



## Version 5.7.6

**Enhancement Notification** 

Maintenance

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Background.	
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## WHAT'S NEW IN TECHNICAL RECORD?

#### Ability to Manage Task Compliance Information in Technical Records Hub

Reference: AHBF-12026

#### Background

This enhancement brings the ability for the Technical Record personnel to manage task compliance information from the **Compliance** tab in **Manage Aircraft / Component Records** screen of **Technical Records** business component.

#### Change Details

A new tab to manage compliance of the tasks for an Aircraft / Component is added in the **Manage Aircraft / Component Records** screen. The screen can be used for 3 different functions for the managing task compliance for an entity:

- 1. Record
- 2. Correction and Deletion
- 3. View

The usage of the above function is controlled using the security access rights. The **Compliance** tab combines the features of 'Work Compliance' in **Initialize Maint. Prog. & Update Compliance** and that of **Track Maintenance Compliance History** screens.

#### **Compliance Tab Features:**

Following features are supported in **Compliance** tab in **Technical Records** Hub:

- Record Manual Task Compliance for the program tasks
- > Record direct task compliance for the aircraft or component
- > Compliance Correction and Deletion for already complied tasks
- > Activity Based Access Rights for different functions
- > Dynamic Search

Exhibit 1: Record Mode in Compliance tab

★ 📗 Manage Aircraft / Compone	nt Records				m >	4 ā ₽ ← ? □ ■
🖲 Manage 🔘 View						^
Will Retrieve the Program Task which are due along with 'As Required' tasks	Aircraft Reg # Ø MH370 Aircraft Model # B777-333ER Configuration Program Comple Immiliance @ Record © Correction	ance n & Deletion           View	I # MH370 p	Rem	g. Item Type h Value Type	Advanced Search
Task Description	1 - 10 / 50 + ++	=			All	▼ D
Eng. Doc #	# 🖾 Part # 🔎	Serial # 🔎	Task # 🔎	Current Value	Rem. Value	Schedule
Eng. Doc Type	1 🗆		3-B74-00-MPD-15238		-557D	04-06-20
MCR#	2		3-B74-00-MPD-15239			
	3 🗖		3-B74-00-MPD-15240			
ATA#	• 🗉		3-B74-00-MPD-15241			
	5		3-B74-00-MPD-15242			
	6		3-B74-00-MPD-15243			
	7		3-B74-00-MPD-15244			
	8		3-874-00-MPD-15245			
	9		3-874-00-MPD-15246 3-874-00-MPD-15247			
			3-0/7-00-PIPD-1524/			
	<					>

The 'Record' option under **Compliance** tab will retrieve only the Program Tasks which are due and also the Program Task with 'Prog. Item Type' set as 'As Required' for the searched Maintenance Object or for the entity selected in the Configuration Tree (if Configuration tree click was performed).

On providing the search criteria and clicking 'Search' the system will display the searched task. On click of the Advanced Search link, the system will launch pop-up where various search criteria can be entered on which the task need to be filtered in the multiline.

- For Task compliance provide the Actual Compliance Date & Time and Execution Ref # and Execution Comments to record the compliance.
- Note: The complied task should be effective for the entity against which it is complied. The user should have access to the 'Initialize Maint. Prog. & Update Compliance' screen to be able to perform 'Record' function.

Manage Aircraft / Component Manage O View	Records				100	⇒ 4 ? ⊡
Will Retrieve only Last Complied Entries	Aircraft Reg # Ø MH370 Aircraft Model # 8777-333ER		370 Aircr	aft Stabas Active	Ownership Owned	
NO ATA Piece Parts	Search	rection & Deletion  © View Compliance Date : From / To	<b>a</b>	Advanced Search		
Task#				Al	Ŧ	Q
	Task #	Task Description	Task Rev #	ATA #	Job Type	Param
Task Description	123/DIS01	testing 123		00-00	Aircraft	
Eng Doc #	2 3-874-00-MPD-15238	Flap actuator inspection		00-00	Aircraft	Calenc
EIIU. DUC#						
Eng. Doc #	3 🗇 3-874-00-MPD-15239	Flap actuator inspection		00-00	Aircraft	Calenc
Eng. Doc Type	3 🛛 3-874-00-MPD-15239 4 🖾 3-874-00-MPD-15239	Flap actuator inspection Flap actuator inspection		00-00	Aircraft Aircraft	Calenc
Eng. Doc Type						
Eng. Doc Type MCR#	4 3-874-00-MPD-15249 5 8 AM7707 6 8 AM7707	Hap actuator inspection		00-00	Aircraft	Calenc
Eng. Doc Type MCR#	4 0 3-874-00-MPD-15249 5 0 AM7707	Hap actuator inspection Rap removal		00-00 00-00	Aircraft Aircraft	Calenc Calenc
Eng. Doc Type MCR#	4 3-874-00-MPD-15249 5 8 AM7707 6 8 AM7707	Hap actuator inspection Rap removal		00-00 00-00	Aircraft Aircraft	Calenc Calenc

Exhibit 2: Correction & Deletion Mode in Compliance tab

The 'Correction & Deletion' option under Compliance tab will retrieve only the Last Complied Entries of the searched Maintenance Object or for the entity selected in the Configuration Tree (if Configuration tree click was performed).

- If the task is tracked by multiple schedules then multiple entries for the task will be retrieved in the multiline with the latest compliance date and value.
- The records can be selected in the multiline and correction / deletion of compliance entries of the tasks can be performed.
- The last compliance date and compliance value can be corrected by providing the New Compliance Date and Time, New Compliance Value, New Execution Doc # and Correction Remarks for the respective task and its corresponding parameter.
- > The compliance entries can be corrected for only one entity at a time.
- Note: Verify or Audit of the complied tasks cannot be done from the Compliance Tab. The user should have access to the Track
   Maintenance Compliance History screen to be able to perform 'Correction & Deletion' function.

Exhibit 3: View Mode in Compliance tab

Manage Aircraft / Comp	onent Rec	ords				티 겨 룬 두	⁺ ← ? 🗔
Manage O View							
Aircraft	T	Aircraft Reg # 🔎 MH370		L>		*	E 8 🌣
Aircraft Reg # MH370		Aircraft Model # B777-333ER	Mfr. Serial # MH37	70	Will Retrieve All	Ownership Owner	ł
	Con	figuration Program Comp					
MH370    B777-333ER	Comp	pliance O Record O Correcti	ian & Delation		Compliance History		
NO ATA		Contector	UII & Deleboli		entries		
Piece Parts							
ricce raits	Searc	ch	Compliance Date : From / To		Advanced Search		
	ocure		complance bate i from / ro				
Taal.//		$\square$					
Task#		1 -10/12	=		Al	•	Q
Task Description		Task #	Task Description	Task Rev #	ATA #	Job Type	Param
Eng. Doc #		123/DIS01	testing 123		00-00	Aircraft	, 0,0,0
LIN, DUC $\pi$			cesung 125		00-00	Aircrait	
	2	3-874-00-MPD-15238	Flan actuator inspection		00-00	Aircraft	Calenc
Eng. Doc Type	2	<ul> <li>3-B74-00-MPD-15238</li> <li>3-B74-00-MPD-15238</li> </ul>	Flap actuator inspection Flap actuator inspection		00-00	Aircraft Aircraft	Calenc
Eng. Doc Type MCR#			Flap actuator inspection Flap actuator inspection Flap actuator inspection		00-00 00-00 00-00	Aircraft Aircraft Aircraft	Calenc Calenc Calenc
	3	3-B74-00-MPD-15238	Flap actuator inspection		00-00	Aircraft	Calenc
Eng. Doc Type MCR#	3 4	<ul> <li>3-874-00-MPD-15238</li> <li>3-874-00-MPD-15238</li> </ul>	Flap actuator inspection Flap actuator inspection		00-00 00-00	Aircraft Aircraft	Calenc
Eng. Doc Type MCR#	3 4 5	3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15238	Flap actuator inspection Flap actuator inspection Flap actuator inspection		00-00 00-00 00-00	Aircraft Aircraft Aircraft	Calenc Calenc Calenc
Eng. Doc Type MCR#	3 4 5 6	3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15239	Flap actuator inspection         Flap actuator inspection         Flap actuator inspection         Flap actuator inspection		00-00 00-00 00-00 00-00	Aircraft Aircraft Aircraft Aircraft	Calenc Calenc Calenc Calenc
Eng. Doc Type MCR#	3 4 5 6 7	3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15239           3-874-00-MPD-15239	Flap actuator inspection Flap actuator inspection Flap actuator inspection Flap actuator inspection Flap actuator inspection		00-00 00-00 00-00 00-00 00-00	Aircraft Aircraft Aircraft Aircraft Aircraft	Calenc Calenc Calenc Calenc Calenc
Eng. Doc Type MCR#	3 4 5 6 7 8	3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15238           3-874-00-MPD-15239           3-874-00-MPD-15239           3-874-00-MPD-15239           3-874-00-MPD-15239	Flap actuator inspection Flap actuator inspection Flap actuator inspection Flap actuator inspection Flap actuator inspection Flap actuator inspection		00-00 00-00 00-00 00-00 00-00 00-00	Aircraft Aircraft Aircraft Aircraft Aircraft Aircraft	Calenc Calenc Calenc Calenc Calenc Calenc Calenc

The 'View' option under Compliance tab will retrieve All Compliance history entries of the searched Maintenance Object or for the entity selected in the Configuration Tree (if Configuration tree click was performed).

Exhibit 4: Dynamic Search in	Record Mode
------------------------------	-------------

Manage O View						
Aircraft 🛛 🔻			4			
Aircraft Reg # MH370	Aircraft Model # B777-333ER	Mfr. Seria	il # MH370 /	Aircraft Status Active	Ownership C	Owned
	Configuration Program Co	mpliance				
MH370    B777-333ER	Compliance    Record    Con	rrection & Deletion 🔘 View				
NO ATA						
Piece Parts						
	Search		Include Related Tasks	•	<b>↓</b>	Advanced Search
Dynamic Search	10/50					Include Child
Dynamic Search	44 4 1 - 10 / 50 b 1				All	Q
Dynamic Search	# 🖻 Part # 🔎	>> ≕ Serial # ₽	Task # P	Current Value	Rem. Value	_
Dvnamic Search	# 🖻 Part # 🔎		3-B74-00-MPD-15238	Current Value		Q
Dynamic Search	# Part # P 1 2		3-B74-00-MPD-15238 3-B74-00-MPD-15239	Current Value	Rem. Value	D Schedule
Dvnamic Search	# Part # P 1 2 3 2		3-874-00-MPD-15238 3-874-00-MPD-15239 3-874-00-MPD-15240	Current Value	Rem. Value	D Schedule
Dynamic Search	# Part # P 1 2 3 3 4 1		3-874-00-MPD-15238 3-874-00-MPD-15239 3-874-00-MPD-15240 3-874-00-MPD-15241	Current Value	Rem. Value	D Schedule
Dynamic Search	# Part # 0 1   2   3   5		3-874-00-MPD-15238 3-874-00-MPD-15239 3-874-00-MPD-15240 3-874-00-MPD-15241 3-874-00-MPD-15242	Current Value	Rem. Value	D Schedule
Dynamic Search	# Part # P 1 2 3 7 4 7 5 7 6 8		3-874-00-MPD-15238 3-874-00-MPD-15239 3-874-00-MPD-15240 3-874-00-MPD-15241 3-874-00-MPD-15242 3-874-00-MPD-15242	Current Value	Rem. Value	D Schedule
Dynamic Search	# Part # P 1 2 3 7 4 7 5 7 6 7 7		3-874-00-MPD-15238 3-874-00-MPD-15239 3-874-00-MPD-15249 3-874-00-MPD-15241 3-874-00-MPD-15242 3-874-00-MPD-15243 3-874-00-MPD-15243	Current Value	Rem. Value	D Schedule
Dvnamic Search	# Part # P 1 2 3 7 4 7 5 7 6 8		3-874-00-MPD-15238 3-874-00-MPD-15239 3-874-00-MPD-15240 3-874-00-MPD-15241 3-874-00-MPD-15242 3-874-00-MPD-15242	Current Value	Rem. Value	D Schedule
Dvnamic Search	#         Part # 0           1         1           2         1           3         1           4         1           5         1           6         1           7         1           8         1		3-874-00-MPD-15238 3-874-00-MPD-15239 3-874-00-MPD-15240 3-874-00-MPD-15241 3-874-00-MPD-15242 3-874-00-MPD-15243 3-874-00-MPD-15244 3-874-00-MPD-15245	Current Value	Rem. Value	D Schedule

For Record, the dynamic search will be based on follows:

- Primary Search for text input in the Search textbox
  - Task #
  - Task Description
  - > Eng. Doc #
  - > Eng. Doc Type
  - > MCR #
  - > ATA #
  - Primary Task #
  - > Primary Task Desc.
- Primary Search for values selected in drop-down
  - > Prog. Item Type
  - Rem Value
  - > Job Type
- Advanced Search is also available for the 'Record' function

Manage O View						
Aircraft	<ul> <li>Aircraft Reg # Ø MH370</li> </ul>		4		*	
Aircraft Reg # MH370	Aircraft Model # B777-333ER	Mfr. Serial # MH	370 Ai	ircraft Status Active	Ownership Owner	ł
	Configuration Program Comp	liance				
MH370    B777-333ER	Compliance Record O Correct	ion & Deletion 🔘 View				
NO ATA						
Piece Parts						
	Search	Compliance Date : From / To	iii iii	Advanced Search		
Dunamia Coarab					•	Q
Dynamic Search				A	<b>v</b>	
		Task Description	Task Rev #	All ATA #	Job Type	Param
Dynamic Search			Task Rev #			
Dynamic Search	# 🗖 Task #	Task Description	Task Rev #	ATA #	Job Type	
	# Task # 1 123/DIS01	Task Description testing 123	Task Rev #	<i>ATA #</i> 00-00	Job Type Aircraft	Param
DVIIdinic Sedicit	# Task # 1 123/DIS01 2 3-874-00-MPD-15238	Task Description testing 123 Flap actuator inspection	Task Rev #	<i>ATA #</i> 00-00 00-00	<i>Job Type</i> Aircraft Aircraft	Param
Dynamic Search	#         Task #           1         123/DIS01           2         3-874-00-MPD-15238           3         3-874-00-MPD-15239	Task Description testing 123 Flap actuator inspection Flap actuator inspection	Task Rev #	ATA # 00-00 00-00 00-00	<i>Job Type</i> Aircraft Aircraft Aircraft	Param Calenc Calenc
	#         7ask #           1         123/DIS01           2         3-874-00-MPD-15238           3         3-874-00-MPD-15239           4         3-874-00-MPD-15249	Task Description       testing 123       Flap actuator inspection       Flap actuator inspection       Flap actuator inspection	Task Rev #	<i>ATA ≠</i> 00-00 00-00 00-00 00-00	Job Type Aircraft Aircraft Aircraft Aircraft	Param Calenc Calenc Calenc
Dynamic Search	#         Task #           1         123/DIS01           2         3-874-00-MPD-15238           3         3-874-00-MPD-15239           4         3-874-00-MPD-15249           5         AM7707	Task Description       testing 123       Flap actuator inspection       Flap actuator inspection       Flap actuator inspection       Flap removal	Task Rev #	<i>ATA ≠</i> 00-00 00-00 00-00 00-00 00-00	Job Type Aircraft Aircraft Aircraft Aircraft Aircraft	Param Calenc Calenc Calenc Calenc
Dynamic Search	#         Task #           1         123/01501           2         3-874-00-MPD-15238           3         -3-874-00-MPD-15239           4         3-874-00-MPD-15249           5         - АМ7707           6         АМ7707	Task Description       testing 123       Flap actuator inspection       Flap actuator inspection       Flap actuator inspection       Flap removal	Task Rev #	<i>ATA ≠</i> 00-00 00-00 00-00 00-00 00-00	Job Type Aircraft Aircraft Aircraft Aircraft Aircraft	Param Calenc Calenc Calenc Calenc Calenc
	#         Task #           1         123/01501           2         3-874-00-MPD-15238           3         -3-874-00-MPD-15239           4         3-874-00-MPD-15249           5         - АМ7707           6         АМ7707	Task Description       testing 123       Flap actuator inspection       Flap actuator inspection       Flap actuator inspection       Flap removal	Task Rev #	<i>ATA ≠</i> 00-00 00-00 00-00 00-00 00-00	Job Type Aircraft Aircraft Aircraft Aircraft Aircraft	Param Calenc Calenc Calenc Calenc
	#         Task #           1         123/01501           2         3-874-00-MPD-15238           3         -3-874-00-MPD-15239           4         3-874-00-MPD-15249           5         - АМ7707           6         АМ7707	Task Description       testing 123       Flap actuator inspection       Flap actuator inspection       Flap actuator inspection       Flap removal	Task Rev #	<i>ATA ≠</i> 00-00 00-00 00-00 00-00 00-00	Job Type Aircraft Aircraft Aircraft Aircraft Aircraft	Param Calenc Calenc Calenc Calenc

Exhibit 5: Dynamic Search in Correction & Deletion / View mode

For Correction & Deletion and View, the dynamic search will be based on follows:

- Primary Search for text input in the Search textbox
  - > Task #
  - > Task Description
  - > Eng. Doc #
  - > Eng. Doc Type
  - > MCR #
  - > ATA #
  - Primary Task #
  - > Primary Task Desc.
- Primary Search for the dates selected
  - Compliance Date: From / To
- Advanced Search is also available for the 'Correction & Deletion' & 'View' function

#### Exhibit 6: Advance search for compliance

	Task Type			Task Desc		Task #
	ATA #	•		Applicability	•	Task Category
	Component #			Serial #		Part #
	Execution Doc. #	•		Job Type		Prog. Item Type
	Customer #	•		Source Doc Type		MCR #
	Eng. Schedule Type			Eng. Doc #	•	Eng. Doc Type
Include Related Task		11 III III III III III III III III III	<b></b>	Compl. Date: From / To		Rem. Value

'Advanced Search for Compliance' can be launched as a pop-up from the 'Search' section for all the Compliance functions – Record, Correction & Deletion and View. The search operation will be performed for the searched Maintenance Object.

- Note: If there was a tree click before the launch of the pop-up, the search operation will be performed for the entity selected in the Configuration Tree.
- This feature involves commercials and is not available for all customers.
  Please contact your Ramco Account Manager.

#### Ability to Mandate Amendment Type on Aircraft Program Revision

Reference: AHBF-15286

#### Background

This enhancement provides the ability to mandate Amendment Type on Aircraft Program Revision in **Manage Aircraft / Component Records screen** of **Technical Records** business component.

#### **Change Details**

A new set option 'Mandate Amendment Type on revision for Aircraft Specific Maintenance Program' is added in the Set Process Parameter screen under the Entity Type 'Tech Records Process Ctrl' under the Entity 'Manage Technical Records' in **Define Process Entities** activity of the **Common Master** business component. The following options can be set for the parameter:

- '0' for 'No'
- '1' for Yes'

A new Quick Code Type 'Amendment Type' is added to the **Quick Code Information** screen of **Aircraft Maintenance Program** business component. Quick codes for the Quick Code Type can be manually created.

Exhibit 1: New Quick Code Type 'Amendment Type' in Aircraft Maintenance Program

*	前	Quick Code Information		圖 23	 4	+	?	
	uick (	Quick Code Type A	Rendment Type 💗 New Quick Code Type					
44	+	1 -3/3 + + + -		ŧ.	¥.			Q
	10	Quick Code	Description					
1	0	ATI	Amendment Type 1					
2	15	AT2	Amendment Type 2					

Quick Code Type 'Amendment Type' is added to the Quick Code Information screen of Aircraft Maintenance Program business component. Quick codes for the Quick Code Type can be manually created.

Exhibit 2: Amendment Type in Manage Aircraft / Component Records

Manage Aircraft / Co	mponent Records						III 23		4	2 1	6 I
Ranage O View											
Arcraft	▼ Aarcraft Reg	# P VT-666		44				+	臣	00	*
Aircraft Reg # VT-666	Aircraft Hodel	# A310	Mfr. Serial # 98456875		Arcraft Stat	tos Active	Owners	hip Owned			
	Configuration Pro	oram Compliance									
VT-666    A310	Maint, Program #	▼ Program De	ec. Program	Status		Revision #					
00-00	Sub Fleet # SF 1	Sub Fleet De	H.					Associat	e		
00-00			Amendment T	ype							
20-00			Column								
32-10	COD Q Except	ions Al 10 Escalat	ted 3 me. o	over due	4	No Prog. 0	Fresh prog. 0		Error		
32-20							Include Inactive / Terminate	ed Tasks	EI 1	dude Chi	м
49-00	++ + 1 -10	/10 + ++ =				AJ			1	5	
49-00		Task # D	Amendment Type	Long Term ?	0.0	nest Kalue	Rem. Date / Value		Up		
72-00	100 C	and the second second second	and the second sec			rent valve				÷	
72-00	1 0	▼ 3-00-A3-33	[AT-1] ×		*		3000		Sche		
Piece Parts	2 10	✓ 3-00-A3-34		Not Applicable	*		2990		Actu		
Piece Parts	4 10			<ul> <li>Not Applicable</li> <li>Not Applicable</li> </ul>	ž		138220 -807D		Actu		

The Quick Codes created for 'Amendment Type' Quick code in 'Active' status in **Quick Code Information** screen of **Aircraft Maintenance Program** business component will be loaded in the 'Amendment Type' dropdown in the **Program** tab of **Manage Aircraft / Component Records** screen in **Technical Records** business component. Exhibit 3: New process parameter in Define Process Entities

					100	24 冊		+ ? 0	0
Entity Type Tech Records Process Ctr	6	*		Entity Manage Tec	hnical Records	×	*		
Record Status Active			Process P	arameters Defined? No					
			Now D	raaaco Doromotor					
Y X			New P	locess Parameter		÷		p	
	Permitted Values				status			Error Hes	
g the new Component	Enter '0' for Mandate I	1"1" for Non Mandatory			Defined				
e Program	Enter "0" for "No" , "1"	for "Yes"		1	Defined				
or Aircraft Specific Haintenance Program	Enter '0' for 'No" , '1'	for "Yes"		1	Defined				
r Creation to Active on Approval of Aircraft	Enter "0" for "No" , "1"	for "Yes"		6	Defined				
	Record Status Active T T. g the new Component e Program or Annualt Specific Haintenance Program	T T. Permitted Values githe new Component Enter "0" for Mandate I e Program Beber "0" for "16", "1" or Annufit Specific Maintenance Program Enter "0" for "No", "1"	Record Status: Active T T Permitted Values g the new Component Enter 10" for Nandate & "1" for Non Nandatory entrogram Enter 10" for "No", "1" for "Yes"	Peccent Status Active Process P T T. Active Pointer Volues g the new Component Enter "0" for Mandate & "1" for Non Mandatory e Program Enter "0" for "Mandate & "1" for "Non" or Annah Specific Mantenance Program Enter "0" for "No", "1" for "Yes"	Record Status Active Process Parameters Confeed? No.  T T.  Permitted Values gible new Component Exter "0" for Mandate & "1" for Non Handatory e Program Exter "0" for Yand", "1" for "Yes" 0	Entity Type Tech Recards Process Col	Entity Type Tech Records Process Col	Entity Type Tech Records Process Col	Record Status Active  Process Parameters Ceffeed  T T,  Permitter Values  Permitter Values Permitter Values Permitter Values Permitter Values Permitter Values Permitter Values Permitter Values

When the Process Parameter 'Mandate Amendment Type on Revision for Aircraft Specific Maintenance Program' is set as '0' ('No'), when the Aircraft Maintenance Program is revised from the **Program** tab of **Manage Aircraft / Component Records** screen, the system does not mandate the user to provide the Amendment Type.

When the Process Parameter 'Mandate Amendment Type on Revision for Aircraft Specific Maintenance Program' is set as '1' ('Yes') then if the Aircraft Maintenance Program is revised from the **Program** tab of **Manage Aircraft / Component Records** screen, the system mandates the user to select an Amendment Type. (i.e., Amendment Type should not be left blank).

Note: This feature involves commercials and is not available for all customers. Please contact your Ramco Account Manager.

# Ability to Manage Task Relationship Definition from Aircraft and Component Program (Program Tab)

Reference: AHBF-12726

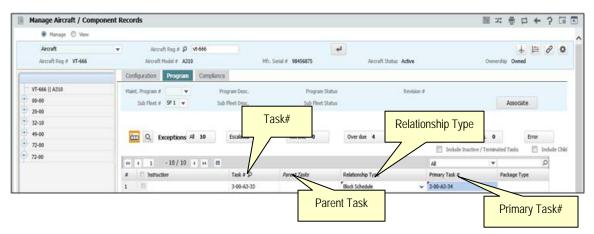
#### Background

This enhancement brings the ability to manage task relationship definition for Aircraft and Component Programs from **Program** tab in **Manage Aircraft / Component Records** screen of **Technical Records** business component.

#### **Change Details**

Task Relationship definition for Aircraft and Component programs can now be managed under the **Program** tab with the help of dedicated columns for updating Relationship Type and Parent task.

#### Exhibit 1: Task Relationship definition in Tech Records hub



In the **Program** tab, user can quickly set up the task relationship information by entering the following information: Task #, Relationship Type and Parent Task #.

Parent Task will be displayed if the Relationship Type is set as "Block Schedule".

Note: The Relationship Types available are as follows:

- Planning Block Schedule
- > Post Compliance Initiate Schedule

Terminate Schedule

Supersede

Relationship can be set for Aircraft and Components.

This feature involves commercials and is not available for all customers. Please contact your Ramco Account Manager.

#### **Enhancement in Component Replacement**

Reference: AHBF-11739

#### Background

Ability to automatically update the Position Part # as the installed Part if the installed Part # is one way interchangeable with the Position Part #.

#### **Change Details**

A new Process Parameter 'Update Position Part # as installed Part # if the installed Part # is one way interchangeable with the Position Part #?' is introduced under the Entity Type 'Tech Records Process Ctrl' and Entity 'Configuration' with the following permitted values:

- '0' for 'No'
- '1' for 'Yes'

Default value of Process Parameter is '0'.

#### Exhibit 1:

* 🔋 Set Process Parameters			国名曲口个心	?
Entity Details				
Entity Type Tech Records Process Obl	w	Entity Configuration	w	
Record Status Active		New Process Parameter		
Process Parameter List		New Flocess Falameter		
« « 1 ·1/1 » » * 0 Q T T			Ψ	Q
# Process Parameter	Permitted Values	Status	Error Message	
1 Update Position Part # as installed Part # if the installed Part # is one way interchangeable with the Position Part #?	Enter "0" for 'No', "1" for 'Yes'	0 Defined		

If the Process Parameter 'Update Position Part # as installed Part # if the installed Part # is one way interchangeable with the Position Part #?' is set as '0', then on successful component attachment, even if the Installed Part # is one way interchangeable with the Position Part #, the Position Part # will not be updated with the Installed Part #.

