





Ramco Aviation Solution

Version 5.7

Enhancement Notification

Maintenance



DISCLAIMER

©2014 Ramco Systems Ltd. All rights reserved. All trademarks acknowledged.

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

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

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

TABLE OF CONTENTS

WHAT'S NEW IN AIRCRAFT?	7
A. RESTRICTION TO UPDATE THE PARAMETER VALUE WITH FRACTIONS BASED ON THE OPTION (FRACTION ALLO	WED)
SET FOR ITS UOM IN UOM MASTER	₇
Background	7
Change Details	7
B. RESTRICTION TO UPDATE THE PARAMETER VALUE FOR OFFLINE AIRCRAFTS / COMPONENTS WITH UPDATE OP	TION
AS 'NEW'	8
Background	8
Change Details	8
C. REVIEW RECORDS UPDATE	9
Background	9
Change Details	9
WHAT'S NEW IN CONFIGURATION?	15
A. ENHANCEMENTS IN PIECE PARTS SCREEN OF PART CONFIGURATION	15
Background	15
Change Details	15
B. EDIT AND VIEW PIECE PART LIST FOR COMPONENTS	17
Background	17
Change Details	17
C. ABILITY TO DISPLAY PIECE PARTS AND RELATED POSITIONS IN THE CONFIGURATION HELP	20
Background	20
Change Details	20
Display Filter	20
Part Details:	21
WHAT'S NEW IN CONFIGURATION REPORT?	22
A. FACILITATE USER TO VIEW THE ALTERNATE PART # IN MODEL CONFIGURATION REPORT	22
Background	22
Change Details	22
B. AIRCRAFT CONFIGURATION REPORT LAYOUT CHANGE	23
Background	23
Change Details	23
WHAT'S NEW IN ADDITIONAL REPORTS CONFIGURATION MANAGEMENT?	24
FACILITATE USER VISIBILITY ON PART DESCRIPTION AND REMAINING LIFE VALUE FOR THE COMPONENT IN COMPON	ENT
LIFE REPORT	24
Background	24
Change Details	24
WHAT'S NEW IN MAINTENANCE PROGRAM?	25
Λ Each ity to detailed a tednate dant # in Dosition Based Schedule screen on seadch by alternat	
A. FACILITT TO RETRIEVE ALTERNATE PART # INTOSTION DASED SCHEDULE SCREEN ON SEARCH BT ALTERNAT	LE
PARI # 25 Rackaround	25
Duckground Change Details	25
B ABILITY TO RESTRICT THE MODIFICATION OF ENG DOC TASK ATTRIBUTES IN MAINTENANCE PROGRAM	25
B. Abberry to Restrict the Mobil learning of Exc. Doe thisk Attributes in White White Production and	26
Change Details	26
C. FACILITY TO CONSIDER THRESHOLD FOR COMPUTING NEXT SCHEDULE DATE / VALUE FOR TASK WHICH IS	
GETTING INITIATED BASED ON INITIATE SCHEDULE RELATIONSHIP.	29
Background	29
Change Details	29
D. ABILITY TO COMPUTE NEXT DUE FOR A TASK ON EVERY ATTACHMENT OF THE COMPONENT	30
Background	30

