RAMCO AVIATION SOLUTION ENHANCEMENT NOTIFICATION Version 5.8.5

Maintenance

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WHAT'S NEW IN AME HUB?

Ability to Default the Search Toggle in AME Hub if no clock is currently running for the Package

Reference: AHBG-20305

Background

The **Work Reporting** hub provides three modes for retrieval of tasks/discrepancies: Status, Exception and Search. However, a provision to activate the Search Mode in the **Work Reporting Hub** screen automatically on selection of a package would cater to aircraft maintenance engineers/ mechanics who commonly retrieve / work / process tasks/discrepancies depending on specific criteria.

Change Details

To facilitate the activation of the Search mode in the **Work Reporting Hub** screen automatically upon the selection of the package by the user, new process parameter 'Show Search Mode by default on launch of the Work Reporting Hub?' under the entity type 'Package Type' and the entity 'Log Card' and 'All User-Defined Package Types' has been added in the Define Process Entities activity of Common Master.

If the retrieved package is of the type Log Card or any other package type for which the said process parameter is defined as 1 or 2, the Search mode in the **Work Reporting Hub** screen gets defaulted as explained here.

Process Parameter value	Impact upon selection of a package and click of the Go pushbutton in
	the Work Reporting hub
2	The Search mode appears automatically at all times
1	The Search mode appears only if currently no clock is running for any
	of the tasks/discrepancies in the package.

Exhibit 1: The Work Reporting Hub screen

\star 🗎 Work Report	ing Hub									7.	: 🗗 🕨	- ?
I want to 🔘 Create 🔘 Wo	ork on Aircraft Main	nt. Exe. # 💌 VP-001409-	2017 p	Go	Rep	orting Date Time		() ()	FH	HRS FC	CY	с
VP-001409-2017 In-Progress	Package Type Line Package	Aircraft Reg ∉ 6yjma		Customer Name Customer 38		Work Center # YEG-500-00		Complete 🔹	📋 Due List 🔗 Quick Links	🚹 Maint. Events	Prir	9 nt
Document Info T	>	Task Discre Th Built Source Task/Discrep. #	ne Search Ishbuttor	n mode op n based o	oens on n new p _{Search By}	click of the opposite opposite of the opposite	Go meter. ▼		Go Vie	ew:@ Simple 🔘 D	etail	
· VP-001409-2017		+ Additional Search										
		** = Fror CS M	> >> ⇒ S Sen Task #	0	ATA # O	Description	Execution	All	Source Task/Discren # Q	Source Tracking #	2	
		1 0 0	1 1-8737	7-0500-Othe- C	05-00	Test Inspection-1	Execution	In-Progress 🗸	Source rasiybiscrep. # "	Source Tracking #		
		2						*				
						<				>		
		To the stop Clock	Reset			Save Complete	•	Report Discre	p. Task Action	Hold Release		
		Request Par		Chan	ge Part	Sig	gn Off Subtasks	Quick Li	nks	,		
<	>											

Ability to view Package Description in the Work Reporting Hub & Help on Package

Reference: AHBG-23243

Background

Typically, the maintenance planners plan packages and provide appropriate description for them. These descriptions are provided in such a way that the maintenance engineers derive fairly good idea of what the package intends to accomplish upon execution. However, this information to be pertinent must be made available to engineers/mechanics at the actual time and place of work execution and reporting.

Change Details

Now, a new card **Description** for the execution package has been added in the **Work Reporting Hub** screen. Further, the permitted values for the existing process parameter '*Document Info cards display order in the Work Reporting Hub?*' that determines the display order of the third to the eleventh cards in the **Work Reporting Hub** page has been changed to **3-Customer**, **4-Object**, **5-ImpDates**, **6-Reference**, **7-Material**, **8-Flight**, **9-Cost**, **10-Parameter**, **11-Description**. This has been done in order to include the **Description** card in the display order in the **Work Reporting Hub screen**. (The first two tiles Package Dates and Work Progress cards are system-placed and hence their display order cannot be changed by users.)

Additionally, as part of this enhancement, **Package Description** has been added to the **Execution Ref # Details** multiline in the **Help on Execution Ref. #** page.

Exhibit 1: The Work Reporting Hub page

*	Work Reporting Hub				RamcoRole - RAMCO OU 👻 🎞	₽ ← ?
I wan	t to 🔘 Create 🔘 Work on Aircraft Maint.	t. Exe. # 👻 789900042873 ₽	Go Reporting Date Time		FH 0.00 HRS FC 0.0	0 CYC
789 Hold	900042873 Package Type Visit Package	Aircraft Reg # AC-STE-01	Work Center # 185-20	Complete +	Due List Maint. Events Quick Links	Print
	ocument Info					
	Material Info (Pending / Total) Request 8/17 Issue 8/9	Reference Info Log Ref# Station AIR	Important Dates	Object Info A/C Model # A320 A/C MSN AC-STE-01MFG	Description Left wing full check- with repair and replacement of damaged components	
~~	Replace 0/0 Return 0/0	Exe. Category 1-Repair CAPEX Prop. #	Proj. Compl. Date	Last JLog # Next Due in -364 Days		>>
	Parts Hub	AOG Priority		Due Items 2 Overdue Item(s)		
0	T >	Task Discrepancy		T	he new card that	
		≣ ! Q		p	rovides description	
÷	- 789900042873	10 ALL 0 My Clock Running	0 All Clock 10 Work on Hold	7 Estimation Required	f the package	al
		INO records to display		All	٩ 🗸	
		# Error CS WS Seq Task # J	P ATA # P Description	Add New Execution Comments	Previous Execution Comments	
	<	Start Clock Stop Clock Reset Request Part	Save Compl Change Part	ete • Poport Discrep. 1 Sign Off Subtasks Quick Links	Action Hold Release	

Exhibit 2: The Help on Execution Ref # page

p on Execution Ref #						≣ ⊄ ? □	ā [
Council Calibration			Da	te Format dd-mm-	^^^	hh:mm:ss am/pm					
Search Criteria	Execution Ref. # Visit Package 🔻			Task Statu	Planned & In-Progr	ess 🔻					
	Doc.Category			Aircraft Reg #	:						
	Station	•		Work Center #	E						
	Task #			Task Description							
	Discrepancy #		Log Item #								
Discrep	ancy Description			Journey Log #	t						
Planned	Aircraft Model #	w 'Package		Task Category Task Type	/						
	Operations Type Descrip	otion' column		Exec. Phase Zone							
Execution Ref # Details		Sear	rch								
 1 - 5 / 3045 + ++ 				e # # 0	All	Ŧ	Q				
Execution Ref. #	Package Description	Package Type	Aircraft Reg. #	Seq #	Task #	Task Description					
789900042873	Left wing full check- with repair an	d Visit Package	AC-STE-01	1	ME/LOG-1.1	Maintenance Event : Bird Hit					
789900042873	Left wing full check- with repair an	d Visit Package	AC-STE-01	2	ME/Log-1	Maintenance Event : Bird Hit					

Ability to modify description & ATA # of Non Standard Tasks and Discrepancies

Reference: AHBG-23245

Background

Currently, description and ATA # once recorded for non-standard tasks and discrepancies cannot be updated in **Aircraft Maintenance Execution** and **Shop Work Order** business components. In case of incorrect entries, the users are forced to cancel the tasks/discrepancies and then create task/discrepancy records afresh with the correct description and ATA #. This becomes tedious for users and hence a provision to modify description and ATA # is required to simplify the editing process for non-standard tasks and discrepancies.

Change Details

Now, the users can modify the description and ATA # of non-standard tasks and discrepancies in the following screens based on the definition of the new process parameter 'Allow modification of Description & ATA # of open Non Routines?' defined in the **Define Process Entities** activity of **Common Master**.

- The Plan Work Order and Record Shop Execution Details screens in Shop Work Order
- The Work Reporting Hub screen in AME Hub
- The E-Log screen and Discrepancy Card in MechanicAnywhere

Process	Entity Type	Entity	Value	Impact: The system
parameter				
Allow	Package Type	All User Defined	0	Does not allow changes in Description and
modification of		values including		ATA # of Non-standard tasks and
Description &		Log Card but		discrepancies against aircraft
ATA # of open		excluding "All	1	Allows changes in Description and ATA #, if
Non Routines?		Packages"		the non-standard tasks and discrepancies
				against aircraft have not yet been signed off
			2	Allows changes in Description and ATA # of
				non-standard tasks and discrepancies against
				aircraft
Allow	Shop Work	All Work Order	0	Does not allow changes in Description and
modification of	Order Type	Types		ATA # of non-standard tasks and
Description &				discrepancies against component
ATA # of open			1	Allows changes in Description and ATA #, if

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Process	Entity Type	Entity	Value	Impact: The system
parameter				
Non Routines?				the non-standard tasks and discrepancies
				against components have not yet been
				signed off
			2	Allows changes in Description and ATA # of
				non-standard tasks and discrepancies against
				component

Exhibit 1: The Work Reporting Hub screen

\star 🗎 Work Reporting	g Hub						74 ¢2	← ?
I want to 🔘 Create 🔘 Work	on Aircraft Main	t. Exe. # 💌 VP-010329-2018	P Go	Reporting Date Time		FH 0.00 HRS	FC 0.00 C	YC
VP-010329-2018 In-Progress	Package Type Line Package	Aircraft Reg # vt-eso	Work Center # 185-20		Complete 🔻	1 Due List 🔥	Maint. Events	rint
+ Document Info								
0 7	>	Task Discrepancy						
		5 ALL 0 My Clock Running	0 All Clock Running	0 Work on Hold	D Estimation Required	View : 🖲	Simple 🔘 Detail	
		No records to dis	olay] 🕨 🕨 🗮		All	T	Q	
		# Error CS WS Seq Task	#	# Description	Add New Execution Comments Pr	evious Execution Comments		
				Modifica on proce	ition of fields depen	nds	>	
		Start Clock Start Clock Reset		Save Complete	▼ Report Discrep.	Task Action Hold	Release	
		Request Part	Change Part	Sign	Off Subtasks Quick Links		•	
<	>							

Controlled MMD Printing in Parts Hub

Reference: 23113

Background

Currently, the users can generate / print MMD for part issues against material requests only before confirming stock issue, recording AME details or planning material. However, ability to print MMD from **Parts Hub** is required to enable generating/printing of MMD straightaway without navigating to other components.

Change Details

As part of this enhancement, new quick action button **Print MMD** has been added in the **Parts Hub** page to enable the printing of MMD for issues against material requests. However, this button works only if an issue is available against the chosen material request.

Exhibit 1: The Parts Hub screen

Đ	Part	s Hi	ub																			2¢ Ç	3 🔸	- ?
Exe	e. Doc. #	ŧ₽	VP-0	1589-3	2018			Se	arch For				Task # / Type	/ Description / AT	A #	Search								
VP- In-	001589- Progress	2018		Ta	isk / Dis	crep. #		Туре	Stat	US	Descripti	on				Rep. Tim	e		10					
	Part R	tequi	irem	ents /	Req	uest	Part At	tach / Re	nove															
	≡ !	Q																				_		
	0	ALL			0	Mater Availa	al Not ble	0	Need Date Crossed	0	Pending N Part Crea	lew tion								View : @) Simple	🔘 Detail		
	44 4	1	- 1	1	• •													All		v		Q		
	# 8	- 1	Error	MS	АVI	Sourc	e Task/Dis	rep. # 🔎	Seq #	Tracking #	Part #	P	Required Qty	Qty. Available	UOM	Priority		Stock Status	Warehouse #	Part Descripti	on	1		
	1										"AD 42"						*	*	~					
	2																*	*	~					
	New button for printing MMD Check Part Avi Cancel Short Close											>												
											Save P	art Requ	irement Re	quest Part		Print	MMD	Quick Li	nks			•		

Work Reporting Hub Task & Discrepancy Multiline Changes

Reference: AHBG-17369, AHBG-17707, AHBG-17216

Background

During aircraft maintenance, the maintenance engineers may stop the ongoing tasks/discrepancies to be continued and completed later. In such cases, a provision is required to exhort the engineer to provide the reasons/clarification for stopping the clock for the task/discrepancy. Such data could prove to be critical reference for future maintenance.

Similarly, engineers may want to modify the previous execution comments recorded for the tasks/discrepancies in order to correct errors/update information. However, in this process of modification, an engineer could end up modifying execution comments recorded by another engineer. Hence, a provision to allow modification of the previous comments for a task/discrepancy made only by the login users themselves must be available in the system.

Next, a provision to enforce entry of sign off comments by the mechanics/inspectors against every corrective action for a discrepancy is required in the system. The sign off comments could be used by mechanics/inspectors to convey additional information on resolution of discrepancies.

Change Details

Mandating New Execution Comments against tasks/discrepancies

New process parameters have been added under the entity type **Package Type** and the entity **Log Card** in the **Define Process Parameters** activity of **Common Master** to mandate the entry of execution comments and modification of last execution comments for task/discrepancies

Process Parameter: Mandate New Execution Comments for Tasks during Stop Clock in								
the Work Reporting Hub?								
Value	Impact on Add New Comments column in the Task tab / Manage							
	Discrepancy Popup / Task Actions Popup of Work Reporting Hub							
0 / No	The Add New Execution Comments field is not mandatory for the							
	stopping of the clock for task/discrepancy.							
1/Yes	The Add New Execution Comments field is mandatory for the stopping							
	of the clock for task/discrepancy.							
	However, this process parameter works in conjunction with the following							
	two existing process parameters when they are set as 1 (Yes):							
	Automatically stop login user's running clock during							
	Completion/Closure/Pre-Closure of Task?							
	Automatically stop login user's running clock during							
	Closure/Deferral/Transfer of Discrepancy?							
	This implies the users will be required to provide execution comments on							
	stopping of clock automatically by the system against							
	Completion/Closure/Pre-Close-Closure of task or							
	Closure/Deferral/Transfer of discrepancy.							
	Note that automatic Completion/Closure/Pre-Closure of task or							
	Closure/Deferral/Transfer of discrepancy occurs only if the above-listed							
	process parameters are set as 1 / Yes.							

Exhibit 1: The Task tab in Work Reporting Hub

\star 🗻 Work Reporting Hub					7\$	日 + ?
I want to 🗇 Greate 🖲 Work on Arcraft Maint.	Exe. # vP-000009-2012 p	Go	Reporting Date Time	5 B	PH 100447.2HRS PC 29	00 CYC
VP-000009-2012 Peckage Type In-Progress Visit Package	Aircraft Geg # 6Y-3MR-1	Customer Name Customer 7	Work Center # YUE-104-02	Complete -	1 Due List 🖨 Maint, Events	Print
📄 Document Info						
Package Dates Preved Start Arr 30 2014 Actual Start May 23 2014 Rianed End Juli 23 2018 Actual End Delayed Start by 23 Delayed Start by 23 Delayed Start by 23	Work Progress Tasls (Deen/Total) 1/1 Decrypts. 5/0/7 (Open/Del/Total) Tot. Etc. Han Hrs. 8 Tot. Act. Man Hrs. 6 25% Completed	Description	/	Parameter Info APUN 9 HRS GG 122 AMP PCYC 212 CYC PP: 303 AM	Cost Info (Est/Act) in CAD Lobors 0/0 Material 224/0 Pacity 0/0 Add: 0 224 Est / 0	» Act
0 7 >	Task Discrepancy					
VP-0000552012 Decrepancies Cosed	Source Task/Discrep. # NST-000206-2017	5 2 AT	carch By	All Add New Execution Comments	Go View : Simple O Det	1
(+) Transferred (+) UnderResolution	2 D	00206-2017	-ou test			
Tasks Planned NST-000206-2017:test	_					
		This field on mandator	can be made y on the bas	is of	>	
	Start Clock Stop Clock Reset	process pa	arameter.	Report Discrep.	Task Action Hold Release	
	Request Part	Change Pa	rt	Sign Off Subtasks Quick Link	•	
< >>						
	<					>

Allowing changes in Previous Execution Comments against tasks/discrepancies

Process Parameter: Allow modification of Previous Execution Comments in the Work								
Reporting Hub?								
Value	Impact on Previous Execution Comments column in the Task tab / Task							
	Actions popup of Work Reporting Hub							
0/ Not	The users cannot modify any Previous Execution Comments for							
Allowed	task/discrepancy.							
1/ Only Login	The users can modify any Previous Execution Comments for							
User's	task/discrepancy that they have themselves recorded them.							
Comments								
2/Allowed	The users can modify Previous Execution Comments for							
	task/discrepancy.							





Enforcing entry of Sign Off Comments against task/discrepancy

Process Parameter: Mandate Sign Off Comments	during Med	chanic / Inspector Sign Off?
Impacted Screens	Value	Behaviour
The Add New Sign Off Comments column in	0 / No	The column / field is not mandatory for the
the Task / Discrepancy tab of Work Reporting		signing off the task / discrepancy by
Hub		Mechanic / Inspector.
	1 / Yes	The column / field is mandatory for the
		signing off the task / discrepancy by
		Mechanic / Inspector
The New Comments field in the Sign Off	0 / No	The column / field is not mandatory for the
Comments section in the Task Actions /		signing off the task / discrepancy by
Discrepancy Actions popup		Mechanic / Inspector.
	1 / Yes	The column / field is mandatory for the
		signing off the task / discrepancy by
		Mechanic / Inspector
The Sign-Off Comments column in the Task	0 / No	The column / field is not mandatory for the
Sign-Off Details multiline in the Record Sign Off		signing off the task / discrepancy by

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Process Parameter: Mandate Sign Off Comments during Mechanic / Inspector Sign Off?								
Impacted Screens	Value	Behaviour						
& Work Completion page in the Record AME		Mechanic / Inspector.						
Details activity	1 / Yes	The column / field is mandatory for the						
		signing off the task / discrepancy by						
		Mechanic / Inspector						

Exhibit 3: The Task Actions popup Work Reporting Hub

News: News:	Task Actions Task # 78990004 Status In-Progree + Actual Date & Time	5554 SS X V	Description Fyihcry		¢ 5 X	Data Migration User RamcoRole - RAMCO OU
	Execution Comments New	w Comments	0	Add		
	44 1 -1/1 >>> # Exe. Comment 1 Exec comm	This field can be mandatory on t process parame	e made he basis of eter.	Added By S, DOMINIC	Added Date & Time 30-07-2016 03:42:55 PM	5xecut m
	Sign Off Details		Sign Off Comments		^	
	Mechanic Inspector RII	00041383 p S, DOMINIC 00041383 p S, DOMINIC	Prev. Comments		$\hat{\mathbf{c}}$	>
	Additional	Q	Ok		v	elease
Work Reporting Hub -> Work Reporting						3596 Minute(s) 1:36 PM

Enforcing entry of Repair Classification for discrepancies

New process parameter Mandate Repair Classification for Discrepancies during Maintenance Execution? has been added under the entity type Package Type and the entity All Packages; to decide whether the Repair Classification attribute for a discrepancy is mandatory at the time of creation in the Manage Discrepancy popup in Work Reporting Hub.

Process Parameter: Mandate Repair Classification for Discrepancies during Maintenance					
Execution?					
Value	Impact on the Repair Classification field in the Manage Discrepancy				
	popup of Work Reporting Hub and in the Discrepancy tab of Record				
	AME Details activity				
0 / No	The Repair Classification field is not mandatory for the creation of a				
	discrepancy in the Manage Discrepancy popup				
1 / Yes	The Repair Classification field is mandatory for the creation of a				
	discrepancy in the Manage Discrepancy popup				

Exhibit 4: The Manage Discrepancy popup in Work Reporting Hub

*	Work Reporting Hub Manneu Start Apr 30 2014	Discreps. 5/0/7		APOIL VING	Mat	x ⊑ ←	?
~	Planned End Jul 23 2018	(Open/Def/Total)		GG 122 AMP		lity 0/0	>>
Ę	Actual End Delayed Start	Source Task/Discrep. # Type MIREP V Reported by 00041383	Source Desc. Log Item # ATA : Reported Date III Reported	¥ ρ		224 Est / 0 Act	
		Description				View:	ai
	VP-00009-2012 Sicrepancies Closed Transferred	Parts Required?	Corrosion Related?	Major Item?		Est. Man Hrs.	
		+ Action	Report Discrepancy This field mandato process p	can be made ry on the basis of parameter.			
	VP-000009-2012/1::ddd	id		<		>	
	NST-000206-2017::test	Image: Start Clock Image: Stop Clock Image: Stop Clock Reset	Save	Close 💌 Report Discrep.	Discrep. Action	Hold Release	

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	Allows Sign Off against a task only if the user has
	Allowed	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	Allows to change status of the task to Completed
	Allowed	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

Ability to Default Search Toggle in Aircraft Execution Hub if no clock is currently running for the Package

Reference: AHBG-20305

Background

The **Work Reporting** hub provides three modes for retrieval of tasks/discrepancies: Status, Exception and Search. However, a provision to activate the Search Mode in the **Work Reporting Hub** screen automatically on selection of a package would cater to aircraft maintenance engineers/ mechanics who commonly retrieve / work / process tasks/discrepancies depending on specific criteria.

Change Details

To facilitate the activation of the Search mode in the **Work Reporting Hub** screen automatically upon the selection of the package by the user, new process parameter 'Show Search Mode by default on launch of the Work Reporting Hub?' under the entity type 'Package Type' and the entity 'Log Card' and 'All User-Defined Package Types' has been added in the Define Process Entities activity of Common Master.

If the retrieved package is of the type Log Card or any other package type for which the said process parameter is defined as 1 or 2, the Search mode in the **Work Reporting Hub** screen gets defaulted as explained here.

Process Parameter value	Impact upon selection of a package and click of the Go pushbutton in
	the Work Reporting hub screen
2	The Search mode appears automatically at all times
1	The Search mode appears only if currently no clock is running for any
	of the tasks/discrepancies in the package.
0	The Search mode appears only on the intervention of the user,
	meaning on click of the (search) icon.



Exhibit 1: The Work Reporting Hub screen

🔺 🗎 🛛 Work Repo	orting Hub							74	₽ ← ?
I want to 🔘 Create 🔘	Work on Aircraft Main	t. Exe. # 🔻 VP-001409-2017	₽ Go	Reporting Date	Time	1 C	FH	HRS FC	CYC
VP-001409-2017 In-Progress	Package Type Line Package	Aircraft Reg # 6yjma	Customer Name Customer 38	Work Cen YEG-500-0	ter #	Complete 💌	📋 Due List 🔗 Quick Links	🛓 Maint. Events	Print
Document Info T	>	Task Discre The Se	earch mode ope utton based on	ens on click new proces Search By	of the Go ss parameter.		Go View	r:● Simple ◎ Deta	1
+- VP-001409-2017		+ Additional Search	₩			All	T	Q	
		# Error CS WS Seq	Task # 🔎	ATA # 🔎 Descripti	on Execution	Status	Source Task/Discrep. # 👂	Source Tracking #	
		1 🗉 🕓 • 1	1-B737-0500-Othe- \ominus	05-00 Test Ins	pection-1	In-Progress 🗸			
				<				>	
		Image: Start Clock Image: Stop Clock Image: Stop Clock Result Result	et	Save	Complete v	Report Discre	p. Task Action Ho	l Release	
		Request Furt	change	- urc	Sign of Subtasis	Quick Li	ika	•	
<	>								

Ability to enforce Need Date for Material Requests in Parts Hub

Reference: AHBG-21982

Background

The need date for aircraft parts in the **Material Request** document is a key detail that governs material planning and procurement. However, the need date in the **Parts Hub** of **Aircraft Maintenance Hub** is not mandatory and hence users tend to not specify this field. On absence of user entry, the system defaults the requested date as the need date. The requested date may not be the appropriate need date and further, this result in the piling of material requests on a specific day. A provision to mandate need date is required to ensure availability on the date the part is actually needed for maintenance.

Change Details

Now, the process parameter 'Enforce Need Date for Material Requests in Parts Hub' under In the entity type Package Type and the entity Log Cards and User Defined Values in the **Define Process Entities** activity of **Common Master** has been added to mandate need date for part requirements / material requests generated from the **Parts Hub**.

If the process parameter is defined as '1' / 'Yes', it becomes mandatory for the users to specify the **Need Date** field for the part in the **Part Requirements / Request** tab of **Parts** Hub. However, if the process parameter is set as '0'/'No', the users are not required to enter the need date for a part and the system defaults the **Need Date** field to the requested date, if the users do not provide the need date.