Exhibit 2:

* 🔝 Set Process Parameters			国は中ロキ	? Cē [
Entity Details				
Entity Type Tech Records Process Ctrl	w.	Ently Configuration	*	
Record Status Active		New Process Parameter		
Process Parameter List		New Flocess Faiameter		
H H I -1/1 > H + 0 C T T			<b>.</b>	Q
# Process Parameter	Permitted Values	VV Status	Error Hessage	
1 Update Position Part # as installed Part # if the installed Part # is one way interchangeable with the Position Part	a) Enter W for the 't' for Ver'	1 Defined		

If the Process Parameter 'Update Position Part # as installed Part # if the installed Part # is one way interchangeable with the Position Part #?' is set as '1' then on successful component attachment, if the Installed Part # is one way interchangeable with the Position Part #, then the Position Part # will be updated with the Installed Part #. Also, the Position Part Change Log will be updated with the CR #.

- Note: This change will be available in all the Component Replacement transactions, as shown below:
  - 1. Aircraft Maintenance Execution Component Replacement
  - 2. Shop Work Order Component Replacement
  - 3. Aircraft Readiness Log
  - 4. Initialize Component Assembly
  - 5. Initialize and Update Component Configuration
  - 6. Record Component Replacement
  - 7. Edit Component Replacement Details
  - 8. Manage Bulk Component Replacement Details
  - 9. Reverse Component Replacement Details
  - 10. Amend Component Replacement Details
  - 11. AME Bulk CR
  - 12. Other CR screen applicable for Mobility solutions and OFMS
  - 13. Tech Records Hub Configuration Tab
  - 14. Tech Records Hub Component Replacement Tab

## WHAT'S NEW IN SMART OPERATIONS?

#### Ability to record various work actions through Barcode scan.

Reference: AHBF-13399

#### Background

Smart Operations is a feature designed to enhance the user's experience in recording various work actions, more easily and quickly.

The screen enables the user to accomplish lot of actions with just a single scan of a Barcode that can be carried along during his day-to-day work.

This feature has already been enabled for a few basic actions such as 'Start Clock on a Task', 'Stop Clock on a Task', 'Complete Task', etc. More actions such as 'Work Hold', 'Start and Stop Indirect Time', 'Review Timesheet', etc. have also been addressed in this release.

#### **Change Details**

With this new change, the user will be able to perform certain additional actions like initiating 'hold' on a task / WO, simultaneously starting the clock on all tasks that the user had been working on previously, or stop all the running clocks, etc. This can be done with a simple scan, instead of traversing through the application to the respective screens to perform the actions.

These barcode labels can be printed on the task card cover sheet or package cover sheet depending on the one that is used by the Mechanic to carry out his work. New sheets in package print are introduced as part of the current template to facilitate printing of barcode labels.

#### Mechanic using Task Card as a working document

In an airframe maintenance scenario, typically, the mechanic would be carrying the task card of the task that he is working on. Hence, it would be convenient for him to get the barcode labels also printed on the task card. While setting the template for package print, task card cover sheet page should be opted to get printed.

Since the labels are printed on the respective task card itself, the barcode labels are encoded with the Task # or Discrepancy # along with the required actions such as 'Start Clock' or 'Stop Clock' and so on.

Since all the required information is encoded in the label, the user can perform all his task-level actions in just a single scan of the barcode labels.

#### Mechanic using Package Print as a working document

In Component / Part Maintenance scenario, typically, the work scope document containing all the tasks would be printed out and tied to the physical unit. Since a mechanic would be working with the work scope document and not with the individual task cards, it would be appropriate to get the labels printed on the package cover sheet.

Since the package coversheet may not have task level information, only actions like Start Clock, Stop Clock, etc., are printed on the cover sheet. However, the tasks on which these actions are to be performed are printed on a separate sheet called 'Task Barcode Index'. This way the barcode scan is forced to be split into two steps, where, the user must scan the action to be performed separately and scan the task/discrepancy to which the action corresponds separately.

So, when the user scans the action (like for e.g., Start Clock on a Task) first, the system directs the user to scan the Task/Discrepancy next.

Note: These new sheets are added to the existing repository of package print templates and the sheets that need to be printed should be set up in the backend tables, based on each customer requirement like it is done currently for other sheets.

#### Important points to be noted

- Barcode actions have been enabled for both Aircraft Maintenance cycle and Shop cycle packages.
- Various new actions such as Indirect Time, Work Hold, Start Clock on all Current Jobs, Planning an Execution Document, etc., have been incorporated in this feature.
- The user has the choice to decide the actions that are to be printed as Barcode Labels. This can be defined in the Set Process Parameters screen in the Define Process Entities activity of the Common Master component for the Entity Type "Package Print" and the Entity "Barcode Labels".

#### Defining the barcode labels to be printed

Under the business process **Maintenance Setup**, business component **Common Master** and **Define Process Entities** activity, select the link **Set Process Parameters**.

Entity Details					
	Evitty Type Package Print		Entry Barcod	r Labels 🛛 👻	
	Record Status Active		Process Parameters Defined? Yes		
Process Parameter List	ALL		Linear Andrew Andrew 10		
+ + 1 -20/20	* * + 0 C T T		ANDX COR		i.
# Process Parameter		Permitted Values	Value	Statur	Error Nes
1 Print Barcode label to Stu	wt Clock on a Task ?	Enter "0" for Not Required, "1" for Required	1	Defined	
2 Print flarcode label to Sto		Enter "0" for Not Required, "1" for Required		Defined	
3 Print barcode label to Co	molete Task 7	Enter "0" for Not Required", "1" for Required		Defined	
	rview Task / Discrepancy ?	Enter '0' for Not Required, "1" for Required		Defined	
	art Indirect Time on «Indirect Category» ?	Please enter permitted value.	ĸ	Defined	
6 Print Barcode label to Sto	art Indirect Time on <indirect category=""> 7</indirect>	Please enter permitted value.	Training	Defined	
7 Print Barcode label to Sta	art Indirect Time on <indirect category=""> ?</indirect>	Please enter permitted value.	00	Defined	
8 Print Bancode label to St	to Indirect Time ?	Enter "0" for Not Required", "1" for 'Required'	1	Defined	
9 Print Barcode label to Ini	iate Work Hold on a Task due to <hold code=""> 7</hold>	Please enter permitted value.	QUOTE HOLD	Defined	
10 Print Barcode label to Ini	late Work Hold on a Task, due to <hold code="">?</hold>	Please enter permitted value.	AI//C investigation	Defined	
11 Print Barcode label to In	tate Work Hold on a Execution Document due to <hold< td=""><td>Please enter permitted value.</td><td>SA</td><td>Defined</td><td></td></hold<>	Please enter permitted value.	SA	Defined	
12 Print Barcode label to Ini	tate Work Hold on a Execution Document due to <hold< td=""><td>Please enter permitted value.</td><td>Comm Hold</td><td>Defined</td><td></td></hold<>	Please enter permitted value.	Comm Hold	Defined	
13 Print Barcode label to Stu	art All Your Currrent Jobs 7	Enter '0' for Not Required', "1" for Required	1	Defined	
14 Print Bancode label to Str	ap Al Running Jobs ?	Enter "0" for Not Required", "1" for Required	1	Defined	
15 Print Barcode label to Ma	mage Your Open Work ?	Enter "0" for Not Required", "1" for Required	1	Defined	
16 Print Bancode label to Pla	in Execution Document ?	Enter "0" for Not Required", "1" for Required	1	Defined	
17 Print Barcode label to Re	rview Execution Document ?	Enter "0" for Not Required", "1" for Required"	1	Defined	
18 Print Barcode label to Re	cord Discrepancy 7	Enter "0" for Not Required", "1" for Required	1	Defined	
19 Print Barcode label to Re	cord Parts Replacement ?	Enter "0" for Not Required", "1" for Required"	1	Defined	
20 Print Barcode label to Re	cord Material Request 7	Enter '0' for Not Required', "1" for Required'	1	Defined	

For the Entity Type 'Package Print' and Entity 'Barcode Labels', the various Process Parameters can be set as follows:

- > Yes To print the barcode label for that action
- > No To disable the print of that barcode label
- Permitted Value In case of Indirect Category and Hold Codes, any value that has already been defined in the system has to be given to print that label.

# Sample Format of Barcode Labels for performing actions in Single scan as on a Task Card

The Task Card shown below is a sample for Barcode Labels that can enable actions in just a single scan.

A/C Model #	A310		Tally # / Tracking #	3/3
A/C Reg #	VT-866		Task #	NST-000548-2012
Exec Doc #	VP-000138-2012	ramco	Task Part #	101-000040-2012
Parent Position	11-000100-012		Task Part SI #	
PoolVP-000138-2 Planning & Review Go To : Plan Execu	vs don Document		Go To : R	rvlew Task/Discrepanc
Go To : Review Ex A013VP-000138-20 Timesheet Start Clock on All 0 A009	12	<b>II</b>		Stop All Running Jobs
Start Indirect Time	KT		54	A006Training
Start Indirect Time				Stop Indirect Time
Start Clock on a Ta			I	Stop Clock on a Task
A00149256				
A00149286 Work Holds				
Work Holds	On Exe.Doc due to SA	In	itlate Work Hold On Exe	Doc due to Comm Hold

NOTE: The barcode labels are numbered as 'A00---' for labels in Single scan.

	A310		Tally # / Tracking	3/3
A/C Reg #	VT-868	ramco	Task #	NST-000548-2012
Exec Doc #	VP-000138-2012	ramco	Task Part #	
Parent Position			Task Part SI #	
A00829VP-000138				A00820VP-000138-201
A0052749265	imesheet	SLD Initiat	e Work Hold On a Task	A008194926
Work Reporting Go To : Record C	omponent Replacement		Go	To : Record Discrepanc
Go To : Record M				Complete Tas

#### Sample Format of Barcode Labels to perform actions through Split scan

The sample of Barcode Labels shown below enables a user to perform actions through split scan.

The first two sheets are called the 'Coversheet for Barcode Actions', which contains only the actions to be performed.

Note: The Barcode Labels are numbered as 'AA0----' in split scan.

Coversheet for Barcode Actions	ramco	Log card
Execution Doc # VP-000138-2012		•
Maintenance Object : A310 / VT-868		
Execution Doc #		
P001VP-400138-2012		
Planning & Reviews		
Go To : Plan Execution Document A012VP-000138-2012		Go To : Review Task/Discrepan
Go To : Review Execution Document		
Timesheet		
Start Clock on All Current Jobs		Stop All Running Jol
Start indirect TimeKT		Start Indirect Time Trainir Adde Trainir
Start Indirect TimeOD		Stop Indirect Tin
Start Clock on a Task		Stop Clock on a Ta
Work Holds		
Initiate Work Hold On Exe.Doc due to SA	init	ate Work Hold On Exe.Doc due to Comm Ho
Printed Date: 108/2015 05:35 PM		Page Number: 1 of 2

Coversheet for Barcode Actions	ramco	Log card
Execution Doc # VP-000158-2012 Maintenance Object : A310 / VT-868		
Initiate Work Hold On a Task due to QUOTE HOLD	Initiate We	ork Hold On a Task due to AWC Investigation
Go To : Review Timesheet		
Work Reporting Go To : Record Component Replacement		Go To : Record Discrepancy
AA15T001		AA14T001
Go To : Record Material Request		Complete Task

The next sheet is called the 'Task Barcode Index', which contains the barcodes for all the Discrepancies and Tasks in the package.

Task Bar	code	Index			ramco				
Exec Doc	Туре	Execution Doc #	A/C Model #	A/C Reg #	Component #	Part#	Serial #	Station	Date
A/C Maint, E	ke. Ref.	VP-000138-2012	A310	VT-666	NA	NA	NA	AIR	7/31/2012
Seq #		Task #	Task Description			Exec	ution Work Center	Baro	ode Label
1	4589/1	l c	dp parent			185-20			00142933
2	4589/2	2 0	dp child			185-20			00142934
3	NST-0	00548-2012 0	dfg						00149266
4	4589/3	3 c	leesc		185-20			0171046	

#### Actions enabled for Barcoding

The following are the actions that are supported through Barcode Labels. One set of action has been designed to complete the action in the same screen. However, there are other actions that take the user to the corresponding screen, to perform the required action.

Start Clock on a Task: It enables the user to Clock-in on a Task that he is working on without having to open the respective screen to start the clock.

■ 本 ⊕ ロ ← ? □
Welcome DOMUNIC SENECHAL ( ramcorole )
ðy.
n the next action to be performed

"What You Scanned" section shows what has been scanned against what entity, as in the task or discrepancy.

The action is completed in **Manage Your Work Actions** screen itself where the user will be shown a success message that his clock has been started.

Stop Clock on a Task: It enables the user to end a running clock on a Task that he has been working on without having to open the respective screen to stop the clock.

Welcome DOMDRIC SERECHAL ( rannoarole

The action is completed in **Manage Your Work Actions** screen where a success message that has been stopped is displayed.

Complete Task: The user can change the status of a Task to "Completed" after on completion of work.

Barcode Actions	Welcome RICHARD OWSIANYK ( RamcoRole )
h	
Task Completed Successfully.	
Please scan the next action to be performed	
What You Scanned           Action Type : Complete Task           Detail: : CWO-008789-2015 / NST-003305-2015	

This action, as well, is completed in the same screen and a success message is displayed.

Start Indirect Time: The user can start a clock on any of the Indirect Tasks, such as, Meeting, Cleaning, etc., already defined by him in 'Set Process Parameters' screen

nage Your Work Actions	■ × ⊕ ☆ ←
Barcode Actions	Welcome DOMINIC SENECHAL ( ramcorole )
Clock Started Successfully.	
Please scan the next action to be performed	
What You Scanned	
Action Type : Start Indirect Time Details : /	

The system allows the user to Clock-in on only one Indirect Task at a time.

Stop Indirect Time: This action stops the clock running on any of the Indirect Tasks.

nage Your Work Actions	+ 다 총 ¤ ജ
	Welcome DOMINIC SENECHAL ( ramcorole )
Barcode Actions	
Cluck Ended Successfully.	
Please scan the next action to be performed	
What You Scanned	
Action Type : Stop Indirect Time Details : /	

Initiate Work Hold: 'Work Hold' can be put for a Task as well as an Execution Document. There could be various reasons for putting a Task or Execution Document on 'Hold', such as, unavailability of Materials, unavailability of tools, waiting for Quote, etc.

The user should have defined the reason for Hold as 'Hold Codes' in "Set Process Parameters" screen to have gotten the label printed.

nage Your Work Actions	本口中に開
	Welcome DOMINIC SENECHAL ( ramcorole )
Barcode Actions	
F	
Gock Ended Successfully.	
Please scan the next action to be performed	
What You Scanned	
Action Type i Stop Indirect Time Details : /	

In the above image, it is shown that the Task has been put on Hold. Similarly, when a Hold is put on an Execution Document, the message will be shown accordingly.

Start Clock on All Current Jobs: This label enables the user to start multiple clocks simultaneously. On a busy morning, the user need not search and scan to start the clock on each task that he had been working on the previous day. This label simply lets the user to start clocks on all incomplete jobs that he has already worked on.

		Welcome Kishok Prabhakar í RamcoRole I
Barcode Actions		
	I	
	Clock started successfully.	
	Please scan the next action to be performed	
What You Scanned		
Action Type 1 Start Clock o Details 1 /	n all your Tasks	

This action just starts the clock on tasks that are not yet in 'Completed' status ignoring the tasks that were put on 'Hold' recently. It is to be remembered that this action starts the clock on only Direct Tasks. (Indirect Tasks are not considered here).

Stop All Running Clocks: Multiple clocks can be started similarly, multiple clocks can be stopped as well. The user need not stop individual clocks; he can stop all his running clocks before he leaves the job by the end of the day.

nage Your Work Actions		間 X ⊕ 口 ✦
		Welcome Kishok Prabhakar ( RamosRole )
Barcode Actions		
	E	
Q	Click Ended Successfully.	
	Please scan the next action to be performed	
What You Scanned		
Action Type : Stop Clock on all your Ta	isks	
Details ( /		

Review Timesheet: This enables the user to manage all open work by navigating to the user's 'Time Tracking' screen, where he can view all the jobs he has been working on.

No Pictur Available	Dept	MR. DOMINI 4011							lay, Oct 16 <sup>th</sup> , 0:20:16 /			Toda 0.00 0.00 rect In-Direct	y's Book 0. Time(	00 0.00		
Timesheet - Cl Cleck Your To Query Time C	ne - Single	sheet - Manua	Chee	k Your	_	Hultiple							WO	jobs tha rking on	will be l	
					Search	tr Tre Re	cords	* Running	Clods Only 👻	Det	te from / to	101 j	this	s multiline	9	
booking Type					Search	by		*		-	dd. Search	*				
Booking Code 👂	CWO-00878	9-2015	(a) Te	the De	tails								$\overline{}$			
Activity Code 👂	NST-003305	-2015 2		proper			0277	-					/	/		_
Alter, Type	Normal			41.				000			0 % 6 8 8 4	-	A	bi construction of the second s	*	
Time Class.	M00	*			CS	Booking Ty			Activity Code D			End Date & Tim	r	Duration	Time Class.	Atte
Comments		10	1	- 13	0	SWO			NST-003305-		10-16-2015 09:55:01					w Norm
COMPANY OF		×	2	10	-	AME		P-000138- P-000877-	4589/1 VP-000877-		10-15-2015 16:04:59 10-15-2015 10:44:36					v Nom
1.1	1 92	82 83	12	1		SWO		WO-008737-			10-13-2015 11:54:06					v Norm
Start	Stop	40 Clear	-		~	3110		The Sources		-	19-19-19-19-19-000					w Norm
Add. Info.								<								
Booking Code D test Activity Code D 456						b Star	1.11				Step			<b>Α</b> 1	ransfer	~

Review Task / Discrepancy: It helps the user to review the details of the Task or the Discrepancy he is working on. It simply takes the user to the corresponding screen in Aircraft Maintenance Execution Details screen or Record Shop Execution Details screen.

The above image shows the screen for Review Discrepancy for a Package. If the user scans to review a Task in a package, then the same screen will be launched in 'Work Information' tab.

Record Aircraft Maintenance Execution Details	For "Review Task"			會口?	×
Exe. Details Aincraft Reg # P	tation AR DCCA	ster 135-20 + Dat	e & Time   10-16-2015        09:33:5	7 🟥 🖸 13. Hrs40540.34	
🖕 Open Roma (179) 🐈 Discrepancies (3) 💥 W	ork Information 🛛 🙆 Component Replacement	(1) 1 Material Request (1	0		
Search Options: 🗵 Log Cards - 🗵 Hoor - 🗵 Hajor	Search bySearch by	Search For	Go		
N E # Search-File # D Y D	Execution Record Details				
a <u>⇔</u> 14-666 a <u>⇔</u> 14-000138-2012					
Under Resolution	Eve. Ref. #Log card + VP-0001	138-2012 Status In-Progress	15 ES IR	Category 1Repar + Ref. 1	Dire Z
100-00 ::: 4589/2 :: A3R :: dp.child :: \P- 200-00 ::: 4589/3 :: A3R :: dees: :: \P-01	Log # 4589	Orig. Work Center 185-20		Maert.Event 💌 Pada	age De
20000110001110011000111000	Discrepancy				
	8865				_
	Log Dem # - Tracking # - Seq #	Record Statue	Decrepancy #	Sign-off Statue	H
	4589/1 1 1	UnderResolution	4589/1	Not Required	
	Type ATA #P	Action	Repair Cassification	Source Type & No	
	MEREP - 400-00			Decrepancy *	4585
	Decrepancy Description	Corrective Action		Part Required?	
	dp parent		0	No V	
	2		~ 6	Najor Dani?	

Record Shop Executio					95?	
Search On Shop Work C	order # C	WO-008789-2015	Get	Date & Time 10-36-3015-06: 0		ГÍ
X Append	Work Actual	Report Findings	Disassemble & Assemble Core	Initial Workscroping Resterial Request		
Standar - Rh Standar - Rh	Diplay bi	y 🖲 Tark 🛈 Subt	taik			
a Catherop	4 4 1	-2/2 F H	+ - 0 + 0 0 T T		Q.	
(D 10)	* 17 M	NG CI 55	es svio = P	# Task # D Ook Start Date & Time Ook End Date & Time	A	
1010:	1 🗆 N	N NS NR	PE CIVO-008789-2015	1 123 MST-003304-	TR.	
	2 0 N 3 0	N NS NR	PE CWO-008789-2015	2 456 NST-003305-	THE .	
	-					
<						
Elinks .	<				>	
Record Means Parts U Record Part Deviation (	Time Sheet			Sign Off Details		
Report Resource Actual				Medianic Inspector Add. Sign-Off		

The above screen will be launched to Review Task or a Discrepancy from a Work Order. The 'Work Actual' tab corresponds to Tasks while 'Report Findings' corresponds to Discrepancy.

Plan Execution Document: This label launches the required screen to plan the job cycle for the package. If the package is a part of Shop Cycle, then "Plan Work Order" screen will be launched. If the package is a part of Aircraft Maintenance cycle, then the Plan Aircraft Maintenance screen will be launched.

Seerth On       Sock Work Coder       * * Ceno-0002709-2015       Get         * # y Status       B tr. Event         Work Order       Non Routine K. D. * *       * Order Details       Order Details       Geterations       Reference Details       Contract Terms & Canditons       Removal & V *         * * Status       * * * * Ceno-0002709-2015       Order Execution Details       Order Details       Contract Terms & Canditons       Removal & V *         * * * * * * * * * * * * * * * * * * *	Plan Work Order					9 12 ?	×
Work Order Takes       Due List          • Order Oktable       Order Exelsconon Detable       Part Disposition & Novement Distable       Reference Dutable       Contract Terms & Conditions       Removal & L ◆            • Order Oktable       Order Detable       Order Detable       Part Disposition & Novement Distable       Reference Dutable       Contract Terms & Conditions       Removal & L ◆            • Order Oktable       Order Detable       Order Detable       Detable       Conder Status       Indeparted            • Order Oktable       Order Detable       Order Detable       Detable<		-008789-2015 Get					]
Important Dates       Demonts       Important State       Demonts       Important State		Order Details     Order Execution Details	Part Deposition & Novement Details	Reference Datais	Contract. Terms & Conditions	Removal & V	•
Component #         Multiple Care IF 160         Vel Applicable           Stadue Status         Account A         Part Desic.         Operator #           Important Dates         Workscoppeg Details         Vel Account A         Account A         Vel Account A           Important Dates         Convertis         Shop Vait Count. I         Important Dates         Important Da	3 CW0-006789-2015	Job Type Component V		•			
Connection Dates Connection Shop Visit Count:  Connection Shop Visit Count:  Connection		Component # Stock Status Accepted	Multiple Cores? No				
Repair Process Code Advance Loan V Repair Classification V Work Requested		Connervita			Action on Revision	•	
		Englaar Process Code Advance Loan	Repar Classificator	•	Work Requested		
Fifter Criteria     Wark scope Stress     O Additional Stress     O Cetaled Stress							-

The above image shows the screen where a Work Order would be planned. For a Package in Airframe Maintenance, **Plan Aircraft Maintenance** screen will be launched. Review Execution Document: This label helps the user to view the details of the Discrepancy and Task in the Execution document by taking him to the respective screens. If the package is a part of Shop cycle, Record Shop Execution Details will be launched while, if the package is a part pf Aircarft Maintenance cycle, Aircraft Maintenance Execution Details screen will be launched

Record Shop Execution					0 c ?	
Search						
Search On Stop Work On	der # 000-008799-2015	Get		Date & Time	10-16-2015 09: 10	
	Work Actual Report Findings	Disassemble & Assemble Core	Shital Workscoping	Hateral Request		
to E Sect. Pre ⇒ Pontosco de ⇒ Doutocore ⇒ Douroent ⇒ Douroen	Concursion Defaults  Since a CMO  Order Status 19-Progress  Concorder Defaults  Concorder Defaults  Part Composition  Concorder Findings  Concorder Status  Concorder Status	CHO-000789-2015 Reference Task # P		Event = CWD-X Job Type Compor		
Elarks Record Plannig Parts La Record Plannig Parts La Record Plannight Chair Record Plannight Chair Record Plannight Chair	Description Description Trite MPSP ACAM	0	New oriective Action	6	Sign-Off Status Sign-Off Hechanic Hoc	

The image shows the review of a Work Order while Review of an Execution document in Aircraft Maintenance will be done in **Record Aircraft Maintenace Execution Details** screen.

Record Discrepancy: While working on a Task if the user finds another damage or discrepancy, he can scan this label to record his findings against the same Execution Document. Again, if the scanned package is a part of Shop Cycle, Record Shop Execution Details will be launched while, if the package is a part of Aircarft Maintenance cycle, the Aircraft Maintenance Execution Details screen will be launched.

Record Aircraft Maintenance Execution Details						80?	x
Exe. Details Averanit Reg # P	SENTION ARE INDEA STATION	w Work Cen	ter 185-20 *	Date & Time 30-16-2015	09:33:57 10	11. Hey40540.34	
🗁 Open tama (179) 🐁 Discrepancies (0) 💢 (	Vork Information (1)	nponent Replacement	(1) 1 Material Request	00			
Search Options: 🗹 Log Cards 😿 Minor 😿 Major	Search by -Search	by-	* Search For		60		
NO ED # Search - Filmer H. P. Y. P.	Execution Record Detail						
⊒ 10 × 5666							
Under Resolution 1 3 00-00 = 4589/1 = AIR = dp parent	Eve. Ref. #Log card	- W-0001	18-2012 Status In-Progress	16 ES	MR Category	14eper + Set	Time 2
32 00-00 ::: 4589/2 ::: ASR ::: dp dhád :: VP- 22 00-00 ::: 4589/0 ::: ASR ::: deetsc ::: VP-01	Log # 4589		Orig. Work Cartlan 185-20		Hard, Event	Pada	age De
	10 B 8 %						
	Log Item # - Tradung # - Seq #		Record Status	Discrepancy #		Sign-off Status	- 18
	4589/1 1	1	UnderResolution	4525/1		Not Required	
	Type AT	#P	Action	Repair Casofication		Source Type Silvio	
	MREP V 00	00				Decrepancy *	4585
	Discrepancy Description		Corrective Action			Farthequed?	
	dp parent	0		^ 10 (5)		No. *	
		1				No w	Y

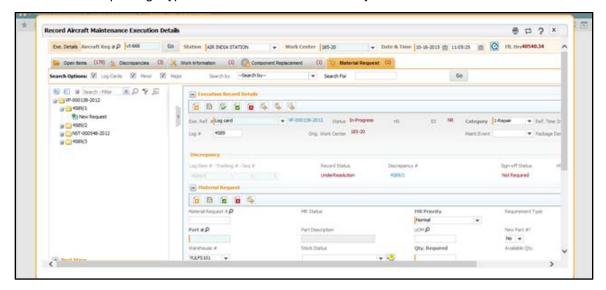
The above image shows the screen to 'Record Discrepancy' in a Package from Aircraft Maintenance. To 'Record Discrepancy' in a Work Order, **Record Shop Execution Details** screen will be launched.