	Change Details	30
E.	VISIBILITY OF NEXT SCHEDULE DATE / VALUE COMPUTATION BASIS & CONTROL OF NEXT SCHEDULE DA	TE /
VA	ALUE MODIFICATION	36
	Background	36
	Change Details	36
WH	AT'S NEW IN AIRCRAFT MAINTENANCE PLANNING?	54
۸	DOMESON TO DENIT MAINTENANCE DUE DEDORT FOR 121 & 125 ODER ATORS WITHOUT DEM UNITS & DU	
A.	FROVISION TO PRINT MAINTENANCE DUE REPORT FOR 121 & 155 OPERATORS WITHOUT REM. ONITS & DUI 54	E DATE
	Rackground	54
	Change Details	
B.	PROVISION TO DISPLAY NHA PART-SERIAL INFORMATION AND APU DETAILS INFORMATION IN AIRCRAFT	·
M	AINTENANCE DUE REPORT	57
	Background	57
	Change Details	57
C.	FACILITY TO RETRIEVE AS-REQUIRED TASKS DEFINED FOR ATTACHED COMPONENT FROM COMPONENT PRO	OGRAM
	59	
	Background	59
-	Change Details	59
D.	ENHANCEMENT IN EPUBS	60
	Background	60
	Change Details	00
F	Impucieu Screen	02
E.	DAILY FLANNING REPORT	
	Change Details	03
WH	AT'S NEW IN ENGINEERING DOCUMENT?	65
A.	New activity Manage Engineering document is added	65
	Background	65
	Change Details:	65
	Main Tab	71
	Effectivity Tab:	72
	Task Tab:	76
	Schedules:	77
	Reference:	79
В.	MANAGE ENGINEERING DOCUMENT IN VIEW MODE	83
	Background	83
C	Change Details:	83
C.	ENHANCEMENTS IN INITIALIZE ENG. DOC SCREEN	
	Backgrouna	04
л	Change Delails:	04
D.	ENHANCEMENTS IN FROCESS CHANGE REQUEST	00 86
	Change Details:	80 86
Е	ENHANCEMENT IN LIPDATE ENG. DOC. EFFECTIVITY	88
2.	Background	
	Change Details	
F.	ENHANCEMENTS IN MAINTENANCE CHANGE REQUEST	90
	Background	90
	Change Details:	90
G.	. IDENTIFICATION OF NON-COMPONENTS FOR PART NUMBER CHANGE THROUGH ENGINEERING DOCUMENT	92
	Background	92
	Change Details	92
H.	OPERATIONS TYPE TO BE DEFAULTED WITH OPTION SETTING	
	Background	
	Change Details	95
WH	AT'S NEW IN MAINTENANCE TASK?	96

	ABILITY TO UPDATE TASK ATTRIBUTES BACK TO ENG. DOC WHENEVER IT IS MODIFIED	9
Б	ackground	
0	'hange Details:	
В.	OPERATIONS TYPE TO BE DEFAULTED WITH OPTION SETTING	9
Б	ackground	
0	'hange Details	
C.	FACILITY TO ATTACH MULTIPLE FILES TO TASKS	9
E	ackground	
0	hange Details	
F	unctionality	
L	imitations	9
D.	ENHANCEMENTS IN MANAGE TASK FILE ATTACHMENT SCREEN	
E	ackground	
C	hange Details	
VHA	T'S NEW IN AIRCRAFT MAINTENANCE EXECUTION?	11
A.	Facility to display Aircraft Total Time (Flight Hours & Flight Cycles) for the entere 110	ED AIRCRAFT
Б	ackground	
(hange Details	
В.	FACILITATE AUTO-ISSUE OF PARTS DURING ATTACHMENT ONTO AIRCRAFT	
В	ackground	
0	'hange Details	
C.	FACILITATE AUTO-RETURN OF PARTS ON REMOVAL FROM AIRCRAFT	
B	ackground	
0	hange Details	
D.	EXTENDING OF AUTO-ISSUE FUNCTIONALITY FOR NON COMPONENTS	
E	ackground	
0	hange Details	
E.	FACILITY TO DEFAULT RECORD DIRECT PART CONSUMPTION TAB WHEN LAUNCHED FROM AME BA	SED ON
OPT		
F	ackoround	12
6	hange Details	
F	FULLANCEMENT FOR RECORD STATUS & TREE LOADING CHANGES FOR NON-CONFIGURATION TRACK	ZED PAPTS 12
1°.	ENHANCEMENT FOR RECORD STATUS & TREE EDADING CHANGES FOR NON-CONFIGURATION TRACK	12 III III
0	uckground Ihanga Dataila	
U.	FACILITY TO UPDATE ERROR LOG FOR COMPONENT REPLACEMENT TRANSACTIONS WHERE USER PRO	VIDES ALL
VAL	ID DETAILS BUT SELECTS FORCE PART CHANGE OPTION	
Б	ackground	
	nange Details	
Н.	FACILITY TO KEVERSE THE COMPLIANCE IN KECORD AIRCRAFT MAINTENANCE EXECUTION	
Ь	ackground	
(hange Details	
I.	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION	/ PLANNING
I. CON	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	/ PLANNING 13
I. CON B	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	17 PLANNING 13 13
I. CON B C	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS ackground 'hange Details	17 PLANNING
I. CON E C J.	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS ackground 'hange Details PART TAG REPORT ENHANCEMENT	17 PLANNING
I. CON B C J. B	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS ackground 'hange Details PART TAG REPORT ENHANCEMENT ackground	17 PLANNING
I. CON B C J. B C	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	17 PLANNING
I. COM B C J. J. B C K.	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	1/ PLANNING 13 13 13 13 13 13 13 13 13 13
I. COM B C J. J. K. K.	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS ackground Part TAG REPORT ENHANCEMENT ackground hange Details DISPLAYING OWNING AGENCY LOGO IN THE TAG REPORT ackground	17 PLANNING 13 13 13 13 13 13 13 13 13 13 13 13
I. COM E J. J. K. E C K.	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	17 PLANNING 13 13 13 13 13 13 13 13 13 13
I. COM E C J. J. K. K. E C L.	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	17 PLANNING 13 13 13 13 13 13 13 13 13 13
I. COM E C J. E C K. E C K. E C L.	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	17 PLANNING 130 130 130 130 130 131 132 133 133 133 133 133 133
I. COM J. J. K. K. C K. L. E C	FACILITY TO SUPPORT PACKAGE PRINT IF SPECIAL CHARACTERS ARE MENTIONED IN TASK DESCRIPTION IMENTS	17 PLANNING 130 130 130 130 130 131 132 133 133 133 133 133 133