📄 Parts Hub	≍ ≓ ← ?
search	
Exe. Doc. # ρ Search For Task # / Type / Description / ATA # Search	
Task / Discrep. # Type Status Description Rep. Time 🛗	
Part Requirements / Request Part Attach / Remove	
	View :) Simple 🔘 Detail
0 ALL 0 Material Not 0 Indeed Date 0 Pending New Part Creation	
(i ← [No records to dsplay] > >> =	
# Cror NS AIZ Source Lask/bscrep. # D Seg # Lracking # Part # D Required Qty UUM Phonty Stock Status Warehouse # Part Decorptor	Need Date Material Request #
Need Date is mandatory, if the ner	w
process parameter is set as '1'.	
<	>
Save Part Penninement Remiest Part Chark Part Avil + Durk Links	

Exhibit 1: The Part Requirements / Request tab of Parts Hub

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

WHAT'S NEW IN TECHNICAL RECORDS?

Ability to manage Component Replacement from Tech Records Hub

Reference: AHBG-21483

Background

In **Tech Records**, currently, the system allows attachment of components though no provision exists for component replacement transactions. However, a provision to perform replacement and removal of components in addition to attachment is needed to make the **Tech Records** hub a one-stop shop for technical staff.

Change Details

In order to enable the users to execute component replacements, the following fields have been added in the **Configuration Details** multiline of the **Configuration** tab of **Manage Aircraft / Component Records** screen in **Technical Records**:

- Removed Condition (drop-down list box)
- Removal Type (drop-down list box)
- Reason # (Help Enabled)
- Removal Date & Time

Previously, the **Replacement Type** field drop-down list box loaded the lone **Attachment Only** option. Now, in order to facilitate removal and replacement of components, the following options have been added to the **Replacement Type** drop-down list box.

- Removal Only
- Replacement Only

Derivation of Replacement Type by system: However, if users do not specify the replacement type, the system derives the replacement type of the CR transaction as illustrated in the table next.

Scenario	Replacement Type automatically set by the system
	when not specified by user
If Component is not attached to the position	Attachment Only
code, and the user has provided Installed MSN or	
Installed Serial #	
If Component is attached to the position code,	Replacement Only
and the user has provided Installed MSN or	
Installed Serial #	
If Component is attached to the position code,	Remove Only

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Scenario	Replacement Type automatically set by the system
	when not specified by user
and the user has provided values provided value	
for any of the following fields:	
Removed Condition	
Removal Type	
Reason #	
Removal Date & Time	

Numbering Type for CR transactions: Next, The process parameter "Default numbering type for Component Replacement in 'Manage Aircraft / Component Records' screen" has been added under the entity type Tech Records Process Ctrl and entity Manage Technical Records in the Define Process Entities activity of Common Master. It is mandatory for the users to define a valid and Active numbering type for the said parameter in order to be able to create component replacements in the Manage Aircraft / Component Records activity of Technical Records.

Exhibit 1: The Manage Aircraft / Component Records screen



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Ability to upload documents from Tech Records Hub

Reference: AHBG-21431

Background

A provision is necessary to upload and view files associated with aircraft / component inducted from the

Technical Records hub.

Change Details

Two links **Upload Documents** and **View Associated Doc. Attachments** to upload files associated with aircraft / component have been added in the **Manage Aircraft / Component Records** activity in **Technical Records** as follows:

Configuration tab

- Addl. Links Section
 - Upload Documents
- View Links Section
 - View Associated Doc. Attachments

Program tab

- Aircraft Links Section
 - Upload Documents
 - View Associated Doc. Attachments
- Component Links Section
 - Upload Documents
 - View Associated Doc. Attachments

Compliance tab

- View Links Section
 - View Associated Doc. Attachments
 - Note: The View Associated Doc. Attachments link will be available only in the View screen mode (if the user has selected the View radio button at the top of the screen).

Exhibit 1: New links in the Manage Aircraft / Component Records screen

★ 🗎 Manage Aircraft / Compo	ent Records					🗣 Ramco Role -	RAMCO OU 👻	≣ ≭ ₽ ← ?		
Manage View Aircraft	▼ Aircraf	t Reg # 👂 VE-AT-2	Go					1 🖻 🖉		
Aircraft Reg # VE-AT-2 Air	traft Model # CESSNA 173	Mfr. Serial # 101		Aircraft Status Active		Ownership Owned				
	Configuration Program	Parameter Complia	ance							
	Configuration Status Ac	ive	Assembl	y Status Complete			Revision # 1			
VE-AT-2 CESSNA 173	Control Basis Pa	rt Effectivity 💌	Configurati	on Class ABC		T				
20-00	. Part #	ALT-2 : Alternate for SEC	4	Serial # S-1		c	Component # COO	6452-2016		
P1 ALT-2 Alternate for SEC S-1	Position	P1		Level 1.4						
··· 72-00	Q Al 1 Free	0 Mandatory 1 0	Open Mandatory	D Error Msg. O						
< >				_	Inde	ude Inactive Positions	🔽 Induc	le Child		
	44 4 1 -1/1 »	* =				All	T	Q		
	# ERR Message	Seq # Level Code	Position Code	Position Code Status	Position Part # 🔎	Position Part Description	Installed Part #	Installed MSN #		
	1	4 1.4	P1	Active 🗸	ALT-2	Alternate for SEC	ALT-2			
	0							>		
	Validate 🔹			Alternate Defn	Create Part	Effectivit	Upda	te		
		Save Draft	Build	Build / Update Approve			Cancel			
	Horks Addl. Links Edit Consumption & Range Parame Maintain Maintenance Info. for Ins Upload Documents	Edit Technical & Request New P	. Attributes Parameters art		Edit Notes Record Part # / Serial # Change					
	View Minimum Equipment List View Installed Part Info.	View Configural View File	tion Deviation List		View Position Part In View Associated Doo	nfo. c. Attachments				

Note: The above Technical Records Hub feature involve commercials and are not available for all customers. Please contact your Ramco Account Manager

Provision to restrict creation and effectivity update of Task from Tech Records Hub

Reference: AHBG-21693

Background

In **Tech Records**, the users can create parts and tasks. They can also define and update task and part effectivity. However, in some MRO organizations, the **Technical records** personnel are not permitted to create/manage task and their effectivity. Hence, a provision to allow / disallow creation and maintenance of tasks and effectivity based on organization policy is required to be built into the Ramco Aviation system.

Change Details

In order to allow /disallow creation and maintenance of tasks and effectivity definition by users in the **Program** tab of the **Manage Aircraft / Component Records** screen, the following restraint has been provided:

- Login users who have access to the system activity:
 - o Create Task can create tasks
 - o Update Effectivity can update task effectivity

It is recommended that only those users mapped to the **Create Task** and **Update Effectivity** system activities select the **Create Task** and **Update Effectivity** check boxes in the **Program** tab.

Exhibit 1: The Manage Aircraft / Component Records screen

Manage Aircraft / Compo	nent R	ecords														x d	+	?
Manage View Aircra	ft		•	Aircraft	Reg # 👂	101		Go								¥	t d	2 4
Aircraft Reg # 101	Aircra	ft Model # A3	310		Mfr. Ser	ial # SR101		Airc	aft Status	Active		Ow	mership Ow	ned				
		Configura	ition	Program	Paramete	r Compliar	nce											
			Maint.	Program #				Pro	gram Desc.					Program Sta	itus			
101 A310			Program	Revision #														
Draft				Part # 0	-0440-4-001	L:36361 : MEAL	ти		Serial #	33				Componer	nt # C003198-2	017		
			Prog	am Status 🗛	ctive				Revision #	• 0								
123123 10-3059-1:81205 KP	-UEL OV		AII	0 Escalat	od 0 be	lot Init O	Overdu		Prog 0	Fresh Bree								
POS-2 // 0-0440-4-0006:36361 //	ATLAS	<u> </u>	All	ESCalac	eu u i	VOC IIIIC. U	Overuc		10g. U	Fresh Prog	y. U	Include I	nactive / Ter	minated Tacks		Include Chi	а	
• POS-3 // 0-0440-4-0011:36361 /	/ MEAL			[No record	ic to dicplay						L	IIIGGGC I	nacove / rei	minaceu raska		Induce chi		
28-20		# 0	FRR	Part # 0	s to usplay.	Serial # 0		Task # O		Task Rev #	Task Desc	rintion	All	Templat	te Task # O	Para	meter	
* 72-00		1	LAR	Ture 🖉		Schulf #		TUSK #		1054 1107 #	Tusk Dese	ipuon		rempla	C 103k # 🎤	Turu	inctor	
		Validate	<	_							Cre	ate Task	Updat	e Effectivity	Update		>	
									_									
		+ Task Li + Aircraft + Compo + View Li	nks t Links – nent Lin nks	ks		Record / Up	date	Confirm		Return	C	ancel			Activate	Inac	tivate	

Sign Off Details Default in Task/Discrepancy pop up in Work Reporting Hub

Reference: AHBG-11503

Background

In aircraft maintenance, signing off tasks / discrepancies is one of the most frequent and crucial tasks. Hence, a provision is required in **Ramco Aviation** to simplify the repeated process of sign off on completion / close of task / discrepancy.

Change Details

The process parameter **Default Sign Off Details in the Task/Discrepancy Action popup in the Work Reporting Hub?** under the entity type **Package Type** and the entity **Log Cards** and **User Defined Package Types** in the **Define Process Entities** activity of **Common Master** has been added to expedite the sign off process in the **Work Reporting Hub** screen.

If the process parameter is set as 1/Yes, the system will validate for the following and then default the employee code of the login user in the Mechanic / Inspector fields of the **Task Actions** / **Discrepancy Actions** pop up:

- The sign off status must be **pending**
- The login user must belong to the respective resource group with the necessary skills

The above default behavior also works on selection of corrective action in the Discrepancy Actions popup.

Process	Sign Off Status	Default behavior of the Mechanic / Inspector field in Task
Parameter value		Actions / Discrepancy Actions pop up or on selection of
		Corrective Action in Discrepancy Action pop up
1 / Yes	'Pending	Displays login user employee code in the Mechanic field, if the
	Mechanic' or	login user belongs to the "Mechanic" or "Mechanic &
	'Pending Mech &	Inspector" resource group and has skills required for signing
	Insp'	off the task/discrepancy as Mechanic.
	'Pending	Displays login user employee code in the Inspector field, if the
	Inspector' or	login user belongs to the "Mechanic" or "Mechanic &
	'Pending Mech &	Inspector" resource group and has skills required for signing
	Insp'	off the task/discrepancy as Inspector.
	'Pending Mech &	Displays login user employee code in the Mechanic and
	Insp'	Inspector fields, if the login user belongs to the "Mechanic $\&$
		Inspector" resource group and has skills of both mechanic and
		inspector required for signing off the task/discrepancy.

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Process	Sign Off Status	Default behavior of the Mechanic / Inspector field in Task
Parameter value		Actions / Discrepancy Actions pop up or on selection of
		Corrective Action in Discrepancy Action pop up
0 / No	'Pending	Users have to input employee code in the Mechanic and
	Mechanic' or	Inspector fields based on the sign off status of the task /
	'Pending	discrepancy
	Inspector' or	
	'Pending Mech &	
	Insp'	

Exhibit 1: The Task Actions pop up

Actual Date & Time	lest1	
New Comments	Add	
< 1 - 3 / 3 > >>		14 ;
Exe. Comment	Added By	Added Date & Time
Inspect1 Sign off details defaulted based	DOMINIC SENECHAL	27-8-2018 10:37:01
Inspect on process parameter value	DOMINIC SENECHAL	27-8-2018 10:36:49
Refer amm	DOMINIC SENECHAL	27-8-2018 10:35:48
Sign Off Details	- Sign Off Comments	
Off Requirement Image: Comparison of the second s	New Comments	0
Inspector 00041383 ODMINIC SENECHAL RII O	Prev. Comments	0
Additional	_	
	Dk	~
		>

Note: This Technical Records Hub feature involves commercials and is not available for all customers. Please contact your Ramco Account Manager
Exhibit 2: The Discrepancy Actions popup

Discrepancy Actions	₽ ? X
Discrepancy # CDP-009141-2018 Description Crack in Corrective Action Status Change	left winglet
Corrective Actions + # 55 Corrective Action 1 Sealant to be applied On click of Corrective Action, the sign off details are defaulted based on process parameter value 	Corrective Action Corrective Action Corrective Action Sealan Sign off details defaulted based on process parameter value Sign Off Details Requirement Mechanic 00041383 P DOMINIC SENECHA N Inspector 00041383 P DOMINIC SENECHA RII Additional P
Prev. Comments	New Comments
- Actual Date Time - Component Details Close Discrepancy Sign Off	Save

WHAT'S NEW IN AIRCRAFT MAINTENANCE EXECUTION?

Ability to retain Material Requests across Discrepancy Deferrals

Reference: AHBG-15422

Background

Typically in the Aviation maintenance scenario, a mechanic upon identifying a discrepancy in an aircraft records the discrepancy details in the system and then requests for material for resolving the discrepancy. Next, the material planner upon inquiry finds that the required material is not available in stock or in the designated warehouses or even a stock transfer from a nearby warehouse to the material request warehouse is not possible. The material planner then decides to procure the material from a vendor and raises a purchase request purchase order for the material.

Meanwhile, the mechanic identifies that the reported discrepancy could be deferred on the basis of the MEL / CDL list. The mechanic now modifies the deferral limits so as to defer the discrepancy and releases the aircraft for operations. This results in the closure of the execution document to which the discrepancy was allocated. On closure of the execution document, the system automatically short closes the material request raised against the document. Since the material request is short closed, the goods received against purchase order raised for the material request could be allocated to other Open material requests. Later, when the same discrepancy is planned for execution in another package, the mechanic is forced to defer the discrepancy / ground the aircraft since the material is not available. This kind of scenario results in repeated material requests creation and delayed maintenance.

Change Details

As part of the enhancement, the system will now retain the same MR # (or at least have the Old MR # reference in a New MR, if the Old MR cannot be retained) across multiple discrepancy deferrals. This will ensure that any planning done against the MR # is retained. However, this enhancement will be dependent on the new process parameter "*Auto-Short Close Open Material Requests of Deferred Discrepancies on Package Closure?*" added under the Entity Type 'Package Type' and entity '--All Packages--' in the Define Process Entities page possessing the following behavior.

Process Parameter value	Impact in AME
0 (Not Required)	Authorized material requests are not short closed during package closure
	(New Behaviour)
1 (Required)	Authorized material requests are auto-short closed during package closure
	(Existing Behaviour)

Two different behaviors could occur when the process parameter is set as "0" and a deferred discrepancy with Open material requests are added to the New package from a closed package.

One, the work center of the new package has the same Serviceable Request Warehouse as the work center of the Old package for the part type of the requested part. When the Serviceable Request Warehouse of the work center of the New package is the same one as the Old package, the following process happens:



Regardless of the planning done on the material request, the system will move over the material request to the new package.

Two, the Serviceable Request Warehouse of the work center of the New package is different from that of the Old package, the following process occurs:



If planning is available against the Old material request against the discrepancy added to a New package (whose Serviceable Request Warehouse is different from that of the Old package), the system keeps the Old material request pending and at the same creates a New material request for the same part and quantity and stamps the Old MR # in the **Remarks** field of the New material request (for the reference of the material planner to indicate that the New mterial request doesn't need planning as planning has already been done for the Old material request in the Old package). When the New material request is issued and closed, the system will automatically shortclose the Old material request.

Note: No issue document can be confirmed against an material request that is open, if the Old package to which it refers to is already closed. On the contrary, If no planning is found against the Old material request associated with the discrepancy that has been added to a New package (whose Servicable Request Warehouse is different), the system will auto-shortclose the Old material request and create a New Material request for the same part and quantity. It will not stamp the Old MR # in the Remarks field of the New MR # (as this reference is not needed as no planning is done against the old material request).

Ability to retain the same Material Request # for Tasks & Discrepancies when Exe. Work Center is changed

Reference: AHBG-15961

Background

Typically, an AME identifies a discrepancy in an aircraft and added to a package. Next, MR are raised against the discrepancy for required parts, if they are found to be unavailable in the designated warehouses. Commonly, discrepancies are deferred to enable mechanics to close the execution document (based on the MEL / CDL list) and release the aircraft. Such deferred discrepancies are added to another package to facilitate their resolution. The work center of the new package to which deferred discrepancy is added may not be the same as that of the previous package as a result the warehouse of the old and new packages may or may be the same. In such scenarios, a provision to retain or transfer the MR (if material issues have not happened against the deferred discrepancies) to the new package would simplify and speedup the material request process already initiated for the deferred discrepancies.

Change Details

Users have the option to change the work center of a package in the **Edit Package Additional Information** page. When such an event happens, the system processes the MR associated with the tasks in the package on the basis of the process parameter "Auto-Short Close Open Material Requests that have Planning Documents on Work Center Change of Tasks & Discrepancies?" under the entity type 'Package Type' and entity 'All Packages' is '0' in the **Define Process Entities** activity of **Common Master**.

Process	Impact on Open MR of task associated with deferred discrepancy when work center is changed
Parameter	
Value	
0	If Serviceable Request Warehouse of the new work center is the same as Serviceable Request
	Warehouse of the previous MR and if any Stock Transfer Order, Stock Transfer Issue, Purchase
	Request, and Purchase Order documents are available for the MR, the following happens:
	The old MR is not short closed
	• The work center and the need date are updated in the MR
1	If Serviceable Request Warehouse of the new work center is different from Serviceable Request
	Warehouse of the previous MR,
	New MR is generated

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•	Old MR # is updated in the Remarks field of the new MR
•	Old MR is short closed
•	Stock Issues against the old MR are cancelled

Exhibit 1:



Exhibit 2:



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WHAT'S NEW IN WORK CENTER?

Ability to capture Work Calendar and Holiday Master at the Work Center level for accurate Customer TAT calculations

Reference: AHBG-15891

Background

In a large Cabin Maintenance MRO scenario, maintenance and repair bases are spread across vast geographical locations. Each of these locations follow varied work and holiday calendars. Hence, TAT for parts received in the work centers must be computed in terms of business days taking into consideration location-wise work and holiday calendars.

Change Details

TAT for a part is defined in the **Maintain Maintenance Info.** for Part screen and also quoted in the contract with the customer. However, in reality, TAT could be spread over many more non-working days or holidays determined by the location of the work center. Hence, the system for computation of TAT must take into consideration the work and holiday calendars effective for the work center.

To ensure that TAT for a part sent to a work center is computed and conveyed to customers accurately, the following enhancements have been undertaken:

New activity **Maintain Standard Work Calendar for Work Center** in the **Work Center** business component has been developed to define work calendars specific to work centers. This screen allows users to record the following for a work center:

- Work start/end time
- Working hours in a day
- Working days in a week,
- Working days in a month

New tab Holiday Definition has been added in the Associate Shift/Datewise Availability/Holiday Definition screen to allow users to associate Holiday Master to work centers. In this tab, a holiday master code can be mapped to a work center for a specific period. (Holiday Masters can be created in the Time Management Setup business component.) A display-only version of the Holiday Definition tab is also available in the View Shift/Datewise

Availability/ Holiday Definition screen for users to get to know the holiday master that has been mapped to the work center(s) and the effective period.

Based on work calendar and holiday definition for a work center and pre-set TAT for a part, the system will now be able to scientifically calculate the return date for the part.

Exhibit 1: The Maintain Standard Work Calendar for Work Center screen

*	D	Maintain Standa	rd Work Calendar for Work Ce	nter						Ramco Role	e - RAMCO OU	- x = d ·	+ ? 🗟 🗖
-Set W	ork	Timings and Weekly	Off										
44	4	1 - 10 / 109	9 • • + - 🗆 🛠 T Tx				人口	u x c e	× C #		All	T	Q
#		Work Center #	Work Center Description	Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Work Start Time	Work End Time
1		01	a	Working-Day	~	Working-Day 🗸	Working-Day 🗸	Weekly-Off	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Weekly-Off 🗸	02:27:25 PM	06:27:25 PM
2		0210	work center_desc	Weekly-Off	*	Working-Day 🗸	Working-Day 🗸	Weekly-Off	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Weekly-Off 🗸	02:00:00 AM	05:59:24 AM
3		1	1	Weekly-Off	*	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Working-Day	Weekly-Off 🗸	Working-Day 👻	Working-Day 🗸	09:00:00 AM	01:00:00 PM
4		100-00	Reference Work Center for 100-00	Weekly-Off	~	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Working-Day	Weekly-Off 🗸	Working-Day 🗸	Working-Day 🗸	09:00:00 AM	01:00:00 PM
5		100-01	Reference Work Center for 100-01	Weekly-Off	*	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Working-Day	Weekly-Off 🗸	Working-Day 👻	Working-Day 🗸	09:00:00 AM	01:00:00 PM
6		100-02	Reference Work Center for 100-02	Weekly-Off	*	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Working-Day	Working-Day	Working-Day 🗸	Working-Day 🗸	02:00:00 AM	05:59:24 AM
7		100-03	100-02	Weekly-Off	*	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Working-Day	Weekly-Off 🗸	Working-Day 🗸	Working-Day 🗸	09:00:00 AM	01:00:00 PM
8		100-05	Reference Work Center for 100-05	Weekly-Off	*	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Working-Day	Weekly-Off 🗸	Working-Day 👻	Working-Day 🗸	09:00:00 AM	01:00:00 PM
9		100-50	Reference Work Center for 100-50	Weekly-Off	~	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Working-Day	Weekly-Off 🗸	Working-Day 🗸	Working-Day 🗸	09:00:00 AM	01:00:00 PM
10		100-60	Reference Work Center for 100-60	Weekly-Off	*	Working-Day 🗸	Working-Day 🗸	Weekly-Off	Weekly-Off 🗸	Weekly-Off 🗸 🗸	Weekly-Off 🗸	02:00:00 AM	05:59:24 AM
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Exhibit 2: The Holiday Definition tab in the Associate Shift / Datewise Availability / Holiday Definition screen

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#		Holiday Master Code	Description	Effective From	Effective To	Added By	Added Date		
1		MS17RAMCO	Test Mid summer 2017	01-04-2017	31-05-2017	DMUSER	9/25/2017 2:53:13 PM		
2		CH17	Chennai Holidays 2017	01-01-2017	31-12-2017	DMUSER	9/25/2017 2:59:17 PM		
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WHAT'S NEW IN WORK MONITORING & CONTROL?

Ability to Display TAT Info & Material Availability for Work Orders and update Plan Dates & Priority in WMC

Reference: AHBG-17591

Background

In the process of Work Order Planning, the maintenance planners must be able to update the Planned Start date & time and Planned End date & time and Priority for shop work orders. Further, the TAT details and material request status related to work orders must also be available for the planners to enable precise maintenance planning and control.

Change Details

The users can now modify the Planned Start/End Date & Time and Execution Priority of shop work orders and AME packages in the Manage Work Assignments and Reporting screen in Work Monitoring & Control. The system intuitively derives TAT and Material status information for tasks/discrepancies and also at the document-level (work order) based on updated planed dates and priority. All this new information from the Manage Work Assignments and Reporting screen is incorporated in the concerned work orders and packages for execution. To render comprehensive TAT information on work orders and material requirements in the Manage Work Assignments and Reporting screen, the following display columns have been added in Gantt for the maintenance object - Component # or Part #/Serial #.

- Planned Start Date & Time
- Planned End Date & Time
- Actual Start Date & Time
- Actual End Date & Time
- Total TAT Days
- TAT End Date
- Rem. TAT Days
- Customer Required Date
- Promised Delivery Date
- Excusable Delays
- Under Warranty?
- Warranty Type
- Doc. Class

- Priority
- Customer Order #
- Customer Name
- Material Status
 - Note: The Warranty columns in Gantt are not available currently; will show in the next updated release.

Under the **Update Plan** group box, the following new input fields have been added to enable the users to update tasks.

- Planned Start Date & Time: The proposed date & time for commencement of the task.
- Planned End Date & Time: The proposed date & time by which the task must be complete.
- Priority: The priority for the execution of the task.

TAT Derivation for Internal Work Orders

The system automatically computes TAT for the work orders/packages on the basis of the process parameters that have been introduced in the Define Process Entities activity of Common Master as elaborated in the below table.