Record Component Replacement: While performing tasks on the parts, when the user wants a certain component to be replaced he can record the same by scanning this label. Yet again, if the scanned package is a part of Shop Cycle, Record Shop Execution Details will be launched while, if the package is a part of the Aircarft Maintenance cycle, the Aircraft Maintenance Execution Details screen will be launched to facilitate the same.

Record Shop Execution	1 Details							8 13	3 ×
Search									
Search On Shop Work On	der # CWO-008789-2015		Get	Date I	h Time 10-16-2	15 10: III			
^	Work Actual Report Findings	Disassemble & Ass	emble Core Intal	Workscoping Hateral Re	289UP				
ShepWorkOrder     ShepWorkOrder     ShepWorkOrder     SGOVO-008789-     SGE1127-11*     The Rep	Execution Details SWO # CWO Status In-Progree		008789-2015	1000000	CWO-008789-2 Component	15 Pres	vary Work Center 1	85-20	
	Customer Order Details	Actor 🗶 Doamenbly 🕻	) Assembly () Desessend	Reason Sy & Assembly 🔘 View			×		
	Part Details					A		ام	
State .	the walls as with the first state of the state of the state of the	off Serial # P	Off Comp. # P	Initial Deposition		Al Std. Exch.7	Renoval Qty.	10	
Record Masing Parts Le Record Part Deviation L Report Resource Actua Record Parameter Reac									

To record a Component Replacement for a Task in a Work Order, the above screen will be launched. To 'Record Component Replacement' for a Task in a Package, 'Record Aircraft Maintenance Execution Details' screen would be launched.

Record Material Request: If the user realizes the need for any part while performing tasks, he can record the same using this label. Depending on the package type the screens launched will vary.



Material Request for a Package in Aircraft Maintenance will be done in the above screen, whereas, if the user needs to Record Material Request against a Work Order, the **Record Shop Execution Details** screen will be launched.

Note: This feature involves commercials and is not available for all customers. Please contact your Ramco Account Manager.

### WHAT'S NEW IN DISCREPANCY MANAGEMENT?

#### Structural Damage Report

Reference: AHBF-7427

#### Background

**Structural Damage Report** helps airline operators to keep a complete track of all records such as Damage Details, photos and files associated with the damages. The complete history of a recorded repair begins with the discovery of damage on an aircraft, which involves Multiple Inspections, Repairs Executed, and Interim Actions taken or other activities which need to be tracked.

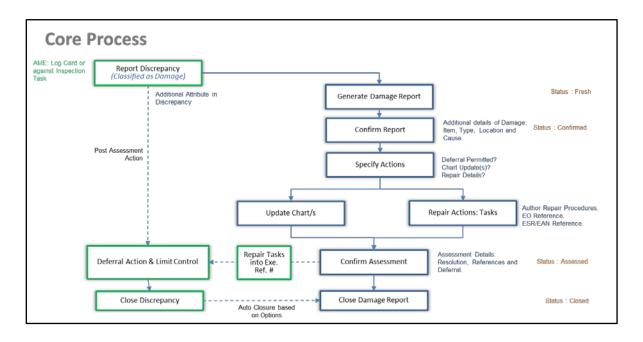
To reduce the costs of recording damages and repairs on an aircraft **Damage Inspection Report** is an easy measure to track damages from first point of discovery through to the complete repair stages.

**Structural Damage Report** allows the user to build a complete structural repair file for each aircraft comprising all documents and approval sheets for each damage record. Damage Inspection engineers can attach photos directly to the record first on the discovery of damages. Subsequently, during the repair stages, other information and documents can be attached to the system.

#### Change Details

A new component titled **Structural Damage Report** has been added under the **Discrepancy Processing** business process. The component **Structural Damage Report** includes activities such as **Maintain Quick Codes**, **Manage Damage Report**, **Maintain Master Charts** and **Manage Damage Charts**.

#### **Process Flow:**



Discrepancy reported in the **Record Aircraft Maintenance Execution Details** page is identified as Damage based on the Discrepancy Parameters: 'Major' and 'Corrosion' set options. A Damage Inspection Report can be created for this Discrepancy which will be in 'Fresh' status. Once the Damage Details such as Damage Item, Type, Location and Cause are specified, the Report can be confirmed. The Report is now updated to 'Confirmed' status. The logged damage details can be assessed by an engineer who can provide Assessment Details such as Resolution, References and Deferral information along with Repair Details. Once done, the status can be changed to 'Assessed'. The Repair Tasks identified by the engineer will get pushed to the original Exe. Doc. ready to be performed by the mechanic. On closing the Discrepancy once all the tasks are completed, the **Damage Inspection Report** can be printed with all the details, for submission to OEM and for archiving purposes.

## Exhibit – 1:

#### Maintain Quick Codes

**Structural Damage Report** facilitates lot of user defined values. To manage all these user defined values, **Maintain Quick Codes** screen has been provided so that the user can describe the necessary quick codes when he reports a structural damage report. A column; 'Sequence #' has been provided in the multiline so that the user can sort the quick codes as per his own preference.

<b>†</b> [	Ļ	Maintain Quick	Codes						🔀 🚍 🗲 ?
- 5	earch	Criteria					Date Format d	d/mm/yyyy	
			Quick Code Type Damage Item × V					Status Active	Y
					Get Detai	s			
Q	uick (	ode Details							
			🕨 🕂 🗇 🍸 🕵			5 🗉 🖂 🛛	í 🗄 💴 🕒 💷 💷	Al	<u>ح</u>
#		Quick Code	Description	Status	Seq	# Created By	Created Date	Last Modified by	Last Modified Date
1		Engine	Engine damage due to bird hit	Active	*	DMUSER	21/04/2015 02:36:38 PM		
2		Left Fuel Tank	Left Fuel Tank leakage	Active	*	DMUSER.	21/04/2015 02:36:38 PM		
3		Tail	Tail Rudder	Active	*	DMUSER	21/04/2015 02:36:38 PM		
4				Active	*				
					Maintain Quick (	Lodes			

## Exhibit – 2:

#### Manage Damage Report

**Generate Mode:** In generate mode, the user can generate a **Structural Damage Report** using a Discrepancy # created earlier or the user can create a new Discrepancy # with the help of the **Maintain Discrepancy Information** Link and then use it to create **Structural Damage Report**. After entering the necessary details, on click of 'Generate Report' a **Structural Damage Report** will be created.

★ 🜉 Manage Damage	e Report			× 🖶 🗢 🗧 🤅
	) View			
Damage Report Details -				
Discrepancy # 👂		Category	Date	Status
Report Details		<b>~</b>	Reported by 👂	Reporter Name
				Maintain Discrepancy Information
		Generate	Report	

Note: Discrepancy #, Category and Date are mandatory to generate a Structural Damage Report.

## Exhibit - 3:

**Modify Mode:** In modify mode, the user can modify the generated **Structural Damage Report** unless the generated report is in 'Closed', 'Short Closed' or 'Cancelled' status. In this mode on entering the Damage Report # and selecting the 'Go' button, the 'Main Details' corresponding to the Damage Report will be displayed.

★ 🜉 Manage Damage Report			× 🚍 🗲 ? 🗟
◎ Generate			
Damage Report Details			
Damage Report # 👂	Go Category	7 Date 🛱	Status
		Reported by 👂	Reporter Name
Report Details			
			Maintain Discrepancy Information

#### Exhibit - 4:

**Main Details:** Once a report is successfully generated, the user will be directed to the 'Modify' mode where the system displays the following details associated with the specified Discrepancy under 'Main Details' page.

- Damage Report Details
- Source Discrepancy Details
- Source Task Details

*	Manag	je Damag	je Report						×	: 🖃 🗢 🗧 ?
Gene	erate 🔘 M									
	n Details		e Details							
_	-		SDR000359201 CLIMB	15 Go	Category QC1	< >	Date         21/04/2015           Reported by <b>0</b> 00000011	1	Status Fresh Reporter Name	
						Save Repo	rt Details			' '
	urce Discre Dis	crepancy Deta			Reported by 0000001		Reported Date 30/04/2014	- 22	Status Trans	ferred
<u> </u>	Aira	raft Reg. #	6Y-JMR		Aircraft Model # A320-21	1	Config. Class AVEOS			
50	urce Task E		Visit Package	VP-000009-2012	Task #		Exe. Doc. Status In-Progress	3	Task Status	
Disc	repancy De	etails Fi	ile Attachments	s Chart Details						
-	< 1 ·	1/1 🕨	<b>• T •</b>				). Le 🗊 🗶 🖻	# = III AI	T	Q
#	Source	Discrepa	ancy #	Log Item #	Discrepancy Type	Category	Discrepancy Description	Status	Corrective Action	Source
1	Primary	2		2	NONRT		CLIMB	Transferred	CRUISE COR	VP-000
	<									>
							Maintain Discrepancy Information	R	ecord Aircraft Maintenance Exec	ution Details
+ Reo	ord Statisti	ics —				Confirm Report	Cancel Report Remarks			

**Damage Report Details:** Under Damage Report Details the following Details are displayed.

- Damage Report #
- > Category
- > Date on which the Report is created.
- Status of the Report generated.
- Report Details Description as provided by the user while generating report. However, if no description is provided, the system will fetch the description provided when creating Discrepancy.
- Reported by Emp. Code of the Reporter provided by the user while generating report or if no Emp. Code is provided the system will fetch the Emp. Code provided when creating a Discrepancy.

- > Reporter Name.
- Note: The user is allowed to edit 'Report Details' and 'Reported by' on click of 'Save Report Details'.

**Source Discrepancy Details**: Under 'Source Discrepancy Details' the following details are displayed:

- Discrepancy # Primary Discrepancy #.
- > Reported by User who created the discrepancy.
- Reported Date Date on which the discrepancy is created.
- Status Status of the discrepancy.
- If the discrepancy is associated with an aircraft, then aircraft related details such as Aircraft Reg. #, Aircraft Model # and Config. Class will be displayed.
- On click of 'Aircraft Reg. #' the View Aircraft Record page with its necessary details will be launched.
- If the discrepancy is associated with a component, then component related details such as Component #, Part # and Serial # will be displayed.
- On click of 'Aircraft Reg. #' the View Aircraft Record page with its necessary details will be launched.

**Source Task Details:** If the discrepancy has a source package and a source task, then the following details are displayed under Source Task Details.

- > Exe. Doc. #
- Task #
- Exe. Doc. Status
- Task Status

Exhibit – 5:

*	Manage Dam	age Report									× =	3 🗧 ? [
	rate  Modify											2000
		nage Details										
	mage Report Detai		15 Go	Category	QC1 V		Data	21/04/2015	67A	Status	Fresh	
L	Jamage Report # .	CLIMB	15 G0	category	QC1 +	7						
	Report Deta				$\bigcirc$		Reported by 👂	00000011		Reporter Name		
						Save Report	Detais					
- Sou	urce Discrepancy D	etails										
_	Discrepancy	# 2		Reported by	00000011		Reported Date	30/04/2014		Status	Transferred	
	Aircraft Reg.	# 6Y-JMR		Aircraft Model #	A320-211		Config. Class	AVEOS				
	urce Task Details –		10.00000.0010	<b>T</b> 1 <i>a</i>			5 D 01			<b>T</b> 1 (1)		
	EXE, DOC.	# Visit Package	VP-000009-2012	Task #			Exe. Doc. Status	In-Progress		Task Status		
Discr	repancy Details	File Attachments	s Chart Details									
	<mark>∢ 1</mark> -1/1	🗩 💌 🔽 😨					😕 🛄 🗐	x 🖪	4 🗧 💷 🔺		T	Q
#	Source Discr	epancy #	Log Item #	Discrepancy Type	(	Category	Discrepancy Description		Status	Corrective Action		Source
1	Primary 2		2	NONRT			CLIMB		Transferred	CRUISE COR		VP-000
	<											>
							Maintain Discrepan	ncy Information	Re	ecord Aircraft Maintenan	ice Execution Deta	ails
						_						
					Confirm	Report	Cancel Report	Remarks				
+ Reco	ord Statistics											
1												

Discrepancy Details: The 'Discrepancy Details' tab displays all the discrepancy related details in the multiline.

The following are the multiline columns in the Discrepancy tab:

- 1. Source
- 2. Discrepancy #
- 3. Log Item #
- 4. Discrepancy Type
- 5. Category
- 6. Discrepancy Description
- 7. Status
- 8. Corrective action
- 9. Source Doc. Ref #
- 10. Resolution Doc. Ref #
- 11. Doc. Type

The following links are available in the Discrepancy Details Tab.

#### 1. Maintain Discrepancy Information

#### 2. Record Aircraft Maintenance Exection Details

The links has been provided to edit the Discrepancy Information and to create a Discrepancy if needed.

#### Exhibit – 6:

★ 🜉 Manage Damag	je Report								🔀 🗐 😂 🧲	?
🔘 Generate 🔘 Modify 🛛 🔇	O View									
Main Details Damag	je Details									
Damage Report Details		_								
Damage Report # 👂	•	5 Go	Category	QC1	T		21/04/2015	Status	Fresh	
	CLIMB				~	Reported by 👂	00000011	Reporter Name		
Report Details					$\sim$					
					Save Report Details					
Source Discrepancy Det	ails									
Discrepancy #			Reported by	00000011		Reported Date	30/04/2014	Status	Transferred	
Aircraft Reg. #	6Y-JMR		Aircraft Model #	A320-211		Config. Class	AVEOS			
- Source Task Details										
	Visit Package	VP-000009-2012	Task #			Exe. Doc. Status	In-Progress	Task Status		
Discrepancy Details File	Attachments	Chart Details								
All Damage Repor	rt Discrep	pancies								
e e 1 -1/1 p	► + -					<u> 」 日 日 x</u>	🗷 📋 💴 💷	😑 💷 🛛 Ali 🔍	Q	
# 🔲 Ref. Doc. #		Ref. Doc Type	Folder Path		File Name 🔎	Rem				
1 🗖 2	*									
2 🔲 2	*									
	View File							Upload Documents		
	VIEWTIE				Save File Attachments			opidad bocaments		
				_						
				Con	ifirm Report Cance	l Report	Remarks			
+ Record Statistics										

**File Attachments:** This Tab displays all the file related to the Discrepancy or Damage Report. The following are the multiline columns in the Discrepancy tab:

- 1. Ref. Doc. #
- 2. Ref. Doc. Type
- 3. Folder path
- 4. File Name
- 5. Remarks
- The 'Ref. Doc. #' column is loaded with 'Damage Report #' and 'Discrepancy #'.If it is necessary to attach a file against that particular Damage Report or Discrepancy then the user can use the Help facility available in the 'File Name' field to select the necessary file and save it by clicking on 'Save File Attachments'.

Exhibit – 7:

The following links are available in the File Attachments Tab.

- 1. View File To view a file, select that respective row and on click of 'View File' the selected file can be viewed.
- 2. Upload Documents: To upload documents this link can be used.

The following buttons are available in the File Attachments tab.

- 1. All On click of this button files related to Damage Report and Discrepancy will be displayed.
- Damage Report On click of this button files related to Damage Report will be displayed.
- 3. Discrepancies On click of this button files related to Discrepancies will be displayed.

🛉 📃 Manage Damag	je Report								🔀 🚍 🖨 🔁 ?
🕽 Generate 🔘 Modify 🛛	View								
	ge Details								
Damage Report Details									
Damage Report # 👂		Go		Category	QC1 🔻	Date	21/04/2015 💼	Status	Fresh
Report Details	CLIMB				$\langle \rangle$	Reported by 👂	00000011	Reporter Name	
Source Discrepancy Det	ails				Sav	ve Report Details			
Discrepancy #				Reported by	00000011	Reported Date	30/04/2014	Status	Transferred
Aircraft Reg. #				craft Model #		Config. Class			
	Attachments C	P 000009 2012 Chart Details		Task #		Exe. Doc. Status	In-Progress	Task Status	
# Chart Title	Chart ID	Rev. #	File Name		Chart Group	Applicability	Affected?	Remarks	
1									
					Save (	Chart Detais		Update Dent & Budde Chart	
+ Record Statistics					Confirm Repor	rt Cancel Report	Remarks		

**Chart Details:** 'Chart Details' tab displays all the charts attached against an Aircraft model as well as Aircraft Reg. # associated with the Primary Discrepancy. The following are the multiline columns in the 'Chart Details' Tab.

- 1. Chart Title
- 2. Chart ID
- 3. Rev. #
- 4. File Name

- 5. Chart Group
- 6. Applicability
- 7. Affected
- 8. Remarks
- To mark a dent on a chart, select the affected column and Save the chart details. Then, on click of the hyperlinked Chart ID column, the Manage Damage Charts page will launch with that chart loaded.

Manage Damage Report								× =	2
ienerate 🖲 Modify 🔘 Wew									
Main Details Damage Details									
Damage Report # SDR0003142	015	Calegory QC1		Date 16/04/2015			Status p	Fresh	
Aircraft Reg. # 6Y-3MR		Aircraft Model # A320-211		Config. Class AVEOS			Discrepancy # 2	2	
tem Type Location	Cause								
lamaged Item Other Items +				Camage Item	Applicable		Remarks		
			~ .	abc	0				
					10				
itional Details			0	abot					
Iditional Details			× 100	apcdi	5				
Crepancy Details File Attachmer	and the second		Save Dama	990 (Rem	1		¥		-
crepancy Details File Attachmer	The second se	Discrepancy Type	<u> </u>	abcaj pe Item			V Corrective Action		
crepancy Details File Attachmer		Discrepancy Type HORET	Save Dama	990 (Rem		All Status			
Crepancy Details     Fle Attachmer     I - 1/1     Decrepancy #	T T.		Save Dama	e Rem		All Status	Corrective Action		p s

Update Dent & Buckle Chart Link will launch Manage Damage Charts page where the user can select any chart to mark any dent.

The following buttons are available in the 'Chart Details' tab.

- 1. All Charts All the charts attached for the Aircraft Model # as well as Aircraft Reg. # will be displayed.
- 2. Affected Charts On click of 'Affected Charts', charts which were marked as affected for the Aircraft Model # as well as Aircraft Reg. # will be displayed.

#### Exhibit – 8:

**Damage Details:** Once main details are captured, user navigates to the Damage Details page where the following sections are displayed.

Section 1

Section 2

★ 🜉 Manage Damage Report					× 📑	🗲 🗧 🚺
◯ Generate ◉ Modify ◯ View						
Main Details Damage Details		<u>_</u>				
Damage Report # SDR0003142015	Category QC1	4	Date 16/04/2015		Status Fresh	
Aircraft Reg. # 6Y-JMR	Aircraft Model # A320-211		Config. Class AVEOS		Discrepancy # 2	
						;
Item Type Location Cause		$\sim$				
Damaged Item Other Items V		<u>دم</u> (2)	mage Item	Applicable	Remarks	
	~		c			~
Additional Details	~	ab				0
		ab	cgj			*
Discrepancy Details File Attachments Chart Details		Save Damage	Item			
<b>4 1</b> -1/1 <b>P P T T</b>			<b>L</b> 🗉 🖲 X 🗷 📋 🛛	Al 🖿 💷	•	Q
# 🖾 Source Discrepancy # Log Item #	Discrepancy Type	Category	Discrepancy Description	Status	Corrective Action	5
1 🗉 Primary 2 2	NONRT		CLIMB	Transferred	CRUISE COR	VI
<						>
			Maintain Discrepancy Information	Record	Aircraft Maintenance Execution D	etails

Section 1: Damage Report related details will be displayed in this section.

Damage Report #

- 1. Category
- 2. Date
- 3. Status
- 4. Primary Discrepancy #

If the discrepancy is associated with the aircraft, then aircraft related details such as Aircraft Reg. #, Aircraft Model # and Config. Class will be displayed.

If the discrepancy is associated with a component, the component related details such as Component #, Part # and Serial # will be displayed.

Section 2: The following details will be displayed on click of respective buttons.

- 1. Damaged Item
- 2. Damage Type
- 3. Damage Location
- 4. Damage Cause

## Exhibit – 9:

						× 6	1 🗢 🌄
Generate 🖲 Modify 🔘 View							
Main Details Damage Details							
Damage Report # SDR0003142015		Category QC1		Date 16/04/2019	5	Status Fresh	
Arcraft Reg. # 6Y-JMR		Aircraft Model # A320-211		Config. Class AVEOS		Discrepancy # 2	
Item Type Location Ca	use						
Damaged Item Other Items v			Dama	ge Item	Applicable	Remarks	
			abc		22		
			abcc		2		
orbonar Details			abcc				
			abogi		8		
Iscrepancy Details File Attachments			Save Damage It	em 🔁 🖪 🗑 🎿 🕼 🛙		<b>v</b>	٩
screpancy Details Fle Attachments	Log Item #	Discrepancy Type	abogi	em Decrepancy Description	a a ta Al Status	Corrective Action	D S
a a 1 -1/1 > 10 = 7 5	1	Овстерансу Туре ИСНЯТ	Save Damage It	em 🔁 🖪 🗑 🎿 🕼 🛙	a a ta Al Status		0
Iscrepancy Details File Attachments	Log Item #		Save Damage It	em Decrepancy Description	a a ta Al Status	Corrective Action	р s v

**Item**: User can specify the details related to Damaged Item such as component, Part and Other Items.

1. If Damaged Item is selected as Other Items then a multiline appears.

The following are the multiline columns under Item Section.

- Damage Item
- > Applicable
- > Remarks
- Note: The system mandates the user to select applicable column against a quick code loaded from the quick code page in the multiline.
- 2. If Damaged Item is selected as Component then user can specify the Component #.
- 3. If Damaged Item is selected as Part then Part # and Serial # user can specify Part # and Serial # with a valid combination.

Exhibit – 10:

* 💻	Manage Dan	nage Report							🔀 🚍 🥩 🔁 💽
Generation	te 🔘 Modify	O View							
Main De	etails Dan	nage Details							
	Damage Repor	t # SDR0003592015		Category QC1		Date 21/04/2015		Status Fr	esh
	Aircraft Reg	6Y-JMR		Aircraft Model # A320-211		Config. Class AVEOS		Discrepancy # 2	
Item	Туре	Location C	ause						
	Length	5.000 UOM		0 UOM Depth 3.000	UOM		Applicable	Remarks	
		Buckling of column under				Damage Type Buckle	Аррисаріе	Remarks	
Ad	dditional Details				^	Corrosion			
					$\sim$	Crack			
	Corrosion	Yes 🔻	🖲 Local 🔘 Widesp	oread Corrosion Level 1 🔻		Part of CPCP Task Yes 💌	CPCP Task #	2	
					Save Dam	nage Type			
Discron									
	pancy Details	File Attachments	Chart Details						
			Chart Details					v	Q
•	1 - 1 / 1			Discrepancy Type	Category	Discretancy Description		▼ Corrective Action	D
<b>e e</b>	1 - 1 / 1		Chart Details	Discrepancy Type	Category	L In T X G III		Corrective Action	Source VP-000
<b>e e</b>	1 - 1 / 1 Source Disc		Log Item #		Category	Discrepancy Description	Status	Corrective Action	Source
<b>e e</b>	1 - 1 / 1 Source Disc		Log Item #		Category	Discrepancy Description	Status	Corrective Action	Source
# Si 1 Pr	1 - 1 / 1 Source Disc rrimary 2		Log Item #		Category	Discrepancy Description	Status	Corrective Action	Source VP-000
# Si 1 Pr	1 - 1 / 1 Source Disc		Log Item #		Category	Discrepancy Description CLIMB	<i>Status</i> Transferred	Corrective Action CRUISE COR	Source VP-000
# Si 1 Pr	1 - 1 / 1 Source Disc rrimary 2		Log Item #		Category	Discrepancy Description	<i>Status</i> Transferred	Corrective Action	Source VP-000
# Si 1 Pr	1 - 1 / 1 Source Disc rrimary 2		Log Item #		Category	Discrepancy Description CLIMB	<i>Status</i> Transferred	Corrective Action CRUISE COR	Source VP-000
# Si 1 Pr	1 - 1 / 1 Source Disc rrimary 2		Log Item #		Category	Discrepancy Description CLIMB	<i>Status</i> Transferred	Corrective Action CRUISE COR	Source VP-000
# Si 1 Pr	1 - 1 / 1 Source Disc rrimary 2		Log Item #	NONRT		Discrepancy Description CLIMB Maintain Discrepancy Information	<i>Status</i> Transferred	Corrective Action CRUISE COR	Source VP-000
# Si 1 Pr	1 -1/1 <i>Fource Disc</i> <i>Primary</i> 2		Log Item #	NONRT	<i>Category</i>	Discrepancy Description CLIMB	<i>Status</i> Transferred	Corrective Action CRUISE COR	Source VP-000

**Type**: User can specify details related to Damaged Type, whether the damage is Corrosion related Damage, Dimensions of the Damage. etc.

Length, Width and Depth related to damage can be specified in their respective controls.

The following are the multiline columns under Type Section.

- > Damage Type
- > Applicable
- > Remarks
- Note: The system mandates the user to select applicable column against a quick code loaded from the quick code page in the multiline.

If the Damage found is related to corrosion then on select of corrosion as 'Yes' the following controls will be displayed.

- a) Local or widespread: Indicates whether the corrosion is local area or on a widespread area.
- b) Corrosion Level: Corrosion level has been classified into three categories.

Level 1: Corrosion, that is local and can be reworked or blended out within the allowable limit.

Level 2: Corrosion that requires repair, reinforcement, complete or partial replacement of the applicable structure.

Level 3: Corrosion occurring during the first or subsequent accomplishment of a corrosion inspection task that the operator determines to be an urgent airworthiness concern.

- c) Part of CPCP Task: If CPCP Task is set as 'Yes' then the system mandates the user to specify the CPCP Task #.
- d) CPCP Task #: The objective of Corrosion Protection and Control Program (CPCP) is to limit the material loss due to corrosion to a level necessary to maintain airworthiness.