A. FLIGHT SUMMARY REPORT	137
Background	137
Change Details	137
Report Lavout:	139
B. FACILITY TO ENABLE AND DISABLE THE VISIBILITY OF SPECIFIED FLIGHT DETAILS IN THE FLIGHT LOG SCR	EENS
BASED ON OPTION SETTINGS TO PROMOTE USABILITY	141
Racharound	1/1
Duckground.	141
Change Delation Department in John 1997 Loss appendies of a prime program in a substance of the set	
C. LOG# FIELD ADDITION IN JOURNEY LOG SCREENS TO CAPTURE THE FLIGHT LOG SHEET REFERENCE	
Background	
Change Details	143
D. RECORDING OF OIL UPLIFT SERIAL-WISE	148
Background	148
Change Details	148
E. ANALYZING OIL UPLIFT WITH REPORTS	149
Background	149
Change Details	149
Oil Consumption Trend Report	149
Oil Uplift Report	153
WILL THE NEW IN COMPONENT DEDLA CEMENT?	15(
WHAT'S NEW IN COMPONENT REPLACEMENT?	150
CHANGES IN INITIALIZE AND UPDATE CONFIGURATION	156
Background	156
Change Details	156
WHAT'S NEW IN SHOP WORK ORDER?	158
	130
A. ENHANCEMENT IN ISSUE CERTIFICATES	158
Background	158
Change Details	158
B. FACILITY TO ISSUE MODIFIED LOT # DURING MAIN CORE MATERIAL REQUEST	161
Background	161
Change Details	161
C. ABILITY TO DISPLAY THE SHELF LIFE EXPIRY DATE	163
Background	163
Change Details	163
Exhibit 2: 8130-3 Report with Shelf Life Exp. Date printed	164
Exhibit 3: 8130-3 Report without Shelf Life Exp. Date	164
D. FACILITY TO MODIFY PART # FOR LOT & NONE CONTROLLED PARTS	165
Background	165
Chanoe Details	165
Workflow.	105 166
F ΕΛΟΊΙ ΤΤΥ ΤΟ ΡΟΟΥΙΝΕ WORK CENTER / REDAID AGENICY DUDING DIGASSEMBLE	
E. I ACILITI TO I ROVIDE WORK CENTER / REFAIR AGENCI DURING DISASSEMBLE	100 ۱۸۷
Duckground	001 مما
Change Detalls	108
Duckgrouna	1/0
Change Details	170
WHAT'S NEW IN COMPLIANCE MANAGEMENT?	171
A. ABILITY TO UPDATE ALL THE PROGRAM INFORMATION THROUGH "INITIALIZE MAINTENANCE PROGRAM	AND
UPDATE COMPLIANCE" INTERFACE	171
Background	171
Change Details	171
B FACILITY TO UPLOAD DISCREPANCIES	173
Rackoround	
Change Details	173 173
	····· 1/J

WHAT'S NEW IN AIRCRAFT?