Process Parameter	Value	Computation of TAT Days
"Default TAT Days for Internal	"0" /	Total TAT Days = Planned End Date/Time - Planned
Work Orders?" under the entity	"Planned	Start Date/Time
type "Shop Work Order Type" and	End Date -	
entity "All Work Order Types"	Planned	
	Start Date"	
	Any Positive	Total TAT Days = Parameter value as defined in the
	Integer.	Define Process Entities activity

Total TAT Days Logic for External Work Orders

The system computes TAT Days in the following way:

- Total TAT Days = Customer TAT Duration (in Contract) + Adjustment Days (as of today if available)
 - Note: If the TAT duration is not available in the customer contract, the system derives the TAT duration in the same way as it does for the internal work orders.

Total End Date Logic for Work Orders

The system computes TAT End Date in the following way:

 TAT End Date = Receipt Date (from the latest Customer Goods Receipt of the Main Core) + Total TAT Days

If Receipt Date is not available in the Customer Goods Receipt of the Main Core, TAT End Date is set as Planned Start Date of the work order.

Rem. TAT Days Logic for Work Orders

• Rem. TAT Days = TAT End Date – Date/Time of Today

Derivation of Document-level Material Status for task/discrepancy in shop work orders

Scenario	Material Status of task/discrepancy
No MR available for the	Not Requested
task/discrepancy	
Material Status of all MR for the	Available
task/discrepancy is "Available"	
Material Status of all MR for the	Not Available
task/discrepancy is "Not Available"	
Material Status of all MR for the	Partially Available
task/discrepancy is "Not	
Requested", "Available" and "Not	
Available"	

Derivation of Document-level Material Status for shop work orders

Scenario	Material Status of work order
Material Status of all	Not Requested
tasks/discrepancies in the work	
order in Planned/In progress status	
is "Not Requested"	
Material Status of all	Available
tasks/discrepancies in the work	
order in Planned/In progress status	
is "Available"	
Material Status of all	Not Available
tasks/discrepancies in the work	
order in Planned/In progress status	
is "Not Available"	
Work order comprises	Partially Available
tasks/discrepancies in Planned/In	
progress status with Material	
Status as "Not Requested",	
"Requested" and "Not Available".	

Search and retrieve shop work orders

The users can provide search criteria including Doc. Status, Task Status, Hold Status, Warranty coverage, Warranty Type, Doc. Class Doc. Priority, Task Exe. Priority, Doc. Material Status and Task Material Status to retrieve precise work orders and AME packages.

Exhibit 1: The Manage Work Assignments and Reporting screen

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WHAT'S NEW IN MAINTENANCE TASK?

Ability to define Part Mod for Tasks

Reference: AHBG-17059

Background

The process of Part Modification entails altering a part so as to upgrade the part with superior qualities. This process is mandated by regulatory documents, such as Service Bulletins (SB) and CMM. Generally, customers approve of part modifications (called as Pre-Approved Mod) and send details including MOD # via E-mails to maintenance operators. This process is tracked using the Excel tool.

Currently, tracking of Part Modification using Mod # is not supported in Ramco Aviation. The MOD # change for each effective part as provided in the SB and CMM documents needs to be tracked against the maintenance tasks.

Change Details

The new Maintain Task Part Mod Details screen in Maintenance Task has been developed to record and view the Part Mod details against a Mod task.

The new screen captures the following vital part modification information; and defines **Mod #** to a task and part combination.

Task #: The task that is effective to the part to be modified as defined in the Manage Task Effectivity screen.

Part #: The part to be modified; must be effective for the task as defined in the Edit Component Effectivity screen.

Mod #: As stated in the regulatory document (SB or CMM); applicable to the part to be modified.

Conditional Effectivity: User defined conditions under which Mod # is effective for the part.

The Maintain Task Part Mod Details screen can be accessed via link from the following screens:

- Edit Component Effectivity
- Manage Task Effectivity

This screen in the View mode can be accessed via link from the following page:

• View Component Effectivity

Exhibit 1: The Maintain Task Part Mod Details page

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Ability to define 'Default Exec. Comments' for Tasks

Reference: AHBG-17604

Background

A provision to capture execution comments for a task that would be defaulted at the time of addition of the task to a package is required to convey crucial execution guidelines to aircraft maintenance engineers.

Change Details

The **Default Exec. Comments** input field has been added in the following screens of Maintenance Task business component to record execution comments for the task to be defaulted in SWO and AME screens on addition of the task in shop work orders or packages:

- Create Task
- Edit Task
- Maintain Activated Task
- Upload Task

The Default Exec. Comments display field has been added in the View Task Details screen.



Exhibit 1: The Create Task Information screen

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	Task #							Revision #					
	Task Type		•					Revision Date		(m)			
	Task Description												
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	Work Center # 👂							WB5 Code	•				
- Copy From													
	Task # 👂							Revision #					
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Exhibit 2: The Upload Task screen

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Maintain Activated Task	Manao	e Task Effectivity	Manage Task File Attachment	
+ Record Statistics				

Ability to set a default value for Operations Type when searching for a

task

Reference: AHBG-21370

Background

A provision to default the **Operations Type** search field in the **Help** screens of **Maintenance Task** with userpreferred value to enhance ease of usability.

Change Details

With this enhancement, the system will default the **Operations Type** drop-down list box in the **Help on Task #** and **Help on Work Unit #** screens with the value defined for the process parameter "Default Operations Type for Help on Task/Work Unit screen?" under the entity type Maintenance Task and entity Task in the **Define Process Entities** activity.

Process parameter value	Default value in the Operations Type field
0	Flight Operations
1	Repair Station
2	Blank

Note: The default value for the new process parameter will be set based on the value defined for the existing process parameter "Default Operations Type" defined under 'Maintenance Task' Entity Type and 'Task' Entity.

55 | Enhancement Notification

ramco

Exhibit 1: The Help on Task # screen

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WHAT'S NEW IN SHOP WORK ORDER?

Provision to display Part MOD Changes in Shop Work Order

Reference: AHBG-17221

Background

The process of Part Modification entails altering a part so as to upgrade the part with superior qualities. This process is mandated by regulatory documents, such as Service Bulletins (SB), CMM. After Part # - Serial # is altered / upgraded, it will be assigned a unique MOD # and compliance of that MOD # is carried out by tasks through a shop work order. Currently, Part Modification feature is not supported in Ramco Aviation and hence display of the MOD details for the Part # - Serial # is not possible in the associated shop work orders. A handy facility to view the status-wise breakup of modifications on the part – serial undertaken by tasks in the shop work order would be of immense help to the AME.

Change Details

A link View MOD Details link has been added in the following screens:

- Plan Work Order
- Update Split/Main Core and Coverage Information
- Record Shop Execution Details

This link opens the **View Part Serial Mod Details** pop-up window that provides vital information on the modifications undertaken on the part serial till date including.

On launching the View MOD Details pop-up window from the Plan Work Order Screen or Record Shop Execution Details screen, the following information will be displayed:

- Part # Part # of Main Core
- Part Description Part Description of Main Core
- Serial # Serial # of Main Core
- MOD In MOD # complied on Part #
- Approved MOD MOD # approved by customer and applicable on Part #
- Applied MODs Displays MOD #, if the task with task type MOD with MOD definition available for Main Core in the **Maintain Task Part MOD Details** screen is planned for execution on Part # in the shop work order.
- MOD Out Displays concatenation of MOD # and Applied MOD separated by ","

On launching the View MOD Details pop-up from Update/Split Main Core screen after selecting as Associate Core, the following will be displayed:

- Part # Part # of Associate Core
- Part Description Part Description of Associate Core
- Serial # Serial # of Associate Core
- MOD In MOD # complied on Part #
- Approved MOD MOD # approved by customer and applicable on Part #
- Applied MODs Displays MOD #, if the task with task type MOD with MOD definition is available for Main Core in 'Maintain Task Part MOD Details' screen is planned for execution on Part # in the shop work order.
- MOD Out Displays concatenation of MOD In and Applied MOD separated by ","

MOD Reversal: On completion of a MOD task, if the work order status changes to In-Progress, MOD # for the task gets removed from the MOD In list and gets added to the Applied MOD list.

MOD Addition and Cancellation: If a 'MOD' task effective to the part as defined in the Maintain Task Part MOD Details screen in Maintain Task, is added to the shop work order, MOD # for the part is added to both Applied MOD and Mod Out as displayed in the View popup. Conversely, if task type of 'MOD' is cancelled or pre-closed in the shop work order, the task is removed from Applied MOD and Mod Out lists.

The following activities are now provided with the **Manage Part Serial MOD Details** link to enable users to view / modify MOD # for the part # / serial # in the shop work order.

- Record Shop Execution Details screen
- Review Work Execution screen

Display of MOD # in CoM: The process parameter "Display MOD # while issuing Certificate of Maintenance?" has now been added under the entity type 'Shop Work Order' and entity 'Individual Work Order' in the Define Process Entities screen. This process parameter determines the display of MOD # in the Certificate of Maintenance tab of the Issue Certificates screen as illustrated in the table below.

Process Parameter Value	Impact in CoM
1 / Yes	The Certifying Remarks field in the Certification of Maintenance tab of Issue
	CoM screen displays MOD Out #' for the SWO by default. The multiple MOD
	Out # are displayed using the delimiter ',' Example: MOD Out $# = 1,2,5,9$
0 / No	No default value appears in the Certifying Remarks field in the Certification
	of Maintenance tab of Issue CoM screen.

Display of Task Description in CoM: The process parameter "Display Task Description while issuing Certificate of Maintenance?" has now been added under the entity type 'Shop Work Order' and entity 'Individual Work Order' in the **Define Process Entities** screen. This process parameter determines the contents displayed in the **Certifying Remarks** field # in the **Certificate of Maintenance** tab of the **Issue Certificates** screen as illustrated in the table below.

Process Parameter Value	Impact in CoM
1 / Yes	The Certifying Remarks field in the Certification of Maintenance tab of Issue
	CoM screen displays each of the tasks from the SWO and their description
	by default. Example: Task Description: Task 1; 2. Task 2; 3. Task 3 with all task
	descriptions in the same sequence as planned in the SWO and using the ';'
	delimiter. However, the descriptions of tasks in any status other than
	'Cancelled' only are displayed.
0 / No	No default value appears in the Certifying Remarks field in the Certification
	of Maintenance tab of Issue CoM screen.

Exhibit 1: The Part Serial Mod Details pop-up

Part #	RD-NA1002-02	Description	IPS Controller
Serial #	9682		
Mod In	1,2,3,4,7,12	Approved MODs	1,2,3,4,7,12,17, 21
Applied Mods	17	Mod Out	1,2,3,4,7,12,17

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License validations in Shop based on HRMS attributes

Reference: AHBG-17469

Background

During sign-off, annulment or rejection of tasks in a shop, the system must have the capability to validate the license attributes of mechanics/inspectors. Further, the system must also verify the license definition of mechanics/inspectors at the time of issuing certificates and ensure that the mechanic/inspector is eligible to perform the task of issuing certificates for complying tasks in shop work order.

Change Details

The system will now ensure that only those mechanics/inspectors that have passed license validation can sign-off, void or reject tasks in the **Record Shop Work Order Details** screen.

However, this kind of validation is carried out on the concerned employee only if the new process parameter "Validate Employee Certificate/License availability during Sign-off/Reject/Void of Non-Routines?" under the entity type Shop Work Order Type and the entity User- Defined in the Define Process Parameters activity is 1.

The system validates the license validation attributes of the employee at the time of saving, approving and printing of certificates in the **Issue Certificates** screen, if the process parameter "Validate Employee Certificate/License availability during Sign-off/Reject/Void of Non-Routines?" is '1'.

In the same way, the system allows the employee to sign-off, void or reject a task or save, approve or print certificates (Part Id Tag, Certificate of Maintenance/Conformity/Calibration) only if the following attributes of the task/ Non-standard task and the License attributes of Employee # in HRMS business component (Record License Information screen) are identical:

- 1. Base Part # of Part # in Associated Cores of Work Order
- 2. Part Group of Part # in Associated cores of Work Order
- 3. Station of Task/ NST Work Center
- 4. Resource Group of Task/ NST

Exhibit 1: The Record Execution Details screen

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Exhibit 2: The Issue Certificates screen

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Reference Type	Work Order # Reference #	Q Get Details	
– Part Tag Details			
Part Tag #	Printed?	Part Tag Status	
Numbering Type PTAG	# of Copies	Replaced Tag #	
Main Core Details			
- Reference Details			
Work Order #	Order Description	Event #	
Customer #	Customer Order #	Customer PO #	
Work Perfomed	Involved in Rework	Final Disposition 1-REPAIR	
- Additional Details			
Comments	Ô		
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Reason for Rejection	\bigcirc	May require employee	
Document Attachment Details		License validation	
File Name 👂	Upload Documents View Associated Doc. Attachments		
Authorization Details			
Employee Code 👂 00041383	Employee Name SENECHAL, DOMINIC	Primary Workcenter # 100-03	
License # 00041	Authorization #	Authorization Ref #	
Skill Code 02 💌	Issued Date 20-Oct-201 09:13:18		
Save Preview	Approved & Print	Cancel	
Created Date	Modified Date	Approved Date	te
May requ	ire employee	Approved but	
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Ability to set CoM Report Template and Print Remarks based on Certificate Type set options

Reference: AHBG-20470

Background

A provision to set default template for printing CoM, default selection of B12 checkbox and default remarks in certificate of maintenance based on certificate type.

Change Details

Now, printing of CoM in the Certificate of Maintenance tab in the Issue Certificates activity of Shop Work Order will be influenced by the new process parameters defined under the entity type Certificate Type and the entities as all Active certificate types in the Define Process Entities activity of Common Master:

- Specify a Report Template to print for the current Certificate Type
- Tick the checkbox next to the text "Other regulation Specified in block 12"?
- Remarks to be printed in Block 12?

Depending on the certificate type selected in the Certificate of Maintenance tab, the system prints the CoM based on the value defined for the above process parameters for the certificate type as illustrated in the table.

Process parameter	Value	Impact on the Report
Specify a Report Template	Enter a valid Report	The CoM is printed based on the template specified
to print for the current	Template Name as	for the certificate type.
Certificate Type	provided in the	
	OnLine Help	
Tick the checkbox next to	1	Under the B12 section in the report, the "Other
the text "Other regulation		regulation Specified in block 12"? checkbox will be
Specified in block 12"?		selected in the report
	0	Under the B12 section in the report, the "Other
		regulation Specified in block 12"?, checkbox will not
		be selected in the report.
Remarks to be printed in	Enter any text less	The remarks will be printed under B12 section in the
Block 12?	than 1000 characters	report.

Exhibit 1: The Certificate of Maintenance tab in the Issue Certificates screen

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Eli	gibility					
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All	Q		All	v	Q	
# Certificate Type	Reqd?		#	Certifying Authority	Regd?	
1 8130-3			1	Aveos		
2 AIR CARRIER 8130-3			2	CAAC		
3 ARWE		8	3	CASE		8
4 As Per LaserFiche			4	EUROPEAN AVIATION SAFETY AGENCY		
5 AW-95			5	FEDERAL AVIATION AUTHORITY		10 m
	Defa	It Template based or	n certificate			
Document Attachment Details	File Name P	Ilt Template based or Upload Documents View /	n certificate			
Document Attachment Details Authorization Details Employee Code P	is Defau	Ilt Template based of Upload Documents View / Employee Name	Associated Doc. Attachments SENECHAL, DOMINIC	Primary Workcenter	# 185-20 •	
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Exhibit 2: The CoM Print Template



Ability to default Work Status checkboxes based on Repair Process Code set options

Reference: AHBG-20383

Background

Presently, the Work Status check boxes in the Certificate of Maintenance (CoM) tab of the Issue Certificates screen are selected on the basis of the maintenance type of the repair process code associated with the selected Work Status. Further, the system also does not enable default selection of

1) More than one check box at any single point of time

2) Inspected/Tested, New and Prototype checkboxes

Since printing/issuing maintenance certificates is one of the most repeated and mandatory activities for maintenance engineers, a provision to default the work status of the task/aircraft depending on the organization preference would avoid erroneous / repeated manual selection of work status.

Change Details

A new entity type and a number of process parameters have been added in the Define Process Entities activity of Common Master to automate the selection/deselection of the Work Status check boxes in the Certificate of Maintenance (CoM) tab of the Issue Certificates activity in the Shop Work Order business component. The table below elaborates on the impact of the new process parameters on the default behavior of the Inspect, Repair, Overhaul, Modify, Inspected/Tested, New and Prototype checkboxes.

Entity Type: Shop Work Order Type							
Entity: All Work Order Types							
Parameter	Value	Impact					
Auto-check Work Status	"0" for	The check boxes in the CoM tab are checked based					
checkboxes in the Issue CoM	"Maintenance	on the maintenance type of the repair process code					
page based on?	Type defaults"	selected in the Work Status drop-down list box.					
	"1" for "Work	The check boxes in the CoM tab are					
	Status set	selected/deselected depending on the work status-					
	options"	related process parameters as explained next					
Note: The work status-related pro	cess parameters e	explained below are applicable only if the "Auto-check					
Work Status checkboxes in the Iss	ue CoM page bas	ed on?" process parameter is set as "1".					

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Entity Type: Work Status								
Entity: All Active Repair Process Codes								
Parameter	Value	Impact in the CoM tab of the Issue Certificates						
		screen						
Auto-check "Inspect" in the Issue	1	The Inspect check box will be selected on selection						
CoM page on selection of Work		of repair process code in the Work Status drop-						
Status?		down list box.						
	0	The Inspect check box will be deselected on						
		selection of repair process code in the Work Status						
		drop-down list box.						
Auto-check "Repair" in the Issue	1	The Inspected/Tested check box will be selected on						
CoM page on selection of Work		selection of repair process code in the Work Status						
Status?		drop-down list box.						
	0	The Repair check box will be deselected on selection						
		of repair process code in the Work Status drop-						
		down list box.						
Auto-check "Overhaul" in the Issue	1	The Overhaul check box will be selected on						
CoM page on selection of Work		selection of repair process code in the Work Status						
Status?		drop-down list box.						
	0	The Overhaul check box will be deselected on						
		selection of repair process code in the Work Status						
		drop-down list box.						
Auto-check "Modify" in the Issue	1	The Modify check box will be selected on selection						
CoM page on selection of Work		of repair process code in the Work Status drop-						
Status?		down list box.						
	0	The Modify check box will be deselected on						
		selection of repair process code in the Work Status						
		drop-down list box.						
Auto-check "Inspected/Tested" in	1	The Inspected/Tested check box will be selected on						
the Issue CoM page on selection of		selection of repair process code in the Work Status						
Work Status?		drop-down list box.						
	0	The Inspected/Tested check box will be deselected						
		on selection of repair process code in the Work						
		Status drop-down list box.						

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Entity: All Active Repair Process Codes

	-	
Parameter	Value	Impact in the CoM tab of the Issue Certificates
		screen
Auto-check "New" in the Issue CoM	1	The New check box will be selected on selection of
page on selection of Work Status?		repair process code in the Work Status drop-down
		list box.
	0	The New check box will be deselected on selection
		of repair process code in the Work Status drop-
		down list box.
Auto-check "Prototype" in the Issue	1	The Prototype check box will be selected on
CoM page on selection of Work		selection of repair process code in the Work Status
Status?		drop-down list box.
	0	The Prototype check box will be deselected on
		selection of repair process code in the Work Status
		drop-down list box.

Ability to manage shop transactions in local time zone

Reference: AHBG-15884

Background

Currently, the dates and times pertaining to shop transactions are based on the OU server time zone. However, these dates and times may not represent the actual work execution dates and times in real time since the OU server may not be located in the same geographical location as the work center and station associated to orders/tasks and hence their time zones would differ.

A provision to capture the dates and times of shop transactions in accordance with the time zone of the station and work center associated with the tasks/work orders must be built in the system.

Change Details

Time Tracking Setup

In order to manage shop transactions in local station time zone, the following parameters have to be defined in the **Set Process Parameters** activity of the **Time Tracking Setup** business component, as a prerequisite:

- 'Station based time reporting required' must be set as 'Yes'
- 'Default Base Station' must be left blank

Exhibit 1: Set Process Parameters activity in the Time Tracking Setup business component of the Time Tracker

business process

*	Set Process Parameters					RamcoRole - RAMCO OU 👻 🛛	: =	4	+	?		ĸ
	elect Parameter Details Parameters for Common	Ŧ	Status Ac	tive								
44	< 9 - 18 / 18 ► 🕨 + T T _x					🖶 🔟 All					Q	,
#	Process Parameter	Permitted Values	Value	Value Selected	Status							
9	Allow timeoff request entries spanning across dates	Specify "0" for 'No' and "1" for 'Yes'	0	No	Defined							
10	Manage Attendance Reporting/Approval within T&A System	Specify "0" for 'No' and "1" for 'Yes'	1	Yes	Defined							
11	Allow Modifications to Approved Time Off Records	Specify "0" for 'No', "1" for 'Yes' and "2" for 'Not	0	No	Defined							
12	Bar Code based login into T&A system	Specify "0" for 'No' , "1" for 'Yes'	1	Yes	Defined							
13	Enable Clock your time - Multiple Time bookings?	Specify "0" for 'No' , "1" for 'Yes'	0	No	Defined							
14	Time records approval by alternate authorizer	Specify "0" for "Not Required" , "1" for "Required"	1	Required	Defined							
15	Allow attendance reporting by Alternate authorizer beyond	Specify "0" for 'No' and "1" for 'Yes'	1	Yes	Defined							
16	Duration to be equal with the difference between Start and	Specify "0" for 'Not Required' and "1" for 'Required'	0	Not Required	Defined							
17	Station based time reporting required	Specify "0" for 'No' and "1" for 'Yes'	1		Defined							
18	Default Base Station	Specify Default Base Station			Defined							
	Set Options to sp maintained in the or to be maintain	secify if the time booking is to be time zone of the respective Work S ed in the time zone of the Base Stat	tt Process Para	meters								

Shop Work Order

Changes have been made in the following screens of Shop Work Order.

- Plan Work Order
 - ↔ Order Start and End Date and Time, Task Start and End Date and Time, Start and End Clock,

Removal Date & Time, Promised Delivery Date/Customer Requested Date will now be based on the Time Zone of Work Center associated Station.

- Record Shop Execution Details
 - Both **Direct Booking** and **Indirect Booking Start and End Date and Time** will now be based on the Time Zone of Work Center associated Station to of the tasks.
 - Discrepancy reporting, Observation, Removal, Installation and MR Need Date will now be based on the time zone of Work Center and associated Station of the task.
- Manage Intershop Routing
 - Required date of parts will now be based on Time Zone of Work Center and associated Station of the task.
- Issue CoM
 - **Issued Date** of certificates will now be based on the Time Zone of the associated Work Center and associated Station.

Ability to manage Part Data Change in shop work order

Reference: AHBG-23241

Background

Each aircraft part has certain vital attributes (Part Type, Control Type, Expense Type, Issue Basis, Valuation Method, Stockable, Expense Policy and Adjust Actual Cost) that exclusively identify the part. Though, the part attribute change is allowed in aircraft maintenance, it is undertaken in a controlled and regulated manner since the part may have been issued for maintenance. However, part attribute change facility for issued parts is not currently supported and an ability to change part data is required in the shop.

Change Details

As part of this enhancement, the system now allows the users to change part attributes of spare parts even if confirmed stock issues exist for these parts against work orders. In other words, the system allows users to create and process **Part Data Change** requests in **Part Administration** even if the part has been issued to ongoing work orders. The system automatically makes good any fallout owing to part data change in the event of confirmation of stock return through positive/ negative correction.

Nevertheless, the part attributes of main cores issued to the ongoing work orders cannot be changed under any circumstances in shop maintenance.

