat AI-70	It Reg# I 77 73	Discrepancy Write Up	us Progress
		Description	
Mai	nage Pi	Source Type Source Number Type Log Item#	
		• MIREP •	
Dis	crepan	ATA# Reported Date and Time Discr.Category Repair Classification	
2	VP-00	25-Jan-2018 09:57:40 📾 🗸	
	Assff		ljfwedqwl
B	68832	Corrective Action Action	
1	Test2		
	102	Sign Off Requirement Mechanic Inspector RII	
đ	Test1	Attachments	
		The toggle buttons are enabled-disabled	
ľ	VP-00	based on process parameter definition.	
	Save		
ľ	11	Hepeat	
-4	Test		
2	3070/1	Create Create & SignOff	
	Van	orcate a signon	





Exhibit 2: The Create Discrepancy screen in MechanicAnywhere

iPad 🗢		9:50 AM				18%
Contract Card Card Card Card Card Card Card Card		Create Discrep	ancy			
Type Log Iter	m # ATA #	Source # Type	Source Task #	Maint. Object		
	00-00	J VP-003009-201	°1/€3	A320-211 JS		
Problem		Resol	ution Details			
Description	Radio Communication	Co	rrective Action			
		Ac	tion		Date & Time	
Reported By	Attachments	+		•	25-Jan-2018 09:50:20	Ē.
00001413		Sig	n Off Requireme	ent		
Date & Time		C	Mechani		spector RII	
25-Jan-2018 09:50:20	int,					
		The togg		anablad disat	lad	
24		based on	process para	neter definitio	n.	
Reference Info						
Parts	Bequired		Cor	rosion Related	\frown	
1 dite			001	robion ribidiou		
1	Major Item			Repeat (\mathcal{O}	
	Add	Add & Sign C	off Clear			
Discrepancy List						

Ability to capture the Est. Man Hours during Discrepancy creation

Reference: AHBG-21726

Background

A provision is required in the **MechanicAnywhere** mobile application to capture the estimated hours of work required for the closure/resolution of the discrepancy at the time of creation. The estimated hours for a discrepancy is required since in the MRO industry, the mechanics must obtain approval from their supervisors to work on a discrepancy, if the estimated hours is more than eight hours. Additionally, a provision must also be available for users to modify the estimated hours for a discrepancy previously recorded at the time creation.

Change Details

A new input field **Est. Man Hours** has been added in the following screens of MechanicAnywhere to record the required hours of work on the discrepancy

- Discrepancy Write Up
- Create Discrepancy
- Edit Discrepancy

Another new input field **Reported By** has been introduced in the **Discrepancy Write Up** screen to enable users other than the logon user to report discrepancies. In the event of users not specifying the employee ID, the system defaults the field to the login user ID.

Exhibit 1: New fields in the Discrepancy Write Up screen in MechanicAnywhere

<			E-Lo	og			*	
Airc		Log Card # Ref. #	Station	Date & Time	FH	FC		
VH-	NXD 717	Discrepancy Write Up				\mathbf{X}		
(1)		Description						
-	 Record Discrep 	Source Type	Source #	Type	Log Item#			
		ATA#	Reported Date & Time	Discr. Category	Repair Classific	cation		
Dis			11/15/2017 - 12:30	-	r	•		
ď		Est. Man Hours	Reported By					
Ľ	Tes32 ADISC-000382	Corrective Action			Action	-		
-*		Sign Off Requirement Med	hanic Inspector (BII	Part Required	\bigcirc		
					Corrosion Related			
Ľ	Testdef ADISC-000379	Attachments		•	Major Item	$\overline{\bigcirc}$		
	Test	$\langle \rangle$			Repeat	$\overline{\bigcirc}$		
2			_					
			Create	Create & Sign off				

ramco

Exhibit 2: New field in the Create Discrepancy screen in MechanicAnywhere

<		Create D	iscrepancy			* ≡
Type Lo	g Item #	ATA # 00-00	Source # Type VP-00300-201	Source Task a VI-0934	# Main. Opbect A320-2019	
Problem			Resolution Details			
Description			Corrective Action			
Radio Communication			Action		Date & Time	
				*	11/15/2017 - 12:30	Ē
Reported By	Date & Time	Est. Man Hours	Sign Off Requirement			
	11/15/2017 - 12:30 👼	1	Mechanic	Inspector	BIL	
Attachments		•	Reference Info.			
$\langle \rangle$			Part Required	с	corrosion Related	
			Major Item		Repeat	
		Add Add &	Sign Off Clear			
Discrepancy List						

Exhibit 3: New field in the Edit Discrepancy screen in MechanicAnywhere

<			E-Lo	g			* ≡
Airc VH	oraft Reg # Model •NXD 717	Log Card # Ref. # ALINE-000012-2017 Edit Discrepancy	Station PERTH INT	Date & Time	FH 44192 96	FC 30098	Status
		Source Type	Source #		Type MIREP	*	
-		Description					
Dis		ATA #	Discr. Category		Repair Classificatio	n T	• 00:30:00 12 May 2017
đ		Est. Man Hours					
ď	Tes32 ADISC-000382	Corrective Action	-				
2		Sign Off Requirement Me	chanic Ins	pector R			Pending with RII
Ľ	Testdef ADISC-000379		Save	9			
Ľ	Test ADISC-000377	MIREP Under R	esolution				

Ability to defer a discrepancy from Discrepancy Write-up screen

Reference: AHBG-15390

Background

Discrepancies are maintenance requirements that may or may not affect the airworthiness of the aircraft. In real time scenario, if a reported discrepancy cannot be resolved before the next flight and if it will not affect the aircraft operations, a mechanic defers such a discrepancy at the time of creation itself. Though, a provision to create discrepancies in the shortest time exists in the **MechanicAnywhere** mobile application, the facility to defer a discrepancy at the same time as creation remains to be built into the system.