★ 🜉 Manage Da	amage Report							🔀 🚍 🗲 🗧
Generate OM Modify	y 🔘 View							
Main Details D	Damage Details							
Damage Re	port # SDR0003592015	Catego	V QC1		Date 21/04/2015		Status F	resh
Aircra <del>ft F</del>	Reg. # 6Y-JMR	Aircraft Model	# A320-211	Config.	Class AVEOS		Discrepancy # 2	
Item Type	Location Cause							
ATA #	00-00 Work Area 👂 W1		Zone 👂 Z1	Damage Location	Applicable	From	То	Remarks
	Damage Location found.		~	Landing gear	<b>V</b>	STA-01	STA-02	
Additional Details	s		$\sim$	Nose				
Rivetted Area			ose Rivets No 🔻	Tail Previously Repaired Ar			e from nearest Aperture/Joint	12.000 Inch
Discrepancy Details			Save Da	mage Location	9 🗙 🔀 🖺	👎 🗄 🛄 AI	<b>•</b>	٩
# Category	Discrepancy Description	Status	Corrective Action	Source Doc. Ref. #		Resolution Doc. Ref. #	Ŧ	Doc. Type
1	CLIMB	Transferred	CRUISE COR	VP-000009-2012		VP-000009-2012		Aircraft Maint. Exe.
<								>
				Maintain Disc	repancy Information		Record Aircraft Maintenance	Execution Details
+ Record Statistics -			Confirm Report	Cancel Report	Remarks			

#### Exhibit – 11:

**Location**: User can specify the details related to Damage Location such as ATA #, Work Area and Zone related with Damage Location.

The following are the Multiline columns under Location section.

- Damage Location
- > Applicable
- > From
- ≻ To
- > Remarks
- Note: The system mandates the user to select applicable column against a quick code loaded from the Quick Code page in the multiline and the From column and To columns specify the Damage location.

If the Damaged Location is on a Rivetted Area then the user can specify 'Yes' or 'No'. Also, user can specify if the Damaged Location is a Previously Repaired Area or not. Exhibit – 12:

★ 📃 Manage Damage Report				💌 🚍 🗢 💽
◎ Generate ● Modify ◎ View				
Main Details Damage Details				
Damage Report # SDR0003592015	Category QC1	Date 21/0	04/2015	Status Fresh
Aircraft Reg. # 6Y-JMR	Aircraft Model # A320-211	Config. Class AVE		Discrepancy # 2
Item Type Location Cause				
Damage Cause Known Yes 🔻		Damage Cause	Applicable	Remarks
	~	Bird hit	8	
Additional Details	~	Corrosion		
		Tail strike		
	Save I	Damage Cause		
Discrepancy Details File Attachments Chart Deta	ails			
a a 1 -1/1 🕨 🙀 😨			AI	<u>م</u>
# Category Discrepancy Description	Status Corrective Action	Source Doc. Ref. #	Resolution Doc. Ref. #	Doc. Type
1 CLIMB	Transferred CRUISE COR	VP-000009-2012	VP-000009-2012	Aircraft Maint, Exe.
<				>
		Maintain Discrepancy In		cord Aircraft Maintenance Execution Details
		Maintain Discrepancy in	formation Re	COLD AIRCRAFT MAINTENANCE EXECUTION Details
		Maintain Discrepancy in	formation Re	coro Aircraft Maintenance Execution Details
		Maritain Discrepancy in	formation Re	ord Aircraft Maintenance execution Details
			formation Re	ord Aircraft Mantenance Execution Details
Record Statistics	Confirm Report		Remarks	oro Ard at Mantehance Execution Letais

**Cause**: User can specify the details related to Damage Cause if it is known.

The following are the multiline columns under Type section.

- Damage Cause
- > Applicable
- > Remarks
- Note: The system mandates the user to select applicable column against a quick code loaded from the Quick Code page in the multiline.

Exhibit – 13:

	lanage Damage Report					~	
•						~	: 🖹 🗢 🧲
Generate	Modify     O View						
Main Deta	ails Damage Details						
	Damage Report # SDR0003592015	Catego	V QC1	Date 21/04/2015		Status Fresh	
	Aircraft Reg. # 6Y-JMR	Aircraft Model	# A320-211	Config. Class AVEOS		Discrepancy # 2	
Item	Type Location Cause						
Damage C	Cause Known Yes 🔻			Damage Cause	Applicable	Remarks	
			~	Bird hit	8		
Addi	litional Details		$\sim$	Corrosion			
				Tail strike			
			Save D	amage Cause			
Discrepa	ncy Details File Attachments Chart Details						
Dibereput							
•					a 🕂 🛥 💷 🗛	<b>v</b>	Q
	1 -1/1 🕨 🕨 🍸 🕵	Status	Corrective Action	▶ 🖿 🗑 🗷 🕼	Resolution Doc. Ref. #		D oc. Type
	1 -1/1 🕨 🕨 🍸 🕱	<i>Status</i> Transferred	Corrective Action CRUISE COR			D	
# Categ	1 -1/1 ► ► T S gory Discrepancy Description			Source Doc. Ref. #	Resolution Doc. Ref. #	D	oc. Type
# Categ	1 -1/1 ► ► T S gory Discrepancy Description			Source Doc. Ref. #	Resolution Doc. Ref. #	D	oc. Type
# Categ 1	1 -1/1 P P F F gory Discrepancy Description CLIMB			Source Doc. Ref. #	Resolution Doc. Ref. #	D	oc. Type rcraft Maint. Exe.
# Categ	1 -1/1 P P F F gory Discrepancy Description CLIMB			Source Doc, Ref. # VP-000009-2012	Resolution Doc. Ref. # VP-000009-2012	D. Aa	oc. Type rcraft Maint. Exe.
# Categ 1	1 -1/1 P P F F gory Discrepancy Description CLIMB			Source Doc. Ref. #	Resolution Doc. Ref. # VP-000009-2012	D	oc. Type rcraft Maint. Exe.
# Categ 1	1 -1/1 P P F F gory Discrepancy Description CLIMB			Source Doc, Ref. # VP-000009-2012	Resolution Doc. Ref. # VP-000009-2012	D. Aa	oc. Type rcraft Maint. Exe.
# Categ 1	1 -1/1 P P F F gory Discrepancy Description CLIMB			Source Doc, Ref. # VP-000009-2012	Resolution Doc. Ref. # VP-000009-2012	D. Aa	oc. Type rcraft Maint. Exe.
# Categ 1	1 -1/1 P P F F gory Discrepancy Description CLIMB		CRUISE COR	Source Doc. Ref. # VP-000009-2012 Maintain Discrepancy Informatic	Resolution Doc. Ref. # VP-00009-2012	D. Aa	oc. Type rcraft Maint. Exe.
# Categ 1	1 -1/1 P P T C Decrepancy Description CLIMB			Source Doc, Ref. # VP-000009-2012	Resolution Doc. Ref. # VP-00009-2012	D. Aa	oc. Type rcraft Maint. Exe.

At this point, user can either confirm the Damage Report or cancel the Damage Report by clicking 'Confirm Report' or 'Cancel Report'. When cancelling the report, user can specify cancellation notes in 'Remarks'.

n 📑 Manage Damage Report				× 🚍 🗲 ?
Generate  Modify View				
Main Details Damage Details Assessment Details				
Damage Report # 50R0003 552015 Aircraft Reg. # 67-3MR	Category QC1 Aircraft Model # A320-211	Date 22/04/2015 Config. Class AVEOS		Status Confirmed Discrepancy # 2
A D D C C C C C C C C C C C C C C C C C	A320-211	Cornigi Gabo Aveos		biblicpancy // Z
Resolution References Deferral				
Repair Category	Re-Protect Area Yes 🔻	Resolution	Details	Remarks
Additional Details	~	ESOL4		
Additional Details	$\sim$	Interim Plastered		
Repair Required Yes 💌	Chart Update Required Yes V	Additional Inspection Required Yes 💌		
		esolution Details		
Discrepancy Details File Attachments Chart Details Repair	Details			
a a 1 -1/1 > >> 🕂 🗖 🗇 🐨 😨		), i i i x (; i x (;	AI 🗐 💷	۵ .
# 🗈 New? Task # 👂 Task Type Repair Classific	ation Task Descriptio		Sub Tasks Count	Remarks
1 E Yes 🗸 🗸	~			
2 🖻 Yes 🗸 🗸	*			
Eng. Doc. # / Rev. # 👂	Applicability	Effective From	Manage Eng. D	ocument Author Repair Procedure
	Save Re	pair Details		
ungi ood a free a 🖌	Save Re	pair Details		
	Save Re	apair Details		
sssed by: Emp.#P Date 🕷	Save Re		Remarks	

#### Exhibit – 14:

Once the Report is confirmed Assessment Details will be enabled and the following details are displayed on click of respective buttons.

- 1. Resolution
- 2. References
- 3. Deferral.

#### Exhibit – 15:

Manage Damage Report				💌 🚍 🗲 🕻
Generate  Modify  View	-			
Main Details Damage Details Assessment Deta		Data and the		Olehan a a
Damage Report # SDR0003652015 Aircraft Reg. # 6Y-JMR	Category QC1 Aircraft Model # A320-211	Date 22/04/2015 Config. Class AVEOS	Disc	Status Confirmed
COST OF SMAR	ASCOLUME ASCO-211	Config: Class AVEOS	0.00	zepanej = Z
Resolution References Deferral				
Repair Category	Re-Protect Area Yes 💌	Resolution	Details	Remarks
	~	ESOL4		
Additional Details	$\sim$	Interim		
		Plastered		
Repair Required Yes 💌	Chart Update Required Yes v	Additional Inspection Required Yes 💌		
	Save R	esolution Details		
Discrepancy Details File Attachments Chart Details	Repair Details			
K 🖌 1 -1/1 🕨 🕪 🕂 🗕 🗇 🛩 🏹 🏹				
			4 🖻 💷 🛛 🖉	▼ Q
New? Task # P Task Type Repair	r Classification Task Descriptio		4 ≒ III All Sub Tasks Count	Remarks
🖹 Yes 👻 👻	r Classification Task Descriptio			P-
E Yes 🗸 🗸				P-
Tes 🗸 🗸	•			
F Yes v v	•	in Est. Man Hrs.	Sub Tasks Count	Remarks
Tes 🗸 🗸	Applicability	n Est. Man Hrs.		Remarks
Yes v v	Applicability	in Est. Man Hrs.	Sub Tasks Count	Remarks
F Yes v v	Applicability	n Est. Man Hrs.	Sub Tasks Count	Remarks
Yes v v	Applicability	n Est. Man Hrs.	Sub Tasks Count	Remarks
Yes v v	Applicability	n Est. Man Hrs. Effective From pair Details	Sub Tasks Count	Remarks

**Resolution**: User can specify the interim actions taken against the discrepancy.

The following details will be displayed under resolution.

- 1. Repair Category
- 2. Reprotect Area
- 3. Repair Required
- 4. Chart update required

<u>Repair Category</u>: This category is classified into three types:

Category A

Category B

Category C

<u>Re-Protect Area</u>: Further protection of the damaged area can be specified by selecting 'Yes' or 'No'.

<u>Repair Required</u>: Further repair of the damaged area can be specified by selecting 'Yes or No'. On selecting 'No' the Repair Details tab will be hidden.

<u>Chart update required</u>: Charts attached against the Aircraft Model # and Aircraft Reg # can be modified by selecting 'Yes'. On selecting 'No' the Chart Details tab will be hidden.

<u>Additional Inspection Required</u>: Further Inspection required can be specified here by selecting 'Yes' or 'No'.

★ 📃 Manage Damage Report			2	4 🚍 🗲 🔁 🔋
◎ Generate				
Main Details Damage Details Assessment Details				
Damage Report # SDR0003782015	Category QC1	Date 23/04/2015	Status Confi	rmed
Aircraft Reg. # 6Y-JMR	Aircraft Model # A320-211	Config. Class AVEOS	Discrepancy # 5	
		5 11200		
Resolution References Deferral				
EAN # ESR #	Status	References Document Type	Ref. # Revision	Remarks
	~	EAN		
Additional Details	~	ESR		
		FAA		
Auth. Ref. #		View Eng. Advice Note	Create Eng. Service	e Request
	Save Refere	nce Details		
Discrepancy Details File Attachments Chart Details Repair I	Details			
				Q
				Q
# 🗖 New? Task # 🔑 Task Type Repair Classifica		Est. Man Hrs.	Sub Tasks Count Remarks	
1 Pres V V	*			
2 tes 🗸 🗸	*			
Eng. Doc. # / Rev. # 👂	Applicability	Effective From	Manage Eng. Document Au	thor Repair Procedure
	Save Repair	Details		
Assessed by: Emp.# P Date 🐻 Re	f. # Confirm Assessment	Short Close Report Remarks		
+ Record Statistics				

Exhibit – 15:

<u>References</u>: User can specify the Engineering Advice Note # which was used as a referral document to Inspect the Damage. On click of 'Save' Reference Details EAN status and ESR based will be displayed.

The following are the multiline columns under Reference section.

- References
- Document Type
- Ref #
- > Revision
- > Remarks

The following links are available in the Reference section

- 1. View Eng. Advice Note
- 2. Create Eng. Service Request

Exhibit – 16:

Manage Damage Report					🖂 🚍 🗲 💽 🖌
◎ Generate ● Modify ◎ View					
Main Details Damage Details Assessment Details					
Damage Report # SDR0003782015	Category QC1	Date 23/	14/201E		Status Confirmed
Aircraft Reg. # 6Y-JMR	Aircraft Model # A320-211	Config. Class AVE		Discre	epancy # 5
	A320-211	AVL	03		aparter in 3
Resolution References Deferral					
Deferral Allowed Yes		Deferral By	Applicable	Deferral Period	Remarks
	^	FC			
Additional Details	~	FH			
	-	LNDG			
		Maintain Discrepano	y Information	Record Airc	raft Maintenance Execution Details
	Save Def	erral Details			
Discrepancy Details File Attachments Chart Details Repair	Details				
					Q V
# 🖻 New? Task # 👂 Task Type Repair Classifi	tation Task Description	Est. Man Hrs.	Sub Tasks C	iount	Remarks
1 🗉 Yes 🕶 💌	*				
2 🖾 Yes 🕶 👻	*				
Eng. Doc. # / Rev. # 👂	Applicability	Effective From		Manage Eng. Docur	ment Author Repair Procedure
	Save Repa	ir Details			
Assessed by : Emp.#P Date 📾 R	ef. # Confirm Assessment	Short Close Report	Remarks		]
+ Record Statistics					

<u>Deferral</u>: If deferral is required, user can specify it by selecting "Yes or 'No'. On selecting 'Yes' a multiline having the following columns will be displayed:

- 1. Deferral by
- 2. Applicable
- 3. Deferral Period
- 4. Remarks
- Note: The system mandates the user to select applicable column against deferral by in the multiline.

The following links are provided under Deferral section.

- 1. Maintain Discrepancy Information
- 2. Record Aircraft Maintenance Execution Details

Exhibit – 17:

📕 Manage Damage Report					× 🗐 🗘 🗲 ?
◎ Generate					
Main Details Damage Details Assessment Details					
Damage Report # SDR0003782015	Category QC1	Date	23/04/2015		Status Confirmed
Aircraft Reg. # 6Y-JMR	Aircraft Model # A320-211	Config. Class	AVEOS	Discre	epancy # 5
Resolution References Deferral					
Deferral Allowed Yes V		Deferral By	Applicable	Deferral Period	Remarks
	~	FC			
Additional Details		FH			
		LNDG			
		Maintain Discre	pancy Information	Record Airc	raft Maintenance Execution Details
	Save	Deferral Details			
Discrepancy Details File Attachments Chart Details Repa	ir Details				
					۵ م
◄         1         -1 / 1         ▶         ▶         ➡         —         □         Y         Y           #         New?         Task # ₽         Task Type         Repair Class			R 🖹 🗶 🕒 📮 🗧		Remarks
		on Est. Man Hrs	. Sub Tasks	Count	Remarks
1 Pes v v 2 Yes v v	*				
2 1103 V V	•				
Eng. Doc. # / Rev. # 👂	Applicability	Effective From		Manage Eng. Docur	ment Author Repair Procedure
	Save	Repair Details			
Assessed by: Emp.#🔎 Date 📰	Ref. # Confirm Assessment	Short Close Report	Remarks		

<u>Repair Details</u>: If the Damage Found requires any repair to be done, the user can specify the necessary Task details under 'Repair Details' tab.

Task Insertion happens on click of 'Save Repair Details' when the DIR is in 'Assessed Status'.

The following are the multiline columns under Repair Details tab.

- 1. Seq #
- 2. New
- 3. Task #
- 4. Task Type
- 5. Repair classification
- 6. Task Description
- 7. Est. Man Hrs.
- 8. Sub Tasks Count
- 9. Added to Exe.Doc
- 10. Task Execution Status
- 11. Exe.Ref #
- 12. Remarks

The tasks inserted under Repair Details tab can be referenced to an Engineering Order.

The following links are provided under Repair Details tab.

- 1. Manage Eng. Order
- 2. Author Repair Procedure.
- Note 1: If the discrepancy is closed or transferred, the tasks will not be added to the Package.
- Note 2: If the source discrepancy is in Deferred or Pending status, then no action takes place on 'Confirm Assessment'. The tasks will be added automatically once the Discrepancy is added to a new Package.

#### Exhibit – 18:

📕 Manage Damage Report					× 🚍 🗲 ? [
◎ Generate    Modify					
Main Details Damage Details Assessment Details					
Damage Report # SDR0003782015	Category QC1	Date 23/04/20	)15		Status Confirmed
Aircraft Reg. # 6Y-JMR	Aircraft Model # A320-211	Config. Class AVEOS		Discr	epancy # 5
Resolution References Deferral					
Deferral Allowed Yes 💌		Deferral By	Applicable	Deferral Period	Remarks
	~	FC			
Additional Details	$\sim$	FH			
		LNDG			
		Maintain Discrepancy Inf	formation	Record Aire	traft Maintenance Execution Details
	Save Def	erral Details			
Discrepancy Details File Attachments Chart Details Repair D	etails				
<b>4 4 1</b> -1/1 <b>&gt; &gt; + - 7 % 7 %</b>			KI (C) (T) (T) (T)	All	Q ▼
# 🗆 New? Task # 👂 Task Type Repair Classificat	tion Task Description	Est. Man Hrs.	Sub Tasks Co		Remarks
1 🖻 Yes 🕶 💌	*				
2 🖾 Yes 🕶 💌	~				
Eng. Doc. # / Rev. # 👂	Applicability	Effective From		Manage Eng. Docu	ment Author Repair Procedure
	Save Repa	air Details			
Assessed by : Emp.#P Date Ref	# Confirm Assessment	Short Close Report	Remarks		
+ Record Statistics					

At this point, the user can either confirm assessment details or short closet.

- On confirming the Asessment the user needs to specify Emp # and Date on which the assessment is done.
- > Once Confirm Assessment is clicked status of the Report changes to 'Assessed'.
- Once the Confirm Assessment is clicked when the DIR is in 'Confirmed' status the Repair tasks are added to the AME package.
- > On Short Closing a Report, the user can specify Short Close notes in 'Remarks'.

#### Exhibit – 19:

Damaged Item Other Items									
Damaged Item	T			Damage Item	Applica	able	Remarks		
			~	right Engine		×.			
Additional Details			$\sim$	Wing-LR.					
				Fuselage LH					
			Save Dama	ge Item					
screpancy Details File Attack	ments Chart Details Repair D	etails							
<ul> <li>&lt; 1 -1/1 → →</li> </ul>	+ - 0 4 T T.					All		V	Q
Task Description	Est. Man Hrs.	Sub Tasks Count	Added to Exe.	Doc.?	Task Exe. Status	Ex	e. Ref. #	Remarks	
Remove dent	1.00000000		1 No		Pending				
E									
<									>
		Applicability		Effective From		Manage Eng	g. Document	Author Repair Pro	cedure
Eng. Doc. # / Rev. # 🔎									

After Confirming the assessment, the final action is to close the report. On click of 'Close Report', the Damage Report will be closed.

#### Print Damage Report

The user has an option to print the prepared Damage Report from the **Manage Damage Report** Page.

Click on the **Print Damage Report** link which is highlighted in the above screenshot, to launch the Damage Report in the PDF format, and print the file.

#### Damage Report:

The Damage Report, which is generated on click of **Print Damage Report** link has three sections viz.,

- a) <u>Damage Details</u>: This section displays the information about the Damage Item, Type of Damage, Damage Location and Damage Cause.
- b) <u>Assessment Details</u>: This section displays the information about the Resolution provided to damage identified like Reference details with respect to the damage, Deferral of the damage and the Aircraft Maintenance Engineer who assessed the Damage Report.
- c) <u>Other Details</u>: This section displays the information on the list of charts that are selected to mark the damage points and the Repair Details which includes the Repair Task #, Task Type, Task Description, Engineering Document # etc.

#### Exhibit: 20

#### Maintain Master Charts:

Maintain Master Charts is primarily used to map a chart to the selected Object Type Viz., Aircrafts/Parts. The user entered Chart Title will be unique for a selected Chart Group of that Aircraft Model/Part or Aircraft Reg #/Component #.

The search section provides the ability to filter the results in the Chart List section by providing any one of the inputs as shown in the image below.

Select the Object Type against which the chart has to be mapped as shown in the Fig 1.2.

Example: On selecting Aircraft Reg # as VT-666, if the data is entered in the multiline, then the chart will be mapped to the Aircraft Reg # VT-666 only.

- > Select the status of the object as shown in the Fig:1.2 to filter the results.
- Once any one of the above inputs is entered, the user can click the Search button as shown in the image above.

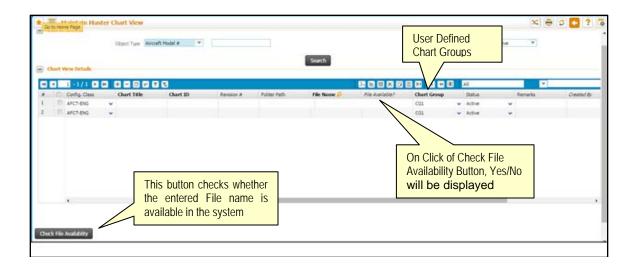
💓 🜉 Maintain Master Chart View			💌 🛋 🗢 🗲 🔋 📑
- Search Criteria	Specify the	Date Format dd/mm/yyyy hh:mm:ss am	/pm
Object Type Averaft Model #	Object Type Search	Status	v
Chart View Details     Part #     Component #			
			<b>v</b>
		Specify the status of the record to be filtered and displayed.	

Note: Partial data is not accepted as Input

- Enter the Aircraft Reg #, Chart Title, Chart ID, File Name, Chart Group if the Object Type is selected as Aircraft Reg #.
- Enter the Aircraft Model #, Config Class (Not mandatory), Chart Title, Chart ID, File Name and Chart Group if the Object Type is selected as Aircraft Model #.
- Enter the Part#, Chart Title, Chart ID, File Name and Chart Group if the Object Type is selected as Part #.
- Enter the Component # or Part # and Serial #, Chart Title, Chart ID, File Name and Chart Group if the Object Type is selected as Component #.

Go to Har	re Page	ler Chart View								(E) (E	2 🖬 ?
			raft Model # 🔫						Status	Active T	
Chart V	icw Details					South					
	1-1/1 •		88						I AI	<b>V</b>	
	Corfig. Class	Chart Title	Chart ID	Revision #	Polder Path	File Name 👂	File Austable?	Chart Group	Status	Remarks	Created By
	APCT-ENG							CGL	w Active	~	
	AFCT-ENG	*						0.04	✓ Adle	× .	
										_	
	•2										

- On clicking 'Check File Availability' button, the system displays Yes/No in the File Available column in the multiline.
- Chart Title entered will be unique for the selected Chart Group of that specified Aircraft. For example: If an Aircraft VT-666 is selected and a Chart Title is entered as Front View for the Chart Group Fuselage, the user cannot enter the same value for the Aircraft VT-666 which has the same Chart Group.
- Chart ID is unique across the entire application. It helps the user to easily identify the Chart.
- Note 1: Chart Title can be repeated for the Aircraft/Part which has a different Chart Group.
- Note 2: Two charts with the same Chart ID cannot be in 'Active' status at the same time.
- Note 3: When the same Chart ID is entered, the status of the previous record will be made 'Revised'
- Note 4: No changes will be allowed to the Revised and Inactive Chart ID's.
- Note 5: If one has to modify a Model/Part level record when the object type is selected as Aircraft Reg #/Component #, the model level record cannot be modified. One can only inactivate the record and proceed with the new one. The inactivation is applicable only at the Aircraft Reg #/Component # level not at the Model/Part level.



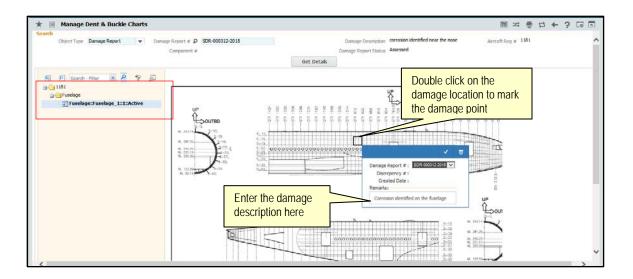
#### Exhibit: 21

## Manage Damage Charts

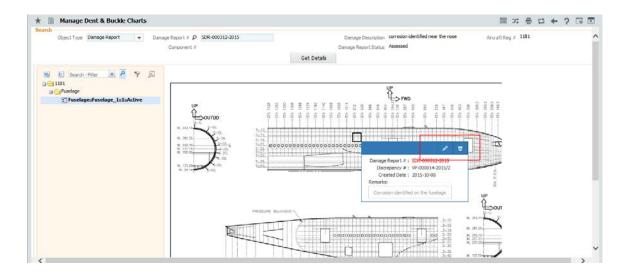
**Manage Damage Charts** is an interactive screen where one can mark and view the damage points of the selected charts for a specific Damage Report. For viewing the chart in this page one has to mark charts to be affected in the **Maintain Damage Report** screen while preparing the report. Listed below are the features available in the **Manage Damage Charts** 

Select the 'Object Type' and input value against the selected Object Type viz., Aircraft, Damage Report # or Component.

* In Manage Dent & Buckle Charts	III X e	11 4	- ?	63	K
Manage Deat & Buckle Charts           Search         Comport # P           Object Type         Comport # P           Original Report         Component #    Get D	Damage Description Aircraft Reg # Damage Report Status		- ?		2



- To mark a damage point, place the mouse pointer on the chart and drag the mouse pointer.
- Enter the damage description by selecting the SDIR # from the combo which is listed on the pop-up window.
- Click the Tick mark to save the entered damage details or click the Delete icon to delete the entered damage points.