	-		-											_			
*		Manag	e Coi	ntrolled Data	for Part Record								2/			+	? Lø
Change Document Details																	
	Data Change #								Plan	ning Status							
					Change Category	•					L	Iser Status	7				
	ant D	staile		Reque	sted by / Date 👂							Currency CAD					
	⊜rart ∪etais																
44	4	1 -	1/1	+ + + +	0 * • •	Υ Τ,					ii × €	₽ ₽ 00	All	T			Q
#		Part #	ρ	Part Description	From Part Type	To Part Type	From Control Type	To Control Type	From Expense Type	To Expense Type	From Issue Basis	To Issue Basis	From Valuation Method	Fre	om Adju:	t Actua	al Cost
1						*		*		*		v					
2						*		*		*		~					
		Get Par	rt Deta	< alis v	iew File												>
	ther I)etails —															
File Name D View File Remarks Other References																	
				Save				Proc	ess				Cancel				
Upda	te Lot	# / Serial a	# / Unil	Cost Info			Upload Documents		ck here to (commit							
View	Impact	ed Transa	ctions				View Documents	att	ribute char	iges to par	t						
	ecord	Statisti	cs —														
_					Created by						Cre	eated Date					
					Last Modified by						Last Mo	dified Date					

Exhibit 1: The Manage Controlled Data for Part Record screen

Additional Regulatory Certificates

Reference: AHBG-19478

Background

Ability to generate and print certificates of maintenance of additional certificate types for addressing the regulatory requirements of various geographies including Australia, New Zealand, Peru, Singapore and UAE is required in **Ramco Aviation**.

Change Details

Now, the users can generate **CoM** of the following certificate types in addition to the existing ones from the **Issue**

Certificates screen of Shop Work Order:

- 1. Triple Release EASA-FAA- TCCA
- 2. Dual Release EASA-TCCA
- 3. Dual Release EASA-FAA
- 4. CAAV Form One
- 5. DGAC CHILE Airworthiness Approval Tag
- 6. BCAA Form 1 (Bahrain Civil Aviation Authority)
- 7. GCAA United Arab Emirates
- 8. CASA Form 1 (Australia)
- 9. CAANZ Form 1 (New Zealand)
- 10. CAANZ Form 2 (New Zealand)
- 11. AW-95 (Singapore)
- 12. DGAC Peru (RAP 001)
- 13. Dual Release -FAA-EASA

The users can fetch **SWO#** and select the appropriate **Certificate Type** and **Regulatory Authority** as inputs for generating / viewing / printing the above-listed reports in the **Certificate of Maintenance** tab of the **Issue Certificates** screen.

Exhibit 1: The Issue Certificates page in Shop Work Order

\star 🔋 Issue Certificates				Ramcol	Role - RAMCO OU 👻 🎞		+	? 🗔
Part Id Tag Certificate of Maintena	ance Certificate of Conformity Cert	tificate of Calibration						
 Create Certificate Reprint Certificate 	Replace Certificate							
	Reference Type Work Order #	Reference #	Q, G	iet Details				
+ Issue Details								
+ Main Core Details								
+ Reference Details								
Certificate Details								
Certifying Remarks Eligibility	New certificate types added here		$\langle \rangle$					
<pre>{{ < 1 - 5 / 26 > >> + T</pre>			• • 1 - 5 / 18 • •• +	T T.		Xi İİ	e 00	
Certificate Type 🔹	ρ	A	d 🔻	Q				
# Certificate Type	Reqd?	4	Certifying Authority	Reqd?				
1 8130-3	8	1	ASA					
2 AIR CARRIER 8130-3		2	Aveos					
3 CAA FORM ONE		Select the	The AVEOS1 is Active					
4 CAA,FAA,EASA		certificate type	CAAC					
5 CAAC AAC-038	8	vou want to	Civil Aviation Authority Singapor	e	10			
		you want to						
		generate.						
+ Document Attachment Details								
+ Authorization Details								
Save	Preview	Approved & Print			Cancel			
Created by		Modified by		Ap	proved by			
Created Date		Modified Date		Appr	oved Date			
Ability to view Partially Released Work Orders inside the Review Work Execution screen

Reference: AHBG-21720

Background

In Part manufacturing, there are scenarios where only few tasks of the work order are released for execution initially and the rest of the tasks will be released later. In this kind of scenario, the user requirement is to track the work orders in which few tasks have been released and few tasks are pending for release. To enable the users to also retrieve unfinished work orders for further processing, a provision to retrieve shop work orders comprising both released and not yet released tasks must be built in the system.

Change Details

The **Review Work Execution** screen of the **Shop Work Order** business component has been enhanced in the following way to enable retrieval of partially released work orders:

• The **Partially Released** option has been added in the **Exec. Status** drop-down list box of the **Search Criteria** section. On selection of **Partially Released**, the search will retrieve work orders having both released as well as unreleased tasks inside it.

Exhibit 1: Addition in the Review Work Execution screen

★ 🗎 Review Work Execution						24 를 다	+?□	ō
Search Criteria								
Part # / Serial #	Work Center #	•		S	WO #	•		
Component #	Job Type	•		Exec.	Status Order	▼ X ▼		
Customer # / Cust. Order #	Search On	•	•	Estimation	Status Order	T		
Customer Name	Addl. Search On	•		Date: Fro	m / To Planned D	Draft		
Display Option						Fresh Deutiality Released		
Top Assly. Work Orders O All Work Orders			New op	tion to retrieve	e	Planned		
		Search	partially	released work	orders	In-Progress		
Search Results			partially	Teleaseu worr	Corders	Completed		
					-	Cancelled	(
				J.K.E.E.#		Closed the active Droy closed		1
# SWO # SWO Desc. Component	# Primary W/C # Part #	Senal #	Lot #	Mfr. Lot # Quantity	Facility # Fa	Ext. Routed	Modified Senal #	#
1 AWO-000001-2011 DND Replenishment	YUL-140-01 DNDREPLI	ENISHMENT		1.00				
2 AWO-000002-2011 For end-to-end test	YUL-140-01 DNDREPLI	ENISHMENT		1.00				
3 E AWO-000003-2011 DND Replenishment	YUL-140-01 DNDREPLI	ENISHMENT		1.00				
4 E AWO-000006-2012 repair	YUL-210-70 336-031-6	515-		1.00				
5 E AWO-000007-2012 repair	YUL-210-70 336-031-6	515-		1.00				
6 AWO-000008-2012	185-20	SL-000017-2012		1.00				
7 C AWO-000009-2012 TO REMOVE COMP- COMP-10	185-20 00XYZ	SL-000018-2012		1.00				
8 AWO-000010-2012	185-20			1.00				
9 AWO-000011-2012 Inspection	yul-100-00 0-003346	6-0:2D671		5.00				
10 AWO-000020-2016	YUL-295-05			1.00				
<							>	
Review Part Readiness Log Review	w Work Hold	Print Pa	rt Tag		Manage	Part Serial MOD Details		
Generate Work Summary Report(s)							View J	lob Lo

Ability to automatically generate MR for the source WO for scrappage of parts in Repair Order

Reference: AHBG-22979

Background

During Engine Maintenance, multiple child work orders will be created post disassembly. One or more child assemblies can be routed for External Repair. It is possible that the repair agency can declare the component as BER. In such scenarios, manually tracking scrapped units and planning for replacements will be a difficult task for the technician. This causes delay in work order completion. This enhancement allows the system to generate a Material Request automatically for the Replacement parts whenever a part is declared as a BER by the Repair Agency.

Change Details

Common Master

A new Process Parameter 'Automatic generation of MR when parts routed for External Repair are declared as BER?' is added in the **Define Process Entity** activity of the **Common Master** business component, under the Entity Type 'Shop Work Order Type' with the following values:

- 'Not Allowed' System does not allow automatic generation of MR for the replacement part when the part routed for external repair is declared as BER as per existing behavior.
- 'Allowed' System allows automatic generation of MR for the replacement part when part routed for external repair is declared as BER.

Logistics Common Master

A new Process Parameter 'Generate Replenishment PR for the parts declared as BER, if there is an Auto MR initiated during the Scrappage' is added in the **Set Inventory Process Parameters** activity of the **Logistics Common Master** business component, under the Category 'Scrap Note' with the following values:

- 'Not Required' System does not allow automatic generation of PR for the BER Qty when there is an Auto MR is already created for BER Qty during Authorization of Repair Order.
- 'Required' System allows automatic generation of PR for the BER Qty, even when there is an existing MR created for the BER Qty during Authorization of Repair Order.

Exhibit 1: Identifies the addition of new set option in Define Process Entity screen

*	Set Process Parameters			Ramco Role - RAM	мсо оџ 🤐 🖶 🖨 🗲	? 🗔 🖪
	Entity Details					
	Entity T	ype Shop Work Order Type	v	Entity AWO	•	
	Record Sta	itus Active	Process Paramet	ers Defined? Yes		
	Process Parameter List					
44	4 1 - 25 / 69 🕨 🗰 🕂 🛱 🏹 🟹			÷ III ↑↓ × All	•	
#	Process Parameter		Permitted Values	Value	Status	Erroi
1	Automatic generation of MR when parts are routed f	or External Repair is declared as BER?	Enter '0' for 'Not Allowed' , '1' for 'Allowed'	1	Defined	
2	Default Numbering Type		Enter a valid Document Numbering Type defined in Document Numbering class	ASWO	Defined	
3	Default Category		Enter "0" for 'none' or a valid entity value defined against the Entity type "Category"	1-Repair	Defined	
4	CoM Regd?		Enter "0" for 'Not Required' , "1" for 'Required' , "2" for 'As Required'	0	Defined	
5	Default Priority Code	New set	Enter a valid code defined in the Logistics Common Masters business component.	NRM	Defined	
6	Work order Creation on		Enter "0" for Unserviceable Routing, Enter "1" for Customer Order Authorization	1	Defined	
7	Work Order status on auto generated work order	Option added	Enter "0" for 'Draft' , "1" for 'Planned'	0	Defined	
8	Addition of Routine Tasks during execution ?		Enter "0" for 'Not Allowed' , "1" for 'Allowed in Fresh status' , "2" for 'Allowed in	2	Defined	
9	Status of Non-Routine Tasks added during execution	?	Enter "0" for 'Fresh' , "1" for 'Planned'	1	Defined	
10	Auto MR Generation on Order Release ?		Enter "0" for 'Not Required' , "1" for 'Required'	0	Defined	
11	Allow Manual Short Closure of Material Request from	Material Request Business	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
12	Request Category for Regular Parts		Enter a valid MR category defined in Material Request business component.	HM	Defined	
13	Request Category for Main Core Parts		Enter a valid MR category defined in Material Request business component.	HM	Defined	
14	Discrepancy Numbering Type		Enter a valid Document Numbering Type defined in Document Numbering class	CDP	Defined	
15	Component Replacement Numbering Type		Enter a valid Document Numbering Type defined in Document Numbering class	REPL	Defined	
16	Numbering Type for Regular Part Material Requests		Enter a valid Document Numbering Type defined in Document Numbering class	SMR	Defined	

Exhibit 2: Identifies the addition of new set option in Set Inventory Process Parameters screen



Repair Order

Automatic Material Request document will be generated for the BER quantity identified in the Repair Order having the Parent SWO/ Child SWO reference during the following scenarios.

- A. Consider that a Core Part is disassembled from the Parent SWO or a Child SWO is created from Parent SWO, and the core part is routed externally to Repair Agency for repair. If one or more cores shipped to the repair agency is identified as BER during the Repair, upon authorization of Repair order, system generates Automatic Material Request Document for the BER quantity identified in the Repair Order. Respective Parent SWO /Child SWO # will be updated as Reference Document # in the Automatic MR.
- B. Consider that a Child SWO Main core part is routed externally for Repair Agency for repair. If one or more Main Core parts shipped to the Repair Agency are identified as BER during the repair, upon authorization of Repair order, system generates Automatic Material Request Document for the BER

quantity identified in the Repair Order. Always Parent SWO # will be updated as Reference Document # in the Automatic MR as the Child SWO Main Core part is scrapped.

Automatic Material Request will be generated for the BER quantity, when the following conditions are met:

- Repair Order having the BER Quantity.
- Repair Order having Parent / Child Shop Work order reference. (i.e. Routing of Parts to external agencies from Work Center).
- If the Set Option "Automatic generation of MR when parts are routed for External Repair is declared as BER?" is set as 'Allowed' in the Define Process Entities activity of the Common Master business

component.

- Note: If any of the above conditions fails or if user manually enters the Work order reference in Repair Order, then the system will not generate Automatic Material Requests.
- If workflow is enabled for RO authorization, then the system generates the automatic MR when final authorizer approves the RO.
- Automatic Material Request will be generated in Authorized status.
- If Main Core part of the Parent SWO itself got scrapped, then Automatic MR will not be generated.
- If Child / Subassembly SWO or Repair Order is linked with Exchange Order, then Automatic MR will not be generated.
- If an automatic MR is created for the scrapped quantity, then system restricts generation of replenishment PR and direct PR for the scrap note generated based on the option "Generate Replenishment PR for the parts declared as BER, if there is an Auto MR initiated during the Scrappage" defined in Set Inventory Process Parameters activity under Logistics Common Masters business component.

WHAT'S NEW IN CONFIGURATION?

Ability to define Equip. Group, Equip. Category and Cabin Equipment

Reference: AHBG-15172

Background

To facilitate the development of LOPA (Layout of Passenger Accommodation) graphical interface in the **E-Logs** application, a provision was required to define equipment groups and then map equipment categories and cabin equipment to specific equipment groups. The setup of such master data was required to facilitate depiction of cabin equipment attached to specific cabin position codes in an aircraft.

Change Details

Equipment Group has been added as a quick code type in the **Create / Edit / View Quick Codes** activity of the **Aircraft** business component to facilitate users to map equipment categories and cabin equipment to a specific equipment group.

Example: Users can define In-Flight Entertainment (IFE) and Global Communication Satellite (GCS) as quick codes under the Equipment Group quick code type.

A new screen called **Maintain Cabin Equipment List** in the **Configuration** business component has been developed to map equipment categories and cabin equipment to an equipment group.

Examples:

- Equipment Categories could be eX1, eX2, eX3, eXline, etc. that indicate the version of the equipment
- Cabin Equipment could be Monitor, Harness Assembly, ADB, ADB Ports, WiFi, File Servers representing the gadgets or devices

In the **Equipment Category List** tab of the **Maintain Cabin Equipment List** screen, users can specify the equipment categories to be associated with the chosen equipment group. Similarly, in the **Cabin Equipment List** tab of the same screen, users can link the cabin equipment to the equipment group

Exhibit 1: The Create Quick Code screen

★ 🏢 Create Quick Codes		Ramco Role - RAMCO OU 🚽 🚅 🖶 🗲	? 🛯 🗖
Quick Code Type Equipment Group Quick Code Details Quick Code Details Quick Code Details Quick Code Description I I IFE In-Flight Entertainment Global Communication Satellite	New quick code type Equipment Group to classify cabin equipment		Q
	Create Quick (Codes	

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Exhibit 2: The Maintain Cabin Equipment List screen

*	D	М	aintain Cabin Equipment Lis	t						Ramco Role - R	AMCO OU 🗸 🖈 🖶 🖾 🗲 ?
	Equi	pme	nt Group Equipment Category List Cabin Equip	ent Group GCS X V		Mapping e category to equipment	quipmen [.] group	t			
	44	•	1 -2/2 > >> + 🗇	T T.				人世		III AI	Q V
	#		Equip. Category Code	Equip. Category Desc.	Status		Created By		Created Date	Last Modified By	Last Modified Date
	1		Monitor	Monitorsd	Active	*	DMUSER		16-Aug-2017 07:40:11 PM	DMUSER	17-Aug-2017 04:54:21 PM
	2		Monitor1243	Monitor1243sdsd	Active	*	DMUSER		16-Aug-2017 07:40:29 PM	DMUSER	17-Aug-2017 11:26:05 AM
	3				Active	*					
						(Save				

Exhibit 3: The Equipment Category List tab in Maintain Cabin Equipment List screen

7	r 🗉) M	aintain Cabin	Equipment	List								Ramco Ro	le - RAMCO C	0U - ⊒¢		← ?
•	Equi	pme pmer	nt Group nt Category List	Equ Cabin Equ	ipment Group GCS	•	Mapping to equipr	cabin equ ment grou	iipmei p	nt							
	44	4	1 -1/1		Э т т,					<u>In</u>	o x c i x	# #	III AI		T		Q
	#		Cabin Equipment		Cabin Equipment Desc.	Status		Created By		0	reated Date	Last	t Modified By		Last Modified	d Date	
	1		SD		SD	Active	~	DMUSER		16	i-Aug-2017 03:00:39 PM						
	2					Active	*										
								Save									

Ability to associate Equipment Category to Position Codes

Reference: AHBG-15617

Background

In order to facilitate definition of LOPA specific to an aircraft, cabin items must be mapped to cabin position # in the cabin layout configuration of an aircraft. To ensure that only a specific category of equipment is attached to a position code, a provision to associate an equipment category to the position code is required in the aircraft and component configuration building screens.

Change Details

To enable users to map an equipment category to a position code, the following enhancements have been carried out:

- A drop-down list box Equipment Category that lists the Active equipment categories defined in the Maintain Cabin Equipment List screen for an equipment group has been introduced in the following screens of the Configuration business component:
 - Build Model Configuration
 - Build Aircraft Configuration
 - Build Part Configuration
 - Build Component Configuration
- A display field **Equipment Group** has also been added in the following screens to reveal the equipment group to which the equipment category belongs:
 - o Build Model Configuration
 - Build Aircraft Configuration
 - Build Part Configuration
 - Build Component Configuration
- Consequently, two display fields **Equipment Category** and **Equipment Group** have been added in the following screens of the **Configuration** business component to display the equipment category and equipment group tagged to the position codes in the configuration:
 - View Model Configuration
 - View Aircraft Configuration
 - View Part Configuration
 - View Component Configuration

Exhibit 1: The Build Model Configuration screen

Build Model Configuration	I. Contraction of the second se			Ramco Role - RAMCO	OU 📢 🛉 🔟 🗄	2 3 4 5	▶ 5 /1424 :	≠ ≣	₽ ←	? 🗔
						Date Format dd-mm	п-уууу			
- Model Details	Aircraft Model # 000					Aircraft Make 00000				
Copy Details	Aircraft Model # D 737-200 Revision # 1 Copy Options V	All CDL	Configuration Class CONFIG							
 Configuration Attributes 		Configuration Rules	MEL							
	Configuration Class SM-01					Revision # 0				
Configuration Datails	Config. Status Fresh 🔻				Config	. Control Basis Part Ef	ffectivity 🔻			
								-		0
# RVSM Zone # 9	Position Formula # Q ATA #	₽ Base Part #	Part Description	Equipment Category	Equipment (Froup Drawing #	File Name 🔎	•	Pamarke 7	>
1 🗆 No 🗸	CI	•		eX1	*				Keinarka E	
2 🖹 No 🗸					*					
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Re-Number										
View File										
☑ Inherit Changes to Aircraft										
- Document Attachment Details -	File Name 👂	v	iew File							
			Build Model	Configuration						
Edit Configuration Deviation List		Edit Minimum E	quipment List		Edit P	iece Part List for Model				
Edit Notes		Edit Position At	tributes		Build I	Part Configuration				
Record Statistics										
	Revised by					Revision Date				
	Approved by Comments				/	Approved Date				
	Comments									

Exhibit 2: The View Model Configuration screen

★ 🗎 View Model Configuration						Ramco Role - RAMC	0 0U ң 🕴 1	3 4	5))) 2	/52 🕮		⊢? ⊡
							D	ate Format	dd-mmm-yyyy			
- Model Details	6 m - J - J - J - H							D. M1				
Aircra	t Model #	737-200					Ai	craft Make	81205			
E B Search - Hitter × 20 € 3 ← 737-200	r jou											
j ─] P1 0-0440-4-0001:36361 ENGINE												
- Configuration Attributes												
Configura	tion Class	AI-707					Cor	fig. Status	Active			
- Display Filter	<evision #<="" td=""><th>0</th><td></td><td></td><td></td><td></td><td>Config. C</td><td>ontrol Basis</td><td>Part Effectivity</td><td></td><td></td><td></td></evision>	0					Config. C	ontrol Basis	Part Effectivity			
Pos	ition Code	1##P1						Part #	0-0440-4-0001:363	51		
	NHA	737-200##modelno##	#0-0440-4-0					ATA #				
Dis	play Level	0 🔻 Get Detai	ils									
Configuration Details	_											
A [No records to display] >	+ +	O O O T T				人 LL 6	「火口回叉	₩ = 0	All	•		Q
# Component Def Cargo RVSM	Zone #	Position Formula #	AIA #	Base Part #	Part Description *	Equipment Category	Equipment Group	NHA	Revision #	Drawing #	File Name	Remarks 🗹
1												
<												>
٢												>
C								-				>
C Document Attachment Details File Name								_				>
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Ability to manage LOPA specific to an Aircraft

Reference: AHBG-15514

Background

To develop LOPA framework for aircraft / model, a facility to record cabin layout in terms of decks, sections and seat and non-seat positions within sections of aircraft model / aircraft and then to map cabin equipment to positions was not available in the system. Further, ability to map non-seat positions to cabin equipment in sections of the cabin layout was also a vital prelude for the depiction of LOPA using a graphical interface.

Change Details

- In the Aircraft business component, quick code type of Equipment Group introduced in the Create / Edit Quick Codes screen to identify the type of equipment that can be attached to cabin position #.
- A new screen Manage Cabin Equipment List in the Configuration business component has been developed to map equipment categories and cabin equipment to an equipment group.
- Provision to map equipment categories to position codes is provided in the following activities of **Configuration** business component:
 - o Build Model Configuration
 - o Build Aircraft Configuration
 - o Build Part Configuration
 - o Build Component Configuration
- A new screen Manage Cabin Layout screen has been developed to define cabin layout at both aircraft model (aircraft model, configuration class and maintenance operator combination) and specific aircraft levels.
 - o Cabin Layout details can be defined for single and double decks
 - Define different sections in the cabin layout and then tag the sections to section class, such as
 First Class, Business Class, Premium Economy Class, Economy Class and Others
 - o Can define both Seat and Non-seat sections
 - For Seat sections, Cabin Position number will be auto generated based on Column Layout,
 Starting Row # and Ending Row #.
 - For Non Seat sections, users must provide non-seat count and unique identifier each non-seat position
 - A Search facility provided to find the models / aircraft for which the user wants to define cabin layout. Further, users can choose to include models / aircraft in the search for which layout has not been already defined.
 - When the user searches for Aircraft Models, the results will be grouped under the

Aircraft Model #

- When the user searches for Aircraft Reg. #, the results will be grouped based on 'Group By' option provided. Users can group by Aircraft Model #, Maint. Operator # & Customer # also.
- The Cabin Layout Status field indicates if the cabin layout has been defined for specific aircraft.
 The cabin layout status becomes 'Fresh' on saving of the cabin layout details.
- o On confirming the cabin layout details, the layout status becomes 'Active'.
- Additionally, the cabin layout will be inherited to the Aircraft from the Aircraft Model on activation of the Aircraft.
- Another new link screen **Map Cabin Configuration** accessible from the Manage Cabin Layout screen is developed to tag Cabin Position # to Cabin Equipment and Equipment Category.
 - If a section is removed from the cabin layout, mapping of Cabin Position # to Equipment Category and Cabin Equipment are automatically deleted for the model / aircraft.
 - o Layout Status becomes 'Fresh' on saving the mapping details for specific aircraft.
 - On confirmation of mapping details, the status of the layout of an aircraft becomes Active.
 However, this is not applicable to aircraft models.