Change Details

- To enable mechanics to defer a discrepancy at the time of creation, the **Defer** option has been added in the **Action** drop-down list box of the **Discrepancy Write Up** pop up.
- New section **Defer By** has been added to enable users to record deferral limits to the discrepancy to be deferred.
- The **Defer By** section appears only on the selection of **Defer** as the action for the discrepancy.
- Deferral details including the following can be recorded by users in the **Defer By** section.
 - o FC
 - o FH
 - o Calendar
 - o Other Parameters
 - o Reason
 - o Type & Item #
 - Authorization #
- On tap of the **Create & Sign Off** button, the **E-Sign Off** page appears and the users can sign off the deferral of the discrepancy. A discrepancy is created in the "Deferred" status.



Exhibit 1: The Defer action in the Discrepancy Write Up screen

iPad 🔹	7		11:31 AM			3%
K E	-Log		E-Log			
Aircrat AE31	It Reg# I Model 711 I B777	Discrepancy Write U	ρ		8	Status In-Progress
		Description				
Mai	nage Package					Uplift
	Record Discr	Log Item#	Туре	Reported Date and Time		
			MIREP		to a second seco	
Dis	crepancy Ope	ATA#	Discr.Category	Repair Classification		•
đ	CA 789900398468			•	•	
-	HRS	Corrective Action		Action		
				Defer	-	
2	MAN hrs save 789900398461 CHILD DISC	Sign Off Requirement	nspector RII			
		Attaoninonio				Done
			Close	e Defer option added in the tion drop-down box.		
			Defer			
			2 0101			



Exhibit 2: The Discrepancy Write Up screen in E-Log

iPad	î.	11:31 AM	 3%
< E	-Log	E-Log	
Aircrat	ft Reg# I Model 711 I B777	Discrepancy Write Up	3 Status
ALOI	1110///	ATA# Discr.Category Repair Classification	intriogress
Mai	nage Package	· · · · · · · · · · · · · · · · · · ·	Uplift
	Becord Discr	Corrective Action Action	
-		Defer -	
Dis	crepancy Ope	Sign Off Requirement	•
đ	CA 789900398468	Mechanic Inspector RII The Defer By section to details for the discrepance Attachments Attachments Attachments Attachments	p record deferral ancy.
₫	HRS 789900398462		
đ	MAN hrs save 789900398461	Defer By	
	CHILD DISC 789900398460	FH FC Calendar	
₫	DISC-006 789900397529	Other Parameters Reason	ECHANIC
ď	DISC-05 789900397528	Type & Item# Authorization #	
	DISC-001 789900397525		
ľ	DISC-02 789900397527	Create & SignOff	

Ability to Create and Sign Off Discrepancy together in Discrepancy Write Up screen

Reference: AHBG-15426

Background

Discrepancies reported against aircraft require sign off from mechanics and/or inspectors with specific certified skills. Normally as a work practice, these discrepancies are created and signed off in one go so as to fast track the process. In the **MechanicAnywhere** mobility application, a provision to create & sign off a discrepancy at the same time is the business need of the hour.

Change Details

To enable Mechanics and Inspectors to perform discrepancy creation and sign off simultaneously, the **Create & Sign Off** button has been introduced in the **Record Discrepancy Write Up** pop up of **E-Log**.

- On tap of the **Create & Sign Off** button for **Corrective Action** (mandatory) with the Sign off requirement 'Pending Mechanic', the **E-Sign Off** pop up appears. The **Mechanic** field is defaulted with the employee code of the mechanic.
- On tap of the **Create & Sign Off** button for **Corrective Action** (mandatory) with the Sign off requirement 'Pending Inspector', the **E-Sign Off** pop up appears. The **Inspector** field is defaulted with the employee code of the inspector.
- On tap of the **Create & Sign Off** button for **Corrective Action** (mandatory) with the Sign off requirement 'Pending Mechanic & Inspector', the **E-Sign Off** pop up appears. The **Mechanic** field is defaulted with the employee code of the mechanic.
- On tap of the **Create & Sign Off** button, if Sign off requirement is set/derived as "Not Required", the **E-Sign Off** pop up does not appear nevertheless the discrepancy is created successfully.



Exhibit 1: The Discrepancy Write Up pop up in E-Log

iPad 🕈	î		1	11:30 AM				€ 3% <u></u> ,
< E	-Log			E-Log				
Aircra	ft Reg# I Model	Log Card # I Ref. #	Station	Date & Time		FH	FC	Status
AE31	/11 B///	Discrepancy Write Up					⊗	In-Progress
Ma	nage Package	Description						Uplift
-		Create and Sign Off						
	Record Discr	Log Item#	Туре		Reported Dat	e and Time		_
Dis	crepancy Ope		MIREP	•	16-11-2017	17:30:03	誌	×
	CA	ATA#	Discr.Categor	y.	Repair Classi	fication		
B	789900398468	00-00		•			•	
7	HRS	<u>y</u>						
		Corrective Action			Action			
₫	MAN hrs save 789900398461	Create &Sign Off test					•	
-1	CHILD DISC	Sign Off Requirement	ector BI					
6	789900398460	Attachments					+	
₫	DISC-006 789900397529							ECHANIC
ď	DISC-05 789900397528	$\langle \rangle$						
đ	DISC-001							
	789900397525		Create	Create & SignOff				
ľ	789900397527	MIREP UnderResoluti	ion	1				