- To edit a Damage Description, mouse over on a specific damage point click on the 'Pen' icon .
- To view the Charts applicable for the selected SDIR's, select the SDIR from the multiline and hit the Show button. The charts applicable for the SDIR's will be highlighted.
- Note: Only one damage point can be marked per chart for a SDIR.

### Exhibit: 22

#### Help On Damage Screen

Help screen basically helps the user to search for a specific Damage Report #. This screen filters the results based on the user's search criteria.

The user can filter the results based on the Damage Report #, Discrepancy #, Report Status, Object Type, Damage Type, Damage Part, Damage Location, ATA #, Work Area, Zone, From/To Date & Time, Chart Title and Category.

Primary Search Criteria Se	ction							
nage Report # Object Type		Select the Object		crepancy #		Report Status	▼ esh	]
Additional Se Dan Aircraft Mode Aircraft Reg # Part # From / To Da Component # Search Results Grid Section		Type for which th SDIR # is requir		Area	Dam	age Locati Zo Catego Ca	nfirmed sessed osed	¥ ¥
<ul> <li>1 -1/1 ▷ ▷</li> <li>Damage Report #</li> </ul>	Damage Description	Damage Part	Damage Location	🗶 🔝 🗒 Aircraft Reg #	Select the Report status by which the SDIR #'s to be filtered	ed	Component #	Pan

- Note: If no values are entered/selected in the search criteria the system will fetch all the Damage Report # irrespective of the filters.
  - Enter the From Date and To Date to fetch the records within the given date range.
  - If only From Date is entered and the To Date is left blank then the system will consider current date as to date and fetch all the records within the date range.
  - If only To Date is entered and the From Date is left blank then the system will fetch all the records applicable till the entered To Date.

Primary Search Criteria Se	ection							
age Report #			Di	screpancy #		Report Status	•	
Object Type	•							
dditional Search Criteria	Section							
Damage Type	T		Damage	e Part	v	Damage Location		T
ATA #			Work	Area		Zone		
From / To Date & Time	<b>1</b>		Chart	Title		Category		v
Search Results Grid Section					🕂 🗃 💷 🗛		▼	
Damage Report #	Damage Description	Damage Part	Damage Location	Aircraft Reg #	Aircraft Model #	ATA #	Component #	Pari

## Exhibit : 23

## Process Parameters for Dent and Buckle feature

This features behaves based on the below process parameters under Common Master Business Component.

-)-En	itity Details				
	Entity Type Discrepancy Managem	ent 🔻	Entity Damage Ins	spection Report 🛛 🔻	
	Record Status Active	P	rocess Parameters Defined? No		
- Pr	rocess Parameter List				
44	4 1 -17/17 → → + Ø Ø ▼ T <sub>x</sub>	, h ⊎ x		Ŧ	Q
#	Process Parameter	Permitted Values	Value	Status	Error Mess
1	Mandatory Damage Report requirement for Discrepancies?	Enter "0" for 'Major', "1" for 'Corrosion', "2" for 'Both', "3" for 'Either', "4" for 'No	3	Defined	
2	Allow damage report against regular Discrepancies?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
3	Allow actioning of Discrepancy prior to Damage Report Assessment?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
4	Allow Report generation for Discrepancy in Closed status?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
5	Allow Report generation for Discrepancy in Deferred status?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
6	Allow Report generation for Discrepancy without Exe. Doc. # reference?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
7	Auto closure of Assessed Damage Report on Primary Discrepancy closure?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
8	Allow cancellation of Tasks inserted from Damage Inspection Report?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
9	Allow modification of Damage Details of a Confirmed Damage Report?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
10	Allow modification of Damage/Assessment Details of an Assessed Damage	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
11	UOM for Damage Dimensions?	Enter a valid UOM from UOM Master	mm	Defined	
12	Allow Damage Report to be assessed by the Damage Reporter?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
13	Allow referencing of a "Fresh" EO in damage report before assessment?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
14	Allow chart updates before damage report confirmation?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
15	Show only the current damage on chart in Chart View page?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
16	Show only the current damage on chart on Damage Report print?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
17	Logic for Deriving Age of Aircraft/Component for Damage Inspection Report?	Enter "0" for 'Age of Aircraft/Component as of Reported date.', "1" for 'Age of	1	Defined	

## Process Parameter 1:

Set Process Paramete	r
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Mandatory Damage Report requirement for Discrepancies?
Permitted Values	Enter "0" for 'Major', "1" for 'Corrosion', "2" for 'Both', "3" for 'Either', "4" for 'No'
Default Value	3
System behaviour bas	sed on process parameter value
Value: 0(Major)	Mandates Damage Report generation for the Discrepancy for which the Major Item is set as Yes.
Value 1(Corrosion)	Mandates Damage Report generation for the Discrepancy for which the Corrosion Related is set as Yes.
	Mandates Damage Report generation for the Discrepancy for which the Corrosion Related is set as Yes or Major Item is set as
Value 2(Both)	Yes.
	Mandates Damage Report generation for the Discrepancy for which the Corrosion Related is set as Yes or Major Item is set as
Value 3(Either)	Yes.
Value 3(No)	Mandates Damage Report generation for the Discrepancy for which the Corrosion Related is set as No and Major Item is set as

## Process Parameter 2:

iet Process Parameter		
Entity Type	Discrepancy Management	
Entity	Damage Inspection Report	
Process Parameter	Allow damage report against regular Discrepancies?	
Permitted Values	Enter "0" for 'No', "1" for 'Yes'	
Default Value	0	
System behaviour ba	sed on process parameter value	
Value: 0(No)	Does not allow creation of Damage Reports against regular discrepancy.	
Value 1(Yes)	Allow creation of Damage Reports against regular discrepancy	

#### Process Parameter 3:

Set Process Paramete	r
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Allow actioning of Discrepancy prior to Damage Report Assessment?
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour bas	sed on process parameter value
Value: 0(No)	Does not allow action change of the discrepancy prior to Damage Report Assessment
Value 1(Yes)	Allows action change of the discrepancy prior to Damage Report Assessment

## Process Parameter 4:

Set Process Parameter			
Entity Type	Discrepancy Management		
Entity	Damage Inspection Report		
Process Parameter	Allow actioning of Discrepancy prior to Damage Report Assessment?		
Permitted Values	Enter "0" for 'No', "1" for 'Yes'		
Default Value	0		
System behaviour base	System behaviour based on process parameter value		
Value: 0(No)	Does not allow action change of the discrepancy prior to Damage Report Assessment		
Value 1(Yes)	Allows action change of the discrepancy prior to Damage Report Assessment		

## Process Parameter 5:

Set Process Paramete	r
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Allow Report generation for Discrepancy in Deferred status?
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour bas	sed on process parameter value
Value: 0(No)	Does not allow to generate Damage Report generation for Deferred discrepancy
Value 1(Yes)	Allows to generate Damage Report generation for Deferred discrepancy

#### Process Parameter 6:

Set Process Parameter				
Entity Type	Discrepancy Management			
Entity	Damage Inspection Report			
Process Parameter	Allow Report generation for Discrepancy without Exe. Doc. # reference?			
Permitted Values	Enter "0" for 'No', "1" for 'Yes'			
Default Value	0			
System behaviour base	System behaviour based on process parameter value			
Value: 0(No)	Do not allow to generate Damage Report generation for discrepancy without Exe Doc #			
Value 1(Yes)	Allows to generate Damage Report generation for Deferred discrepancy without Exe Doc #			

## Process Parameter 7:

Set Process Parameter			
Entity Type	Discrepancy Management		
Entity	Damage Inspection Report		
Process Parameter	Auto closure of Assessed Damage Report on Primary Discrepancy closure?		
Permitted Values	Enter "0" for 'No', "1" for 'Yes'		
Default Value	0		
System behaviour base	System behaviour based on process parameter value		
Value: 0(No)	Does not allow auto closure of Auto closure of Assessed damage report on primary discrepancy closure		
Value 1(Yes)	Allows auto closure of Auto closure of Assessed damage report on primary discrepancy closure		

## Process Parameter 8:

Set Process Parameter			
Entity Type	Discrepancy Management		
Entity	Damage Inspection Report		
Process Parameter	Allow cancellation of Tasks inserted from Damage Inspection Report?		
Permitted Values	Enter "O" for 'No', "1" for 'Yes'		
Default Value	0		
System behaviour base	System behaviour based on process parameter value		
Value: 0(No)	Does not allow cancellation of tasks which are inserted from Structural Damage Inspection Report		
Value 1(Yes)	Allows cancellation of tasks inserted from structuram damage inspection report		

## Process Parameter 9:

Set Process Paramete	r
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Allow modification of Damage Details of a Confirmed Damage Report?
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour bas	sed on process parameter value
Value: 0(No)	Does not allow modification of confirmed damage report
Value 1(Yes)	Allows modification of confirmed damage reports

#### Process Parameter 10:

Set Process Paramete	er
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Allow modification of Damage/Assessment Details of an Assessed Damage Report
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour ba	sed on process parameter value
Value: 0(No)	Does not allow modification of Assessed damage report
Value 1(Yes)	Allows modification of Assessed damage reports

#### Process Parameter 11:

Set Process Parameter	
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	UOM for Damage Dimensions?
Permitted Values	User entered UoM values
Default Value	Not Applicable

System behaviour based on process parameter value

## Process Parameter 12:

Discrepancy Management
Damage Inspection Report
Allow Damage Report to be assessed by the Damage Reporter?
Enter "0" for 'No', "1" for 'Yes'
0
ed on process parameter value
Does not allow the Damage reporter to assess the Damage Report
Allows the Damage Reporter to assess the Damage Report

## Process Parameter 13:

Set Process Paramete	er
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Allow referencing of a "Fresh" EO in damage report before assessment?
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour ba	sed on process parameter value
Value: 0(No)	Fresh EO referencing will not be allowed before the status of the SDIR changes to Assessed.
Value 1(Yes)	Fresh EO referencing will be allowed before assessing the SDIR.

## Process Parameter 14:

Set Process Paramete	r
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Allow chart updates before damage report confirmation?
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour bas	sed on process parameter value
Value: 0(No)	Does not allow the chart updates before confirming the Structural Damage Inspection Report.
Value 1(Yes)	Allows chart updates before confirming the Structural Damage Inspection Report

## Process Parameter 15:

Set Process Parameter	
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Show only the current damage on chart in Chart View page?
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour bas	ed on process parameter value
Value: 0(No)	Displays all the damage points marked on the charts
Value 1(Yes)	Shows only the current damage point marked on the charts

## Process Parameter 16:

Set Process Parameter	
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Show only the current damage on chart on Damage Report print?
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default Value	0
System behaviour base	ed on process parameter value
Value: 0(No)	Prints all the damage points on the charts
Value 1(Yes)	Prints only the current damage points on the charts

## Process Parameter 17:

Set Process Paramete	er
Entity Type	Discrepancy Management
Entity	Damage Inspection Report
Process Parameter	Logic for Deriving Age of Aircraft/Component for Damage Inspection Report?
Permitted Values	Enter "0" for 'Age of Aircraft/Component as of Reported date.', "1" for 'Age of Aircraft/Component as of Printed date.'
Default Value	0
System behaviour ba	sed on process parameter value
Value: 0(No)	Age of the Aircraft/Component will be derived as on the Damage Reported Date
Value 1(Yes)	Age of the Aircraft/Component will be derived as on Printed Date

(Jennet)

Note: This feature involves commercials and is not available for all customers. Please contact your Ramco Account Manager.

# WHAT'S NEW IN CERTIFICATE OF MAINTENANCE?

Ability to issue Certificate of Maintenance by validating the certificate mapping to Customer#, Part #, Task # and Employee & Improvement to the existing report formats to latest formats approved by Regulatory

Reference: AHBC-1850

## Background

In MRO scenarios, special validation is required to ensure that COM is issued only for customers who are eligible to receive the certificate. Similarly COM has to be issued only for valid parts and tasks. Also only valid employees having specific skills have to issue COM.

The existing COM reports for China and Thailand has been enhanced to meet with the latest China authority standards and Thailand authority standards respectively. New COM reports for Brazil and Japan are added to the product.

## **Change Details**

## 1. Manage Certificate Applicability

A new screen **Manage Certificate Applicability** is introduced in **Common Master** business component, where user can select the list of applicability for each certificate types. While issuing COM for the Certificate Type, then system will validate whether the Certificate is valid for the Part, Stock status, Customer and Task. System will also validate whether the login employee is capable of issuing the certificates. This validation can be enabled based on the process parameter settings.

## 2. Print multiple Certificate Types

When multiple Certificate Types are selected for printing, the system will print all the selected Certificates sequentially.

## 3. Issue Certificate of Maintenance per Lot # and to identify them with Mfr. Lot #

The system will issue Certificate of Maintenance based on Lot # and the respective Mfr. Lot # will be specified in the issued certificate.

## 1. Manage Certificate Applicability

Exhibit 1: New process parameter in Common Master

★ 📄 Set Process Parameters					
	Entity Type Shop Work Order Type Record Status Active	New Process Parameter	EntityAll Work On Process Parameters Defined? Yes	der 💌	
<ul> <li># Process Parameter √</li> <li>1 Validate Certificate Applicability before Iss</li> </ul>		Permitted Values Enter "0" for 'No', "1" for 'Yes'	Value	<i>Status</i> Defined	

If the Process Parameter 'Validate Certificate Applicability before Issuing COM' is set as '0' (No), then the system will not perform any validations while issuing the Certificate of Maintenance.

If the Process Parameter 'Validate Certificate Applicability before Issuing COM' is set as '1' (Yes), then on while issuing the Certificate of Maintenance, the validations will be performed for the applicability of the Certificate with the various Object types like Part #, Task #, Task Type, Stock Status, Repair Scheme #and Customer #, as defined in the **Manage Certificate Applicability** screen.

	Manage Certific	лес пррію	sincy.						р — ф	+
0	bject Type Part #	•	Regulatory	Authority ALL	roved By Manufacturer 🔎		Status			
rtificat	e Type 🔽 ALL 🔲	8130-3 🔲 BF	RAZIL-ANAC-Segvoo-003 🔲 C	hinese AAC- 085 🔲 JAP	AN-JCAB-FORM-18 🔲 Repair Station 8130-3 [	Thailand DCA	478-T 📃 EASA Form 1			
					Search					
		0.1								
Арр	olicability List Skill	Code								
44	< 1 - 8 / 8 < H	+-6	* T T.			2 🗎 🍽	# = III AI	Ŧ		
#	Object Type		Object # 🔎	Object Description	Certificate Type		Regulatory Authority		Appr	roved B
1	Part#	~	REL		8130-3	~	Brazil ANAC		✓ 0000	10
2	Part#	*	REL		8130-3	~	Brazil ANAC		*	
3	Part#	*	REL		8130-3	*	Brazil ANAC		•	
4	Part#		REL		8130-3	~	Brazil ANAC		¥	
5	Part#		REL		8130-3		Federal Aviation Administration		*	
6	Part#		REL		8130-3		Federal Aviation Administration		▼ 0000	0
7	Part#		REL		8130-3		Brazil ANAC		*	
8	Part#		0-0440-4-0011:36361		JAPAN-JCAB-FORM-18		General Authority of Civil Aviation		*	
9	Part#	*			8130-3	*	Brazil ANAC		*	
	<									

Exhibit 2: Manage Certificate Applicability screen

The **Applicability List** tab in the **Manage Certificate Applicability** screen facilitates defining various applicability of the Certificate with Object Type like Part #, Task #, Task Type, Stock Status, Repair Scheme # and Customer #. The **Manage Certificate Applicability** screen will be launched only if the process parameter 'Validate Certificate Applicability before Issuing COM' is set as '1' (Yes).

Apart from this, the Skill Code required for the various Certificate Types can also be defined in the **Skill Code** tab available in the **Manage Certificate Applicability** screen.

Note: 'Approved by Manufacturer' is to be selected only when the Object type is selected as 'Task #'.

	ertificates															[		F	¥
	Eligib	bility						v											
••	1 - 5 / 19	> > +	T Tx		<u>ه ۱۱</u>	x 🛛 🗎	224 III	44	4 1	- 5 / 1	1 🕨 🕨	+ 1	r T <sub>x</sub>			Ъ	e x	R	t
-	All DIO		•	Q				-		All		Ŧ			Q				
#	Certificate Type		Regd?					#	Certify	ing Authority	,		Re	eqd?					
1	8130-3							1	ASA							E	]		
2	AIR CARRIER 8130-3							2	Aveos							E	]		
3	ANAC-SEGVOO-003							3	CAAC							E	]		
4	As Per LaserFiche							4	CASE							E			
5	BRAZIL-ANAC-SEGVO	O-003						_	EU 10 00		ON SAFETY A	CENCY					1		
								5	EUROP	EAN AVIATIC	IN SALETTY	AGEINCT							
	ation Details	File Name 🎾		Uploa	d Documents	View Associat		chments	EUROP										
	ation Details Employee Code 👂	File Name <b>P</b>		Uploa	d Documents Employe	e Name SENEC		chments	EUROP		Yrimary Work	ccenter #		1-05					
	ation Details Employee Code <b>P</b> License #	File Name <b>9</b> 00041383 00041		Uploa	d Documents Employe Authoriz	e Name SENEC	HAL, DOMINI	chments IC	EUROP			ccenter #		1-05	•				
	ation Details Employee Code 👂	File Name <b>9</b> 00041383 00041		Uploa	d Documents Employe Authoriz	e Name SENEC	HAL, DOMINI	chments IC	EUROP		Yrimary Work	ccenter #		I-05	<b>•</b>				

#### Exhibit 3: Issue Certificates screen

In the **Issue Certificates** screen, when the Certificate details are saved, the system will validate the applicability of the Certificate with the various Object Types as defined in the **Manage Certificate Applicability** screen, if the Process Parameter 'Validate Certificate Applicability before Issuing COM' is set as '1' (Yes).

If the Process Parameter 'Validate Certificate Applicability before Issuing COM' is set as '0' (No), then the system does not validate the applicability.

## 2. Print multiple Certificate Types

If multiple 'Certificate Type' is selected then on clicking 'Approved & Print', all the certificates which are selected, will be printed sequentially.

## 3. Issue Certificate of Maintenance per Lot # & to identify them with Mfr. Lot #

The system will issue Certificate of Maintenance based on Lot # and the respective Mfr. Lot # will be specified in the issued certificate. The current certificate displays the system generated Lot # of the lots that were issued. The certificate will now display the Mfr. lot number to trace the parts correctly throughout the system and identify the parts as they move from warehouse to warehouse.

## WHAT'S NEW IN SHOP WORK ORDER?

# Ability to generate Material Request at Task level on release of Shop Work Order

Reference: AHBF-11968

## Background

This enhancement is about improvements in **Plan Work Order** screen of **Shop Work Order** business component to generate unique Material Request for each Executable Task in the Work Order.

## Change Details

A new Process Parameter 'Ability to generate Material Request at task level on release work order?' is defined in the **Define Process Entities** screen, for every user defined Shop Work Order Type. Based on the value set for this Process Parameter, Material Request is generated for each unique Planned Start Date / Time or for each executable Task in the respective Work Order.

### Exhibit 1: New Process Parameter

*	Ø	Set P	TOCI	ess P	aram	ete	95										10	2;
		Details							Entity	Type	91	op Work Order Type				Entty EWO		•
	oces	ss Paran	mete	r List					epord 1						Process	Parameters Defined? Yes		
•	4	1	+	1/1	[ 51 ]			8.	+ 0	e	τ	τ			ABBXE	New Dreeses		
	Pre	ocess Pa	rane	wΫ									Permitted Values			New Process		
1 2	Abi	Alty to ge										rik order?	Enter '0' for Not Requ	red, "1" for Requir <del>ed</del>		Parameter		

If the Process Parameter 'Auto MR Generation on Order Release' is set as 'Not Required', then separate material request will be generated for the tasks having the same Planned Start Date, and the Planned Start Date of the tasks will be updated as the Need Date of the material request generated.

If the Process Parameter 'Auto MR Generation on Order Release' is set as 'Required', then separate material request will be generated for each task in the Shop Work Order and Planned Start Sate of the task will be updated as the Need Date of the material request generated.

Note: When the Planned Start Date / Time for Tasks is lesser than the current date, on the release of Work Order, the system will update the Need date as current date.

# Provision to Add Standard Repair Task Automatically During Shop Work Order Creation

Reference: AHBF-12028

## Background

This enhancement provides the ability to add standard tasks like refurbishment, bushing, automatically for appropriate parts while creating work order in **Plan Work Order** screen of **Shop Work Order** business component.

## **Change Details**

**Maintain Maintenance Info for Part** screen is enhanced to facilitate definition of Standard Repair Task for parts.

A new set option 'Allow automatic addition of Std. Repair Task on SWO Generation' is added in the **Set Process Parameters** screen under the Entity Type 'Shop Work Order' under all user-defined Shop Work Order Types to configure the automatic addition of Standard Task. The following options can be set for the parameter:

- '0' for 'Not Required'
- '1' for 'Internal Parts'
- '2' for 'All Parts'

By default the option is set as '0'.

Exhibit 1: Maintain Maintenance Info. for Part

★ 📄 Maintain Maintenance I	Info. for Part				
Part Identification Details					~
Part #	0-0511-3-0001:99DND	Part Description	HYDRO FILTER COUPLING	Status	Active 🔻
Base Part #	0-0511-3-0001:99DND	Mod Status #		Component ID Numbering Type	C
Component ID Generation  Part Classification Details	Auto 💌				
Part Model # 👂	Get Details	Component Type	Others 💌	Part Classification	Rotable
Config. Control Basis	Config. Rules 💌	ATA # 👂	29-10	LLP?	No 🔻
Maintenance Process	On-Condition 💌	Replacement Type	LRU 🔻	PMA?	No 💌
OEM Part # 👂					
	Component Category 🔲 Cargo	MEL MEL			
	RVSM	ETOPS			
Operational Details					
Planner Code 👂	00041383	Planner Name	SENECHAL, DOMINIC	Planning Base	RAMCO OU 🔻
Default Maint Base	RAMCO OU 🔻	Maint. / Resp. Work Center #	YUL-100-00 🔻	Work Center Description	ARTOS - PROJECT ADMIN
Std. Repair Task # 👂	Tsk-12-ABC	Std Dopair Tack	<b>•</b> #	Preferred Repair Agency 👂	
Phase-out Policy	All Work Centers 🔹	Std. Repair Task	(#	SOS Applicability	Not Applicable
Default Exec.Doc for Int.Repair Routing	CW( 💌	TAT(Days)		Consolidate Exec. Order?	No 💌
Daily Usage Details					
Lead Parameter	۹ (	Average Da	aily Utilization		

A new control 'Std. Repair Task #' is added to the **Maintain Maintenance Info. for Part** screen in **Part Administration** business component.

- Note: The Help icon near the Std. Repair Task# control can be used to select the desired Repair Task #.
- When the Std. Repair Task # is defined while updating the Part information for the selected Part, the system will check if it is valid and active Task #. The Task # should be effective for the Part #.

Exhibit 2: View Maintenance Info. for Part

★ 🏢 View Maintenance Info. for Part				4	<b>+</b> ?	0	к
Part Identification Details							^
Part #	0-0511-3-0001:99DND	Status	Active				
Part Description	HYDRO FILTER COUPLING						
Base Part #	0-0511-3-0001:99DND	Mod Status #					
Component ID Generation	Auto	Component ID Numbering Type	С				
Part Classification Details							- 11
Part Model #		Component Type					
Part Classification			29-10				
Config. Control Basis	Config. Rules	LLP?	No				
Maintenance Process	On-Condition	Replacement Type	LRU				
PMA?	No	OEM Part #					
Cargo	No	RVSM	No				
MEL	No	ETOPS	No				
Operational Details							
Planning Base		Default Maint Base					
Maint. / Resp. Work Center #	YUL-100-00	Work Center Description	ARTOS - PROJECT ADMIN				
Planner Code	00041383	Planner Name	SENECHAL, DOMINIC				
Std. Repair Task #	Tsk-12-ABC Std. Repair Task#	Execution Facility	In-house				
Preferred Repair Agency		Phase-out Policy	All Work Centers				
Lower Landing Minimum		SOS Applicability	Not Applicable				
TAT(Days)		Default Exec.Doc for Int.Repair Routing	CWO				
Consolidate Exec. Order?	No						

A new display only control 'Std. Repair Task #' is added to the **View Maintenance Info. For Part** screen in **Part Administration** component.

Note: The Display Only 'Std. Repair Task #' will display the Std. Repair Task # if defined for the Part #.

## Exhibit 3:

	Entity Type Shop Work Order Type	<b>•</b>		Entity CWO	<b>•</b>	
	Record Status Active		Process Paran	neters Defined? Yes		
Process Parameter List						
4 29 - 53 / 53 🕨 🗰	+ 0 0 T T.			X2 👎 🖶 💷 🗛	<b>▼</b>	ρ
# Process Parameter		Permitted Values	Valu	e Status	Error Me	ess
9 Default Sign-Off requirement	for Non-Routines ?	Enter "0" for 'Mechanic' , "1" for 'Mechanic & Inspector', "2" for	'Inspector', "3" 3	Defined	ł	
0 Enforce Sign-Off ?		Enter "0" for 'No' , "1" for 'Yes'	0	Defined	i i	
1 Permit Dual Sign-off by the em	iployee ?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	ł	
2 Allow reporting by different er	nployee?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	ł	
3 Allow Task Reporting by ?		Enter "0" for 'All Employee' , "1" for 'Assigned Employee'	0	Defined	ł	
4 Ref. Date for Compliance ?		Enter "0" for 'Start date' , "1" for 'Task Completion date' , "2" for	r 'CoM Date'. 1	Defined	ł	
5 Backdated reporting Time Limit	t (in days)	Enter a positive integer	300	Defined	ł	
6 Assembly status check on atta	ichment ?	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	ł	
7 Acknowledge Receipt		Enter "0" for 'Manual' , "1" for 'Automatic'	1	Defined	ł	
8 Allow modification of Task Sign	-Off requirements	Enter "0" for 'Not Allowed', "1" for 'Allowed for Routine tasks', "	2" for 'Allowed for 2	Defined	ł	
9 Allow re-opening of completed	orders / tasks?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	ł	
0 Allow reporting on completed	orders / tasks?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	ł	
1 Allow time reporting on discrep	pancies?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	0	Defined	ł	
2 Allow discrepancy closure with	open service request?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	0	Defined	ł	
Allow receipt to different work	center?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	i	
4 Material Movement Document	Print on Requistion from Planner	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined	i i	
5 Default Shop Work Order Type	e for Auto generated Project work orders?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	<u> </u>	
6 Default Shop Work Order Type	e for Auto generated Miscellaneous work orders?	Enter "0" for 'No', "1" for 'Yes'	1	New Process Paran	meter	
7 Enforce Ref. doc. # for CoM		Enter "0" for 'Non-mandatory' , "1" for 'Mandatory'	0			
8 Allow direct part consumption	?	Enter "0" for 'Not Required' , "1" for 'Required'	1	Defined		
9 Ability to generate Material Re	quest at task level on release work order?	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	1	

If the Process Parameter 'Allow automatic addition of Std. Repair Task on SWO Generation' is set as 'Not Required', then the system will exhibit the existing behavior of Shop Work Order generation (i.e.,) even though Std. Repair Task # has been defined for the Part #, the system will not automatically add the defined Task # when the Shop Work Order is generated for that Part #.