Exhibit 1: The **Manage Cabin Layout** (for Aircraft Model, Configuration Class and Maint. Operator combination) screen



Exhibit 2: The Map Cabin Configuration (for Aircraft Model, Configuration Class and Maint. Operator

combination) screen

* 🗎	Map Cabin Config	uration						Ramco Role	RAMCO OU 🛛	: 8	₽ ←	? 🗟 [
- Model	Details												
	Cabin Layout for Airc	raft Model #	Aircraft Mo	iel# A-310			Maint. Operator # 0C						
Di	splay Option Cabin Equi	pment 🔻	▼								Get Cabin Positions Template		
44 4	1 -1/1 ▶ ▶ ☴							All		Ŧ		Q	
# 🗉	Cabin Equipment	Cabin Position #	Config. Level Code 🔎	Config. Position Code 🔎	Config. Part # 🔎	New Position?	Standard Part #	Equipment Category	Section Name		Section Desc		
1	M1 🗸	× ×				No	*	×					
2 🗉	*	\				No	*	*					
			Associate c equipment cabin positi the layout.	abin to ons in									
	<											>	
-Record	Statistics				Save								
	Created By		Created	Date		Last Modified B	iy		Last Modified Date	5			

Exhibit 3: The Manage Cabin Layout (for specific aircraft) screen



Exhibit 4: The Map Cabin Configuration (for specific aircraft) screen

*		Map Cabin Config	uration								Ramco R	ole - RAMO	:0 OU 式		← ?	Ľø
	Aircraf	t Details														
		Cabin Layout for Airc	raft Reg. #	Aircra	ft Reg. # 101		Aircraft Model # A310 Configuration Class ABC						ABC			
		Maint. Operator #		Cabin Layo	ut Status Free	h						_				
	Di	splay Option	▼	v									Get	Cabin Positi	ons Temp	late
44	•	1 - 10 / 601 🕨 🗰	=								All			Ŧ		Q
#		Cabin Equipment	Cabin Position #	Config. Level Code 🔎	Config. Positi	on Code 🔎	Config. Part # 🔎	New Position?		Standard Part #	Equipment Category	Secti		Section D	esc.	
1		*	WiFi	*				No	~			Unite		United Ec	onomy Clas	;s -
2		~	10A	~		•		No	~			Unite		United Ec	onomy Clas	s
3		~	108	A				No	~			United		United Ec	onomy Clas	s
4		~	10C	Associate cal	oin			No	~		Click this		outton	ted Ec	onomy Clas	s
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6		*	10E	cobin positio	na in			No	*		to retriev	e enti	re seat	ed Ec	onomy Clas	s
7		*	10F	cabin positio	ns in			No	~		and non	cont		ed Ec	onomy Clas	is
8		*	10G	the layout.				No	~		and non-	seat		ted Ec	onomy Clas	s
9		~	10H	,				No	~		positions	from	the	ted Ec	onomy Clas	íS
10		*	103	~				No	~		cabin lav	out		ted Ec	onomy Clas	is
		<									Cabin lay	out.				>
						Sav	/e C	Confirm								
	Record	Statistics														
		Created By DMI	USER	Crea	ited Date 30-4	Aug-2017		Last Modifi	ied By	r		Last M	odified Date			

WHAT'S NEW IN ENGINEERING DOCUMENT?

Provision to display information of revoked EO

Reference: AHBG-13737

Background

The regulatory agencies may revoke an engineering document making the engineering tasks ineffective for the maintenance objects. The revoked status of the engineering document must be displayed explicitly for the benefit of the maintenance planners.

Change Details

In the **Manage Engineering Document** screen, new display field in the header **Revoked?** indicates whether the engineering document has been fully or partially revoked.

The tree in the **Manage Engineering Document** screen also displays the status of the engineering document as 'Revoked' and highlights the node in RED, if the revoked status of the document is 'Yes'.

The system derives the revoked status of the engineering document as elaborated in the below table.

Condition	Revoked? field displays	Color indicators
All the rows in the Effectivity tab with	No	Indicates the engineering
'Applicable' as 'Yes' and "Action on Rev.		document is valid.
Effec.?" not 'Revoked'		The node text is
		displayed in Black.
All the rows in the Effectivity tab of the	Yes	Indicates the engineering
Eng. Doc. with 'Applicable' as 'Yes' and		document is not valid.
"Action on Rev. Effec.?" as 'Revoked'		The node text is
		displayed in Red.
All the rows in the Effectivity tab with	Partial	Indicates the engineering
'Applicable' as 'Yes' though "Action on		document is partially
Rev. Effec.?" in some of the applicable		valid.
rows set as 'Revoked'		The node text is
		displayed in Black.

Exhibit 1: The Manage Engineering Document screen

★ 🗎 Manage Eng. Document	x 🖽	● □ ←
Eng. Doc. / MCR MCR	► Eng. Doc. # / Rev. # Applicability Status Revoked EO-COMP-HERG-01, ∠ Component Fresh Ves © Create Image: Create Image: Create Image: Create	^
E Bigheeng With Filter ★ P ♥ D Engineeng With EC-COMP-MERC-01 / 0 :: Review :: Released EC-COMP-MERC-01 / 1 :: Review :: Fresh :: Revoked Indicates the engineering	Main Iffectivity Tasks Tasks More Information Auto-Embodment Required? Iffectivity Level Iffectivity Level Iffectivity Contains At Serial Level Serial Range Iffectivity Details	
document is fully revoked.		Dar
- Links	Comp. C	Doc.
Initialize Eng. Doc. Schedules	2 SM-5515-1 SL-001166-2017 SM-LG-test- Yes 0 Yes v Revoke v	
Edit Configuration Change Details Confirm New Part Requirements Plan Material Requirements Authorize Eng. Doc.	3 T Yes v v	

Ability to preview EO schedules

Reference: AHBG-13554

Background

Based on Service Bulletins from OEM (Original Equipment Manufacturers), modifications are incorporated in the schedules of existing tasks or new tasks are added in the engineering document (EO). On revision and release of such EO, it is possible that some of the tasks in the maintenance program could become overdue because of EO schedule change. Hence, a provision to preview the task level impact i.e., Last Performed Date/Value, Current Program Next Scheduled Date/Value, EO Next Scheduled Date/Value (New) along with the basis of EO Next Scheduled Date/Value calculation prior to release of EO would benefit the maintenance planners.

Change Details

New Exception Summary section in the Initialize Eng. Doc. Schedules screen comprises the following tiles:

- All: Shows the total count of schedules in the engineering document.
- Overdue: Shows count of overdue schedules in the engineering document
- Alert: Shows the count of schedules that have crossed the alert value/date.

On click of a tile, the schedule records pertaining to the tile are displayed in the multiline.

New display fields have now been added in the multiline of the Initialize Eng. Doc. Schedules screen of

Engineering Document to highlight the impact of engineering document on tasks.

- Flag (Displays Red, if the parameter value of the task has crossed Alert Date/Value; Displays Yellow, if the task is overdue)
- NSD/NSV Changed? (Indicates whether EO NSD/NSV and Program NSD/NSV are the same or different)
- Rem. Value (Eng. Doc.)
- Next Due Calc. On (Eng. Doc.)
- Calc. Ref. Date/Value (Eng. Doc.)
- Alert Date (Eng. Doc.)
- Alert Value (Eng. Doc.)
- Aircraft Model #

The following fields in the multiline have also been renamed to reflect the impact on task.

- Next Sch. Date changed to Next Sch. Date (Eng. Doc.)
- Next Sch. Value as -> Next Sch. Value (Eng. Doc.)

Exhibit 1: The Initialize Eng. Doc. Schedules screen

★ 🗎 Initialize Eng. Doc Schedules		Ramco Role - RAM	ICO OU 44 4 1 2 3 4 5	• • 4 /413 🕮 🖬 🛱 🗲 ? 🗔
- Eng. Doc Details				
Eng. Doc # EO-000675-2016	Revision #	Subje	t Bearing Staking Inspections: Main Rc	Applicability Aircraft
Source Doc. Type EO	Eng. Doc Type EO	Effective From Dat	e 16-09-2016	User Status
- Exception Summary				
All Overdue Alert 1 1 0 Eng. Doc Schedule Details	Tile cards based on of schedu	retrieve schedules exception status les		
	τ τ.			۵ 🔻
# Flag NSD/NSV changed? Aircraft Reg. # P Task #	Schedule Type Parameter	Time Unit Threshold Date	Threshold Value Interval Initialization Date	Initialization Value Next Sch. Date (Eng. Doc.)
1 🗉 • No A1102 EO-000	675-2016Recurring FC 🗸	*	60.00 60.00	24.00
2	*	*		
<				>
		Initialize Schedules		
View Aircraft Schedules Vie	w Comp. Schedule Details	Plan Material Requirements	Release	Eng. Doc.

Ability to add EO task to program in Inactive Status for Inactive Aircraft

Reference: AHBG-14980

Background

Currently, on release of an engineering document, the engineering tasks get added to the maintenance programs of effective aircraft, existing in both Active and Inactive status. Also, Schedule Status of these engineering tasks is set as 'Active' in the maintenance programs. As a result of this, the yet-to-be complied tasks retrieved in the **Initialize Maint. Prog. & Update Compliance (IMPUC)** screen of **Compliance Tacking & Control** includes the engineering tasks pertaining to Inactive aircraft also increasing the count of not-complied tasks. Maintenance Planners and regulatory agencies could misread such data, since engineering tasks pertaining to Inactive aircraft becomes 'Active' leading to critical observations. To prevent these misconceptions, it would be appropriate to retrieve only those engineering tasks yet-to-be complied tasks

Change Details

To facilitate retrieval of engineering tasks pending compliance only against Active aircraft based on user discretion, a new process parameter has been created under the entity type "Eng. Doc. Type" and entity '--All Eng. Doc--' combination in the **Define Process Parameters** activity of **Common Master**. The process parameter "Update Eng.Task's schedule status as Inactive in maintenance program for inactive Aircrafts on release of Eng.Doc.?" determines the schedule status of the engineering tasks in maintenance programs of Inactive aircraft.

If the process parameter 'Engineering Document Revision Policy' is set as 'Revision Mandatory', upon release of the engineering document in the **Release Engineering Document** screen by clicking on the **Release Eng. Doc.** button, the schedule status of the tasks gets updated in the maintenance program of the Inactive aircraft based on the newly added process parameter "Update Eng.Task's schedule status as Inactive in maintenance program for inactive Aircrafts on release of Eng.Doc.?" as explained in the below table.

Process Parameter Value	Impact on maintenance programs of Inactive
	aircraft on release of engineering document
0/No	The schedule status of the engineering tasks in the
	maintenance programs of Inactive aircraft is set as
	'Active'.
1/Yes	The schedule status of the engineering tasks in the
	maintenance programs of Inactive aircraft is set as
	'Inactive'.

Similarly, if the process parameter 'Engineering Document Revision Policy' is set as 'As per Revision Rules' and

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'Mandate Revision on Addition of Effectivity?' is set as 'No' and if the user adds a new Inactive aircraft in the **Effectivity** tab of the **Manage Engineering Document** screen by clicking on the **Save** button, the schedule status of the tasks gets updated into the maintenance program of the Inactive aircraft based on the newly added process parameter "Update Eng.Task's schedule status as Inactive in maintenance program for inactive Aircrafts on release of Eng.Doc.?".

Exhibit 1: The Set Process Parameters screen of the Define Process Parameters activity in Common Master

*	Set Process Parameters	RamcoRole	- RAMCO	ou z¢ ≣	₽ ← ? □					
e En	Entity Type Eng. Doc Type Record Status Active	EntityAll Eng. D Process Parameters Defined? Yes	0C	T						
-	1 - 6 / 6 > >> + © © T			T	Q					
#	Process Parameter Update Eng.Task's schedule status as Inactive in maintenance program for inactive Aircrafts on release of Eng.Doc.?	Permitted Values Enter "0" for "No", "1" for "Yes".	Value 1	Status Defined	Error Message					
2 3 4 5 6 7	Tree Sorting basis in Manage Engineering Document Allow MCR creation with zeroth revision? Update Next Sch. Date in maintenance program on release of future dated Eng. Doc.? Allow initialized schedules update from schedules tab? Allow definition of Aircraft Model # for Component / Engine applicable MCR?	Enter "O" for Eng. Doc. #', "I" for 'Ascending order of Eff. Team Date', "2" Enter "O" for "No', "I" for Yes' Enter "O" for "No', "I" for Yes' Enter "D" for "No', "I" for Yes' Enter "D' for "No', "I' for Yes' Enter "D' for "No', "I	2 0 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Defined Defined Defined Defined Defined						
	<				>					
	Set Process Parameters									

Exhibit 2: The Effectivity tab of Manage Engineering Document screen of Engineering Document

★ 🗎 Manage Eng. Document	RamcoRole - RAMCO OU 🚽 🖽 👼 🛱 🗲 우
● Eng. Doc. / MCR	Eng. Doc. # / Rev. # Applicability Status
Search Document	DWG-11-A-00-00-MC Aircraft Fresh
* Search	Create I Edit Revise View
📴 🗉 Search - Filter 🔺 🔎 🂡 💭	
Engineering Mod	Main 🖌 Effectivity 🗈 Tasks 📅 Schedules 📒 Reference 🖶 More Information
DOC-3 / 1 :: rtdrtdx :: Released	Auto-Embodiment Required?
BB98-00-00-34 / 0 :: SB :: Released	Effectivity Level
Eo SBR-00-00-33 / 0 :: ENG Sub :: Released	At Serial Level
E0-000101111 / 0 :: Mainten :: Released	Effectivity Details
MITU7 / 0 :: fd :: Fresh	
🖄 MITU1 / 0 :: desc :: Released	(((1 -1/1))) + - 6 - 6 - 6 - 7 、 人生 5 - 7 日 - 1 - 1 - 1
< >	Q
+ Process Change	# 🖹 CS A/C Reg # P A/C MSN P Serial Exists? App. Grp. # Applicable ? Prev. Comp. Doc. # Prev. Comp. Date
+ Links	1 🗈 🗈 101 SR101 Yes 0 Yes 🗸
	² The process parameter
	influences the functionality
	of the pushbutton.
	Undata Maint Drag Template
	Save

Exhibit 3: The Release Engineering Document screen of Engineering Document

*	📩 🔋 Release Engineering Document RamcoRole - RAMCO OU - 🕫 🛱 🖨 🌪 🤉 🕞																
	44 4 1 · 10 / 284 + >>> Y Y, 人 L 回 X 区 自 平 + III AI V V											p					
#		Eng. Doc Type	Eng. Doc #	Revision #	Applicability	Exe Typ	e User Status	Process Ref. #	MCR #	Revision #	ATA #	Category	Subject				
1	E	EO	EO-000588-2015		Aircraft	Minor					00-00		1				
2	E	EI	3105AD		Aircraft	Minor					00-00		3501AD				
3	E	EA	DREO-2	1	Aircraft	Minor					00-00		а				
4	E	EA	DREO-3		Aircraft	Minor					00-00		а				
5	E	EA	DREO-7	2	Aircraft	Minor					00-00		а				
6	E	EA	DREO-8		Aircraft	Minor					00-00		а				
7	1	EA	DREO-9	1	Aircraft	Mind			00-00		а						
8	1	EA	QWERTY1		Aircraft	Mind	Mine The process parameter				00-00		a				
9	1	EI	EO-013		Aircraft	Mind	influences t	he functio	nality		00-00		ads				
10	1	EO	EO-000404-2014		Aircraft	Mind	finderices i		mancy		00-00		Airframe Upgrade				
		<					of the push	button.								>	
	Comments Release / Cancellation Comments Release Eng. Doc. Cancel Eng. Doc.																
Edit E	Edit Eng. Doc. View Authorization Status Log										Track Maintenance Compliance History						

Ability to create, update & view MCR, EO, ESR & EAN details from one screen & filter them based on exceptions & status

Reference: AHBG-10476

Background

A broad single platform with for users to maintain, process and view MCR, EO, ESR & EAN documents with retrieval of documents based on status and exceptions was required to fasten the Engineering Change Management process.

Change Details

Now, the new versatile Engineering Hub screen in the Engineering Document business component will facilitate users to achieve the following from a single platform:

- Create MCR, Eng. Doc & ESR
- View all the documents (MCR, Eng. Doc, ESR & EAN) in one place
- Bookmark documents to users & retrieve them for quick access
- Work / filter the documents based on Applicability
- Filter the documents based on Exceptions & Status
- Search the documents based on keywords for specific fields
- View the related document (MCR & related Eng. Doc.) and (ESR & related EAN)
- View the critical information of each of these documents in cards
- Upload documents / View Associated documents against Eng. Doc.
- Link the Edit screens for each of MCR, Eng. Doc, ESR & EAN
- Collaborate based on the selected document
- View multiple Eng. Docs associated to MCRs & also view multiple MCR associated to Eng. Doc
- Process next action for the selected document
- Quick links for Eng. Doc # for further actions on the document

Exhibit 1: The Engineering Hub screen in Status-based retrieval mode

*	k 🗒 Engineering Hub 🛛 🛪 🖬 🔶 ? 🗔																			
	Al Aircraft Engine Component Automatic Status-						Maint. Change Request 💌 🛨 Greate													
:=	E ! Q << 10 My Doc. based search.					Eng.	Eng. Doc. Not Released 12 Eng.Doc.Pending Auth. 85 ES					85 ESR Not Proc	essed			>>				
	4	1	- 5 / 10 🕟													All	Ŧ			Q
#			Doc. #	Doc. Type	Status	Revision	Applicabilit	y i	Subject			Next Actio	n	Created By		Created Date	Rel. Doc. Type	Rel. Do	c. #	
1	Ē.	B	SB-00-00-12	Eng. Document	Released	0	Aircraft	E	50			Revise EO		DMUSER		26-12-2017				
2		1	EO-000619-20	Eng. Document	Released	0	Aircraft	E	0			Revise EO		DMUSER		26-12-2017				
3			EO-000618-20	Eng. Document	Released	1	Aircraft	F	Review the	previously	y	Revise EO		DMUSER		26-12-2017	Maint. Change	Multiple		
4		1	EDMCR	Maint. Change	Confirmed	1	Aircraft	1	MCR			Create Eng	g. Doc.	DMUSER		26-12-2017				
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Exhibit 2: The Engineering Hub screen in Exception-based retrieval mode

★ B Engineering Hub All Aircraft Engine Component	Automatic Exception	on-	ZK Maint. Change Request						
□ □ Q ≪ 1 Eng. Doc. Future Dated 3	Eng. Doc. On Hold 60	Eng. Doc. Compl. Overdue 2	ESR Dedined	1 MCR On Hold	>>				
<< < 1 -1/1 > >> ⇒				All	Q				
# Doc. # Doc. Type Status	Revision Applicability Sub	bject Next Action	Created By	Created Date Rel. Doc. Type	Rel. Doc. #				
1 🖹 🖹 EO-000619-20 Eng. Document Released	0 Aircraft EO	Re Next Action	DMUSER	26-12-2017					
Wew Document N My Doc. C0-000619-2017 Maint Change Request			opt Bolograd (E0-00619-2017/0					
Doc. Issue Date Action Next Action Consequences PCR #	4 Effec	Eng. Doc. Type EO Effective From Date 01-01-2018 12:00:00 AM Source Doc. Type	ATA # 00-00 Est. Man. H 2.00 Subject	łrs	Effective A/C 1				
Reason Subject	Task	Auto-Embodiment	EO		Task 1				
View All Doc. Schedules Confirm	Cancel + Create Eng	view All Doc.		Release	Quick Links				

Exhibit 3: The Engineering Hub screen in User-based search retrieval mode

\star	k 🗎 Engineering Hub 🛛 🖉 ← ? 🗟												
	۲	All 🔘	Aircraft 🔘 Er	ngine 🔘 Compone	^{nt} Us	er-Speci	fied searc			Mai	nt. Change Request	▼ + Create	
I Q Search On Doc. #, Aircraft Reg #, Part #, Status, Subject, Created by										V		▼ Sea	rch
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Sub	ject		4				*		Auto-Embodiment No				1
V	ew All	Doc.	Schedules		Confi	rm Cancel	+ 0	reate Eng. Doc.	View All Doc.		Release		Quick Links

Effectivity update for Eng. Doc tasks and additional validations for Future Dated Eng. Docs

Reference: AHBG-19939

Background

A provision to update the task effectivity definition in Maintenance Task on release of engineering documents while retaining the status quo of the effectivity list of maintenance objects.

Change Details

Now, on release of engineering documents, the system checks for the task effectivity of the maintenance objects and then updates the effectivity list of the task with the maintenance objects in Maintenance Task in the following way:

- If tasks with aircraft/model/part effectivity from Maintenance Task have been included in the engineering document, the system adds the aircraft/models/parts for which effectivity has been enabled in the engineering document to the task effectivity. (Note: Effectivity is enabled, if Applicable? is set as 'Yes' for the maintenance object in the Effectivity tab.)
- If new tasks (not yet defined in Maintenance Task) or existing tasks with no effectivity definition are added in the engineering document, the effectivity of such tasks is not updated with the aircraft/models/parts for which effectivity has been set as 'Yes' in the engineering document.
- If tasks are added in an engineering document with Applicable? set as 'No' / 'Hold' / 'Previously Complied' for aircraft/models/parts, these aircraft/models/parts are removed from the task effectivity definition in Maintenance Task, if Applicable? is not set as 'Yes' for the same maintenance objects in any other document.

Next, update of task effectivity in Maintenance Task upon addition/modification of effectivity in engineering document in **Edit** mode will happen on the basis of the process parameters defined under the entity type Eng. Doc. Type and the entity All Eng. Doc. Types in the Define Process Entities activity of Common Master. The influence of the process parameters on the update of task effectivity in Maintenance Task upon editing of engineering document's effectivity details as illustrated in the below table.

Process Parameter	Value	Impact
Engineering	As per Revision Rules	If tasks with aircraft/model/part effectivity
Document Revision		from Maintenance Task have been included
Policy		in the engineering document, the system
Mandate Revision on	0	adds the aircraft/models/parts for which
Addition of Effectivity?		effectivity has been enabled in the
		engineering document to the task
		effectivity. (Note: Effectivity is enabled, if
		Applicable? is set as 'Yes' for the
		maintenance object in the Effectivity tab.)
		• If new tasks (not yet defined in
		Maintenance Task) or existing tasks with no
		effectivity definition are added in the
		engineering document, the effectivity of
		such tasks is not updated with the
		aircraft/models/parts for which effectivity
		has been set as 'Yes' in the engineering
		document.
		If tasks are added in an engineering
		document with Applicable? set as 'No' /
		'Hold' / 'Previously Complied' for
		aircraft/models/parts, these
		aircraft/models/parts are removed from the
		task effectivity definition in Maintenance
		Task, if Applicable? is not set as 'Yes' for the
		same maintenance objects in any other
		document.
Engineering	As per Revision Rules	• The system updates the
Document Revision		aircraft/models/parts for which task
Policy		effectivity has been modified to 'Yes' in the
Mandate Revision on	0	engineering document to the task effectivity
Modification of		definition in Maintenance Task, if effectivity
Effectivity?		definition for the task already exists in
		Maintenance Task. (Note: Effectivity is
		enabled, if Applicable? is set as 'Yes' for the

		maintenance object in the Effectivity tab.)
	•	If effectivity of new tasks (not yet defined in
		Maintenance Task) or existing tasks with no
		effectivity are modified to 'Yes' in the
		engineering document, the task effectivity
		in Maintenance Task is not updated with
		the aircraft/models/parts.
	•	If Applicable? for aircraft/models/parts is
		changed to "No' / 'Hold' / 'Previously
		Complied' in the engineering document,
		the aircraft/models/parts are removed from
		the task effectivity definition in Maintenance
		Task, if for the task, Applicable? is not set as
		'Yes' for the same maintenance objects in
		any other engineering document.

Additionally, restriction on the modification of threshold for future-dated engineering documents by users has been imposed, since the system does not consider these values for computation of NSD/NSV on reaching the effectivity date, if they have been user-specified.

Ability to calculate Next Schedule Date/Value only if Threshold is provided

Reference: AHBG-20108

Background

Presently, NSD/NSV for tasks is computed on the basis of Threshold and/or Repeat Interval in the Ramco Aviation system. If only Threshold for a task is available, it is deemed to be a one-time task and if Repeat Interval is provided, the task is considered as a repetitive task. However, in some Aircraft Maintenance scenarios, repetitive tasks may require Threshold in date terms and Repeat Interval in parameter value or vice versa. For such tasks, a provision is required to define a combination of date-based and usage-based schedules with mutually exclusive Threshold with Repeat interval.

Change Details

In order to enable the users to define schedules for repetitive tasks with distinct first-time compliance (Threshold) and thereafter subsequent compliances (Repeat Interval), new process parameter 'Calculate Next Schedule Date/Value only if Threshold is available' has been added under the entity type Eng. Doc. Type and entity All Eng. Doc. in the Define Process Entities activity of Common Master.

Parameter	Value	Impact on NSD / NSV computation in Eng. Doc.				
Calculate Next	1	• The system will allow release of engineering document even if				
Schedule		NSD/NSV is specified for at least one schedule.				
Date/Value only if		Computes NSD/NSV for tasks only if Threshold is provided by				
Threshold is		users in the engineering document.				
available		• Does not consider Repeat Interval even if available for the task.				
		Note: Threshold should be recorded for at least one schedule of				
		the task.				
	0	The system will allow release of engineering document only if				
		NSD/NSV is specified for all schedules.				
		Computes NSD / NSV for tasks based on Threshold or Repeat				
		Interval available in the engineering document.				