ramco

Exhibit 2: The E-Sign Off popup in the Discrepancy Write Up popup

iPad 🦻	÷			11:3	31 AM			
K E	-Log			E-	Log			
Aircrat AE31	It Reg# I Model 711 I B777	Log Card # I 789900397	Ref. # 524 I L-01	Station AIR INDIA STATION	Date & Time 14-11-2017	The Employee ID defaulted based off requirement.) field will be on the sign	Status In-Progress
Mai	nage Package	Preview a Acceptance	E-Sign Off				S Fuel/O	ir Uplift
	+ Record Disc	repancy Write-up	Sign Off By		Employee ID			
Dis	crepancy Ope	en 8 Close	Mechanic		00041383 Pin			
đ	CA 789900398468	MIREP	Inspector		Skill #			
2	HRS 789900398462	MIREP			01 Date And Time			
2	MAN hrs save 789900398461	MIREP			16-11-2017	17:31:04		
₫	CHILD DISC 789900398460	MIREP			Comments			
2	DISC-006 789900397529	MIREP					i 🥖 M	NECHANIC
đ	DISC-05 789900397528	MIREP		Sigi	n Off			
	DISC-001 789900397525	MIREP	UnderResolution	>				
đ	DISC-02 789900397527	MIREP	UnderResolution	>				

Ability to perform Employee Time Booking automatically based on Task Actuals during Task Completion

Reference: AHBG-20217

Background

In certain Aircraft Maintenance scenarios, a single employee is assigned a task in a package and the employee individually works and completes the task. In such circumstances, it would be beneficial for the employees to manually book their timesheets at the time of completion of the task. However, presently, only direct timesheet booking is possible in MechanicAnywhere/Ramco Aviation and this mechanism is ideal for tasks on which multiple employees contribute their time/skills.

Change Details

Typically, the employees start and stop clocks to record timesheet indicating their contribution to the execution of a task in a package. On completion, the system based on the hours clocked on the task derives the actual man hours for the task as well as for the individual employees.

Onwards, to cater to a situation in which an employee takes up the execution of the task exclusively, the system will take into consideration the following details of a task (as recorded by employees) to enable automatic timesheet booking instead of the running clocks for a single employee – task combination in **MechanicAnywhere**, **Work Reporting Hub** and **Aircraft Maintenance Execution**.

- Actual Start Date and Time
- Actual End Date and Time
- Actual Man Hours

To facilitate manual timesheet booking in **MechanicAnywhere**, new input field **Act. Man Hours** has been added in the **Change Status** pop up in the **Task Card Details** screen of **E-Log**.

However, the manual timesheet booking for a task on completion by employees is influenced by the process parameter 'Automatically book Timesheet for Employees completing Tasks using the Task's Actual Hours?' added under the entity type Package Type and the entity "- User Defined Values -" in the **Define Process Entities** activity of **Common Master.** The table shown next illustrates the workability of the process parameter.

Process parameter value	Impact on timesheet booking on completion of task from package
0/Not Required	Direct timesheet booking based on clocks only possible.
1/Consider Act. Start Date	The system considers Act. Start Date and Time as Start Time of the Timesheet
& Time and Act. End Date	entry and Act. End Date and Time as End of the Timesheet entry for the task and
& Time	derives Act. Man Hours for the employee.
	Act. Man Hours = Act. Start Date and Time – Act. End Date and Time
2/Consider Act. Start Date	The system considers Act. Start Date and Time as Start Time of the Timesheet
& Time and Act. Hours	entry and then derives the End of the Timesheet entry for the task in the
	following way:
	End Date of the Timesheet entry = Act. Start Date and Time + Act. Man Hours)
3/ (Consider Act. End Date	The system considers Actual End Date and Time as End Time of the Timesheet
& Time and Act. Hours	entry for the task and derives Actual Start Date and Time in the following way:
	Act. Start Date and Time = Act. End Date & Time – Act. Man Hours)

Exhibit 1: The E-Log screen in MechanicAnywhere mobile app

🐽 🌣			4:07 PM				@ 82%
< E-Log		Task Card [Details 2 MULTI-63	300-EO-16 M	DD		
Task Desc ASB 206L-14-174,	ASB 407-14-106 (Part	Maint. Object N113AE - 206 L1	Exec.Doc # Type WO-000014-17 - WO	Discrep	oancy 🕂	Part Request	🔶 Comp. Repl. 🔶
1) INLINE OIL SUF CLEANING & INC XSMN AND FRE	Change Status			Open	Total	Open Tota	Open Total
Plan Dates and Tim 3/2/2017 -3/2/20	Status	Act. Start Date an	d Time Act. End Date ar	d Time Act. Hour	s		
	Completed 👻		1 1 1				
In-Progress 🗹	Execution Comments						Remaining
Sub Ta sk				New field - Ao Manual Hours	it.		Attachments
Sub Tas			Done			Ins	pector
				Ø	Maintena Control 2 9992	ince	Maintenance Control 2 9992
MULTI-63	юо-ЕО-16			æ	Maintena Control 2 9992	ince	Maintenance Control 2 9992

ramco

Ability to end all clocks and also to record employee timesheet from MechanicAnywhere

Reference: AHBG-22337

Background

Currently in **MechanicAnywhere**, the users can stop the running clock of tasks/discrepancies individually but not collectively. To stop running clocks of multiple tasks and discrepancies, the user has to tediously access each task/discrepancy and then stop the clock. A provision is required whereby a single action can stop the running clocks of all tasks/discrepancies started by a user.

In many MROs, the timesheet entries of employees are utilized for job costing and payroll. Hence a provision for employees to enter/edit timesheet entries manually would facilitate the straight through processing of job costing and payroll.