If the Process Parameter 'Allow automatic addition of Std. Repair Task on SWO Generation' set as 'Internal Parts', then throughout the system (RSED, Plan Work Order, AME, GI, CO etc.) whenever a Shop Work Order is generated for the Part # and the Part # is an 'Internal Part' the system will check whether Std. Repair Task # is defined for the Part #. If defined, the system will automatically add the Std. Repair Task # to the Work Order of the Part # during the Shop Work Order Generation process.

If the Process Parameter 'Allow automatic addition of Std. Repair Task on SWO Generation' set as 'All Parts', then throughout the system (RSED, Plan Work Order, AME, GI, CO etc) whenever a Shop Work Order is generated for the Part # the system will check whether Std. Repair Task # is defined for the Part #. If defined, the system will automatically add the Std. Repair Task # to the Work Order of the Part # during the Shop Work Order Generation process.

- Note: The following are applicable for process parameter set as 'Internal Part' and 'All Parts'.
  - a. The System will check the effectivity of the Task # on Shop Work Order generation. If not effective, it will not be added in the Work Order.
  - b. If the Std. Repair Task is having Concurrent relationship with other tasks, on SWO generation the active related task will also get automatically added to the Work Order.
  - c. If the Std. Repair Task is a Workscoping task and it has Repair Scheme definitions (like intermediate and Operations Task defined under the PME), on SWO generation all active operation task under the workscoping will get added to the Work Order.
  - d. If the Part # is of Component Type and the Component have program; In the Program if there are perpetual tasks and the Perpetual task and the Std. Repair Task defined for the Part # are same; On SWO generation the system will not duplicate the Task in the Work Order.

# Ability to default Repair Receipt warehouse during Move to work center scenarios

Reference: AHBF-11681

### Background

The **Shop Work Order** module offers MRO the ability to route parts for external repair in case of capability shortage in their execution facility. During repair receipt, users do have provision of issuing part back to the work center in order to perform remaining jobs.

Currently in this scenario, i.e. Move to work center after external repair, system move parts either via Service Request Warehouse or U/S Receiving Warehouse based on main core conditions. But due to other weighted average effective parts in same warehouses,

- Cost which are not related to the Repair Order is getting charged to the SWO, and
- Also it changes the weighted average on the parts in inventory.

### Change Details

New warehouse 'Repair Receipt Warehouse #' has been introduced in the Associate Warehouses screen of the Associate Work Center Attributes activity of the Work Center business component.

Exhibit 1: 'Repair Receipt Warehouse #' introduced in Associate Warehouses screen

-Wo	rk C	enter Details								
			Work Center	# YUL-110-30				Work Center Type Shop		
			Work Center Descriptio	AUTOMATIC TEST EQUIPMEN	π					
		ouse Details								
1	1	1 -7/7 🕨 🗰	+ - 0 % T T.				と目の	IX 준 首 와 후 후 때	Al	
		Part Type	U/S Ret. Warehouse # 🔎	Ext. Repair Warehouse # 🔎	Cust. U/S Shipping Warehouse # ${\cal P}$	Cust. Serv. Shipping Wareh	ouse # 🔎	U/S Receiving Warehouse # 🔎	Scrap Warehouse # 🖇	Repair Receipt Warehouse # 🖇
		Component	YULES	YULES	YULES	YULES		YULES	YULES	RRWH
		Consumable	YULCS		YULCSOUTUS	YULCSOUTSV		YULCSREC		RRWH
		Kit	YULCSREC	YULCSREC	YULCSREC	YULCSREC		YULCSREC	YULCSREC	RRWH
		Miscellaneous	YULCSREC	YULCSREC	YULCSREC	YULCSREC		YULCSREC	YULCSREC	RRWH
		Raw Material	YULCS		YULCSOUTUS	YULCSOUTSV		YULCSREC		RRWH
		Expendable	YULCS		YULCSOUTUS	YULCSOUTSV		YULCSREC		RRWH
		Tool	YULCSREC	YULCSREC	YULCSREC	YULCSREC		YULCSREC	YULCSREC	RRWH
		<								
					Associate	Warehouses				
					Associate	Warehouses				

During external routing with Final Disposition set as 'Move to Work center' in Shop Work Order, system defaults 'Receiving Warehouse #' of Repair Receipt as Repair Receipt Warehouse mapped to Primary Work center of the respective Shop Work Order.

**Exhibit 2:** Repair Receipt warehouse defaulted in 'Receiving Warehouse #' of Repair Receipt transaction (with 'Move To' set as 'Work Center')

★ 🗎 Manage Goods Receipt					저 볼 다	+? 🗔 🗷
Select Ref. Doc. # / Receipt #						
Ref. Document # P ROR-000162-2015 Repair Rece	pt 🔻 Go					1.1
Receipt Details						
+ Receipt Info.						
Received At	Received From			Ref. Doc. Info.		
Receiving Location	5	Supplier # 👂 00000	View	Ref. Doc. # 👂	AFRO-002852-2	2015 View
Receiving Warehouse # RRWH 💌	0.	ustomer # P	View	Ref. Doc. Type	Repair Order	
Receiving Area	Supplier / Cu	stomer Name Supplier 2		Ref. Doc. Sub Type	Normal	
+ Other Info						
Additional Details						
Part Details Serial/Lot Details Work Requested - Customer Parts	s Supplementary Info Mo	ovement Details Reports				
	Supplementary into Mo					
$\underbrace{4}_{4} \underbrace{1}_{5} \underbrace{-1/1}_{5} \underbrace{5}_{5} \underbrace{7}_{5} \underbrace{7}_{5}$					<b>T</b>	Q
# NAT INS PCT HAZ STK Received Part # P	Part Description	Material Type	Stock Status		# 🎗 🛛 Bin # 🖓	Quarantined?
	BOLT 3/8" X 15 I CUTTER	Regular Regular	<ul> <li>Accepted</li> </ul>	✓ RRWH		6
	<					>
Get Storage Info.	R	Record/Update Receipt				
View Alternate Parts						
Update Inspection Move Parts Confir	m Receipt	Cancel I	Receipt	Reverse Rec	eipt	
Record Additional Receipt Info						
+ View Records						
Record Statistics						

Note: Currently, the system considers either 'Serv. Request Warehouse #' or 'U/S Receiving Warehouse' during 'Move to Work Center' scenario. System will still consider 'Serv. Request Warehouse #' or 'U/S Receiving Warehouse' if Repair Receipt Warehouse # is not defined for the Work Center.

# Usability Improvements in Planning and Execution screens of Shop Work Order

Reference: AHBF-10870

### Background

Planning and Execution screens of **Shop Work Order** business component should be capable of setting organization preferred Search Criteria. Pre-setting the Search Criteria could help organization improve their workflow during Planning and Execution phases of Shop maintenance activities.

### **Change Details**

New process parameter introduced in the **Define Process Entities** of **Common Master** business component, that governs defaulting of 'Search On' in **Shop Work Order** screens. This facilitates user to directly search Work Orders with preferred details.

Set Process Parameter (	Common Master)
Entity Type	Shop Work Order Type
Entity	'All Work Order—'
Process Parameter	"Default Search On in Search criteria of Plan Work Order and Record Shop Execution Details"
Permitted Values	Enter "0" for 'Part # / Serial #', "1" for 'Component #', "2" for 'Shop Work Order #', "3" for 'Customer #', "4" for 'Customer Order #'
Default value	0 (Part # / Serial #)
System behavior based	on process parameter value

Above process parameter will govern value defaulted in 'Search On' of following screens during screen launch:

1) Plan Work Order

2) Record Shop Execution Details

'Search On' in above screens will be defaulted with following values based on value set in permitted values:

- 1) Part # / Serial # (Permitted Value = 0)
- 2) Component # (Permitted Value = 1)
- 3) Shop Work Order # (Permitted Value = 2)
- 4) Customer # (Permitted Value = 3)
- 5) Customer Order # (Permitted Value = 4)

Exhibit 1: Newly added process parameter in Set Process Parameter screen

i i -17/17 ≥ ≫ + 0 0 T T,		EA II ₩ ₩ XA	Y	0
Process Parameter	Permitted Values	Value	Status	Error Mess
Default Context Date?	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	
Planning Horizon (Days)?	Enter a Positive Integer	120	Defined	
Employee Time Sheet Update Mode	Enter "U" for 'Clock' , "1" for 'Manual' , "2" for 'Clock & Manual'	2	Defined	
Authorization of Timesheet Records	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	
Allow Modification of authorized time sheets	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
Enable check for parts pending for return on Order completion?	Enter "0" for 'No' , "1" for 'Yes'.	1	Defined	
Print TSO and TT in COM	Enter "0" for "No', "1" for 'Yes'.	0	Defined	
Allow Issue of Serviceable parts having Over-Due / Retirement Tasks ?	Enter "0" for "Not Allowed", "1" for "Allowed"	0	Defined	
Allow order generation during removal on Work Center / Repair Agency different	Enter "0" for "Not Allowed" and "1" for "Allowed"	0	Defined	
Print Employee Name in FAA 8130-3 Report	Enter "0" for 'No',"1" for 'Yes'	0	Defined	
Print European Standard Text in FAA 8130-3 Report	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
Task Card Print Format	Enter "0" for 'Operator' or Enter "1" for MRO.'	0	Defined	
Default Report Findings Details	Enter "0" for for 'Observation', "1" for 'Discrepancy'	0	Defined	
Auto-populate task details in work actual tab on search	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
Display warring message during pre-closure of tasks having part consumption?	Enter '0' for 'No", '1' for 'Yes"	0	Defined	
Include alternate parts and stock statuses for display of Available Oty?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	-
Default Search On in Search criteria of Plan Work Order and Record Shop Execution	Enter "0" for 'Part # / Serial #', "1" for 'Component #', "2" for 'Shop Work Order	0	Defined	

Newly added process parameter that governs defaulting Search On in Shop Work Order screen Exhibit 2: 'Search On' combo defaulted based on Process Parameter in Plan Work Order

★ 📄 Plan Work Order					? 🗔 🕻
Search Criteria					
Search On Shop Work Order #	Ge	t			
By Status					
Work Order K Order Tasks Due List	Order Details Order Execution Details	Part Disposition & Movement Details	Reference Details Contract Terms & Conditions	Removal & Warranty Details	
	SWO #	Order Description	Or	rder Status	
	Job Type Engine	<ul> <li>Primary Work Center #</li> </ul>	YUL-100-01 💌	Event #	
Search On' combo defa 'Shop Work Order #' on launch of Plan Work Ord	I SCIEEN omponent #	Serial # 🌶 Multiple Cores? Part De	No v Main Co	ore Status Operator #	
+ Important Dates	Workscoping Status Initial Comments	Revision # Shop Visit Count		n Revision 🔍	
Links	- Repair Details				
Edit Work Estimates Update / Split Main Cores	Repair Process Code	▼ Repair Classific	v Work	< Requested	
Record Shop Execution Details Print Routing Slip					
Record Additional Charges on Order					
Generate Sub-Work Order	Filter Criteria				

## **Enhancement in Issue Certificates**

Reference: AHBF-7961

## Background

This enhancement facilitates user to retrieve Facility Object while issuing Certificate of Calibration.

## **Change Details**

The 'Facility Object #' field in the **Certificate of Calibration** tab in the **Issue Certificates screen** is now equipped with the 'Help on Facility Object'. Now Facility Object details can be retrieved easily while issuing Certificate of Calibration.

Exhibit 1: Facility Object # is equipped with 'Help on Facility Object'

Issue Certificates				= * 특	4 4	?	C
Part Id Tag Certificate of Maintenance	e Certificate of Conformity Certificate of	Calibration					
- Select Action							
Create Certificate Reprint Certificat	e   Replace Certificate						
	Reference Type Certificate # 👻	Reference # COC-000015-2013 Q	Get Details				
+ Issue Details			an a				
Main Core Details							
Reference Details							
and the second second							
Calibration Information							
Environmental Conditions							
Shop Findings							
Measurement Standards Used							
44 4 1 -1/1 <b>3 3</b> +		1. In 17		-		Q	
# E Facility Object # D	Description Cal Date	Cal.Due Date		1.51.		-	
1 🖪 A5349	Auxiliary Power Trolly 10/04/2015	10/05/2015				-	
2 10							
Document Attachment Details	Help on Facility Object						
+ Authorization Details							
Save	Preview	Approved & Print		Cancel			
Created by DMUS		Modified by DMUSER	Approved	d by			
Created Date 10/02	7/2015 12:37:58	Modified Date 10/07/2015 12:38:34	Approved D	late			

Note: This enhancement retains the capability of issuing Certificate of Calibration for Facility Objects that are not registered in Ramco's Facility Management module.

## Ability to print consolidated Part Tags in Shop Work Order

Reference: AHBF-10008

## Background

**Record Shop Execution Details** screen of **Shop Work Order** business component owns the capability of dispositioning multiple parts in one shot. Whereas, it should also possess capability of printing consolidated Part Tags for multiple removals at one stroke.

### **Change Details**

This enhancement enables user to print consolidated Part Tag reports for multiple part removals against a Shop Work Order. Earlier, Part Tag printing was restricted to only one removal transaction. Now, you can select multiple removal transactions in the multiline and print Part Tags.

**Exhibit 1:** Enhanced Record Shop Execution Details screen with consolidated Part Tag printing

	on Details					🗐 그녀 🖶	
Search							
Search On Part # / Serial #	V	Get		Date & Time			
	Work Actual Report Findings	Disassemble & Assemble 0	Core Initial Workscoping	Material Request			
1 🕞 😿 🕅 🖼 🗉 Search - Fi 🚽 😋 ShopWorkOrder	Execution Details						
😑 😋 AWO-000020-2015	SWO # AWO	AWO-000020-2	015	Event # AWO-000020-2	2015 Primary	Work Center YVR-110-30	
	Status In-Progre	255		Job Type Piece Part			
No Records foun	+ Main Core Details						
Piece Parts CWO-008643-2015							
0-0440-4-0011:363	+ Customer Order Details						
PS2 :: 10-614	- Replacement Details						
PS3 :: 10-617		0.0045	_				
😑 🔄 CWO-008681-2015	Restoration Task # 👂 NST-0029			eason	*		
🖃 😋 0-0050845-0:5N982		Action O Disassembly Assem	bly 🔘 Disassembly & Assembly 🤅	View			
No Records foun	+ Search						
	- Part Details						
	art becais						
<	<b>44 4 1</b> −2/2 <b>&gt; &gt;</b>	+ - 0 % 0 C T	т. 📕 🖬 🖾	C 🗎 🍽 🗳 📕 🖷	DIIO AII	T	5
Links	4 # Ø OffPart # ₽	Off Serial # 🔎 Off Co	omp. # 🔎 Initial Dispos	tion	Std. Exch.?	Removal Qty. Group ID	٦.
	4 # ♥ Off Part # ₽ 1 ♥ 0-0440-4-0001:36361		omp. # P Initial Dispos 197-2014 1-REPAIR		Std. Exch.?	Removal Qty. Group ID	
ecord Missing Parts List		2 C0021		•			
ecord Missing Parts List ecord Part Deviation List ecord Parameter Reading	1 0-0440-4-0001:36361	2 C0021	197-2014 1-REPAIR	•	No	1	
cord Missing Parts List cord Part Deviation List cord Parameter Reading ute Parts	1 0-0440-4-0001:36361	2 C0021	197-2014 1-REPAIR	•	No	1	
coord Missing Parts List scord Part Deviation List scord Parameter Reading oute Parts scord Part Consumption	1 V 0-0440-4-0001:36361 2 V 0-0440-4-0001:36361	2 C0021 15 C0000	197-2014 1-REPAIR 101-2013 1-REPAIR	•	No	1	
ecord Missing Parts List ecord Part Deviation List ecord Part Deviation List ecord Parameter Reading oute Parts ecord Part Consumption ack Response	1 7 0 0-0440-4-0001:36361 2 7 0 0-0440-4-0001:36361	2 COO21 15 COOOC	197-2014 1-REPAIR 101-2013 1-REPAIR	•	No	1	
cord Missing Parts List cord Part Deviation List cord Part Deviation List cord Parts cord Part Consumption ack Response unage Teardown Information	1 7 0 0-0440-4-0001:36361 2 7 0 0-0440-4-0001:36361	2 COO21 15 COOOC	197-2014 1-REPAIR 101-2013 1-REPAIR	•	No	1	
coord Missing Parts List scord Part Deviation List scord Parta Deviation List scord Parter Reading suite Parts scord Part Consumption ack Response anage Teardown Information scord Part # / Serial # Change	1 7 0 0-0440-4-0001:36361 2 7 0 0-0440-4-0001:36361	2 C0021 15 C0000	197-2014 1-REPAIR 101-2013 1-REPAIR	•	No	1	>
cord Missing Parts List cord Part Deviation List cord Part Deviation List cord Parts cord Part Consumption ack Response unage Teardown Information cord Part # / Serial # Change it Work Estimates	1 V 0-0440-4-0001:36361 2 V 0-0440-4-0001:36361	2 COO21 15 COOOC	97-2014 1.REPAIR 101-2013 1.REPAIR	•	No No	1	
cord Missing Parts List coord Part Deviation List coord Part Deviation List coord Parts coord Parts coord Part Consumption ack Response nange Teardown Information coord Part # / Serial # Change it Work Estimates cdate / Split Main Cores	1 VO1440-4-0001:36361 2 VO1440-4-0001:36361	2 coo21 15 cooor Consolidated Part Ta print at one stroke	97-2014 1.REPAIR 101-2013 1.REPAIR	~	No No Routing Details	1	
ecord Missing Parts List ecord Part Deviation List ecord Part Deviation List ecord Parts ecord Parts ecord Part Consumption ack Response anage Teardown Information ecord Part # / Serial # Change dit Work Estimates pdate / Spit Main Cores an Work Order	1 V 0-0440-4-0001:36361 2 V 0-0440-4-0001:36361 2 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 2 V 0-0400-4-0001:36361 2 V 0-0400-4-0001:36561 2 V 0-0400-4-0001:36561 2 V 0-0400-4-0001:36561 2 V 0-0400-4-0001 2 V 0-0400-4-0001 2 V 0-0400-4-0001 2 V 0-0400-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-000-400-400-400-400-400-400-400-400-400-400-400-400-4	2 coo21 15 coood Consolidated Part Ta print at one stroke	197-2014 1.REPAIR 101-2013 1.REPAIR 10 10 10 10 10 10 10 10 10 10 10 10 10	v	No No Routing Details Re-print Rout	1 1 1	
ecord Missing Parts List ecord Part Deviation List ecord Part Deviation List ecord Parts ecord Part Consumption rack Response anage Teardown Information aerord Part # / Serial # Change dit Work Estimates potate / Spilt Main Cores an Work Order enerate Sub-Work Order	1 0-0440-40001:36361 2 0-0440-40001:36361 2 0-0440-40001:36361 0-0440-40001:36361 1 0-0440-40001:36361 1 0-0440-40001 1 0-0440-40001 1 0-0440-40001 1 0-0440-40001 1 0-0440-4000 1 0-0400 1 0-04	2 Consolidated Part Ta print at one stroke	97-2014 1.REPAIR 101-2013 1.REPAIR 10 Location emoved Part Attach/ Re ty Cre	~	No No Routing Details Re-print Rout	1	
Links ecord Missing Parts List ecord Part Deviation List ecord Part Deviation List ecord Part Consumption rack Response lanage Teardown Information ecord Part # / Senal # Change dit Work Estimates potat/ Split Main Cores lan Work Order ienerate Sub-Work Order lanage Work Assignments and Rep	1 V 0-0440-4-0001:36361 2 V 0-0440-4-0001:36361 2 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 4 V 0-0440-4-0001:36361 2 V 0-0400-4-0001:36361 2 V 0-0400-4-0001:36561 2 V 0-0400-4-0001:36561 2 V 0-0400-4-0001:36561 2 V 0-0400-4-0001 2 V 0-0400-4-0001 2 V 0-0400-4-0001 2 V 0-0400-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-0000-4-000-400-400-400-400-400-400-400-400-400-400-400-400-4	2 coo21 15 coood Consolidated Part Ta print at one stroke	97-2014 1.REPAIR 101-2013 1.REPAIR 10 Location emoved Part Attach/ Re ty Cre	v	No No Routing Details Re-print Rout	1 1 1	

## WHAT'S NEW IN COMPLIANCE?

## **Component Condition update during Compliance of Retirement Task**

Reference: AHBF-12727

## Background

This enhancement brings the ability to update the Component Condition as 'Phased Out' during compliance of the Retirement Tasks from **Initialize Maint. Prog. & Update Compliance** screen of **Compliance Tracking & Control** business component.

### Change Details

When the Set Option 'Update component condition change on task compliance from Initialize Maint. Prog. & Update Compliance?' in the **Set Process Parameters** screen under the Entity Type 'Tech Records Process Ctrl' and Entity 'Compliance' is set as 'Yes' then the following actions are executed:

- Task with Maintenance Type "Retire" is performed and if the component is not attached in Aircraft / Next Higher assembly then the Component Condition is changed as "Phased Out' and Component Status is updated as "Inactive".
- When the Shop Work Order status is changed to "Completed" and for the selected Repair Process Code if the Maintenance Type is selected as 'Retire' in Logistic Common Master business component, then the component condition is updated as "Phased Out" and the Component status is updated as "Inactive".

Exhibit 1: Process Parameter set as 'No'

🖈 🗎 Set Process Parameters			= ≍ = ₽ ← ?	Ľø.
- Entity Details				
Entity Type Tech Records Process Ctrl	<b>•</b>	Entity Compliance	•	
Record Status Active		Process Parameters Defined?		
Process Parameter List		Process Parameter se	at as "No"	
H + 1 -2/2 → → + ☆ ☆ T T <sub>x</sub>	<u>ل</u> بر			Q
t Process Parameter	Permitted Values	Talue	Status	
Default view in Initialize Maint. Prog. & Update Compliance	Enter "0" for 'Compact View', "1" for 'Detailed Vie	ew' 0	Defined	
Update component condition change on task compliance from Initialize Maint. Prog. & Update Comp	pliance? Enter "0" for 'No', "1" for 'Yes'	0	Defined	
3				_

When the Process Parameter 'Update component condition change on task compliance from Initialize Maint. Prog. & Update Compliance?' in the **Set Process Parameters** screen is set as 'No' then on compliance of 'Retire' Task, the Component Condition remains unchanged.

Exhibit 2: Process parameter set as 'Yes'

		Set Process Parameters					_
*				== <i>I</i> .;		P Lø	ĸ
-	)- Ent	tity Details					-
		Entity Type Tech Records Process Ctrl	<b>T</b>	Entity Compliance	Ŧ		
		Record Status Active	Proc	ocess Parameters Defined 2			
	)- Pro	ocess Parameter List		Process Parameter set as "	Voc"		- 11
	•	1 -2/2 · ··· + O C Y T			163	Q	
4		Process Parameter	Permitted Values		Status		
1		Default view in Initialize Maint. Prog. & Update Compliance	Enter "0" for 'Compact View', "1" for 'Detailed View'	0	Defined		
2		Update component condition change on task compliance from Initialize Maint. Prog. & Update Compliance?	Enter "0" for 'No', "1" for 'Yes'	1	Defined		
3							

When the Process Parameter 'Update component condition change on task compliance from Initialize Maint. Prog. & Update Compliance?' is set as 'Yes' then the following actions are executed:

- In Initialize Maint. Prog. & Update Compliance screen, Compliance of task with Maintenance Type "Retire" is performed and if the Component is not attached in Aircraft / Next Higher assembly then the Component Condition is changed to 'Phased Out' and the Component Status is updated as "Inactive".
- When the Shop Work Order status is getting changed to "Completed" and selected Repair Process Code's Maintenance type is selected as "Retire" in Maintain Repair Process Code activity of the Logistic Common Master then component condition is updated as "Phased Out" and Component status is updated as "Inactive".
- Note: For Component on which the retirement task is complied, the following must be ensured:
  - i. The Component must not be attached to Aircraft
  - *ii.* The Component must not be attached to another Component Assembly
  - iii. No Open transaction should exist for the Component

## WHAT'S NEW IN AIRCRAFT MAINTENANCE EXECUTION?

## Usability Improvements in Record Part Consumption & Return Screen

Reference: AHBF-11760

## Background

This enhancement brings the ability to return additional cores without recording a component removal transaction in **Record Part Consumption & Return screen** of **Aircraft Maintenance Execution** business component.

## Change Details

- A new Process Parameter 'Allow additional Core Return?' is added in the Set Process Parameters screen under the Entity type 'Package Type' with the following permitted values:
  - '0' for 'Not Allowed'
  - '1' for 'Components'
  - '2' for 'Non Components'
  - '3' for 'All Parts'

By default the option is set as '0'.

- Search option in Record Part Consumption & Return screen is modified to retrieve parts with No Issue reference number and No Component Replacement reference number.
- The Multiline in Return Core tab of Record Part Consumption & Return screen is modified to support addition of new Part # to be returned without Issue reference and Component Replacement reference.