Example Scenario: A maintenance task is initially due at 3000 Flight Hours and after first-time compliance; thereafter the task becomes due every 24 months.

WHAT'S NEW IN AIRCRAFT MAINTENANCE PLANNING?

Pre-planning and Associate NST

Reference: AHBG-17338

Background

During aircraft maintenance planning, non-routine/non-standard tasks may be required to be added to the aircraft based on customer priorities. Details including Plan Start Date, Priority & Comments need to be recorded for such tasks, generally called as Adhoc tasks. Further, these Adhoc tasks need to be associated with multiple aircraft. They may also have to be deleted, if not required by the aircraft.

Change Details

An **Aircraft** icon will be provided on the click of which the Flight routing details for the aircraft on the basis of the given search criteria is displayed to the users.

The users will be provided with the Add Task icon to create and add Adhoc / non-routine tasks to an aircraft. The selected aircraft from the **Review Fleet Maintenance Plan** screen will be listed in the Add Task pop-up to facilitate bulk addition of tasks. The users can record **Plan Start/End Date-Time**, **Priority** and **Planning Comments** for the tasks. These Adhoc tasks associated with the aircraft can later be retrieved, and scheduled for execution. A history of **Planning comments** will be maintained using the **Notes f**eature.

The following process parameters have been added under the entity type "Maintenance Planning" and entity "Aircraft Maintenance Planning" in the **Define Process Entities** activity in Common Master to leverage the behavior and functioning of the **Review Fleet Maintenance Plan** screen and influence task creation. However, the users will be allowed to create a non-standard task only if "Generate Non-Standard Tasks" is enabled in the Set Options activity of Maintenance Task. These can also be deleted, if need be.

Process Parameter	Value	Impact in the Review Aircraft Maintenance Plan screen
Default Search tab on launch of	1 (Default)	The Basic Search tab will be defaulted on launch of
Review Fleet Maintenance Plan		the screen
screen		
	2	The Advanced Search tab will be defaulted on
		launch of the screen
Process Parameter	Value	Impact in the Review Aircraft Maintenance Plan
		screen
Aircraft Maintenance Planning?	1 (Default)	Pre-planning and Planning: All Gantts and toolbars



		will be available to users
	2	Only Pre-planning: The Job Details Gantt will be
		available to users
Display Flight routing information	0 (Default)	Search By filter is mandatory
in Visit Planning?		• Duration for the Routing search will not be
		defaulted from Define Process Entities in
		Common Master.
		Aircraft icon will not be displayed
	1	Station or Search By is mandatory
		Duration for Routing search will be
		defaulted from Define Process Entities in
		Common Master.
		• Aircraft icon to be displayed and on clicking
		the icon, the pop-up for Flight Routing
		Details will appear
Default ATA # for NST created	Enter valid	
from the Review Fleet Maintenance	ATA #	
Plan screen	defined in	
	Aircraft	
Mandate Task Category for NST	0	Task Category mandatory for the NST created from
created from the Review Fleet		Review Fleet Maintenance Plan screen
Maintenance Plan screen	1	Task Category not mandatory for the NST created
		from Review Fleet Maintenance Plan screen
Default state for the checkboxes	0	Check boxes will be unselected on launch of the
"Maint. Event, Overdue, Flight		Review Fleet Maintenance Plan screen
Schedule, As Required	1	Check boxes will be selected on launch of the
		Review Fleet Maintenance Plan screen

Exhibit 1: The Review Fleet Maintenance Plan screen



Aircraft Tail to Employee Assignment during shift planning

Reference: AHBG-15820

Background

Certain Aircraft Maintenance scenarios require MSR/AME to be mapped to Aircraft Reg. # based on flight arrival time to facilitate maintenance subsequent to arrival/prior to the next flight. To ensure that the maintenance of aircraft is seamlessly executed, the arrival and departure times of the aircraft from Flight Schedule and the employee details from the work center-shift-employee mapping are taken into consideration to assign jobs to MSR/AME. Additional technicians and equipment, such as vehicles and phones may be necessary and hence assigned for an MSR. The employee certificate/license of the MSR/AME are also validated at the time of the commencement of assigned aircraft/package.

Typically, the Shift lead inquires Aircraft Routing details and shift times for a work center and then assigns packages or aircraft to the MSR available at the work center. The Shift lead may also assign more employees and equipment to the MSR required for execution of the job.

Change Details

The Manage Aircraft - Employee Assignment activity under the Aircraft Maintenance Planning business component has been introduced to assign packages or flights to employees (identified as Primary Employee). The system also ensures that the employee # of the MSR/AME is valid and Active and the employee primary assignment status is 'Authorized' in the HRMS business component.

The users can search for the Scheduled Flight details (fetched from Aircraft Routing information) / Planned package and assignment details (fetched from Aircraft Maintenance Execution) based on search criteria. Additional references, such as technical equipment and car can also be assigned to a Primary employee. Additional employees can also be assigned to a flight /package in the new link page (Assign Additional Employees).

The employees available in a specific work center, shift and time can be retrieved and then assigned to a flight or package based on the arrival/departure of aircraft.

All dates and time including shift start and end dates & time, flight arrival and departure dates and time will be compliant with the local time zone of the concerned station/work center.

Exhibit 1: The Manage Aircraft – Employee Assignment screen

*	🖈 🗻 Manage Aircraft - Employee Assignment Ramco Role - RAMCO OU 🗸 🕫 🔶 🤉													
As	Assignment For													
Work	Nork Center #/ Shift Code Y72-210-00 V shift 1 V Assign by Floht V Station MAA Time Zone IN													
	arch													
		From / To Da	ate & Time 23-1	0-2017 08 🕮 23-10-20	17 01 🗰			Search On	A/C Model #	•	•			
		Displa	ay Option 🔘 All	Assigned	Not Assigned			Search						
As	signi	nent Details						Search						
44	4	1 -1/1 >	₩ =							All		Ŧ		Q
#	6	AC Reg # 🔎	Arr. Flight #	Arr. From Station 🔎	Arr. Date/Time	GT (Mins)	Primary Emp. #	Emp. Name	Addl. Emp	Comments	Addl. Reference	Addl. Refere	nce 2	
1	E	JS-1819	JSA101	AIR	23-10-2017 12:00:00 PM	120	00041383	SENECHAL, DOMIN	A	comments 1	phone1	car1		
2	E							•						
									Click on	the imag	e to			
open the Assign														
<					open ui	e Assign				>				
Assign				Unassign 🕞 Additio			nal Emplo	yees						
pop-up screen														
Grant Workcenter Access Privileges for Users Associate Employees														

Exhibit 2: The Assign Additional Employees screen

Assign Additional Employees 🖷 🖬 ? 🗔							1 ? 🗔 🤇	
ASSIG	n Add	altional Employees	A/C Reg. # JS-1819		Arr. Flight #	JSA101		
					Package #			
4 4	1	-1/1 🕨 🗰 🚍				All	-	Q
	E 6	Emp. #	Emp. Name					
		00000001 🗸	RAMCO, DMUSER					~
		*						*
				Ok				

Packaging multiple instances of Task

Reference: AHBG-15055

Background

Currently, the users can create multiple packages with an instance of the same task in **Aircraft Maintenance Planning**. However, the system allows for the release of a package with an instance of a task only if the previous instances of the same task have already been complied. However, in certain scenarios, (elaborated later in the document) it may become inevitable to package and release a task even when the previous instances of the task are due or not complied yet.

Change Details

In order to facilitate the release of a package with a task ahead of packages comprising previous instances of the same task based on user discretion, a new process parameter 'Allow release of Package with a task whose previous instance(s) is not complied?' has been created under the entity type "Maintenance Planning" and entity "Aircraft Maint. Planning" combination in the **Define Process Parameters** activity of **Common Master**. The process parameter decides whether a package with a task whose previous instances have not been complied yet can be released.

Process Parameter Value	Impact on release of the package
1/Yes	Any instance of the packaged task can be released for
	execution regardless of the chronological order of the
	planned execution in 'Planned' status.
0/No	The user has to release the package for execution containing
	the earlier instance of the task first. Instances of the task must
	be complied with in the chronological order of planned
	execution.

Scenario:

- Service Check is due once every seven days: 1st, 8th, 15th, 22nd and 29th of each month on an aircraft.
- Major packages are planned in advance and one such major package comprises the 5th instance of Service Check that is due for compliance on 29th of the month.
- In such a situation, the major package cannot be released, if the compliance of the previous Service Check scheduled on 22nd or even earlier has not been complied. To ensure that such major checks well-planned in advance are released even when the earlier instances of the tasks are not yet complied, it was necessary that the condition on the compliance of the earlier instances of a task to release a package with a later instance of the task be relaxed.

Exhibit 1: The Set Process Parameters screen of the Define Process Parameters activity in Common Master



Exhibit 2: The Review Fleet Maintenance Plan screen of Maintenance Planning

📄 Review Fleet Maintenance Plan	RamcoRole - RAMCO OU 🗸 🕫 🛱 🗲 🖓 🗔
Basic Search Advanced Search	
Plan Details	- Flight Details
 Line Planning Visit Planning 	Search by* A/C Reg # V trac2
🖃 Arrival Details	Maintenance Details
Station	▼ Maintenance Item* ▼ From / To Date 8/31/2017 箇 3/19/2018
From / To Date & Time 8/31/2017 11:53:10	Duration(Hrs)
	Get Detais
£ £ ≢ ≣ ₩ 10	Package Type 🛛 🗸 🗊 🖬 Assign 🔲 Rele
Job Details	
Aircraft Reg # / Work Unit # 21	May'17 22 23 24 25 28 27 28 29 30 31 01 02 03 04 05 08 07 08 09 10 11 12 13 14 15 18 17 19 0 21 22 23 24 25 28 27 28
NP BTRAC2	
P # ARAH2sch::arah2sch	
P trt11::trt11 desc	
P B dpr1:/dpr1 desc	Select the Release check box and then
PNP trt6::trt6 desc	click the Create Package icon to release
PNP dpr2::dpr2 desc	the package. This icon is impacted by
DIRO HITbild Hit	the new process parameter
NP	the new process parameter
■ NP ■ TRAC2	
NP B TRAC2	
■ NP ■ TRAC2	
Work Center #	From / To Date 8/31/2017 🕮 3/19/2018 🕮 Search on 🔽 🧲
ð :: ö	
Package Details	
Package # Package Type	1 02 03 04 05 08 07 06 09 10 11 2 13 14 15 16 17 18 19 20 21 22 23 00 01 02 05 04 05 06 07 06 09 10 1 14 15 16 17 18 19 20 21 22 23 00 01 02 05 04 05 06 07 06 09 10 1 14 15 16 17 18 19 20 21 22 23 00 01 02 05 04 05 06 07 06 09 10 1 14 15 16 17 18 19 20 21 22 23 00 01 02 05 04 05 06 07 06 09 10 1 14 15 16 17 18 19 20 21 22 23 00 01 02 05 04 05 06 07 06 09 10 1 14 15 16 17 18 19 20 11 14 15 16 17 18 19 10 14 14 14 14 14 14 14 14 14 14 14 14 14
185-20	
₩ Nos-25 Work Center not available	The Plan Jobs pushbutton
on Dat	is impacted by the new These icons are impacted by the
	process parameter new process parameter
05	
	Plan Jobs

Enhancements in Daily Planning Report

Reference: AHBG-19228

Background

The **Daily Planning report** retrieves the packages with planned start and end dates falling in the period specified by the users. However, in some situations, users may want to view only those packages that have already been released for execution. Hence, a provision to retrieve packages based on user preference for status must be provided in the report.

Change Details

Till now, packages in all statuses except Cancelled and Closed were retrieved in the report. Now, the new process parameter 'Display only released Packages?' under the entity type "Reports" and the entity "Daily Planning Report" in the **Define Process Entities** activity of **Common Master** will decide whether only packages released for execution will be retrieved in the **Daily Planning report**. The following table elaborates on the functionality of the new process parameter.

Process parameter value	Impact in Daily Planning Report
1/Yes	Packages in the status 'Planned', 'In-Progress' and 'Completed' will be retrieved in the report.
0/No	Packages in the status 'Fresh', 'Planned', 'In-Progress' and 'Completed' will be retrieved in the report.

Ability to retain the same Material Request # for Tasks/ Discrepancies across Planned Date changes

Reference: AHBG-23303

Background

In real time, aircraft maintenance packages are planned by planners much ahead in time. Thereafter, part availability is ascertained to ensure that the requisite parts in necessary quantities are available in the warehouses. For parts not found in the warehouses, purchase requests/orders are generated against the tasks/discrepancies to acquire the parts. However, owing to certain reasons planners may shift the planned start and end date of tasks/discrepancies in packages to the future. Currently, upon change of planned dates, the system automatically short closes the material requests and generates new material requests with the same part/quantity/warehouse and new Need Date. This results in the snapping of links between the old material requests and purchase request/orders. Hence, a provision to merely change Need Date while retaining the existing material requests of planned tasks/discrepancies that have undergone planned date changes is required in the system.

Change Details

The new process parameter 'Auto-Short Close Open Material Requests on Planned Dates Change of Tasks & Discrepancies from the Planning Board Gantt?' under the entity type **Package Type** and the entity **All Packages** in the **Define Process Entities activity** of **Common Master** will decide whether the material requests against tasks/discrepancies whose planned dates have changed must be short closed.

Process Parameter Value	Impact on moving of task / discrepancy planned dates to the future in the				
	Job Details Gantt in the Review Aircraft Maintenance screen				
0 / Not Required	All Authorized material requests will be short closed.				
	New material requests will be created with new Need Date (Need				
	Date will be set to the new planned start of the task / discrepancy				
1 / Required	All Authorized material requests will be retained				
	Need Dates will be set to the new planned start of the tasks /				
	discrepancies				
Exhibit 1: The Set Process Parameters page

Set Process Parameters			겨름	₽ ← ? ि
Entity Details Entity Type Package Type Record Status Active Process Parameter List	Process Parameters D	Entity A efined? Yes	NI Packages ▼	
≪		14 26	All	Q
# Process Parameter	Permitted Values	Value	Status	Error Message
26 Auto-Short Close Open Material Requests on Planned Dates Change of Tasks & Discrepancies from the Planning Board Gantt	Enter "0" for "Not Required", "1" for "Required"	1	Defined	
27 End all running docks for login user inside/across package(s) in Mechanic Anywhere? 28 New process parameter	Enter '0' for Inside Package', 1' for Across Packages	0	Defined	
<				>
Set Proc	ess Parameters			

WHAT'S NEW IN AIRCRAFT & COMPONENT MAINTENANCE PROGRAM?

Next Due Date Calculation to consider the Station's Date when "End of Day" option is set

Reference: AHBG-20273

Background

Generally, for calendar-based tasks complied on components and aircraft, NSD is computed based on the LPD as per the UTC time zone, if **Next Due Computation Logic** is set as **End of Day** in the Component Maintenance Program, Aircraft Maintenance Program and IMPUC screens. However, in situations when a task is executed late night or early morning, the UTC time zone based LPD may not be the actual last performed date owing to the time lag between the UTC and the station. As a result, NSD computed on the basis of the UTC last performed date may lead to a variance of a day in the NSD of tasks. In order to compute precise NSD, the actual last performed date needs to be derived based on the time zone of the station.

Change Details

This enhancement introduces new process parameter "Compute Next Due based on execution station's time zone when Next Due computation logic is 'End of Day'" under the under the entity type "Maint. Program and Forecasting Options" and the entity "Next Due computation logic" in the **Define Process Entities** activity of **Common Master** to decide the basis of computation of NSD for date-based schedule tasks complied in **Aircraft Maintenance Execution** and **Shop Work Order**. However, this process parameter works in conjunction with another process parameter "Next Due computation logic" defined under the same entity type and entity as the new process parameter.

Compute Next Due based on execution	Next Due	NSD computation method		
station's time zone when Next Due	computation			
computation logic is 'End of Day'	logic			
1/Yes	0/End of Day	LPD as per the time zone of Execution		
		Station + Interval Days		
0/No	NA	LPD as per the time zone of UTC +		
		Interval Days		

Illustration:

Schedule for Task in AMP

111 | Enhancement Notification

Task	Interval	LPD (Local Station Time)	LPD (in UTC)	NSD
Task-XXX-01	10			11-Aug-2017 23:00

The above task was executed in the Perth station which is 1.5 hours behind the UTC time zone (Adelaide) on 10-Aug-17 11:00 PM.

Now when the task is performed in Shop or AME, NSD for the task will be derived as follows, if the new process parameter is set as 1/Yes.

Task	Interval	LPD (Local Station Time)	LPD (in UTC)	NSD
Task-XXX-01	10	10-Aug-2017 23:00	11-Aug-2017 00:30	20-Aug-2017 23:59:59

While updating /computing NSD/NSV from IMPUC screen, system will consider UTC Date & Time always. Similarly while correcting the compliance in Track Maintenance Compliance History screen system will consider only the UTC Date & Time irrespective of the option set.

NSD Computation Logic in the IMPUC screen, if the new process parameter is set as 1/Yes or 0/No.

Task	Interval	LPD (Local Station Time)	lpd (UTC)	NSD
Task-XXX-01	10	10-Aug-2017 23:00	11-Aug-2017 00:30	21-Aug-2017 23:59:59

WHAT'S NEW IN AVERAGE UTILIZATION COMPUTATION LOGIC?

Avg Util. Computation based on Calendar days

Reference: AHBG-20270

Background

Currently, in Ramco Aviation, the average utilization value of the parameters for aircraft and components is computed on the basis of flight days. However, an option to compute the average utilization based on calendar days must also be incorporated in the system.

Change Details

New process parameter 'Average Utilization Computation basis.' added under the entity type "Maint. Program and Forecasting Options" and the entity "Avg. util. Comptn. Schr" in the **Define Process Entities** activity of **Common Master** will now decide the logic to be adopted for the computation of average utilization. The effect of the new process parameter on the average utilization computation is illustrated in the following table.

Process parameter value	Impact on average utilization computation
1/Calendar Days	The total parameter value for the duration specified for the process
	parameter 'Range in Months to be considered for Average Utilization
	Computation scheduler' will be divided by the number of Calendar days
	occurring in the same duration.
	Example: If the duration specified for process parameter is 3 months (92 days)
	and the number of flight days is 70 days in the last 3 months, the average
	utilization value for FH will be:
	Total FH for last 3 months/92
0/Flight Days	The total parameter value for the duration specified for the process
	parameter 'Range in Months to be considered for Average Utilization
	Computation scheduler' will be divided by the number of Flight days
	occurring in the same duration.
	Example: If the duration specified for the process parameter is 3 months (92
	days) and number of flight days is 70 days for the last 3 months, the average
	utilization value for FH will be:
	Total FH for last 3 months/70

WHAT'S NEW IN COMPONENT MAINTENANCE PROGRAM?

Position Based Schedule

Reference: AHBG-20272

Background

Presently, the system overwrites maintenance program schedules of attached components on inheritance of the Active position based schedules. However, a provision to retain NSD/NSV of the attached components in the absence of LPD/LPV during inheritance, if manually specified was found necessary since users would have specified these values for a specific business purpose.

Change Details

In order to be able to retain user-specified NSD/NSV of attached components during inheritance of the position based schedules based on user preference, new process parameter 'Retain manually corrected Next Due Date & Value for the component task when the position based schedule is inherited if LPD & LPV is not available' has been added in the **Define Process Entities** activity of **Common Master**.

This process parameter defined under the entity type "Next Due Computation Logic" and entity "Maint. Program and Forecasting Options" will decide whether user-specified NSD/NSV will be retained during inheritance of position based schedules as illustrated in the below table.

Process parameter value	Impact on inheritance of position based schedules by attached
	components
1	NSD / NSV, if manually specified by users in the maintenance program
	of the attached components are retained in the absence of LPD and LPV
0	The position based schedules overwrite the maintenance program
	schedules of attached components

Ability to Inherit Part Program changes to Component Maintenance Program

Reference: AHBG-21298

Background

Currently, inheritance of part program (PP) revisions to component maintenance programs (CMP) does not happen automatically. Though, new components inducted subsequent to program revision will inherit the changes, the existing components do not inherit changes. As a result, the users have to tediously update the part program revision changes in CMP manually for each of the components.

Change Details

The following changes have been incorporated in the system to facilitate inheritance of program revisions:

- New check box **Copy to Components** introduced in the **Edit Part Program Information** page. Now, by selecting the check box, the users can ensure the inheritance of revisions in PP to CMP automatically.
- The process parameter Default state for Copy to Components' checkbox in Part Program? has been
 added under the entity type Tech Records Process Ctrl and the entity Part Program? in the Define
 Process Entities activity of Common Master to default the selection/deselection of the Copy to
 Components check box.

Default state for Copy to Components' checkbox	Impact on the Copy to Components check box
in Part Program? Value	
1	Ensures that the check box selection remains as it
	was previously saved by the user
0	Ensure that the check box remains selected always
	regardless of the previous selection

- Upon authorizing of the PP, the system copies the revision changes made in the PP to the CMP. Both, Fresh and Active CMP will inherit the revision.
- Another process parameter Component Maintenance Program status upon inheriting Part Program changes? has been added under the entity type Tech Records Process Ctrl and the entity Part Program in the Define Process Entities activity of Common Master to set the status of the CMP subsequent to successful inheritance of PP.

Component Maintenance Program Impact on the Copy to Components check box	
status upon inheriting Part Program	
changes? Value	
1 / Fresh	The CMP retains the Fresh status upon inheriting PP

	changes. However, if the CMP was in the Authorized
	status before inheritance, a new revision in the Fresh
	status will be created upon inheritance.
2 / Authorized	The CMP retains the Authorized status upon inheriting
	PP changes. However, if the CMP was in the Fresh status
	before inheritance, it will remain in Fresh status upon
	inheritance.

• The link Maintain CMP will be added in the Maintain Part Program screen.

Inheritance of PP to CMP happens over the below-mentioned event:

• Authorization of PP

Revisions in PP are inherited to CMP at the following levels:

- Program
- Task
- Schedule

Exhibit 1: Addition/changes in the Edit Part program Information screen

★ 🗎 Edit Part Program	m Information				= 쟈 홈 다	← ? 🗔
- Part Details						
	Part # CFM-ENGINE			Part D	Description CFM-ENGINE	
	Maintenance Process Hard-Time				ATA # 122-30	
	Replacement Type LRU					
- Program Details						
	Program Status Fresh			Us	ser Status 💌	
	Revision # 0					
Demonstrate	Remarks					
- Removal Details	Parent Removal Not Required	-		Specific	Part # 0	
	Turche Renioval	•		opeaner		
++ + 1 - 5 / 13 →	* + - 0 % 0 0 T T				# == III AI ▼	Q
# 🖻 Program Group	Maintenance Type	Work Unit # 🔎	Prog. Item Type	Default Exe. Priority	Initiated/ Reset by	Re
1	✓ Inspection	DME-TASK-T1	Block	*	✓ Self Compliance	✓ No ¹
2	✓ Inspection	 DME-TASK-T2 	Base	*	✓ Self Compliance	✓ No ¹
3	✓ Inspection	 DME-TASK-T3 	Base	~	✓ Self Compliance	✓ No ¹
4	✓ Inspection	 DME-TASK-T4 	Non-Block	*	✓ Self Compliance	✓ No ¹
5	✓ Inspection	 DME-TASK-T5 	As Required	*	✓ Self Compliance	✓ No ¹
<						>
Get Base Task					Select the check box for	
					automatically inherit PP	
- Action	Changes Work Unit Otatus Tax	-		Constant Company	revisions to CMP	
·	Change Work Unit Status To:			Copy to Components		
			Update Program			
Edit Date Based Schedule		Edit Usage Based Schedule		View Work (Center Details	
Maintain Task Relationship						
Copy Program to Part #		Authorize Part Program		Upload Doc	uments	
View Associated Doc. Attachments		Maintain CMP				
- Record Statistics		<u>```</u>				
	Created by DMUSER	New	link	Creat	ted Date 15-04-2016	
	Last Modified by DMUSER			Last Modif	fied Date 08-07-2016	
	Authorized by			Authoriz	zed Date	

WHAT'S NEW IN COMPLIANCE TRACKING & CONTROL?