Change Details

A new button **End All Clocks** has been added in the **eLog** screen to stop the running clocks of all the tasks/discrepancies inside/across packages started by an employee. However, a new process parameter 'End all running clocks for login user inside/across package(s) in Mechanic Anywhere?' under the entity type 'Package Type' and the entity 'All Packages' has been added in the in the '**Define Process Entities'** activity of the **Common Master** business component to ascertain the clocks that must be closed. Based on the value for the process parameter, the system ends the clocks of tasks/discrepancies started by the users.

Process parameter value	Impact on running clocks
0/Inside Package	Stops all the running clocks associated with the login user inside the current
	package/execution document
1/Across Packages	Stops all the running clocks associated with the login user across packages

A new left pane activity **Record Timesheet** has been introduced to enable employees to create and manage timesheets. Additionally, the new **Record Timesheet** page can also be accessed from the following screens by new link **Record Timesheet**.

- E-Log
- Task Card Details
- Discrepancy Card

To view/modify/delete specific timesheets, the users can provide search criteria to retrieve the timesheet they wish to work with.

Exhibit 1: The new buttons in the E-Log screen

<				E-Log			* ≡
Airo VH	craft Reg # Model I-NXD 717	Log Card # Ref. # ALINE-000012-2017	Station PERTH INT	Date & Time 21-11-2017 11:07:05	FH 44192.96	FC 30098	Status In-Progress
Flig	ght Code	Attachments		+	😰 End All Cloc	ks	Record Timesheet
		< >					Print Package
				Less 🔺			
	Manage Package	Maintain Events & Task	Maintain / Pilot Discrepancy				
-	 Record Discrepar 	ncy Write-up 🕂	Add Discrepancy 0	Discrepancy Details			
Dis	screpancy Open O	D5 Closed 04 D	eferred 05	ADISC-000377-20	18 🗹		• 00:30:00 12 May 2017
8	Desc ADISC-000394	MIREP L	Inder Resolution	Description Test			
3	Tes32 ADISC-000382	MIREP L	Inder Resolution	Corrective Action 01			
,	Ве				Sign Off By		
	ADISC-000378	MIREP L	Inder Resolution	Under Resolution	Mechanic	Inspector	RII
-							
3	Testdef ADISC-000379	MIREP U	Inder Resolution	Additional Actions			

ramco

Exhibit 2: The new button in the Task Card Details screen

<		Task Ca	rd Details 2 ткs-7585-0001 VIS	SUAL INSP	PECTION			∛ ≡
Т Р 0 1	ask Desc. light Component Security Door lan Dates and Time 5/21/2015 - 24/05/2015 4:23:21 14:23:21	Maint. Object ATA348-A320 CO# CO-0012-2015	Exec.Doc # Type LN-204-2015 Line Package Customer # - Name Air India - Al09823 More T	Disc Oper 06	Total	Part Request Open Tota 06 15	st 🕇	Comp. Repl. + Open Total 06 15
In Pro	ngress 🗹 Sign off Requirement 🗹	Pending with Mechanic	Execution Comments Parameter Recordin 02/08 Pending	g Est Per	imation Status nding	► 1	00:30:00 2 May 2015	Remaining 10.5 Hrs
	Sub Task Task Instruc	ctions Resolution His	story			Attachm	ents	Record Timesheet
	Sub Tasks				Mechanic		Inspec	ctor
	Clean the area				N/A		N/A	
	All the fuel tanks you go to in dry and continuously ventilat	tro, or are adjacent to are ed with clean filtered air			Adams EMP ID 0	0372	Avi	onics
Mo	The fuel tanks are free from u contamination	inwanted material or			Edwards EMP ID 0	3 0300	Ø	William EMP ID 07553
					Smith EMP ID 0	0300	Ø	William EMP ID 07553

Exhibit 3: The new Record Timesheet screen

iPad 🗢		1:50 A	м			50%
E-Log		Record Tim	eShee	et The Search	n section	
Employee						
Employee Code Book	k. Code/Exec	Act.Code/Task#	From	Date	To Date	
00001413 VP-	-003201-2018		29-04	1-2018	16-05-2018	📰 Search
Search For		Search By				
Time Records 👻 All I	Records -	-				
		Less	\sim			
VP-003201-2018 Non std task 3	0.00 Hrs	VP-003201-2018			Ta tin	p to create a new hesheet record
09 May 2018 RICHARD OWSIA	NYK-00001413	Employee#		Rep.Work Statio	n	Status
		00001413		Adelaid	•	Fresh
Tap the tim	nesheet	Booking Type Att. Type		Time Class		
record to d	isplay on	AME	•	Normal	•	•
right		Booking Code/Exec.Doc#		Activity Code/Ta	sk#	Seq. #
		VP-003201-2018		NST-004683-2	2018	4
		Start Date And Time		End Date And Ti	me	Duration(in Hours)
		09-05-2018 14:55:05	睵	09-05-2018 1	4:55:27	0.00
The Search results		Comments Tap to save timesheet detail	S	Tap to display record Save	delete the yed timeshee Delete	t

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

Reference: AHBG-21723

Background

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

Change Details

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

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

Table 1:

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

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

Table 2:

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

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

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

Ability to Mandate Execution Comments before Task Sign Off/Completion/Closure

Reference: AHBG-21014

Background

Presently, **Execution Comments** is not a prerequisite for task sign off or compliance. The system allows users to sign off a task without even a single Execution Comments being recorded against the task. However, Execution Comments may be critical in certain aircraft maintenance scenarios and hence a provision to mandate **Execution Comments** during task sign off or completion or closure is required.

Change Details

Now, based on two new process parameters - "Allow Task sign off without any Execution Comments?" and "Allow completion/closure of Tasks without any Execution Comments?" defined under Entity type Package Type and Entity 'Log Card' and all user-defined entities in the **Define Process Entities** activity of **Common Master**, the system will not allow task sign off and compliance without any Execution Comments. The below table illustrates the functions of the process parameters.