**Exhibit 1:** New Process Parameter 'Allow additional Core Return?' in Define Process Entities

k [	Set Process Parameters		티 그	⇒ ← ? 🗔
En	tity Details			
	Entity Type Package Type	Entity Line Package	•	
	Record Status Active	Process Parameters Defined? Yes		
-) Pr	ocess Parameter List			
44	( 51 - 64 / 64 ) » + Ø 🔅 T T,		T	Q
#	Process Parameter	Permitted Values	Value	Status
51	Mandate Source Document details on Discrepancy reporting?	Enter "0" for 'Not Required', "1" for 'Required for PIREP, MIREP and Cabin Discrepancies', "2"	0	Defined
52	Allow Component Replacement transaction for Component Part with Object Type selection other than 'Component'?	Enter "0" for 'Not Allowed' , "1" for 'Allowed for All Components', "2" for 'Allowed only for Non-	1	Defined
53	Allow Component Replacement transaction for Object Type other than Component with availability of Part - Serial in	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined
54	Mandate completion of related Discrepancies before closure of Inspection Tasks?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined
55	Allow reporting discrepancy against tasks in Completed, In-Complete, Closed, Pre-Closed, Cancelled or Duplicate	Enter "0" for 'No' , "1" for 'Yes'	0	Defined
56	Allow direct part consumption ?	Enter "0" for 'No', "1" for 'Yes'	1	Defined
57	Default Record Direct Part Consumption tab in Record Part Consumption & Return page?	Enter "0" for 'No' and "1" for 'Yes'	1	Defined
58	Auto Return of Parts on Removal	Enter "0" for "Not Required" and "1" for "Require New Process Parame	tor	Defined
59	Allow Aircraft Reg. # change after package creation?	Enter "0" for 'No' , "1" for Yes' INEW PIOCESS Palante	elei	Defined
60	Mandate Journey Log Reference on Package Closure?	Enter "0" for 'No' , "1" for 'Yes'		Defined
61	Estimation Required for Internal orders?	Enter "0" for 'Not Required' , "1" for 'Required'	0	Defined
62	Allow modification of task execution comments?	Enter "0" for 'No', "1" for 'Yes'	1	Defined
63	Allow additional Core Return?	Enter "0" for 'Not Allowed', "1" for 'Components', "2" for 'Non Components', "3" for 'All Parts',	0	Defined
64	Allow attachment of serialized Parts issued against a different Package?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined

- If the Parameter 'Allow additional Core Return?' is set as 'Not Allowed', then the system will not allow Return with no Issue or CR reference.
- If the Parameter 'Allow additional Core Return?' is set as 'Components', then the System will check whether the given Part # is of type Component and will then allow the Return to be created for the given Part # and quantity against the given Exec. Ref # and Task #.
- Note: For parts with other part types, the system will not allow Return, with no Issue or CR reference.
- If the Parameter 'Allow additional Core Return?' is set as 'Non Component', then the system will check whether the given Part # is of type other than 'Component' and will then allow the Return to be created for the given Part # and quantity against the given Exec. Ref # and Task #.
- Note: For Parts with Part Type 'Component', the system will not allow Return with no Issue or CR reference.
- If the Parameter "Allow additional Core Return?' is set as 'All Parts', then the system will allow Return for all parts with no Issue or CR reference.

Display Option All Parts   Task # / Description P Search On Return Unconsumed Parts Return Cores Record Direct Part Consumption Record Direct Part Consumption										
44	•	1 - 10 / 38 🕨	• + - 🗆 🛠 T Tx				x C # # III	All	T	Q
ŧ		Issued Part #	Issued Serial #	Issued Lot #	Issued Qty.	Exe. Ref. # 🔎	Tracking #	Seq. #	Task # 🔎	Rem. / Return Part #
L						VP-000104-2012	1	1	3-00000012	0-0440-4-0001:36361
2						VP-000097-2012	1	1	3-0000012	0-0440-4-0001:56561
5						VP-000104-2012	1	1	3-00000012	00ABC
ł		MN-CR-02:81205	SCM-INV-008-1		1.00	VP-000141-2012	1	1	3-0000012	MN-CR-02:81205
5		MN-CR-02:81205	SLQ51		1.00	VP-000141-2012	1	1	3-0000012	MN-CR-02:81205
5						VP-000141-2012	1	1	3-0000012	MN-CR-02:81205
7						VP-000141-2012	1	1	3-0000012	MN-CR-02:81205
3						VP-000141-2012	1	1	3-0000012	PS9836:99212
•						VP-000141-2012	1	1	3-0000012	PS9836:99212
0						VP-000422-2013	1	1	3-50C-00-MPD-	00XYZ
		<								>

Exhibit 5: Search option in Record Part Consumption & Return screen

When Display option is selected as 'All Parts' or 'All Returned Parts' and search is invoked, the system will additionally retrieve all the Parts that have been returned with No Issue Reference number and No Component Replacement Reference number.

The Multiline in **Return Core** Tab has been modified to support addition of new Part # to be returned without Issue reference and CR reference.

## Enhancements in Component Replacement Tab to Route Parts to Shop

Reference: AHBF-12718

## Background

This enhancement provides the ability to provide Work Center, Work Requested and Certificate Type for Shop Work Order generated from Aircraft Maintenance Execution on Removal in **Record Aircraft Maintenance Execution Details** screen of **Aircraft Maintenance Execution** business component.

### **Change Details**

Following controls and links are now provided in the **Component Replacement** Tab in Aircraft Maintenance Execution screen:

Certificate Type: Drop-down

The control will be loaded with Certificate Types along with 'Blank'.

Work Center #: Drop-down

Existing Display Only field is changed to Dropdown. Execution Work Center mapped to the station (selected in AME will be loaded). Execution Work Center identified for the Part# in Part Administration will be defaulted. Shop Work Order will be created in the Work Center chosen.

Work Requested: Editable

A new non-mandatory field to mention custom work requested.

Link to Plan Work Order screen

Once the Shop Work Order is generated from Aircraft Maintenance Execution, the link can be used to transverse to Shop Work Order for Work Scoping and release.

Follows changes are done in Shop Work Order:

Screen launch from Aircraft Maintenance Execution

Shop Work Order Number will be subscribed (From AME CR Tab) and auto search will be invoked to retrieve details.

> Order Description

Removal Remarks entered by the Mechanic in AME screen will be displayed in this field based on a new set option.

The new set option "Work Order Description for auto generated Shop Work Order?" is added in the **Set Process Parameters** screen under the Entity Type "Disposition Code" with Permitted Values:

- "0" for 'Reason'
- "1" for 'Removal Remarks'

By default the value is "0"

> Comments

Certificate Type entered by the Mechanic in AME will be displayed here as a string "Certificate Type: XXXX".

> Work Requested

Work Requested that is entered by the Mechanic in AME will be displayed in the field 'Work Requested' in **Order Details** tab of Shop Work Order.

## Exhibit 1:

\star 📄 Record Aircraft Maintenance E	execution Details			a ⊄ ← ? ⊡ ⊠
Source	Status Removed	Component Replacement # NCR-000769-2014		^
Removed Part # <b>P</b>	Removed Serial # 👂	Rem. Disposition / Codn.	Reason #	Removal Qty.
R-06	SL-000060-2014	1-Repair VInServiceable	Remove for Maintenance	▼ 1
Installed Part # 🔎	Installed Serial # 🔎	A/C Level # <b>P</b>	A/C Position # <b>P</b>	Attachment Qty.
Object Type	Record Mode	Date & Time	Confirmed Failure?	
Other Parts 💌	Normal	04-17-2014 🗰 17:26:27 🛗	Not applicable	
Employee # <b>P</b>	Removal Remarks	Serial # Type	ontrol Type changed to	
00041383	Removed	Existing	ombo from Display Only	
Acceptance Ref.			on bon Display Only	
	Newly added controls	Work Center #		
Generated Order # AWO-000016-2014	a newly added controls	YVR-110-30	Repair Agency # 99999	
Work Requested	Certificate Type			
Work Requested	8130-3			
Return Classification	Return Warehouse #	WH - Zone # Bin # 🔎	Latest Return # / St	tatus
-	V			
Print Tag for Removed Object	Record Part Consumption & Re		Edit Return	
Update Removed Comp. Assembly	Update Installed Component A		inquire Stock Balance	
Create New Part Request	Inquire New Part Requester		Route Unserviceable Components / Parts /iew Maintenance Info. for Installed Part	
Help on Non-Comp.Removed Serial # Generate Serviceable Certificate	Plan Work Order	enai #	view maintenance into, for installed Part	~

Following controls and links are now provided in the **Component Replacement** Tab in **Aircraft Maintenance Execution** screen:

- > Certificate Type will be loaded with Certificate Types along with a 'Blank' value.
- The existing Work Center # Display Only control is now changed to Drop-down. Execution Work Center mapped to the station (selected in AME will be loaded). Execution Work Center identified for the Part # in Part Administration will be defaulted. Shop Work Order will be created in the Work Center chosen.
- > Work Requested is an editable field to mention custom work requested.
- Plan Work Order link can be used to transverse to Shop Work Order for Work Scoping and release.

## Exhibit 2:

Plan Work Order     Search Criteria	SWO is defaulted and auto search invoked Order Description based
Search On         Shop Work Order #         AWO-000016-2014         Get <ul></ul>	on Set Option
Search - Filter     X <th>000016-2014 Order Description REMOVE Order Status Fresh</th>	000016-2014 Order Description REMOVE Order Status Fresh
Part # / Serial # Ø R-06 Lot # Ø Component # COMP-000051	Serial # Ø SL-000060-2014 Qty. 1.00
Stock Status Accepted  Workscoping Details	Certificate Type shown in Comments
Worksrooing Status Initial     Worksrooing Status Initial     Comments Certificate Typ     Repair Details	Revision # defined in AME
Repair Process Code	Repair Classification     Work Requested     Work Requested

On selecting Plan Work Order link in **Component Replacement** tab, the following actions will take place:

- Plan Work Order screen will be launched and Shop Work Order Number will be subscribed (From AME CR Tab). Auto search will be invoked to retrieve details.
- Order Description will either display Reason # or Removal Remarks based on set option.

If the set option "Work Order Description for auto generated Shop Work Order?" in the Set Process Parameter screen under the Entity Type "Disposition Code" is selected as "0" then Order Description will display Reason#.

If the set option "Work Order Description for auto generated Shop Work Order?" in the Set Process Parameter screen under the Entity Type "Disposition Code" is selected as "1" then Order Description will display Removal Remarks.

- Certificate Type entered in AME will be displayed in the Comments field as a string "Certificate Type: XXXX".
- Work Requested that is entered in AME will be displayed in the field 'Work Requested' in Order Details tab of Shop Work Order.

## WHAT'S NEW IN AIRCRAFT MAINTENANCE / SHOP MAINTENANCE?

# Ability to ensure that part being attached is issued against the same package / work order

Reference: AHBF-14120

## Background

A requirement was raised to restrict attachment of parts that has been issued against a different Package / Work Order. This enhancement provides following advantages in Aircraft Maintenance / Shop Maintenance:

- 1. Firms up the Configuration security in the system i.e. it can avoid the risk of attaching wrong parts issued for a different Package / Shop Work Order.
- 2. Improved finance postings against maintenance execution documents.

## Change Details

New process parameters are introduced in **Common Master** business component that can allow or restrict attachment of parts that has been issued against a different Package / Shop Work Order.

## Process Parameter 1

Set Process Parameter (Common Master)				
Entity Type	Package Type			
Entity	Log Cards, User Defined values			
Process Parameter	"Allow attachment of serialized Parts issued against a different Package?			
Permitted Values	Enter "0" for 'No' , "1" for 'Yes'			
Default value	1 (Yes)			
System behavior bas	ed on process parameter value			
Value:0 (No)	System will restrict attachment of Serial controlled Parts issued against a different Package.			
Value:1 (Yes)	System will allow attachment of Serial controlled Parts issued against any Package.			

## Process Parameter 2

Set Process Paramet	Set Process Parameter (Common Master)				
Entity Type	Shop Work Order Type				
Entity	User Defined values				
Process Parameter	"Allow attachment of serialized Parts issued against a different shop work order?				
Permitted Values Enter "0" for 'No' , "1" for 'Yes'					
Default value	1 (Yes)				
System behavior bas	ed on process parameter value				
Value:0 (No)	System will restrict attachment of Serial controlled Parts issued against a different Shop Work Order.				
Value:1 (Yes)	System will allow attachment of Serial controlled Parts issued against any Shop Work Order.				

	Entity Type Package Type	<b>~</b>	Entity Line Packa	ge 💌	
	Record Status Active	F	rocess Parameters Defined? Yes		
Pro	ocess Parameter List				
4 4	53 - 64 / 64 🕨 👐 🕂 🕸 🗱 🐺 🟹			▼ serial	x x (
	Process Parameter	Permitted Values	Value	Status	Error Me
3	Allow Component Replacement transaction for Object Type other than Component	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	
4	Mandate completion of related Discrepancies before dosure of Inspection Tasks?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
5	Allow reporting discrepancy against tasks in Completed, In-Complete, Closed, Pre-	Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
6	Allow direct part consumption ?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
7	Default Record Direct Part Consumption tab in Record Part Consumption & Return	Enter "0" for 'No' and "1" for 'Yes'	1	Defined	
8	Auto Return of Parts on Removal	Enter "0" for "Not Required" and "1" for "Required"	0	Defined	
9	Allow Aircraft Reg. # change after package creation?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
0	Mandate Journey Log Reference on Package Closure?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
1	Estimation Required for Internal orders?	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	
2	Allow modification of task execution comments?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
3	Allow additional Core Return?	Enter "0" for 'Not Allowed', "1" for 'Components', "2" for 'Non Components', "3"	3	Defined	
4	Allow attachment of serialized Parts issued against a different Package?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
5					
	<				>

Exhibit 1: Newly added process parameter for Package Type in Define Process Entities

**Exhibit 2:** Newly added process parameter for Shop Work Order Type in Define Process Entities

, circle	y Details Entity Type Shop Work Order Type	v	Entity CWO	T	
	Record Status Active		ess Parameters Defined? Yes		
Proc	ess Parameter List	1100			
	28 - 52 / 52 > >> + O C T T.			•	\$
	Process Parameter	Permitted Values	Value	Status	Error Me
					Linorme
	Auto Inclusion of Overdue Tasks ?	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined	
	Default Sign-Off requirement for Non-Routines ?	Enter "0" for 'Mechanic', "1" for 'Mechanic & Inspector', "2" for 'Inspector', "3"	3	Defined Defined	
	inforce Sign-Off ?	Enter "0" for 'No' , "1" for 'Yes'	0		
	Permit Dual Sign-off by the employee ?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
	Now reporting by different employee?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined Defined	
	Now Task Reporting by ?	Enter "0" for 'All Employee', "1" for 'Assigned Employee'	0		
	Ref. Date for Compliance ?	Enter "0" for 'Start date', "1" for 'Task Completion date', "2" for 'CoM Date'.	1 300	Defined Defined	
	Backdated reporting Time Limit (in days)	Enter a positive integer		Defined	
	Assembly status check on attachment ?	Enter "0" for 'Not Required", "1" for 'Required"	0	Defined	
	Acknowledge Receipt	Enter "0" for 'Manual', "1" for 'Automatic'	1	Defined	
	Now modification of Task Sign-Off requirements	Enter "0" for 'Not Allowed', "1" for 'Allowed for Routine tasks', "2" for 'Allowed for	2	Defined	
	Now re-opening of completed orders / tasks?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	
	Now reporting on completed orders / tasks?	Enter "0" for 'Not Allowed', "1" for 'Allowed'	1	Defined	
	Now time reporting on discrepancies?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	-		
	Now discrepancy closure with open service request?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	0	Defined	
	Allow receipt to different work center?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	
	Aaterial Movement Document Print on Requistion from Planner	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined	
	Default Shop Work Order Type for Auto generated Project work orders?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
	Default Shop Work Order Type for Auto generated Miscellaneous work orders?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
	inforce Ref. doc. # for CoM	Enter "0" for 'Non-mandatory' , "1" for 'Mandatory'	0	Defined	
	Now direct part consumption ?	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined	
	ability to generate Material Request at task level on release work order?	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	
_	Now automatic addition of Std. Repair Task on SWO Generation	Enter 10" for "Not Required", "1" for "Internal Parts", "2" for "All Parts"		Defined	
	Now attachment of serialized Parts issued against a different shop work order?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
	Automatic re-sequencing of operations in shop work order during work scoping?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
	<				>

## WHAT'S NEW IN WORK MONITORING AND CONTROL?

# Ability to Auto Search in WMC if Launched with AME # or SWO # Reference

Reference: AHBF-5045

## Background

This enhancement brings usability improvements in **Manage Work Assignments and Reporting screen** of **Work Monitoring and Control** business component.

### **Change Details**

The system will invoke Auto Search on page launch if a valid AME # or SWO # is available in the Ref. Doc. # control.

Manage Work Assignments and Reporting		
Manage Work Assignments and Reporting     Search Criteria	Date & Time Format mm/dd/yyyy	Ref. Doc # is empty
Search Chena     Maintenance Object <ul> <li>Ref. Doc, Type</li> <li>Ref. Doc, Type</li> <li>Wanage Employee Work</li> </ul>	Primary Work Center # From Date and To Date	
Additional Search Criteria Display Option Al	Date From / To         08/10/2015 00:00:00         (m)           Status         V	11/08/2015 00:00:00

Exhibit 1: Review Work tab - Ref. Doc # null, From Date / To Date exists

On page launch, if a valid AME # or SWO # is not available in the Ref. Doc. # control and **Review Work** tab is defaulted, then From Date will be defaulted with the date which is two months earlier than the current date and time will be defaulted as '00:00:00'.

On page launch, if a valid AME # or SWO # is not available in the Ref. Doc. # control and **Review Work** tab is defaulted, then To Date will be defaulted with the date which is one month later than the current date and time will be defaulted as '00:00:00'.

Exhibit 2: Review Work tab - Ref. Doc # exists, From Date / To Date blank

★ 🔋 Manage Work Assignments and Reporting	Ref. Doc# exists
- Search Criteria	Date & Time Format mm/dd/yyyy
Maintenance Object Aircraft Reg #	Pary Work Center #
Ref. Doc. Type	From Date and To Date Ref. Doc. # VP-000087-2012
Review Work Manage Employee Work	are BLANK
Additional Search Criteria	
Display Option All	Date From / To
Search On Task #	Status 💌 💌
Search	h
🚺 🗄 📨 🔍 🔍 🚾 EJS TreeGrid 11.0	
Task # Seq # 🏠 Tracking # 👌 Task Description % Complete	Task Status 09-Oct-2015 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 00 01 02 03 (

On page launch, if a valid AME # or SWO # is available in the Ref. Doc. # control and **Review Work** tab is defaulted, then From Date and To Date will be defaulted with "BLANK" and Auto Search will be invoked.

Exhibit 3: Manage Employee Work tab - Ref. Doc # null, From Date / To Date exists

★ 📄 Manage Work Assignments and Reporting		Ref. Doc # is empty
Search Criteria	Date & Time Format mm/dd/yyyyy	
Maintenance Object	Primary Work Center #	
Ref. Doc. Type 💌	Ref. Doc. #	
Review Work Manage Employee Work		
- Additional Search Criteria	From Date and To Date	
Display Option	Employee #	
Search On 🔽	Task Status	<b>v</b>
Addl. Search On 📃 🗸	Date From / To 08/10/2015 00:00:00	iii iii
	Search	

On page launch, if a valid AME # or SWO # is not available in the Ref. Doc. # control and **Manage Employee Work** tab is defaulted, then From Date will be defaulted with the date which is two months earlier than the current date and time will be defaulted as '00:00:00'.

On page launch if **Manage Employee Work** tab is defaulted, then To Date will be defaulted with "BLANK" regardless of whether AME # or SWO # exists or not.

★ Manage Work Assignments and Report	ting		Date & Time Format mm/dd/yyyy	Ref. Doc# exists
Search Criteria     Maintenance Object     Ref. Doc. Type     Review Work     Manage Employee Work	Aircraft Reg #		mary Work Center # Ref. Doc. # VP-000087-2012	
Additional Search Criteria     Display Option     Search On	Work Actual	From Date and To Date are BLANK	Employee #	<b>▼</b>
Addl. Search On	<b>T</b>	Search	Date From / To	
Assigned Hours From Date & Time Default Assignment Comments	10/09/2015 m 14:16:27 m		Worked Hours To Date & Time	Ē
Search Result     (No records to display)     Mork Exec. Type     Employee Na		▶ <u>■</u> 0 x 2 ii ∞ e eet Timesheet Update Mode		ask # P

Exhibit 4: Manage Employee Work - Ref. Doc # exists, From Date / To Date blank

On page launch, if a valid AME # or SWO # is available in the Ref. Doc. # control and **Manage Employee Work** tab is defaulted, then From Date and To Date will be defaulted with "BLANK" and Auto Search will be invoked.

- Note: If the WMC page is launched from Create Package screen from Planning Board:
  - The system will default the AME #, Display option will be defaulted to 'New assignment'. The Multiline Assignment view will be defaulted based on the option setting in Common Master.
  - > The system will automatically invoke search.
  - The system will default the AME # and system will invoke Auto Search on click of **Review Work** tab.

# Ability to generate Material Request on confirmation of Estimates for Packages

Reference: AHBF-15416

## Background

Aircraft Maintenance Execution business component should have the capability to automate Material Request generation on confirmation in work estimates with part requirements.

## Change Details

This enhancement streamlines the manual process of generating Material Request for estimated parts during Aircraft Maintenance depending on below process parameter under **Common Master** business component.

Set Process Parameter (Common Master)					
Entity Type	Package Type				
Entity	Log Cards, User Defined values				
Process Parameter	"Auto MR Generation on confirmation of Estimate?"				
Permitted Values	Enter "0" for 'No', "1" for Yes'				
Default value	0 (No)				
System behavior based on process parameter value					
Value: 1 (Yes)	<ul><li>System automatically generates Material Request on confirmation of Estimates under following conditions:</li><li>1) Task must be Planned or In-Progress Status</li><li>2) Task must have Need Frequency set as 'Always' in Record Work Estimates screen</li></ul>				
Value:0 (No)	:0 (No) System will not generate Material Request on confirmation of work estimates with Part Requirements.				

- Note: The Part # for which the MR is getting generated should always be 'Effective' for the Aircraft defined in the Aircraft business component.
- MR cannot be generated for the task with 'Hold code' whose parameter 'Prevent Material Request' is set as 'Yes.

	Entity Type Package Type	<b>v</b>	Entity Log card	-	
	Record Status Active		Process Parameters Defined? Yes		
44	4 45 - 69 / 69 ► ► + Ø Å T T <sub>x</sub>	<u>入 血</u> 6	IX ⊑ 🗎 ≫ 🖡 🖬 🖬 Al	•	٨
#	Process Parameter	Permitted Values	Value	Status	Error Me.
15	Basis for Auto Inclusion of Due Tasks	Enter "0" for 'Not Required' , "1" for 'Planned Start Date' , "2" for 'Sched	ule 0	Defined	
46	Default Sign-off Requirement for Non Routines	Enter "0" for 'Not Required' ,"1" for 'Mechanic',"2" for 'Inspector', "3" for '	Mech. & 0	Defined	
17	Auto Reconciliation of Components	Enter "0" for 'Not Required' , "1" for 'Required - On Task Closure'	0	Defined	
48	Retain Context Date within a Package?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
49	Enable Direct Printing?	Enter "0" for 'No' , "1" for 'Yes Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
50	Compliance reversal required on task re-opening ?	Enter "0" for "Not Required" and "1" for "Required"	0	Defined	
51	Auto Short close of Open Material Request	Enter "0" for "On association of Package", "1" for "On release of Package	e" 1	Defined	
52	Allow Deferral of Planned Tasks?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
53	Allow Component Replacement transaction for Component Part with Object Typ	e Enter "0" for 'Not Allowed' , "1" for 'Allowed for All Components', "2" for	'Allowed only 1	Defined	
54	Allow Component Replacement transaction for Object Type other than Compon	ent Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	
55	Mandate completion of related Discrepancies before closure of Inspection Tasks	? Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
56	Allow reporting discrepancy against tasks in Completed, In-Complete, Closed, F	re- Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
57	Allow direct part consumption ?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
58	Default Record Direct Part Consumption tab in Record Part Consumption & Retu	rn Enter "0" for 'No' and "1" for 'Yes'	1	Defined	
59	Auto Return of Parts on Removal	Enter "0" for "Not Required" and "1" for "Required"	0	Defined	
50	Allow Aircraft Reg. # change after package creation?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
51	Mandate Journey Log Reference on Package Closure?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined	
52	Estimation Required for Internal orders?	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	
53	Include alternate parts and stock statuses for display of Available Qty?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
54	Allow status change of discrepancies which are already assigned to a package?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
55	Allow status change of discrepancies from more than one package?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
56	Allow modification of task execution comments?	Enter "0" for 'No', "1" for 'Yes'	1	Defined	
57	Allow additional Core Return?	Enter "0" for 'Not Allowed', "1" for 'Components', "2" for 'Non Componen	ts', "3" 3	Defined	
58	Allow attachment of serialized Parts issued against a different Package?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
59	Auto MR Generation on confirmation of Estimate?	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
	<				>
	New process	Set Process Parameters			

## Exhibit 1: Newly added process parameter in Common Master business component

# Ability to Display Tracking # and Seq # and Order Task Based on Seq # in Package

Reference: AHBF-8074

#### Background

This enhancement provides the ability to display Tracking # and Seq # in **Review Work** tab and order tasks based on Seq # in the package in **Manage Work Assignments and Reporting** screen of **Work Monitoring and Control** business component.

#### **Change Details**

- Tracking # and Seq # of the task will be displayed in Review Work tab of Manage Work Assignments and Reporting screen under Work Monitoring and Control business component.
- Task Ordering in Work Monitoring and Control business component will be based on Seq # in the package.

#### Exhibit 1:

Maintenance Object     Permary Wight Center #       Ref. Doc. Type     •       Review Work     Manage Employee Work         Additional Search Criteria       Sequence # and Tracking #         Deplay Option       Search On         Search         Search	Maintenance Object     Ferraft Reg #     Aircraft Reg #       Ref. Doc. Type     •       Additional Search Otteria       Sequence # and Tracking #   Deplay Option All •    Deplay Option All •	earch Criteria					Date & T	ine Format mm/dd/yyyy		hh:mm:s	¢	
Ref. Doc. Type Ref. D	Ref. Doc. Type Ref. D	earch criteria	Maintenance Object Arcraft Re	9# X *	Air	raft Rog #	Primary We	rk Center #				
Additional Search Criteria Sequence # and Tracking # Dute from / To 08/14/2015 00:00:00 m 11/12/2015 00:00:00 m Status	Additional Search Criteria Sequence # and Tracking # Date From / To 08/14/2015 00:00:00  III 11/12/2015 00:00  III 11/12/2015  III 11/12/2015 00:00  III 11/12/2015  III 11/12/2015  III 11/12/2015  III 11/12/2015  III 11/12/2015  IIII 11/12/2015  III 11/12/2015  III 11/12/2015  IIII		Ref. Doc. Type	*		an Neg #		Ref. Doc. #				
Sequence # and Tracking # Dute from / To 08/14/2015 00:00:00 m 11/12/2015 00:00:00 m Status	Sequence # and Tracking # Dute from / To 08/14/2015 00:00:00 m 11/12/2015 00:00:00 m Status	wiew Work Manage En	ployee Work									
Fracking # Status * Status * Status	racking # Status	Additional Search Cetteria										
racking # Search De Tesk # * Search	racking # Search On Task # * Search	PRODUCTION OF BELLEVILLE	-									
Search	Search		Display Option Al	•			Date From / To	08/14/2015 00:00:00	11/12/2015	00:00:00	in.	1
		equence # and						08/14/2015 00:00:00		00:00:00		Í
		Sequence # and			Search			08/14/2015 00:00:00		10:00:00		ĺ

On selecting Maintenance Object as 'Aircraft Reg #', the Gantt Chart will display two new columns Seq # and Tracking # of the respective tasks.