Ability to Upload Discrepancies with Cabin Additional Attributes

Reference: AHBG-20406

Background

Presently, the cabin attributes and cabin equipment category are not recorded against discrepancies. However, uploading/maintaining of these details has now become inevitable since discrepancies uploaded from LineAnywhere and other third party applications carry these details which have to saved/maintained/viewed in the Ramco Aviation system.

Change Details

New input fields representing cabin attributes and equipment category have been added for uploaded discrepancies in the **Discrepancy Details** multiline of **Maintain Discrepancy Information** screen of **Compliance**

Tracking & Control.

The new input fields include:

- Defect Type
- Affected Function
- Confirmed?
- Safety Related?
- Pax. Abuse?
- Cabin Position #
- No. of Channels
- Equipment Category
- Reported Station
- Closed Station

Exhibit 1: The Maintain Discrepancy Information screen in Compliance Tracking & Control

★ 🗎 Maintain Discrepancy Information	•	Ramco Role - RAMCO C	U → 3/\$		₽ ←	?	Cō.
Create / Update Discrepancy O Upload Discrepancy							
New fields to be viewed/maintained against uploaded discrepancies							
Upload Discrepancy Details							
(((1 -1/1))) + - ロメロのマス 人生日文に自知の		AI		Ŧ		_	Q
# 🗟 Defect Type Affected Function Confirmed? Safety Related? Pax. Abuse? Cabin Position # No. Of Channels Equ	quipment Cat	tegory Reported Statio	n P	c	Closed Sta	tion 🔎	
1 🖥 🔻 v v v v							
							_
<							>
Validate Upload Discrepancy Information	1						
Edit Discrepancy Additional Information Upload Documents							

Ability to View/Modify Cabin Additional Attributes for Discrepancies

Reference: AHBG-20198

Background

Presently, the cabin attributes and cabin equipment category are not recorded against discrepancies. However, view/maintaining of these details has now become inevitable since discrepancies uploaded from LineAnywhere and other third party applications carry these details which have to viewed/maintained in the Ramco Aviation system.

Change Details

New input fields representing cabin attributes and equipment category have been added to enable viewing/maintaining during creating/updating discrepancies in the **Discrepancy Details** multiline of **Maintain Discrepancy Information** screen of **Compliance Tracking & Control**.

The new input fields include:

- Defect Type
- Affected Function
- Confirmed?
- Safety Related?
- Pax. Abuse?
- Cabin Position #
- No. of Channels
- Equipment Category
- Reported Station
- Closed Station

However, the availability of the above details will be controlled by two process parameters - "Display 'Equipment Category' in Maintain Discrepancy Information?" and "Display Cabin Defect Attributes in Maintain Discrepancy Information?" under the entity type 'Discrepancy Management' and the entity 'Discrepancy' in the Define Process Entities activity of Common Master as illustrated in the table next.

Display	Display Cabin	Fields available	Fields not available
'Equipment	Defect Attributes in		
Category: value	Maintain		
	Discrepancy		
	Information: value		
1	1	Equipment Category	NA
		Defect Type	
		Affected Function	
		Safety Related?	
		Pax. Abuse?	
		No. of Channels	
1	0	Equipment Category	Defect Type
			Affected Function
			Safety Related?
			Pax. Abuse?
			No. of Channels
0	1	Defect Type	Equipment Category
		Affected Function	
		Safety Related?	
		Pax. Abuse?	
		No. of Channels	
0	0	NA	Equipment Category
			Defect Type
			Affected Function
			Safety Related?
			Pax. Abuse?
			No. of Channels

Exhibit 1: The Maintain Discrepancy Information screen in Compliance Tracking & Control

Pn	mary	Search Criteria	Additional Search Criteria	а									
		Display Oj	tion All Discrepancies	•			Maint. Object	T			Discrepancy Type	•	
		Record St	atus 🔍			Discrep	ancy Category	•			ATA #		
		Log Ite	m #			Deferra	Type / Item #	•					
		Source Task # / Dis	c. #										
Di	screp	ancy Details						Search		New fields to be against discrepa	viewed/maint ncies	ained	
ľ	4	1 - 10 / 2632 🕞	* + - 0 * *	ст.					J.	X C İ X C # #	III AI	•	
		Defect Type	Affected Function	Confirmed?		Safety Related?	Pax. Abuse?	Cabin Position #	No. Of Channels	Equipment Category	Reported Station 🔎	Closed Station 🖌)
		IFE Malfunction 🗸	AFFECTED FUNCTION 1 🗸	No	~	Yes 🗸	Yes 🗸		6	eqip-2, eqp-1	DUB	DUB	
		*	*	Yes	~	Yes 🗸	Yes 🗸		2	1, 20, 2000, 220, defect, error	LAS		
		*	*	Yes	*	Yes 🗸	Yes 🗸		1	1, 10, 1000, 220, defect, error	LAS	LAS	
							×				AIR	AIR	
		¥	*	No	×	•							
		*	*	No	÷	*	*				MAA	MAA	
		*	*	No No No	*	*	*				MAA AIR	MAA AIR	
		*	*	No No No No	* * *	*	*				MAA AIR FRA	MAA AIR FRA	
		* * *	* * *	No No No No No	* * *	*	* * *				MAA AIR FRA YUL	MAA AIR FRA YUL	
		*	*	No No No No No	* * * * *	*	* * *				MAA AIR FRA YUL YUL	MAA AIR FRA YUL YUL	
		* * * *	* * * *	No No No No No No	* * * * * *	*	· · · · · · · · · · · · · · · · · · ·				MAA AIR FRA YUL YUL YUL	MAA AIR FRA YUL YUL YUL	
		* * * * *	* * * *	No No No No No No	* * * * *	* * * *	· · · · · · · · · · · · · · · · · · ·				MAA AIR FRA YUL YUL YUL	MAA AIR FRA YUL YUL YUL	

Provision to display Prog. Status in IMPUC screen

Reference: AHBG-21015

Background

Typically, the users update the schedule information of maintenance programs in the **Initialize Maintenance Program & Update Compliance (IMPUC)** screen of **Compliance Tracking & Control**. Though, this screen displays details including **Maint**. **Prog. #** and **Prog. Rev. #**, the users have no clue as to the status of the maintenance program that they are updating or working with. When updating schedules, being aware of the program status would help users, since schedule updates done in Active programs are carried over to Fresh programs while schedule updates in Fresh programs do not impact other versions of the program.

Change Details

A display column Prog. Status has been added in the **Task Details** multiline of the **IMPUC** screen to retrieve and display the **current s**tatus of the maintenance program. However, this column is available only if the update option for the program is set as "Update Schedule" and the screen is displayed in **Detailed View**. **Exhibit 1:** The **IMPUC** screen

*	a :	Initialize Maint. Pro	og. & Update Complia	nce					RamcoRole -	RAMCO OU 👻 🗄		+ ? 🖪	미상
								Date & Time Form	at dd/mm/yyyy	hh	:mm:ss		
	Updat	e Basis											
	_	L	Jpdate Option Update Sche	dule 💌	00	ompact View	Detailed View		Ref. Doc. #		Ŧ		
	Searci	i Criteria											
			Display Option All	Tasks 💌				Maintenance	Object Aircraft Reg #	* v 101			
			Program Details	•				Task	Details	-			
			Rem. Value < = *			•		Schedul	Status Fresh & Activ	• •			
						Search							
	Defau	lt Details					_			The new	Prog.		
			Execution Doc. #					Compliance Date	& Time 31/01/201	Status fie	hld		
			Execution Comments							Status ne			
			Remarks							\neg			
	Task E	etails											
44	4	1 - 15 / 74 📦 📦	+ - 0 * • • T	T,			人口	5 x 2 8 × •	# # III Al		*	Q	,
#		Aircraft Reg # 🔎	Part # 🔎	Serial # 🔎	Task # 🔎	Doc # 🔎	Eng. Doc Rev #	Maintenance Program #	Prog Rev #	Prog. Status	Position Code 🖇)	
1		101			0000-A31-0015454			SR101	20	Active			
2		101			0000-A31-0015455			SR101	20	Active			
3		101			0000-A31-0015455			SR101	20	Active			
4		101			0000-A31-0015455			SR101	20	Active			
5		101			0000-A32-0006473	\$	0	SR101	20	Active			
6		101			1CCtask-I-OT-C	100573-2015	1	SR101	20	Active			
7		101			1CCtask-I-OT-C	00573-2015	1	SR101	20	Active			
8		101			1CCtask-I-OT-NC	100573-2015	1	SR101	20	Active			
9		101			1CCtask-I-OT-NC	00573-2015	1	SR101	20	Active			

Ability to validate the escalation value beyond the positive tolerance limit

Reference: AHBG-21256

Background

Presently, the users can create short term escalations of tasks in the maintenance programs with no restriction on the quantum of escalation values. However, a provision that prohibits the users from creating short term escalations with escalation values greater than the preset positive tolerance limit is required to address exceptional scenarios in aircraft maintenance.

Change Details

Now in the Request Short Term Escalations /Edit Short Term Escalation Limits screen of Compliance Tracking & Control, the users can create a short term escalation for any schedule of a task with an escalation value greater than the positive tolerance limit defined for that schedule, if the process parameter "Allow Escalation beyond the Positive tolerance limit?" under the entity type "Maintenance Planning" and the entity "Aircraft Maint. Planning" in the Define Process Entities activity is set as 1 / 'Yes'. However, if this process parameter is set as 0/ 'No', the system does not allow the users to specify an escalation value greater than the preset positive tolerance limit. Upon approval of the short term escalation in the Approve Escalations activity of Compliance Tracking & Control,

the system calculates NSD for the updated schedules and the earliest NSD among all the schedules is considered as the NSD for the task.

Exhibit 1: The fields impacted by the process parameter highlighted in the Request for Short Term Escalations screen

\star 🗎 Request Short T	erm Escalations			•	Ramco Role - F	RAMCO OU 44 4 1 2	3 4 5 > >> 2	/66 🍱 🖶 🛱 🕇	? 🗟
Short Term Eccelation Data	sile					Date & Time	Format dd-mm-yyyy	hh:mm:ss am/pm	
	Short Term Esc. Ref # FSCO	0066-2018					Status Fresh		
	Aircraft Reg # 1233	21				Numberi	ng Type ESC × v		
- Default Details									
	Reason Category	•				Schedule Res	et Basis 🔍 🔻	•	
	Escalate by FH					Escalat	e by FC		
	Escalate by Days								
- Task Details									
(4) 4 1 −1/1 >	* + - 0 % ¢ ¢ T	Tx			<u>> 10</u>	a x c e x e a	🗯 III AI	-	Q
# 🗇 Task # 🔎	Due Date/ Value	Reason Category		Schedule Reset Basis		Escalate by FH	Escalate by FC	Escalate by Days	
1 🖹 2-50C-0000-CMM-	7.00FC	DEFERRAL REASON	~	Last Schedule	*		1.0	00	
2			*		*				
<									>
Get Base Task									
+ Requestor Details									
	Request/ Edit Escalation				Confirm Escalation		Can	cel Escalation	
Edit Limits		Upload Do	cuments			View Associa	ted Doc. Attachments		
View Task Date & References		View Const	umption & I	Range Parameters (Aircraft)		View Consur	nption & Range Parameters (Comp	ponent)	
- Record Statistics									
-	Created by DMUS	ER				Created Date	& Time 30-01-2018 02:33:10 P	м	
	Last Modified by DMUS	ER				Last Modified Date	& Time 30-01-2018 02:54:25 P	м	
	Confirmed by DMUS	ER				Confirmed Date	& Time 30-01-2018 02:50:53 P	м	

Exhibit 2: The fields impacted by the process parameter highlighted in the Edit Short Term Escalation Limits screen

*	D	Edit Short	Term Eso	calation Limits							Date	a nine i	• orillat	Ramco Role - RAMCO OU	24 🖶 🖾 ♦	⊢ 3) []
	ort T	erm Escalati	ion Details -														
				Short Term Esc. Re	f # ESC000066-2	018							Status	Fresh			
	ek D	ataile		Aircraft Re	g # 123321												
	ISK D	ctans		Tas	k # All Tasks		v				Ţ	ask Desc	ription				
				Componen	t #						P	'art # / S	erial #				
- E	calat	ion Limit - Ca	alendar Bas	Escalated by (Da	vs)							Alert	(Davs)				
				Revised Due D	ate							Du	e Date				
- E	calat	ion Limit - V	sage Based														
44	4	1 - 3 / 3	• •	+ - 0 % (人口日	XZ	🗎 🛛 C	#	-	AI DI	T		Q
#		Parameter	UOM	Due Value	Current Value	Revised Due Value	Escalated by	Alert Value				Para	ameter i	Description			
1		EC	EA				1.00					Engi	ne Cyd	es			
2		EH	HRS				1.00					Engi	ne Hou	rs			
3		FC	CYC				1.00					Flyir	ng Cycle				
4																	
		<															>
-				Edit Limita							Confirm	Fecalati					
				Eurcennics							Committee	ESCalati	UII				
View (onsur	nption & Range	e Parameters	(Aircraft)		View Consumptio	n & Range Parameters (Component)									
	cord	Statistics –															
				Last Modified	by DMUSER						Last Modifi	ed Date	8. Time	30-01-2018 02:54:25 PM			

WHAT'S NEW IN AME & SHOP WORK ORDER?

Ability to validate for empty mandatory position(s) upon Package & Work Order closure

Reference: AHBG-23205

Background

In aircraft, certain positions in the components/engines/aircraft are set as mandatory positions (meaning these positions must not remain unattached / empty at the time of release for service). The system does not allow closure of work orders, if any mandatory position in the involved components/engines is empty. However there can be situations where in a part can enter the internal repair shop, with one or many of its mandatory positions being empty. On completion of repairs for such components, the system prevents the closure of the internal work order since one or more mandatory positions are empty. In such times, the aircraft maintenance engineers can do little to close the work order since the removed mandatory part from would be lying in the work center where the component was removed from the aircraft and not in the internal repair shop. In order to avoid such impasses in the maintenance process, a provision to allow closure of work orders in spite of empty mandatory positions must be supported by the system. At the same time, it is unsafe to fly an aircraft with empty mandatory positions and hence a provision to prevent the closure of packages against such aircraft is also required to be supported by the system.

Change Details

- A new process parameter Allow closure of Work Order when mandatory position(s) is/are empty for the main core' under In the entity type- 'Work Order Type' and the entity- All User defined Work Order types in the Define Process Entities activity of Common Master has been added to allow closure of work order with empty mandatory positions inside the component being worked on.
 If the process parameter is defined as '1' / 'Yes', the system will allow for closure of Work Orders with empty mandatory positions inside the component. On the contrary, if the process parameter is defined as '0' / 'No', the system will prevent the user from closing the work order with empty mandatory positions inside the component.
- 2. Another new process parameter Allow closure of AME package when mandatory positions are empty for the aircraft? under In the entity type- 'Package Type' and the entity- All User defined Package types in the Define Process Entities activity of Common Master has been added to restrict closure of packages with empty mandatory positions inside the aircraft being worked on.

If the process parameter is defined as '1' / 'Yes', system will allow for closure of packages with empty

mandatory positions inside it. If the process parameter is defined as '0' / 'No', the system will prevent user from closing the package, with empty mandatory positions inside the aircraft being worked on.

WHAT'S NEW IN FLIGHT LOG?

Ability to Auto-Issue Tools when reporting Resource Actuals

Reference: AHBG-21925

Background

A provision is required in the system to automatically issue tools from unmanned tool cribs. In real-time, mechanics pick up the tools required for execution from unmanned tool cribs and then record the tool usage information in the system against the tasks. Once the tool usage information is recorded, the system must auto-issue the tool from the tool crib associated to the work center.

Change Details

The process parameter 'Auto Issue of Tools when Resource Actuals are recorded for the Task/Discrepancy?' under In the entity type Package Type and the entity Log Cards and User Defined Values in the **Define Process Entities** activity of **Common Master** has been added to facilitate auto-issue of tools required for task execution. If the process parameter is defined as '1' / 'Required', the system allows for the auto-issue of requested tools to mechanic against tasks at the time the used tool is updated in the **Report Resource Estimates / Actuals** activity of **Flight Log** under the following conditions:

- Resource Type must be 'Tools'
- Update Mode must be 'Actuals'
- Status of source task or associated task must be Planned/In Progress/Completed
- The required tool must be available for issue in the tool crib (serviceable request warehouse for Part Type 'Tools') be mapped to the work center in which the task is scheduled for execution

However, if the process parameter is set as 0/'Not Required', the system does not permit auto-issue of tools to tasks.

Ability to Auto-Return Tools during Task/Discrepancy Closure

Reference: AHBG-21926

Background

In real-time scenarios, mechanics themselves return the tools to the unmanned tool cribs upon closure of tasks and discrepancies. A provision is required in the system to automatically return the issued tools intuitively to the tool crib associated with the work center in which the task/ discrepancy was executed.

Change Details

The new process parameter 'Auto-Return of Tools on Task/Discrepancy Closure?' under the entity type Package Type and the entity Log Cards and User Defined Values in the Define Process Entities activity of Common Master has been added to facilitate auto-return of tools on closure of task/discrepancy.

If the process parameter is defined as '1' / 'Required', the system allows for the automatic return of issued tools to mechanic in the **Report Resource Estimates / Actuals** activity of **Flight Log** under the following conditions:

- Resource Type must be 'Tools'
- Tools must have been auto-issued
- Status of the task must become Closed, Pre-Closed, Deferred, Cancelled, Duplicate or Routed for Repair on closure
- Status of the discrepancy must become Closed or Cancelled on closure

However, if the process parameter is set as 0/'Not Required', the system does not permit auto-return of tools.

WHAT'S NEW IN AIRCRAFT MAINTENANCE PROGRAM?

Provision to View Parameter Values from TMCH screen

Reference: AHBG-21888

Background

Users want a provision to view parameter values of aircraft/component as on the compliance date of the task/discrepancy while tracking maintenance compliance of maintenance objects.

Change Details

Two links - View Aircraft Parameter Values and View Component Parameter Values have been added in the Track Maintenance Compliance History screen of Aircraft Maintenance Program. Now, the users can access these links to view the parameter values for the maintenance objects as on the task/discrepancy compliance date and time.

★ 📋 Track Maintenance Compliance History ≭ 帚 ₽ ← ? □ Date & Time Format yyyy-dd-mm hh:mm:ss am/pm Search Criteria Action Manage 🗙 🔻 Maint. Object Aircraft Reg # 🛛 🔻 101 Search on All Compliance 2018-20-02 mm • Compliance Date: From / To . Eng. Schedule Type Applicability . Additional Search on Search Compliance Details (i ← 1 -10/107 → → + □ ○ ○ ▼ T_x Ŧ # 🗇 Aircraft Reg # Task # Task Description Task Rev # ATA # Job Type Compliance Date & Time Parameter Due Date Due Value Complied Va 101 00-00 101 A-Check 0000-B76-00-00 Calendar 2016-05-02 08:17:18 AM E 101 0000-B76-A-Check 00-00 Aircraft Aircraft Calendar 2016-15-01 06:58:47 2016-03-02 05:00:20 PM E 101 0000-B76- A-Check Calendar 2016-06-01 06:53:59 2016-05-01 06:55:40 PM 00-00 E 101 0000-876-Increation Checklist 00-00 Aircraft 2016-15-01 06:55:40 2016-05-01 06:58:47 PM Calendar 101 test Aircraft 2017-17-07 04:52:59 AM 6 200/5 00-00 200/8 00-00 Aircraft 2017-01-09 09:23:33 AM Calendar 2014-31-05 11:59:59 2016-20-02 11:05:32 AM 8 E 101 3-00000012 Test Operation 2 05-00 Aircraft 3-00000012 Calendar FH 2013-11-01 12:00:00 2014-30-04 04:54:00 PM Test Operation 05-00 Aircraft 3-A31-00-1 10 🗉 101 task 00-00 Aircraft 2014-30-04 04:15:03 PM 532.00 510.00 < > -Initialize Maint. Prog. & Update Compliance View Aircraft Parameter Values Inquire Short Term Escalation Status Record AME Maintain Discrepancy Information View Component Parameter Values ociated Doc. Attachments

Exhibit 1: The new links in Track Maintenance Compliance History screen

WHAT'S NEW IN COMPONENT MAINTENANCE PLANNING?

Retrieve Work Requested information in Route Unserviceable Components / Parts screen

Reference: AHBG-13650

Background

A part, if removed from an aircraft as 'Unserviceable' is retrieved in the **Route Unserviceable Components/Parts** screen. The Hangar manager then routes the part for internal repair (against a shop work order) or external repair (against a repair order). For deciding on this, he will require in-depth factual details that only the Maintenance planner can provide leading to efficient maintenance execution.

Change Details

As part of this enhancement, the contents of the Workscoping Comments field recorded in the Edit Package Additional Information page in the Plan Aircraft Maintenance activity against the Component Removal/On Wing tasks will be defaulted in the Work Requested field of the Component Replacement tab in the Record AME Details screen. This provides background information to the AME regarding the component removal/on-wing task leading to informed decision making. However, the system retrieves Work scoping Comments recorded in the Edit Package Additional Information page on launch of the Record AME Details screen based on the process parameter "Display Work scoping comments in Work requested field during Component Replacement?" under the entity type 'Package Type' and the entity 'All Packages' in the Define Process Parameters activity of Common Master. The following table illustrates the default behavior of the field depending on the process parameter value.

Process parameter value	Impact on default display of the Work Requested field							
0 / Not Allowed	The field displays blank.							
1 / Allowed for Job Type On-wing	Workscoping Comments from the Edit Package Additional Information page will be defaulted for tasks/discrepancies with Job Type as On-wing only,							
2 / Allowed for Job Type Component Removal	Workscoping Comments from the Edit Package Additional Information page will be defaulted for tasks / discrepancies with Job Type Component Removal only,							
3 / Allowed for Job Type On-wing / Component Removal	Workscoping Comments from the Edit Package Additional Information page will be defaulted for tasks / discrepancies with Job Type Component Removal or On- wing,							

Further, the contents of the Work Requested field of the Component Replacement tab in turn are also defaulted

in the **Route Unserviceable Components / Parts** to aid decisions for Shop Work Order or Repair Order generation.

Additionally, this enhancement introduces a new process parameter 'Print Work Requested in Removal Reason section?' defined under entity type 'Reports' and entity 'Part Tag Report' in the **Define Process Parameters** activity of **Common Master** that will decide upon the inclusion of the "Work Requested" details recorded against the CR # under the **Removal Reason** head in the **Part Tag report**..

Process parameter value	Impact in the Part Tag Report
1/Yes	The Work Requested details are displayed in the Removal Reason section.
0 / No	The Removal Reason section of the report shows blank

Further, two display-only fields **Comp. Replacement #** (shows latest CR #) and **Comp. Replacement Date** (shows Removal Date & Time of latest CR #) added in **Unserviceable Components/Parts** multiline in the **Route Unserviceable Components / Parts** screen.