Process Parameter	Value	Impact
Allow Task sign off without any	1/Allowed	Allows Sign Off against a task even if the user has
Execution Comments?		not provided Execution Comments and if
		Default Exec. Comments has not been defined
		against the task in Maintenance Task .
	0/Not Allowed	Allows Sign Off against a task only if the user has
		provided Execution Comments or if Default
		Exec. Comments has been defined against the
		task in Maintenance Task .
Allow completion/closure of Tasks	1/Allowed	Allows to change the status of the task to
without any Execution Comments?		Completed or Closed even without Execution
		Comments and if Default Exec. Comments has
		not been defined against the task in
		Maintenance Task.
	0/Not Allowed	Allows to change status of the task to Completed
		or Closed only if the user has provided Execution
		Comments or if Default Exec. Comments has
		been defined against the task in Maintenance
		Task.

Execution Comments for task sign off/compliance will become mandatory based on the above explained process parameters in the following screens:

- Record Aircraft Maintenance Execution Details
- Record Sign-Off & Work Completion



- Work Reporting Hub
- MechanicAnywhere

Reference: AHBG-13312

Background

The display of App version # in Mobility Apps can help user ensure that they are working with the latest version. This helps mechanics in the shop floors to be aware of the application version.

Change Details

The Hamburger menu in MechanicAnywhere App has been enhanced to display App version #.





Note: Users can view the App Version # through Hamburger menu; this will help to ensure that they are in the latest App Version.

ramco

Ability to Print Return Document from Mechanic Anywhere

Reference: AHBG-11903

Background

The enhancement brings the ability to generate Return Document from MechanicAnywhere once part returns are recorded.

Change Details

To provide the ability to print the Return report, the new button **Print Return Report** has been added in the **Parts Consumption** screen of Mechanic Anywhere.

Note: The button will be visible only if Material Return # exists for the record and is only applicable for "**AME**" returns.

Exhibit 1: 'Print Returr	n Report"	in Parts	Consumption	screen
--------------------------	-----------	----------	-------------	--------

No SIM ᅙ			1:49 PM	e 26% ■)
E-Log			Parts Consumption	
Execution Doc Type/Exe.Doc# Visit Package/VP-000741-2015	Seq # 1		Maint.Object A320-211/JS-101	Status In-Progress
Task#/Discrepancy# NST-003073-2015	Description TEST			
Parts Consumption 7 Part	s Return 6			
Part List	Pending	Returns	Part Information :35895 I EXPRESS U.S.RATE SH EET	Qty 0
•	Q		NST-003073-2015 TEST Accepted	
NST-003073-2015 TEST		\rangle		
Accepted I Removed Core			 Return Information 	
0-0440-4-0011:36361 MSN0004 I	MEAL T		Certificate Details	
NST-003073-2015 TEST	ړ.	\rightarrow		
Accepted I Removed Core	· · · ·	<i>(</i>	Record Return	Print Return Report
:35895 I EXPRESS U.S.RATE SH E	ET			
NST-003073-2015 TEST	ړ.			
Accepted Removed Core MRT-004581-	2017			
0-0440-4-0001:36361 43435454 3	SEE 25			
NST-003073-2015 TEST		>		
Accepted I Removed Core				
0-0440-4-0001:36361 43435454 3	SEE 25			
NST-003073-2015 TEST		>		
Accented I Removed Core		<i>r</i>		

Steps to Configure the Print Return Report

Step 1: Launch Parts Consumption screen from Mechanic Anywhere

- Step 2: Navigate to Parts Return tab
- Step 3: Once return is recorded, disable the Pending Returns toggle button
- Step 4: Select the returned part which has a Return #, the Print Return Report button will be visible.
- Step 5: Press Print Return Report.

Channe



Note: The MechanicAnywhere features involve commercials and are not available for all customers. Please contact your Ramco Account Manager

Ability to View sign off summary detail/Report

Reference: AHBG-22555

Background

In **MechanicAnywhere** mobile application, the technicians perform electronic sign off using augmented eWorkcard (in PDF format). Further, details of discrepancies, removed and installed parts are also recorded in MechanicAnywhere. All this vital information, if available in the form of Work Actuals report could be utilized for enhancing productivity and also to address statutory requirements. A provision is required to view task, discrepancy and component replacement information in **MechanicAnywhere** in the form of reports.

Change Details

In the MechanicAnywhere application, the users will now be able to

- Perform electronic sign-off in PDF forms
- Reverse sign-off in PDF forms
- Record parameter readings into PDFs
- Provide sign-off comments
- View sign-off details (Note: The users have to launch the **ePubs** application to view sign off details)
- Once sign-off is completed in PDF form, the same can be viewed as an attachment in the Work Actual Report from;
 - The View Exe. Ref # screen in Flight Log for AME packages
 - o The Review Work Execution screen of Shop Work Order for shop work orders

Exhibit 1: The **Task Instruction – Form** in **Task Card Details** page of **MechanicAnywhere** facilitates electronic sign-off