The tasks will be ordered based on Seq # in package and displayed in the Gantt Chart.

#### Ability to generate Variance Summary Report & Variance Report for Estimated vs. Actual Efforts & for Estimated vs. Actual Cost from Work Monitoring & Control

Reference: AHBC-1894

#### Background

This enhancement introduces a new screen **Variance Report** in **Work Monitoring and Control** business component to generate Variance Summary Report and Variance Report for Estimated vs. Actual Efforts and for Estimated vs. Actual Cost for the given Aircraft Reg # / Part # / Execution Document #.

#### **Change Details**

A new screen **Variance Report** is introduced in **Work Monitoring and Control** business component and there are two links in the screen to launch either Variance Summary Report or Variance Report for the given Aircraft Reg # / Part # / Execution Document #.

A new Entity 'VAR Report' is added under the Entity Type 'Reports'. The following Process Parameters are defined in the **Define Process Entities** screen under the newly added Entity 'VAR Report'.

- 'Range for defaulting 'From Date' till Current Date' A positive integer which denotes the number of months with which the 'From Date' will be earlier than the Current Date.
- 'Default options for Est. Man Hours from' To specify from where the Est. Man Hours is referred. For example, the 'Est. Man Hours; are referred from:
  - o 'Task Estimates', if the parameter is set as '0'.
  - o 'Task Skill Requirements', if the parameter is set as '1'.
  - o 'Execution Doc Skill Requirement', if the parameter is set as '2'.
- 'Option for Time Display' To specify if the Time Display is in 'Decimal Format' (Parameter set as '0'), or 'HHMM' format (Parameter set as '1'.
- 'Default options for Est. Material Cost from' To specify from where the Est. Material Cost is referred. For example, Est. Material Cost is referred from:
  - o 'Task Material Requirements', if the parameter is set as '0'.
  - o 'Execution Doc Material Requirement', if the parameter is set as '1'.

#### Exhibit 1: Set Process Parameters

★ 🗎 Set Pro	ocess Parameters			= 갸 =
<ul> <li>Entity Details</li> </ul>	Entity Type Reports Record Status Active	New Process	Entity VAR Report Process Parameters Defined? Yes	Xv
Process Parame     I - 4     # Process Parame	4/4 » » + © © T T <sub>x</sub>	Parameters Permitted Values		Valu
1 Range for def	faulting 'From Date' till Current Date	Enter a positive integer value		5
2 Default option 3 Option for Tim	ns for Est. Man Hours from ne Display	Enter "0" for 'Task estimates' or Enter "1 Enter "0" for 'Decimal Format' or Enter "	1" for 'Task Skill Requirements ' or Enter "2" for 'Execution Doc Skill Requirement' 1" for 'HHMM format.'	1
4 Default option	ns for Est. Material Cost from	Enter "0" for 'Task Material Requiremen	ts ' or Enter "1" for 'Execution Doc Material Requirement'	0

#### Exhibit 2: Variance Report screen

★ 📄 Variance Report						≣ <i>"</i> \$
				Dat	e Format <b>dd/mm/yyyy</b>	
Search Criteria						
Ref. Doc Type	AME			Part # 👂		
Execution Doc # From 👂		Execution Doc # To 👂		Execution Doc Status		•
Aircarft Reg # From	MH370	Aircraft Reg # To	MH371	Est Man Hours From	Task Estimates	•
From Date	01/01/2011	To Date	17/10/2015	Est Material Cost From	Execution Doc Part Requirement	•
Task # 👂		Task Desc.		Task Status		•
	Variance Report			Variance Summary Report		

Variance Summary Report & Variance Report can be generated from the 'Variance Report' screen by providing the Aircraft Reg # / Part # / Execution Document #. The 'To Date' will be defaulted with the current date and the 'From Date' will be defaulted with the date which is earlier than the current date by the number of months mentioned in the Process Parameter 'Range for defaulting 'From Date' till Current Date'.

The Est. Man Hours & Est. Material Cost is arrived by referring the source as mentioned by the Process Parameters 'Default options for Est. Man Hours from' and 'Default options for Est. Material Cost from' respectively. Accordingly the variance is calculated & report is generated. Selection of the 'Ref. Doc Type' is mandatory as the report is generated for either AME Packages or Shop Work Order but not for both. The following filters are also available for generating reports: Task #, Task Description, Task Status.

Note: If 'Execution Doc # From' and 'Execution Doc # To' belongs to different objects like 'Part' and 'Aircraft', the system will validate the same.

## Exhibit 3: A sample Variance Summary Report

<b>C</b> <sup>B</sup> Ai	rways		Variance Sum	nmary Repo	rt	64 SARDAR PAT CHENNAI, TAMILNADU, INDIA.	fel road	), tarma	NI,	
From:	To:	Status:				Report Generated Fo	r 17/05/20	11	To 17/10/2	015
Aircraft Reg # From: N	1H370 Aircraft	Reg # To: MH370				Task #:		Status:		
Part #:						Base Currency: CA	D			
Task Desc.:										
Execution Doc #	Aircraft Reg #	Part # ~Part Desc.	Status	Est. Man Hours	Act Ma Man Hours(Permanent)	n Hours Man Hours (Temporary)	Labor Variance	Est Mat Cost	Act. Mat Cost	Mat Variance
VP-000488-2014	mh370		In-Progress		0.01		0.01			0.00
VP-000530-2014	MH370		Completed				0.00			0.00
VP-000535-2014	MH370		In-Progress	123.00			-123.00		276.44	276.44
VP-000545-2014	mh370		In-Progress				0.00		138.22	138.22
VP-000549-2014	MH370		In-Progress				0.00		7805.37	7805.37
VP-000570-2014	MH370		Closed	10.00			-10.00			0.00
VP-000574-2014	mh370		Completed	9.00			-9.00			0.00

#### Exhibit 4: A sample Variance Report

<b>G</b> <sup>B</sup> <i>I</i>	BAirways Variance Report C						64 SARDAR PA CHENNAI, TAMILNADU, INDIA.	TEL ROAD	), tarma	NI,		
From:	To:		Status:		Report Generated Fo	or 17/05/20	11	To 17/10/2	015			
Aircraft Reg # Fron	n: MH370	Aircraft	Reg # To: MH3	Task #:		Status:						
Part #:								Base Currency: CA	D			
Task Desc.:												
Execution Doc #	Aircraft Reg #	Part # ~Part Desc.	Task #	Task Desc.	Status	Est. Man Hours	Act Ma Man Hours(Regular)	n Hours Man Hours (Contract)	Labor Variance	Est Mat Cost	Act. Mat Cost	Mat Variance
VP-000488-2014	mh370		123/DIS01	testing 123	In-Progress		0.01		0.01			0.00

# WHAT'S NEW IN AIRCRAFT MAINTENANCE PLANNING?

#### **Enhancements in Plan Aircraft Maintenance**

Reference: AHBF-9593

#### Background

The **Review Fleet Maintenance Plan** screen in **Aircraft Maintenance Planning** is the de facto central planning board used by maintenance planners. Hence, it would be more analytical if the screen had the capability to bring to the attention of planners those specific parameters (one among multiple maintenance parameters configured for each task) that initiated execution of tasks on aircraft.

#### **Change Details**

This enhancement highlights those triggering parameters that have prompted the task execution. The **Rem. Time** column in **Job Details Gantt** section of **Review Fleet Maint**. **Plan** screen will display the triggering parameter for the work unit/task # within suggestive brackets. This enables planners to quickly identify the triggering schedules for work units/tasks on the aircraft.

R	eview Fleet Maintenance Plan								= x =	i 🖬	+ 3	
											1	
- Plan De	tails			- Flight Deta	ils							
C Line Pla	anning 🔘 Visit Planning			Search by	/* A/C Reg #	*						
Arrival I	Details			- Maintenan	ce Details —							
	Station	•		Maintenance I	tem*	<b>T</b>		From / To Date	27/07/2015	<b>111</b>	31/07/201	18
From / To D	Date & Time 27/07/2015 11:27:51 AM		Duration(Hrs)						2/10//2013		51/07/201	10
				Get Details								
						Packa	ge Type		~	Assi	san 🔲	Rele
Job Detail	e					Packa	де Туре		~	🔲 Assi	sign 🔲	Rele
Job Detail		Pere Time	Incoming Elight Details	Outering Flight Detrile	Realizer Status	Sch. Item Count /	Def. Item Count /	Eng. Doc Count /	MEL & CDI	L		
	Aircraft Reg # / Work Unit #	Rem. Time	Incoming Flight Details	Outgoing Flight Details	Package Status	Sch. Item Count / Driver Task		Eng. Doc Count / Type	MEL & CDI Count / Def. T	L	sign 🔲 Due Da	
	Aircraft Reg # / Work Unit #	(-1182D ) /-749.00FH/-26				Sch. Item Count /	Def. Item Count / Package # 1	Eng. Doc Count /	MEL & CDI Count / Def. T 24	ype	Due Da	ate
P	Aircraft Reg # / Work Unit #	(-1182D ) /-749.00FH/-26 -1180D	//:: AM : : The	parameter	pgress	Sch. Item Count / Driver Task	Def. Item Count / Package # 1 VP-000013-2012	Eng. Doc Count / Type	MEL & CDI Count / Def. T	ype 03	Due Da	ate 07:09:
P	Aircraft Reg # / Work Unit #	(-1182D ) /-749.00FH/-26	I': AM: : The that	parameter triggered		Sch. Item Count / Driver Task	Def. Item Count / Package # 1	Eng. Doc Count / Type	MEL & CDI Count / Def. T 24	ype 03 04	Due Da	ate 07:09: 07:05:
P P P	Aircraft Reg # / Work Unit #	(-1182D)/-749.00FH/-26 -1180D -1179D	I' AM AN	parameter triggered ask appears	pgress pgress	Sch. Item Count / Driver Task	Def. Item Count / Package # 1 VP-000013-2012 VP-000011-2012	Eng. Doc Count / Type	MEL & CDI Count / Def. T 24 DMI	ype 03/ 04/ 16/	Due Da 3/05/2012 ( 1/05/2012 (	ate 07:09: 07:05: 01:28:
P P P P	Aircraft Reg # / Work Unit #	(-1182D)/-749.00FH/-26 -1180D -1179D -1136D	I' AM AN	parameter triggered	pgress pgress	Sch. Item Count / Driver Task	Def. Item Count / Package # 1 VP-000013-2012 VP-000011-2012 VP-00002-2012 VP-000021-2012	Eng. Doc Count / Type	MEL & CDI Count / Def. T 24 DMI	Lype 03/ 03/ 04/ 16/ 13/	Due Da 3/05/2012 ( 1/05/2012 ( 5/06/2012 (	ate 07:09: 07:05: 01:28: 09:08:
P P P	Aircraft Reg # / Work Unit #	(-1182D) /-749.00FH/-26 -1180D -1179D -1136D (-866D)	I' AM AN	parameter triggered ask appears e brackets.	ogress ogress ogress	Sch. Item Count / Driver Task	Def. Item Count / Package # 1 VP-000013-2012 VP-000011-2012 VP-00002-2012 VP-000021-2012	Eng. Doc Count / Type 8	MEL & CDI Count / Def. T 24 DMI	ype 03 04 16 13 15	Due Da 8/05/2012 ( 1/05/2012 ( 8/06/2012 ( 8/03/2013 (	ate 07:09: 07:05: 01:28: 09:08: 12:00:
P P P P	Aircraft Reg # / Work Unit #           ■ VT-RMC           test-005:test-005           VP-000011-2012/2:test-002           DR-000009-2012:Radio Com: Cra           A31-7-MP-0000005:Insepction           ⊞ Task12:Task12gdgs	(-1182D) /-749.00FH/-26 -1180D -1179D -1136D (-866D) (-866D) (-803D) /-614.47FH	I' AM AN	parameter triggered ask appears e brackets.	ogress ogress ogress	Sch. Item Count / Driver Task	Def. Item Count 1 Package # 1 VP-000013-2012 VP-000011-2012 VP-00002-2012 VP-000021-2012 VP-000005-2012	Eng. Doc Count / Type 8	MEL & CDI Count / Def. T 24 DMI DMI	ype 034 044 164 134 154 244	Due Da 8/05/2012 ( 8/06/2012 ( 8/06/2012 ( 8/03/2013 ( 8/05/2013 (	ate 07:09: 07:05: 01:28: 09:08: 12:00: 04:39:
P P P P P	Aircraft Reg # / Work Unit #           VT-RMC            test-005::test-005            VP-000011-2012/2::test-002            DR-000009-2012::Radio Com: Cra            A31-7-MP-0000005::Insepction            Task12::Task12gdgs            test1::test	(-1182D)/-749.00FH/-26 -1180D -1179D -1136D (-866D) (-866D) (-800D)/-614.47FH -763D	I' AM AN	parameter triggered ask appears e brackets.	pgress pgress pgress n-Progress	Sch. Item Count / Driver Task	Def. Item Count / Package #           1           VP-000013-2012           VP-000011-2012           VP-00002-2012           VP-000021-2012           VP-000005-2012           VP-000005-2012	Eng. Doc Count / Type 8	MEL & CD Count / Def. T 24 DMI DMI	Uype 03, 04, 16, 13, 15, 24, 24,	Due Da 3/05/2012 ( 3/06/2012 ( 3/06/2013 ( 3/05/2013 ( 3/05/2013 (	07:09:3 07:05:1 01:28:3 09:08:3 12:00:0 04:39:1 04:39:1

#### Exhibit 1: The Triggering parameter in Review Fleet Maintenance Plan screen

# WHAT'S NEW IN FLIGHT LOG?

# Ability to record Flight Hours without Flight Cycles in Journey Log

Reference: AHBF-9598

#### Background

 Helicharter service providers always ensure to satisfy one of the crucial needs of their customer i.e. time saving. Customer can request for a service at any time, from anywhere. In order to handle this requirement, Customer Service Teams in the organization will assign helicopters flying in customers' nearby locations.

In such situation, there is a requirement to record two journeys for a single Journey Leg. First Journey is for internal operations and second journey is for customer operations when the helicopter was used for customer services. This information can be further used for billing the customer. The system should provide the capability to record first Journey with Flight Hour information without landing, whereas second Journey with both Flight Hours and landing information.

2. Training flights in Flight Training schools are subjected to multiple Take-off. Operators might turn-off the engine each time after the landing. In such situations, Engine Cycle also should get updated along with number of Take-offs in Journey Log details.

#### **Change Details**

1) Ability to record journey log Flight Hours with zero Take offs:

In order to manage above mentioned scenario of recording journey with Flight Hour information and without landings, system should be capable of retaining Flight Hours information when Take Off value is set zero. A new parameter has been introduced in **Set Options** screen of **Flight Log** business component.

Set Options (Flight Log	g)
Category	Journey Log Computation Option
Parameter	"Permit Flight Hour update in Journey Logs with zero Take Offs?"
Permitted Values	Enter "0" for 'No', "1" for 'Yes'
Default value	0
System behavior base	d on process parameter value
Value: 1 (Yes)	When user provides zero Take Off in JL with Actual Flight Hours Log Mode, system will retain Flight Hours but nullifies Flight Cycles.
Value: 0 (No)	When user provides zero Take Off in JL with Actual Flight Hours Log Mode, system will nullify both Flight Hours and Flight Cycles.

Note: Above behavior is implemented for all Flight Statuses of Journey Log.

#### 2) Ability to inherit Flight Cycle to Engine Cycles during multiple Take Offs:

This enhancement enables updating Engine Cycles from Flight Cycles when there are multiple Take Offs in a Journey Log. A new parameter has been introduced in **Set Options** screen of **Flight Log** business component.

Set Options (Flight	Log)								
Category	Journey Log Computation Option								
Parameter	"Update Flight Cycles to Engine Cycles?"								
Permitted Values	Enter "0" for 'No', "1" for 'Yes'								
Default value	0								
System behavior b	ased on process parameter value								
Value: 1 (Yes)	System will inherit Engine Cycles from Flight Cycles during multiple Take Offs.								
Value: 0 (No)	Engine Cycle will be updated as "1" even thought Flight Cycles is greater than one during multiple Take Offs.								

Note: Above behavior is implemented for all Journey Log Flight Ops. Type.

# Enhancements in View A/C Maint. Exe. Ref. #

Reference: AHBF-11057

#### Background

Facility to review all open Aircraft Maintenance Execution Documents.

#### Change Details

The **Select Execution Ref #** screen of **View A/C Maint. Exe. Ref. #** activity is enhanced to review all open Aircraft Maintenance Execution Documents. A new 'Exec. Status' named '**Open**' has been introduced in **Select Execution Ref #** screen to filter all open Execution Documents.

The system retrieves result based values chosen in the 'Exec. Status' drop down boxes:

Exec. Status (Drop Down 1)	Exec. Status (Drop Down 2)	Exe. Ref. Status
Exe. Ref.	Open	Draft, Fresh, Planned, In-Progress
Task	Open	Fresh, Planned, In-Progress

#### Exhibit 1:

**Select Execution Ref #** screens with Exec. Status Drop Down 1 as 'Exe. Ref.' and Exec. Status Drop Down 2 as 'Open'

Select Execution Ref #								×	<b>i</b>	) 🕂 (
						Dat	e Format mm/dd/yyy	у		
Search Criteria										
Aircraft Reg. #		Work Center #		T	Execution Ref. #		▼			
Log Item #		Journey Log #			Exec. Status	Exe. Ref. 🛛 🔻	T			
Customer # / Name		Search On	•	•	Estimation Status	Exe. Ref. 🛛 🔻				
Customer Order #		Addl. Search On	▼		Date From / To		Open	<b>1</b>		<b>1</b>
			Search				Draft			
Search Results							Fresh Planned			
ৰ 🧧 [No records to display] 🕨 🕽	× T 72					F 🖻 💷 🛛 🗛	In-Progress	T		Q
# 🗉 Execution Ref. #	Package Description	Exe. Ref. Sta	itus	Estimation Status	Hold Sta	atus	Completed		Aircraft M	lodel #
			Found no row	s to display!!!			Closed			
			Toulia no row	s to display			Cancelled			

#### Exhibit 2:

**The Select Execution Ref #** screens with Exec. Status Drop Down 1 as 'Task' and Exec. Status Drop Down 2 as 'Open'

Select Execution Ref #					×	= 🗲 🗧
Search Criteria			Dat	te Format mm/dd/yy	уу	
Aircraft Reg. #	Work Center #	Execution Ref.	=	V		1
Log Item #	Journey Log #	Exec. Statu	s Task 🔻	<b>_</b>		
Customer # / Name	Search On	▼ Estimation Statu	S Exe. Ref.			
Customer Order #	Addl. Search On	Date From / T	0	Open		
	Search			Fresh Planned		
Search Results				Deferred		
┥ ┥ [No records to display] 🕨 💌 🍸 🌄		😕 😐 🖥 🗶 🖻	🕂 🖻 💷 🔺	In-Progress	V	Q
# Execution Ref. # Package De	escription Exe. Ref. Status Estim	tion Status Hole	Status	In-Complete	A	ircraft Model #
	Found no rows to dis	lay!!!		Pre-Closed Completed		
				Closed		
				Cancelled		

# WHAT'S NEW IN COMPONENT MAINTENANCE?

## Ability to generate Component Maintenance Due Report

Reference: AHBF-13333

#### Background

The existing Aircraft Maintenance Due Report allows users to retrieve the tasks that are due on the Aircraft and its attached Components. There is no provision to view the due tasks for Components and its sub-assemblies alone. Also there is no provision to view the due tasks for Components and its sub-assemblies if the Component is not attached to Aircraft.

#### Change Details

A new report called "Component Maintenance Due Report" is added to the Ramco Aviation Product, to facilitate user to view the due task for Components and its subassemblies. This report allows the user to retrieve Due task and 'As Required' task for the Component and Sub-Components.

A new activity **Component Maintenance Due Report** is added under the **Reports -Component Maintenance** business component. **Exhibit 1:** New activity 'Component Maintenance Due Report' under 'Reports - Component Maintenance' business component

★ 🗎 Generate Component	Maintenance Due	Report									÷ '	2	¢ K
Search Criteria							Date Format mm-dd-yyyy						
Part # P				Mfr. Serial #/ Serial #			Maintenance Item				r		
From/To Date	10-19-2015	10-19-2017		Component # 👂			Task Attributes				r		
Planner Group		•		Sort By	Planned Date	Ŧ	Execution Facility #						
Maintenance Type		•		Program Item Type		▼	Rem. Value <=						Ŧ
Display Option	As Required			V	Overdue		V	Rem.Unit	s & Due	Date			
			Ger	nerate Component Maintenance Due Repo	rt								

- Note: User can enter the Part # alone to generate the Due Report for all the Components matching the Part # entered.
- Rem. Units & Due Date information will be optionally displayed in the report based on the 'Rem. Units & Due Date' check box selected while launching the report.

# Exhibit 2: Component Maintenance Due Report

<b>G</b> Airways===		Component Maintenance Due Report							04 SARDAR PATEL ROAD, TARMANI., CHENNAI, TAMILINADU, United States					
Part#	Part Description	Serial #	Mfr. Serial #	Component #	Report Duration	Location:		ATA#		Plann	er Group	Parameter	SN	SO
0-0440-4-0001: 56561	IP TURBINE ROTOR BLADE	SRL-00001	SRL-00001	C003992-2015	From Jan 1 1900 To Oct 19 2015		72-00		PG2		FC FH	11050.00 42000.00		
ATA#	Task # ~ Description ~ Job Type	Position Code Level Code		Part # ~ Part Description ~ Serial #~ Comp #	NHA Details Part#~Part Desc ~ Pos. Code~ Serial # ~ Comp #		Interval	Tolerance	Current Values	Last Performed	Triggering Parameter	Rem. Units	Next Scheduled	Forecasted Due at Date
72-00	3-00-46~test task~Off- Wing			0-0440-4-0001: 56561~IP TURBINE ROTOR BLADE~SRL- 00001~C003992- 2015			Threshold 400 Days 9000.00 FH 90 Days 900.00 FH	19 Days	11050.00 FC 42000.00 FH	09-18-2015 15:22:31 32000.00 FH	FH	59 Days -9100.00 FH	12-17-2015 23:59:59 32900.00 FH	4/16/2013 11:59:59 PN
72-00	3-00-48~test task~Off- Wing			0-0440-4-0001: 56561~IP TURBINE ROTOR BLADE~SRL- 00001~C003992- 2015			Threshold 1000 Days 10000.00 FH 90 Days 9000.00 FH	19 Days	11050.00 FC 42000.00 FH		FH	969 Days 0.00 FH	06-14-2018 23:59:59 42000.00 FH	10/13/2015 11:59:59 PM
20-00	3-00-50~test task~Off- Wing	PO	9S 1~1.1	0-0440-4-0005: 36361~MAPCO AFT OVEN~SRL- 000001~C003993 -2015			Threshold 500 Days 5000.00 FH 60.00 FC 250 Days 300.00 FH 90.00 FC	5 Days	11050.00 FC 42000.00 FH		FC			3/16/2013 11:59:59 PN
20-00	3-00-51~test task~Off- Wing	PO	)S 1∼1.1	0-0440-4-0005: 38361~MAPCO AFT OVEN~SRL- 000001~C003993 -2015			Threshold 900 Days 3000.00 FH 190 Days 230.00 FH	20.00 FH	11050.00 FC 42000.00 FH		FH	151 Days -39000.00 FH	03-18-2016 23:59:59 3000.00 FH	6/8/2010 11: 59:59 PM
20-00	3- 00000007~Restoration Task~Component Removal	PO	05 2~1.2	0-0440-4-0005: 36361~MAPCO AFT OVEN~SRL- 000002~C003994 -2015					11050.00 FC 42000.00 FH	-	FC	-		4/15/2013 11:59:59 PM
'Escalated Task			Report Genera	ted On: 10/19/2	015 12:30:14 PM		mm-dd-y	yyyy hh:mm:s	s	Gener	rated By : S	SENECHAL, DO	MINIC	

Exhibit 3: New Process Parameters added in 'Common Master' business component

	Set Process Parameters				그 등	÷ 1	
-)-Ei	ntity Details						
	Entity Type Reports	▼	Entity	Cmp. Maint. Due Report	•		
	Record Status Active	Pr	ocess Parameters Defined?	res			
-) P	Process Parameter List						
44	4 1 -4/4 → → + Ø Ø ▼ T <sub>s</sub>	7 D D X		All	Ŧ		
#	Process Parameter	Permitted Values	Value	Status			Error M
1	Default option for 'Sort By'	Enter "0" for 'Schedule Date' , "1" for 'Planned Date' , "2" for ATA #	1	Defined			
2	Next Schedule to be displayed based on EIPN parameter?	Enter "0" for No and "1" for Yes	1	Defined			
3	Option for Time Display	Enter "0" for 'Decimal Format' or Enter "1" for 'HHMM format'	0	Defined			
4	Range for defaulting 'To Date' from Current Date	Enter a positive integer value	24	Defined			
4	Range for defaulting to Date from Cuffent Date	Enter a positive integer value	24	Defined			

- Note: The process parameters shown in 'Exhibit 3' above, are added for the Component Maintenance Due Report under the Entity Type 'Report' and Entity 'Cmp. Maint. Due Report'
  - 1. If the Process Parameter "Default option for 'Sort By'" is selected as "0" then 'Sort By' control will be defaulted with "Schedule Date". If the option is selected as "1" then 'Sort By' control will be defaulted with "Planned Date". If the option is selected as "2" then 'Sort By' control will be defaulted with "ATA" on 'Component Maintenance Due Report' page launch.
  - 2. If the Process Parameter "Next Schedule to be displayed based on EIPN parameter?" is selected as "0", then the Next Schedule Value will be calculated based on the Current value of that Component. If the option is selected as "1" then the Next Schedule Value will be calculated based on the Current value of EIPN of the Sub-assembly Component.
  - 3. If the Process Parameter "Option for Time Display" is selected as "0" then the Time will be displayed in the Decimal format in the report output. If the option is selected as "1" then the Time will be displayed in the 'HHMM' format in the report output.
  - 4. Based on the value entered for the Process Parameter "Range for defaulting 'To Date' from Current Date", system will compute and default the To Date on the 'Component Maintenance Due Report' screen launch. Value enter in the control will be considered as Months. If the value is entered as 2, then From Date will be defaulted as current date and To Date will be defaulted as 2 months later the current date.

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