Exhibit I. The Set Floress Falameters screen of Component Replacement tab in the Record Airie Details scree	Exhibit [•]	1 : The	Set Process	Parameters	screen of	Compor	nent Replac	ement tab	in the	Record /	AME Deta	ils scree
---	----------------------	----------------	-------------	------------	-----------	--------	-------------	-----------	--------	----------	----------	-----------

*	Set Process Parameters					RamcoRole - RAMC	xo ou 🕫 🛱 📢 📢	- ? 🗔
- En	tity Details							
	Entity Type	Package Type	▼		Entity	All Packages	•	
	Record Status	Active		Proces	s Parameters Defined?	Yes		
- Pr	ocess Parameter List							
		s)				II AI	v	Q
#	Process Parameter		Permitted Values		Value	Status	Error Message	
1	Allow generation of part tag before confirmation of compo	nent replacement?	Enter "0" for 'No' , "1" for 'Yes'		1	Defined		
2	Allow Issue of Serviceable parts having Over-Due / Retiren	nent Tasks?	Enter "0" for "Not Allowed" , "1" for "Allowed"		0	Defined		
3	Allow modification of authorized time sheets		Enter "0" for 'No' , "1" for 'Yes'		0	Defined		
4	Allow reuse of Log Ref # across Aircrafts?		Enter "0" for 'No', "1" for 'Yes'		1	Defined		
5	Allow status change of discrepancies from more than one p	ackage?	Enter "0" for 'No', "1" for 'Yes'		1	Defined		
6	Allow status change of discrepancies which are already as	igned to a package?	Enter "0" for 'No', "1" for 'Yes'		0	Defined		
7	Default Actual Hours as Task Est. Elapsed Time during Res	ource Actuals update?	Enter "0" for 'No' , "1" for 'Yes'		0	Defined		
8	Default Assignment by		Enter "0" for 'Tasks' , "1" for 'Skill' , "2" for 'Work Area' , '	'3" for 'Zone' , "4" for 'ATA #'	0	Defined		
9	Default Context Date?		Enter "0" for 'Not Required' , "1" for 'Required'		1	Defined		
10	Default Filter Criteria in the Task Details tab of Edit Package	e Additional Information	Enter "0" for 'Workscoping Items' , "1" for 'Additional Ite	ms' , "2" for 'Detailed Items'	2	Defined		
11	Default Home Base?		Enter "0" for'Not Required', "1" for 'Aircraft Base', "2" for	r 'Employee Base'	0	Defined		
12	Default last worked Exe. Doc. for the login user in Work Re	porting Hub?	Enter "0" for 'No',		0	Defined		
13	Default Mode on Page Launch for Work Reporting Hub?		Enter "0" for "Create", "1" for "Work"		1	Defined		
14	Display Work scoping comments in Work requested field?		Enter '0' for 'Not Allowed', '1' for 'Allowed for Job type-	On wing', '2' for 'Allowed for	0	Defined		
15	Include alternate parts and stock statuses for display of A	vailable <u>Qty?</u>	Sater "0" for 'No', "1" for 'Yes'		1	Defined		
16	Number of remaining days to be considered to mark an item	n as an i			3	Defined		
17	Planning Horizon (Days).	New pr	rocess parameter		150	Defined		
18	Re-Sequence Multiplication Factor		Enter a integer between 1 to 99999		5	Defined		
19	Restrict display of Package and Unprocessed Discrepancies	in AME Tree based on	Enter "0" for 'Not Required' , "1" for 'Required'		0	Defined		
20	Task status change on Material Issue confirmation?		Enter "0" for 'Not Required', "1" for 'Required'		1	Defined		
21	Validate Warehouse - User Mapping during creation of MR	from Plan Material screen?	Enter "0" for "Not Required" , "1" for "Required"		1	Defined		
22								
	<							>
-			Set Process Parameters					



Exhibit 2: The Component Replacement tab in the Record AME Details screen

Exhibit 3: The Route Unserviceable Components / Parts screen

🖈 🖹 Route Unserviceable Components / Parts RamcoRole - RAMCO OU 🗸 🚎 🛱 🔶 ? 🗔												
warehouse Details			Date Format mm/dd/yyyy									
	7 # 411	_	Washawa Daasid									
0/5 Kolung Wri # ALL V	Zone # ALL	v	warehouse beschp	uon								
- Search Criteria												
Part #	Part Description		Work Cente	er #								
SOS Disposition	Display Options	•	Object T	уре 🔻								
Prime Part #	Primary Model #		Part Classifical	tion								
Possession Status	Ownership	v	Receipt Date: From	/To 🛗								
	Search											
Unserviceable Components / Parts												
(i i 1 - 10 / 1000) → + □ T T _x			e 🗏 🖶 💷 🗛	-	Q							
# 🗉 Work Requested Exch. Contract?	Receipt Date Receipt #	SOS Disposition	Under Warranty ?	Pend. Return Qty Core	,							
1 0	3/9/2017 RP-000141-0016		No									
2	5/24/2017 GI-010952-2017		No									
3	9/2017 UPRCT-000001-201	7	No									
Image: The Work Requested column	24/2017 MRQ001820		No									
by default displays the Work	/13/2015 APO00314115		No									
6 B Deguested details from Decord	/17/2015 SMR-008024-2016		No									
Requested details from Record	4/2017 MRQ001804		NO Net Evoluted									
AME Details.	/17/2016 ROR-000278-2016		Not Evaluated									
10	8/12/2016 MIS-009026-2017		Not Evaluated									
<					>							
Curt Order Dataile												
Customer PO #	Repair Process Code	•	Customer Prio	rity	T							
Evaluate / Get Contract												
Internal Repair	Ext	ernal Repair		Move Parts								
Create Repair Order	View Pending Transfer Issues		View Part- Serial #/ Lot # transaction h	istory								

Exhibit 4: The Set Process Parameters screen for Part Tag report

★ 🗎 Set Process Parameters							Ra	mcoRole	e - RAMCO OU	74 E	÷	?	[]
Entity Details													_
E	ntity Type Reports		Ŧ				Entity P	art Tag R	Report				
Reco	ord Status Active				Proce	ess Paramete	rs Defined? Ye	s					
Process Parameter List													_
≪ < 1 -1/1 > > + 0 © T T	C.					図画型	# # W	All					Q
# Process Parameter		Permitted Values		Value		Status			Error Message				
1 Print Work Requested in Removal Reason section	on?	Enter '0' for 'No', '1' for 'Yes'		1		Defined							
2													
	New proce	ss parameter											
<												>	
			Set Process Para	meters									

Exhibit 5: The Part Tag report screen

	A 1 Parent Company Name 64 Sardar Patel Road, Taramani Road,next to tidel park and opp, next to tidel park stop., Chennai tamil nadu, Tamil Nadu India 600028, India, 600 113 PART ID TAG ##										
Unse		EVENT#									
COMPONE		TSI/CSI									
C005632-2		Not Avib. / Not Avib.									
PART#	SERIAL#/	MFR. SERIAL		PART	DESCRI	PTION		OBJECT TYPE			
CFM56-2-7200:35895	tt-00	1 / tt-001		CFMS	6-2C1 EN	IGINE		Component			
LOT # / MFR. LOT	QTY.	REF. DO	C TYPE	REF	00.#		(CURRENT CONDITION			
	1	A/C Maint. I	/C Maint. Exe. Ref # 789900;			TOP ASSLT. SWO #		Unserviceable			
· · · · · ·		REMOVAL D	REMOVAL DETAILS					EMOVAL DATE & TIME			
COMP. REPLACE	# RE	MOVED BY	BY REMOVAL TYPE REMOVAL CONDITION					4/3/2017 17:52:21			
					Unantinable			STATION			
REPL-010032-201	7	00041383	Unscheduled		Unserviceable			YUL			
AIRCRAFT #	A/C 1 700.	TOTAL FH / FC	NHA P	ART#	N	HA SERIAL #		POSITION CODE ENG-01			
STOCK STATUS	S	OPPLIER	CERTIF	ICATE #	RE	PAIR ORDER # /		EXPIRY DATE			
Accepted					EWO	0-001020-2017					
		REMOVAL	REASON				5	GIGNATURE & LIC/APP.			
Reason for Removal Description: Unschedule Removal Remark :Removal of Engine Task Desc: Removal & Restoration of Engine Task # : 7200-0015434											
Removal Reason the Work Reques	Removal Reason section displays UNSCHEDULED-Removal of Engine the Work Requested details UNSCHEDULED-Removal of Engine										
					Generate	ed On : 07/26/20	17 11:	:04:42			

WHAT'S NEW IN QUALITY AUDIT

Ability to track the changes done to Action By Date in Quality Audit Report

Reference: AHBG-21973

Background

As part of recording **Quality Audit** findings, the auditors record Non-Conformities (NC) and recommend actions to be implemented on or before specific date called **Action By Date**. The auditors also have the ability to review audit reports and change the action to be executed in order to the resolve NC # by **Action By Date**. In turn, the auditees have the ability to change **Action By Date** for the action against the NC #. Hence, a provision to view the history of changes made to **Action By Date** vis-à-vis an action is necessary for users to track and ensure the closure of NCR#.

Change Details

To enable users to view the history of changes in **Action By Date**, the following changes have been incorporated in the **View Non Conformance Resolution History** screen of **Quality Audit** include:

- The NCR # field which was hitherto a display field has now been converted into a drop-down list box. The drop-down list box lists all the all NCR # for Audit Report #. The user can select specific NCR # to record details of correction action.
- New display field **Action By Date** has been added in the **NC Resolution History** multiline to record the date by which the corrective action must be implemented on NCR #.
- The Action Date field display has been removed from the multiline.
- New display field **Modified Date & Time** has been added in the **NC Resolution History** multiline that displays the date on and time at **Action By Date** was updated for the action.
- Two display fields NCR # and NC Description has been added in the NC Resolution History multiline to provide details of NCR being actioned.

Exhibit 1: The View Non Conformance Resolution History screen

★ 🗎 View Non Conformance Resolut	tion History					≍ 륨 덛 ← ?		
- NCP Details				Date Format	dd/mmm/yyyy	hh:mm:ss		
NCR # Al	•	NC Desc	iption					
Audit Report # AR-000005-	-2017	Report	Type Adhoc		Audit Status Pe	ending Action		
Audt Schedule # Audt Type Work center Audt T								
NC Resolution History								
ϵ ϵ 1 -1/1 → →→ Υ Υ _κ			_	YFAXCE.	🗏 III AI	•	Q	
# NCR # NC Description Actio	on NC Status	NC User Status Action By Date	Action By	Extension by (No. of Days)	Comments	Modified Date & Time		
1 🗆 1 NS-01 Pend	ding Action Pending	12/Feb/2017	dsenechal		0	27/Mar/2017 10:47:07		
<							>	

WHAT'S NEW IN ePUBS?

Ability to generate Work Actuals Report in AME and SWO

Reference: AHFG-8427

Background

During maintenance execution, details of task sign-off, parts consumed, parts removed and installed and parameter reading etc. are recorded in the system by aircraft maintenance engineers. This information, if made available in the form of Work Actual Report could be used for enhancing internal quality and also for meeting regulatory requirement.

Change Details

Both, Aircraft Maintenance Execution and Shop Work Order have been enhanced to generate / view Work Actuals Report from various screens as illustrated by the following exhibits.

earch Criteri	ria					Date Format d	d/mm/yyyy	
	Aircroft Page #		War	k Cantas #		Evention Ref. #		
	Andrait Reg. #		Wo			Execution Rel. #	of The Completed	
	Log #		100	mey Log #		Exec. Status Exe. N	-f - Completed	
Cust	tomer # / Name			search on	•	Estimation Status	en. •	(e)
Cu	ustomer Order #		Addi.	Search On		Date From / To	•	
and Recul	la.			Fetch				
earch Kesun								
(1 - 1	10 / 65 🕨 👐	Υ T _x			۲. ۲.			۶ (×
Execut	ution Ref. #	Package Description	Exe. Ref. Status	Estimation Status	Hold Status	Aircraft Reg. #	Aircraft Model #	Package Type
VP-00	00409-2017		Completed	Not Required		HKP16	S-70	Planned
VP-00	00374-2017	25H Lubrication	Completed	Not Required	On Hold	OH-HVJ	B412	Planned
VP-00	00128-2017	HPK 2017-01-27 HOUR (50H INSPECTIONS)	Completed	Not Required		se-hpk	B206	Planned
VP-00	00206-2017	HPK 2017-03-27 1500H, 600H and 12M	Completed	Not Required		SE-HPK	B206	Planned
VP-00	00323-2017	HPK 2017-06-01 Calendar (1M)-WO#12	Completed	Not Required		SE-HPK	B206	Planned
VP-00	00330-2017	HPK 2017-06-01 Hour (50H), WO #13	Completed	Not Required		SE-HPK	B206	Planned
C VP-00	00405-2017	HPK 2017-11-24 Calendar (1M)-WO#21	Completed	Not Required		SE-HPK	B206	Planned
C VP-00	00471-2018		Completed	Not Required		SE-HPK	B206	Planned
C VP-00	00279-2017	Hangar 2017-05-11 PDX100156	Completed	Not Required		SE-JPR	B429	Planned
LP-000	0218-2017	JPR 2017-10-30 14D Cleaning&Corrosion-	Completed	Not Required		SE-JPR	B429 Launch th	ne View Joh
4								on
							LUY SCIER	511
Documents			View Associated Doc.	Attachments		Review Exceptions		
erate Work S	Summary Report(s) Conorato roport	for					View Job

Exhibit 1: Generate report from the View A/C Maint. Exe. Ref #activity of Flight Log

Exhibit 2: Generate Work Actuals report in the Review Work Execution page of Shop Work Order

★ 🗻 Review Work E	xecution									그: 룸	₽ +	? 🗔 🖪
Search Criteria												
Part # / Se	erial #		Work Center #		T			SWO #		r		
Compor	ent #		Job Type		Ŧ		Exe	c. Status Order	T Comp	leted	Ŧ	
Customer # / Cust. Or	der #		Search On		•	Ŧ	Estimatio	on Status Order	🕳 Com	oleted		
Customer	Name		Addl. Search On		Ŧ		Date: F	rom / To Planne	ed Date	r		
Display Option												
Top Assly. Work Orders O All	Work Orders											
_				Searc	h							
Search Results												
44 4 1 - 10 / 28 ▶ 1	• – T T.					人口		# # III	All	•		Q
# 🖾 SWO #	SWO Desc.	Component #	Primary W/C #	Part #	Mfr. Part #	Mfr.#	Serial #	Lot #	Quantity	Facility #		Facility Obje
1 🔲 SWO-000115-2017	Landing and search	ID-G-000936-2017	ARN ELECTRICAL	G6250-5			6940		1.00			
2 🖾 SWO-000116-2017	Landing and search	ID-G-000937-2017	ARN ELECTRICAL	G6250-5			68706		1.00			
3 🖾 SWO-000126-2017	VP-000097-2017		ARN SHEET METAL	BHP2611222				LN-G-011540-	1.00			
4 🖾 SWO-000162-2017	Repair	ID-G-001085-2017	ARN COMPONENT	350A37-			M1045		1.00			
5 SWO-000191-2017	Transport of I-FREL		ARN BASE						1.00			
6 🖾 SWO-000195-2017	Make		ARN SHEET METAL	L533M11192				LN-G-012652-	1.00			
7 SWO-000197-2017	A-profile, RH, P/N		ARN SHEET METAL	L533M10173				LN-G-012718-	1.00			
8 Companyla ru	an ant fan		ARN BASE	429-069-					1.00		_	-
9 Generate re	eport for	-G-000491-2016	ARN PAINT	206-031-			BCJN08239		Li	aunch Vier	w job	Log
¹⁰ offline view		0-G-002142-2017	ARN COMPONENT	350A32-			M4416		S	reen	1 L	Ŭ
									50			
Review Part Readines		Review Wo	rk Hold	P	rint Part Tag			Manage P	art Serial M <mark>OD Deta</mark>	lis		
Generate Work Summary Rep	ort(s)											View Job Log
L												

Exhibit 3: Search package with work actuals

Work Package Publishe	r								
Search for Work Pack	kage							📌 Pin	ned Packages 🔻
Package Source All	¥	Request By		A/C Model #	Q	Package	Type All		v
Package Name SWC	0-000447-2017	Package Description		Request From Date		Request To	Date		
Aircraft Reg #		Work Center #	Q	Print Job Status	All 🔻				
				Search					
Work Package List Package Name SW0-000447-2017	Package Type Shop Work Order	Aircraft Reg#	Dess Repl 94-1 016-	cription ace bearing on T/R Blade P/N-2 51.Partnumber change after bea 201-127M	06-016-201-127 i.a.w. TB 206- ring is replaced to P/N-206-	Indicate report is actuals	s whether with work or not		6 Print Jobs 🔺
Print Job #	Request Date		Print Job Status	Reque	sted By	With Actuals			
<u>6</u>	2/12/2018 5:37:56 AM		Succeeded	RAMC	DUSER	Yes	B	(iii)	S
<u>5</u>	2/9/2018 10:11:56 AM		Succeeded	RAMO	DUSER	Yes	B	(iii)	8
4	2/8/2018 6:28:21 AM		Requested	RAMC	DUSER	No	B	(iii)	8
<u>3</u>	1/18/2018 3:31:09 PM		Requested	RAMC	DUSER	No	B	(iii)	S
<u>2</u>	1/18/2018 3:15:28 PM		Requested	RAMO	DUSER	No	B	(iii)	S
1	1/18/2018 12:02:21 PM		Requested	RAMC	DUSER	No		(iii)	S



Exhibit 4: Include section in view package

Work Package Publisher		
View Package		📇 Print Log 📌 Pinned Packages 💌
Package Type Shop Work Order	Package Name SW0-000447-2017 🚫	Print Job # 6
A/C Model#	A/C Reg#	Work Actuals Yes
Part # 206-016-201-127	Serial # CS2124	Component # ID-G-002390-2017
Work Center ARN COMPONENT	Start Date 12/07/2017	End Date 12/13/2017
Package Description Replace bearing on T/R Blade P/N	l:206-016-201-127 i.a.w. TB 206-94-151.Partnumber change after bearing is replaced to P/N:206-016-201-1	27M
Task Card Details		Search:
□ Tally# Tracking# ↓L Seq# ↓↑ Task#) Description	Revision ATA# IT Source Doc Type
Showing 1 to 1 of 1 error	>201-127 T/R BLADES REPAIR	64-10 Other
Include Section	Tally Sheet	
✓ Task execution details		
Discrepancy details Attachment	Part removal/installation details Material request details Parame	eter reading details 🛞 Participants Summary details
	Print Package View PDF	

Exhibit 5: The Job Log screen

Work	Packag	e Publisher									
Print L	og										
	Pa	ackage Type A/C Mai	nt. Exe. Ref. #			Package Nam	e LP-000305-2018				
		A/C Model# B429				A/C Reg	# HANGAR				
		Part # NA				Serial	# NA		с	omponent # NA	
		Work Center ARN LIN	NE			Start Da	02/09/2018			End Date 02/09/2018	
	Packag	e Description Search	Light Inspection	Report	generate	ed in offline ailable for view					
Print D	etails										
	#	Print Job #	Package PDF		work Actuals	Request Date	Requested By	Print Job Status	Message	Print Location	Cancelled By
	0	1	LP-000305-2018_1		Yes	2/12/2018 12:01:57 PM	RAMCOUSER	Succeeded	Copy PDF to reposit	tory - Success.	
						Ne	w Printer Location				

Exhibit 6: Work actuals report (AME Packages - Cover sheet)

C		w	ork Report	24-Apr-2017	Page: 1 of 28
Ľ	Airways≡	 "		VP-00020	6-2017
			Work Summary		
A/C Mod	el	A/C Reg. #	A/C Serial #	AC TT	/ TC
8206		SE-HPK	1091	0.00 (H	rs.)/0
Custome	er PO #	Customer	Our Reference #	Work Center	
SE-HPK	2017-03-27	137000	CO-000346-2017	ARN B	ASE
		Wo	rk Report Content		
Seq.#	Description		Pages		
1.	Work Summary				
	Task Details		1		
-					
1	Discrepancy Details	•			
1	Discrepancy Details Part Removal / Inst	allation Details			
3.	Discrepancy Details Part Removal / Inst Parameter Reading	allation Details Details			
2 3 4 5 6	Discrepancy Details Part Removal / Inst Parameter Reading Summary of Particle	s allation Details Details pating Personnel			
2. 3. 4. 5. 6. 7.	Discrepancy Details Part Removal / Inst Parameter Reading Summary of Particle CRS - Certificate of	s allation Details Details pating Personnel Release to Service			

Work Actuals report is printed with the following key information

- Aircraft work package
 summary details
- Work report content

Exhibit 7: Work actuals report (Shop Packages - Cover sheet)

C ^B Airways	Work R	eport	07-Dec-20	017 Page: 1 of 3 000447-2017
	Work S	ummary		
Component Name	Component Part #	Component Serial #	Q	ty
ID-G-002390-2017	206-016-201-127	CS2124		
Component TSN	Component TSO	A/C Model	Su	ubject
			R	EPAIR
Connected VP #	Customer	Customer Order #	Cu	ustomer PO #
SWO-000447-2017		CO-000982-2017	Re	ek 1086
Work Center	Certificate Type	Certificate No		
ARN COMPONENT	EASA-FAA	DD1234		
Order description		Work Requested		
Replace bearing on T/R Blade P/N: 151.Partnumber change after bearin 127M	206-016-201-127 i.a.w. TB 206-94- ig is replaced to P/N:206-016-201-	Replace bearing on T/R Blac 151. Partnumber change afte 127M	de P/N:206- er bearing is	-016-201-127 i.a.w. TB 206-94- is replaced to P/N:206-016-201-

	Work Repo	ort Content
Seq. #	Description	Pages
1.	Work Summary	
2.	Task Details	
3.	Discrepancy Details	
4.	Part Removal / Installation Details	
5.	Parameter Reading Details	
6.	Summary of Participating Personnel	
7.	CRS - Certificate of Release to Service	
8.	Attached Documents	

Work Actuals report is printed with the following key information

- Shop work package summary details
- Work report content

Exhibit 8: Task Card and Discrepancy Details

	A 10/or	k Domont	31-Aug-2017	Page: 2 of 3	
G		к кероп	VP-000377-2017		
	Ta	ask Details			
Seq. #	Task Details	Sign-Off Comments	Mechanic	Inspector / RII	
261	Replace drive link assy P/N 412-010-405-111FM, S/N . 1798, due to overhaul. NST-000215-2017 Replace drive link assy P/N 412-010-405-111FM, S/N A- due to overhaul. -	 Drive link assy P/N 412-010 405-111FM, S/N A-1798 removed and drive link assy P/N 412-010-405-111, S/N A-4442 installed IAW T.O. 11798, rev. 3 - 18 NOV 2009. 	-		
	Replace drive link assy P/N 412-010-405-111FM, S/N A- due to overhaul. -	1798,	Signed off 09209 06-Dec-2017	Signed off 09209 06-Dec-2017	

Task details with sign off comments and sign off details

Exhibit 9: Work Actuals report (Discrepancy Details)

	Discrepancy Details							
Seq. #	Discrepancy Details	Corrective Action	Mechanic	Inspector / RII				
1	TRANSCEIVER - RADIO ALTIMETER							
	34-42-33-000-001							
	AMM Rev. 36 Dt. 06-Apr-2017							
	Crack in PIC seat observed	To be replaced						
	CDP-000243-2018							
	Replace intermediate gearbox assy P/N 412-540-007-117, S/N 4435, due to 2500 brs inspection		Signed off	Signed off				
	CDP-000244-2018		00041383	00041383				
			01-Feb-2018	01-Feb-2018				

Discrepancy details with corrective actions and sign off details

Exhibit 10: Work Actuals report (Component Replacement Details)

Seq. #	Removal Details	Installation Details	Mechanic	Inspector / RII
1	Replace drive link assy P/N 412-010-405-111FM, S/N A- 1798, due to overhaul.			
	NST-000215-2017			
	-			
	PN: 412-010-405-111FM SN: A-1798	PN: 412-010-405-111		
	DRIVE LINK	SN: A-4442		
	NCR-000754-2017	DRIVE LINK		
	UNSER			

List of parts attached and removed

Exhibit 11: Work Actuals report (Parameter Reading Details)

Parameter Reading Details						
Task #	Sub Task	Parameter	Value / Eval. Response	Perf. By		
		Parameter Description	Remarks			
1-50C-2000- CMM-00005049	Task 2 Subtask	Val3	901	Van		
Repair	1 description	Torque	Torque Check	12-Jan-2017		
	Task 2 Subtask	Val4	712	Loreal		
	2 description	Wind	Wind Check	12-Jul-2017		

Parameter reading details recorded against Tasks are listed here along with the person, who recorded the values

Exhibit 12: Work Actuals report (Personnel Details)

Summary of Participating Personnel						
Seq. #	Name	ID	Skill			
1	James	00001	Mechanic			
2	Clarke	00002	Mechanic			
3	Robin	00003	Inspector			

List of personnel, who participated in executing the given package are listed here.

Ability to print Discrepancies in new template

Reference: APLI-291

Background

As part of package printing, the routine tasks and discrepancies are printed in same format. There is a need to print discrepancies in a new format, with more discrepancy related information. This new feature differentiates discrepancies from routine tasks and facilitates to optionally configure a different template to print discrepancies in a given package.

Change Details

Discrepancies are printed in new format with the following info:

- Originating work order, station and date
- Blocks to record part removal & installation, sign-off and other needed info
- Corrective actions history

Exhibit 1: Printing discrepancies in new template

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Exhibit 2: Printing Corrective Action History

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