<page-header> XBCADDAGEN STRANSCOPPORT Server Server Server Serv</page-header>	iPad 🗢		12:04 PM	 31%
<form><complex-block></complex-block></form>	< E-I	_og	Task Card Details 1 TRANSIT CHECK MPD	
<page-header></page-header>			×	
In terms Intermediation Intermediation Intermediation Intermediation Intermediation Intermediation Intermediation Intermediation Intermediation Intermediation Internet Internet Interne	In-F	Progress 🗹	Signed off Extraction Comments Not Required Not Required	▶ 00:00:07 Remaining
Image Image <th< th=""><th></th><th>Sub Task</th><th>Task Instruction Task Instruction - Form</th><th>Attachments 4</th></th<>		Sub Task	Task Instruction Task Instruction - Form	Attachments 4
SVC / CHK Pre-Flight Check All of the diagonal states in the states			TASK TITLE	APPLICABILITY
MOTE: To be performed after "A" Check or 36 Hours Check or 8 Days check prior to next flight. <i>Luslage, Winss and Empennage</i> 9 9 <			SVC / CHK Pre-Flight Check	AIRPLANE ENGINE A319 A320 56-5B
1. Ensure Aircraft Maintenance Log Book, Cabin Log Book and maintenance work sheets are reviewed	>		 NOTE: To be performed after "A" Check or 36 Hours Check or 8 Days check prior to next flight. Fuselage, Wings and Empennage Perform general visual inspection of exterior surface of fuselage (360°) for condition and obvious damage. Check navigation, strobe, anti-collision and landing lights for obvious damage. Visually check the crew oxygen system thermal discharge indicators are not ruptured. Fuel Prior to refueling, carry out the refuel panel "LIGHT and HI LEVEL" test using the test switches (Task 12-11-28-740-050). Ensure the presence of trolley type fire extinguisher during fuelling After refueling ensure all filler caps are refitted and magnetic level indicators locked, refuel master switch in "OFF" position and panels are secured. Visually check fuel vent outlets for obstructions. 	
SignOff			1. Ensure Aircraft Maintenance Log Book, Cabin Log Book and maintenance work sheets are reviewed	
			SignOff	

Exhibit 2: The E-Sign Off popup

iPad 🗢	•			12	04 PM		6 31% •
< E-	Log		Task Card	Details 1	TRANSI	F CHECK MPD	
1					¥ .		
In-	Progress 🗹	Signed off	E-Sign Off	Estimation Sta Not Required	atus	Part Consumption & Return	► 00:00:07 Remaining
	Sub Task	Task Instructi	Sign Off By		Employe	9 ID	Attachments ⁽³⁾
		TASK SVC / CHK	Mechanic Johny HP 000007 7/31/2018 8:48:33 AM	Ø	000007 Password	í	APPLICABILITY ARPLANE ENGINE A310 56-58 MECHANIC
		NOTE: To be per Fuselage, Wino 1. Perform ge damage. 2. Check navi 3. Visually che	Inspector Johny HP I 000007 7/31/2018 8:48:33 AM	Ø	Pin •••• Skill # AF		
		Fuel 1. Prior to refu 12-11-28-740-05 2. Ensure the 3. After refueli switch in "OFF" 4. Visually che			Date And 05-09-20 Commen	Time 118 06:34:49 📸 Is	
		Miscellaneous 1. After water 2. After toilet s Final 1. Ensure Airc		Sig	n Off		
				Sig	gnOff		

ra	m	C	С

Exhibit 3: Facilitates Mechanic Sign-Off, Inspector Sign-off, Reject Sign-off functions

iPad 🧟	7	12:05 PM	€ 30%
KE-	-Log	Task Card Details 1 TRANSIT CHECK MPD	
		×	
In	-Progress 🗹	Signed off Execution Comments Not Required Not Required	▶ 00:00:07 Remaining
	Sub Task	Task Instruction Task Instruction - Form	Attachments 4
		TASK TITLE	APPLICABILITY
		SVC / CHK Pre-Flight Check	AIRPLANE ENGINE A319 A320 56-5B
	1/1	 NOTE: To be performed after "A" Check or 36 Hours Check or 8 Days check prior to next flight. Fuselage, Wings and Empennage Perform general visual inspection of exterior surface of fuselage (360°) for condition and obvious damage. Check navigation, strobe, anti-collision and landing lights for obvious damage. Visually check the crew oxygen system thermal discharge indicators are not ruptured. Fuel Prior to refueling, carry out the refuel panel "LIGHT and HI LEVEL" test using the test switches (Task 12-11-28-740-050). Ensure the presence of trolley type fire extinguisher during fuelling After refueling ensure all filler caps are refitted and magnetic level indicators locked, refuel master switch in "OFF" position and panels are secured. After to ultes for obstructions. Miscellaneous After to to ensure caps are fitted and panels are secured. After to to ensure caps are fitted and panels are secured. After to and panels caps are fitted and panels are secured. Ensure Aircraft Maintenance Log Book, Cabin Log Book and maintenance work sheets are reviewed 	

ramco

Exhibit 4: Rejecting Sign Off

iPad 🗢	•	12:05 PM	€ 30%
< E-	Log	Task Card Details 1 TRANSIT CHECK MPD	
		×	
In-I	Progress 🗹	Signed off Execution Comments Not Required Part Consumption & Return	▶ 00:00:07 Remaining
	Sub Task	Task Instruction Task Instruction - Form	Attachments 4
~		THE SVC / CHK Pre-Flight Check NOTE: To be performed after "A" Check or 36 Hours Check or 8 Days check prior to next flight. Fuselage, Wings and Empennage 1. Perform general visual inspection of exterior surface of fuselage (360°) for condition and obvious damage. 2. Check navigation, strobe, anti-collision and landing lights for obvious damage. 3. Visually check the crew oxygen system thermal discharge indicators are not ruptured. Fuel 1. Prior to refueling, carry out the refuel panel "LIGHT and HI LEVEL" test using the test switches (Task 12-11-28-740-050). 2. Ensure the presence of trolley type fire extinguisher during fuelling 3. After refueling ensure all filler caps are refitted and magnetic level indicators locked, refuel master switch in "OFF" position and panels are secured. 4. Visually check fuel vent outlets for obstructions. Miscellaneous 1. After reliel servicing ensures caps are fitted and panels are secured. 2. After toilet servicing ensure caps are fitted and panels are secured. 4. Visually check fuel vent outlets for obstructions. Miscellaneous 1. 1. After toilet servicing ensure caps are fitted and panel	APPLICABILITY AIRPLANE A319 56-5B MECHANIC
		SignOff	



Ŷ			12:06 PM		6 30%
-Log		Task Card Details	s 1 TRANSIT CHECK MPD		
			×		
n-Progress 🗹	Signed off	Execution Estima Comments Not Re	tion Status June Part Consumption & Ret	urn 🕨 00:00:07	Remaining
Sub Task	Task Instruction	Task Instruction - Form			Attachments 4
	TASK		TITLE	APPLICABIL	ITY
	SVC / CHK		Pre-Flight Check	A319 A320	engine i6-5B
	NOTE: To be perform	ned after "A" Check or 36 Hou	urs Check or 8 Days check prior to next fligh	t.	0
	Fuselage, Wings and	Empennage		(Free)	
	 Perform general v damage. Check navigation Visually check the 	visual inspection of exterior surf , strobe, anti-collision and landi e crew oxygen system thermal o	face of fuselage (360°) for condition and obviou ing lights for obvious damage. discharge indicators are not ruptured.		
	Fuel				
	 Prior to refueling, 12-11-28-740-050). Ensure the prese After refueling en switch in "OFF" position Visually check fue 	carry out the refuel panel "LIGI nce of trolley type fire extinguis sure all filler caps are refitted and and panels are secured. el vent outlets for obstructions.	HT and HI LEVEL" test using the test switches (wher during fuelling nd magnetic level indicators locked, refuel mast	er	5
	Miscellaneous				
	 After water servic After toilet servici 	ing ensures caps are fitted and ng ensure caps are fitted and p	i panels are secured. anels are secured.		
	Final				
	1. Ensure Aircraft M	laintenance Log Book, Cabin Lo	og Book and maintenance work sheets are revie	ewed	
		-			

Exhibit 6: E-Sign Off complete

ramco

Exhibit 7: The ePackage Manager screen (You can search and find the package for which you want to view

eSign off summary in this screen)

ePublications						?
ePackage Manager						
Search for Work ePackag	ge					
Customer Order	Work C	rder	Work Center		A/C Reg. #	
A/C Model	Compo	nent	Part #		Serial #	
Start Date	End	Date				
			Search			
Planned 14 In F	Progress 1 Cancelled 0	Completed 2	Closed 0			
Planned 14 In I Work Order Custome	Progress 1 Cancelled 0 er Order Work Center A/	Completed 2	Closed 0 # Planned Start Date	Total Tasks	Completed Tasks	Newly Approved
Planned 14 In I Work Order Custome VP-003141-2018	Progress 1 Cancelled 0 er Order Work Center A/ VUL-115-05 10	Completed 2	Closed 0 # Planned Start Date 5/4/2018 8:47:27 PM	Total Tasks 2	Completed Tasks	Newly Approved
Planned 14 In I Work Order Custome VP-003141-2018 VP-003139-2018	Cancelled O er Order Work Center A/r YUL-115-05 10 185-20 10	Completed 2 Reg. # Part # / Serial NA NA	Closed 0 # Planned Start Date 5/4/2018 8:47:27 PM 5/3/2018 7:15:19 PM	Total Tasks 2 1	Completed Tasks 0 0	Newly Approved 0 0
Planned 14 In I Work Order Custome VP-003141-2018 VP-003139-2018 VP-003137-2018 VP-003137-2018	Progress 1 Cancelled 0 er Order Work Center A/r YUL-115-05 10 185-20 10 185-20 10	Completed 2	Closed 0 # Planned Start Date 5/4/2018 8:47:27 PM 5/3/2018 7:15:19 PM 5/3/2018 7:5:31 PM 5/3/2018 4:56:31 PM	Total Tasks 2 1 1	Completed Tasks 0 0 0	Newly Approved 0 0 0 0 0
Planned 14 In I Work Order Custome VP-003141-2018 VP-003139-2018 VP-003137-2018 VP-003136-2018	Cancelled O er Order Work Center A// YUL-115-05 10 185-20 10 185-20 10 185-20 10 185-20 10 185-20 10	Completed 2 CReg. # Part # / Serial NA NA NA NA NA NA	Closed 0 # Planned Start Date 5/4/2018 8:47:27 PM 5/3/2018 7:15:19 PM 5/3/2018 7:15:19 PM 5/3/2018 4:56:31 PM 5/3/2018 4:40:00 PM 5/3/2018 4:40:00 PM	Total Tasks 2 1 1 1	Completed Tasks 0 0 0 0	Newly Approved 0 0 0 0 0 0 0 0
Planned 14 In I Work Order Custome VP-003137-2018 VP-003137-2018 VP-003136-2018 VP-003136-2018 VP-003136-2018 VP-003136-2018	Vorgerss 1 Cancelled 0 er Order Work Center A// YUL-115-05 10 185-20 10 185-20 10 185-20 10 185-20 10 185-20 10 185-20 10 185-20 10	Completed 2 CReg.# Part # / Serial NA NA NA NA NA NA NA NA	Closed 0 # Planned Start Date 5/4/2018 8.47.27 PM 5/3/2018 7.15.19 PM 5/3/2018 7.15.19 PM 5/3/2018 4.56.31 PM 5/3/2018 4.40.00 PM 5/3/2018 4.40.00 PM 5/3/2018 4.10.46 PM 5/3/2018 4.10.46 PM	Total Tasks 2 1 1 1 1 1 1	Completed Tasks 0 0 0 0 0 0	Newly Approved 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Exhibit 8: View eSign off details for package

ePublications						?	2
ePackage Manager							
View Work Instructions							
Package Name VP-003141-2018	Package Type A/C Maint. Exe. I	Ref. #	Version 2	Maint Object	A310/101		-
Cus order / Name /	Status Planned		Work Center YUL-115-05	Package Desc			
Start Date 5/4/2018 8:47:27 PM	End Date 5/4/2018 10:47:	27 PM					- 14
Search	Task Instruction - Form				Sign Off Stat	tus NA	
Go							- 1
Advanced							
Filter	NO	TASK		TECH			
Task Type -SORT-	1.	Remove LH engine pa	anel and LH flap bay panel.				
CONAIRTASK 72-00 1 Planned	2.	Ensure cabin heat is c	off.	EXE CO			н
▼ Non Routine	3.	Remove bleed air line	at upper aft corner of the plenum bulkhead and	d attach test fitting.			14
CDP-000683-2018 72-00 2 Planned	4.	Attach shop air source	e or an air source max.120 psi and pressurize	line.			
	Generate Pr	e Execution Report	Generate Post Execution Report				

ramco

Exhibit 9: View eSign off details (Expanded View)

Package Name VP-003141-2018		P	ackage Type A/C Maint. Exe. Ref. # Version 2				Ma	int Object A3	310/101			
Task Instruction - Form										Sign Off Sta	itus NA	λŔ
ePubs_TC_PdfSignoff.ashx			1 / 2						¢	<u>+</u>	ē	
	_	NO	TASK		TECH	INSP						
		1.	Remove LH engine panel and LH flap bay panel.			I						
		2.	Ensure cabin heat is off.		EXE 🖉							
		3.	Remove bleed air line at upper aft corner of the plenum bulkhead and attach test f	fitting.								
		4.	Attach shop air source or an air source max.120 psi and pressurize line.									
		5.	Leak check all pipe connections paying particular attention to the cabin heater valuair emergency dump system if installed.	ve and							#	
		6.	Open the cabin heater valve and ensure positive flow out of the cabin heater, shut cabin heater and ensure no air gets by the heater valve.	t off the							+	
		7	Ramoua air eourna and raconnant blaad air lina at nlaoum bulkhaad								Ξ	

Exhibit 10: The View A/C Maint. Exe. Ref # screen in Flight Log



ramco

Exhibit 11: Search package with work actuals

ePublication	15										?	2
Work Package Publ	isher											
Search for Work Pa	ckage									📌 Pini	1ed Packages 🔻	,
Package Source All	Ŧ	Request By			A/C Model #		Q Pa	ckage Type	All		Ŧ	
Package Name VP-(003141-2018 Pac	kage Description			Request From Date		Requ	est To Date				
Aircraft Reg #		Work Center #		Q	Print Job Status	All						
					Search							
Work Package List						Indicates w	hether repor	t is				
Package Name	Package Type	Aircraft R	Reg#	Descr	iption	with work	actuals or n	ot				
VP-003141-2018	A/C Maint. Exe. Ref. #	101					7/				3 Print Jobs 🔺	ŀ.
Print Job #	Request Date		Print Job Stat	us	Reque	sted By	With Actuals					
<u>3</u>	5/4/2018 7:09:46 PM		Succeeded		admin		Yes		8	6	8	
2	5/4/2018 7:02:50 PM		Succeeded		DMUSE	ER	Yes			6	S	
1	5/4/2018 6:51:38 PM		Succeeded		DMUSE	ER	Yes		8	6	8	
												ļ

Exhibit 12: Include section in view package

=	ramco ePublica	tions						?	2
Work F	Package F	Publisher							
View F	ackage						📇 Print Log	📌 Pinned Packages 👻	
							Search:		•
	Tally#	Tracking#	11. Seq# 11	Task#	Description	Revision	ΦΔΤΑ.#	11 Source Doc Type	
8	1	1	1	CONAIRTASK	conairtask		72-00	Other	
	2	2	2	CDP-000683-2018	disc		72-00	Other	
×	3	3	3	CDP-000684-2018	disc value		72-00	Other	1
Showing 1	4 1 to 4 of 4 en	4 tries	Inclu	ide section for work actuals report	Task		72-00	Other	1
Include Se	ction wer sheet sk executior	n details							1
≥ At	tachment	Discrepancy	details	Part removal/installation details	Material request details Parameter reading details	Partici	ipants Summary det	aits	
					Print Package View PDF				



Exhibit 13: View job log screen

Ξ	ePublications ?											
Work Package Publisher												
< Print Log												
	Package Type A/C Maint, Exe. Ref. # Package Name VP-003141-2018 Print Job # 3											
	A/C Model# A31	o		A/C Reg# 10	1		Work Actuals	Yes				
	Part # NA		Click here	to view the re	nort		Component #	NA				
	Work Center YUL	-115-05	generate	ed in offline mo	nde		End Date	05/04/2018				
Pa	ackage Description		7									
Print De	tails											
#	Print Job #	Package PDF	Work Actuals	Request Date	Requested By	Print Job Status	Message	Print Location	Cancelled By			
0	3	<u>VP-003141-2018_3</u>	Yes	5/4/2018 7:09:46 PM	admin	Succeeded	Copy PDF to repository - Success.					
0	2	VP-003141-2018_2	Yes	5/4/2018 7:02:50 PM	DMUSER	Succeeded	Copy PDF to repository - Success.					
0) 1	<u>VP-003141-2018_1</u>	Yes	5/4/2018 6:51:38 PM	DMUSER	Succeeded	Copy PDF to repository - Success.					
	New Printer Location											
	Print Cancel Job											

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