A. Restriction to update the parameter value with fractions based on the option (Fraction Allowed) set for its UoM in UoM master

Reference: AHBE-700

Background

In Ramco Aviation Solution, during creation of a parameter, the UoM i.e. Unit of Measurement by which the parameter will be measured / quantified is mapped. The UoM's are defined in the **Unit of Measurement Administration** business component of the **Inventory Setup** process.

•	dit UOM					😂 Traibar 🔹 🖠	1 🖨 🗟 💭 (
7					Date Fo	ormat dd/mm/yyyy	
Searc	h Criteria						
		UOM Code UOM Description	Search		Status Active	×	
Searc	n Results						
(<)	67 - 71 / 160	• • + - D & V %		1		✓ hou	×P
	UOM Code	UOM Description	UOM Category	Fractions Allowed	Status	Created by	Created Dat
67	M HR	Hours	×	Yes 🗸	Active 👻	DMUSER	06/07/2011
68	E HS	HUNDRED SQUARE FEET	*	Yes	Active 💌	DMUSER	06/07/2011
69	E HU	PER HUNDRED	*	Yes	Active 🗸	DMUSER	06/07/2011

Currently, the system will not restrict fractions for the parameter, even if 'Fractions Allowed' is set as "No" for the UoM assigned for the parameter.

Change Details

With the introduction of this new feature, if 'Fraction Allowed' is "No" for a UoM in the **UoM** master and if the same UoM is mapped to a parameter, the system shall enforce validation upon entry of fraction values for such parameter in the impacted screens.

Example:

Let's say 'Hours' is a UoM defined in UOM Master for which 'Fraction Allowed' is "No".

UoM 'Hours' is mapped to the Parameter 'FH'.

If user enters FH = 10.25, validation will be enforced in the impacted screens, as 'Fractions Allowed' is set as 'No' for the Parameter's UoM in UoM master.

Impacted user interfaces:

- Create journey log
- Edit Journey log
- Amend Journey log
- Re-Initialize / Update Parameter Values

B. Restriction to update the parameter value for offline Aircrafts / Components with Update option as 'New'

Reference: AHBE-2110

Background

To maintain consistency in parameter values of offline aircrafts and components, it is necessary to restrict new mode parameter value updates for offline Aircraft and components.

Currently in Ramco Aviation solution,

User can update parameter values for aircrafts and components with update option as "Re-initialize / New / Delta / Correction" even if the 'Offline system applicable' is set as 'Yes'.

Change Details

With the introduction of this new feature, Ramco will restrict user to update the parameter values with update option as 'New' for Aircrafts / Components, if the 'Offline system applicable' is set as 'Yes' in the **Installation Parameter Setup** business component.

C. Review Records Update

Reference: AHBE-8169

Background

For certain operators, when part receipts are processed in remote field bases, component related information like Parameter Value, Component Configuration & Component Maintenance Program will not always be fed into the system. These details will be provided by Tech Records personnel located in a centralized location.

To provide visibility on such receipts processed in remote field bases, Ramco's aviation suite has provided a new queue page, **Review Records Update**, to enable the user to review and verify all the receipt transactions that have components pending for verification. This page will also enable the records clerk to perform ad-hoc audits of component records that are available in the system.

Change Details

Select the **Review Records Update** user activity that is available in the Aircraft business component (Refer exhibit 1 & 2).

Exhibit 1:

Configuration Management	•	Aircraft	
			View Manufacturer Information
			Create ATA Chapter
			Edit ATA Chapter
			View ATA Chapter
			Create Zones
			Edit Zones
			View Zones
			Create Part Model
			Edit Part Model
			View Part Model
			Create Aircraft Group
			Edit Aircraft Group
			View Aircraft Group
			Create Quick Codes
			Edit Quick Codes
			View Quick Codes
			Maintain Flight log Parameters
			Manage Part Effectivity
			Generate Serviceable Certificate
			Review Records Update

Exhibit 2:

📰 🛛 Review Records Update					😂 Traibar 🔹 🚔 👼 🗾 🥹
Search Criteria Search On All Receipts Status Exceptions: Parameter Not Initialized	C No NSD / NSV	Ref. Doc. Date	From / To ser Status	Components Created Fr	rom / To B B Age >= Days Display Option: Include Child Components
Search Result		Seard			Compact View Detailed View
# PV CFG PRG Part # 1 0 <td< td=""><td>MSW Serial # MSN001 \$1-001 Image: state state</td><td>Ref. Doc. Type Goods Inward Click to View reference doct</td><td>Ref. Dac. #/Line GI-00001-3013/1</td><td>Status Comment Use View can be changed View Can be changed</td><td>* Status Component # • COMP 1 • CO</td></td<>	MSW Serial # MSN001 \$1-001 Image: state	Ref. Doc. Type Goods Inward Click to View reference doct	Ref. Dac. #/Line GI-00001-3013/1	Status Comment Use View can be changed View Can be changed	* Status Component # • COMP 1 • CO
Links/ Reports Re-initialize / Update Parameter Values Generate Serviceable Certificate	Initialize & Update Component Config Upload Documents	uration Ini Vie	tialize Maint. Program & Update Compilar w Documents	ice Edit Component R Print Part Tag	ecord
Aircraft -> Review Records Update					105 Minute(s) 3:00 PM

The detailed view will have the following additional columns visible in the multiline,

- Mfr. Part #
- Mfr. #
- Part Description
- EIPN Component # Link
- Component Condition
- TSN
- CSN
- Earliest Due Details
- Shelf Life Expiry Date
- Ref. Doc. Date
- Received Condition
- Receiving Comments
- Certificate Type
- Certificate #
- Certificate Date

- Trading Partner Type
- Trading Partner # / Name
- Age(Days)
- Last Verification Comments

Workflow:

On screen launch, the age will be defaulted if available in the process parameter and the Search On combo will be defaulted with "All Receipts". The multiline will display all the receipts records, with available search criteria, which are pending for verification.

- A) The user can search the receipt records with the following filter criteria.
 - a. Search on The filter will have the following values "All Receipts", "Goods Inward", "Unplanned Receipt", "Loan/Rental Receipt", "Stock Correction", "Part Data Change", "Part Serial Change", "Facility Object", "Packslip #", "Waybill #" and "Receiving Warehouse #" to fetch receipt records, and "Component #", "Part # / Serial #", "Mfr. Part # / Serial #", "Att. Aircraft Reg. #" and "Att. Component #" to fetch the component records.
 - b. Ref. Doc. Date From / To The user can filter the records for which the date of the reference document is within the specified date range.
 - c. Component Created From / To This filter will enable the user to filter the records based on the component created date.
 - d. Status The drop-down will have the following values to filter the search.
 - i. Pending Fetches records which are pending verification
 - ii. On Hold Provides ability to put the verification process on hold.
 - iii. Verified Fetches the component records that are verified. The receipt records which are verified will not be available in the queue to fetch.
 - e. User Status The filter helps the user to filter the search based on user-defined statuses saved against the record. User status is a user-defined code that can be defined in the 'Quick Codes' activity of the **Aircraft** business component. It is newly added in quick codes.
 - f. Age>= The search will filter the records which have age greater than or equal to the value entered by the user in this field. The application has the provision to default age for this field in the "Age Horizon" process parameter which is newly added.
 - g. Exceptions The user can filter the records by clicking the appropriate checkbox
 - i. Parameter Not Initialized Those component records for which the parameters are not initialized.

- ii. Dormant Assembly Those component records for which one of the assembly in the active configuration of the component has dormant assembly status.
- iii. No NSD / NSV Those component records which has the following attributes in the active maintenance program for the component,
 - "Prog. Item Type" having value "Block", "Non-Block" or "Base".
 - "Initiated / Reset by" set as "Self-Compliance".
 - "Schedule Status" set as "active"
 - And task with No NSD / NSV for recurring task or No LPD / LPV & No

NSD / NSV for one time task.

- iv. Overdue NSD / NSV Those component records which has overdue task.
- h. Include Child Component Enables the user to review the complete assembly of components listed in search.

Exhibit 3:

E Search Criteria			
Search On All Receipts v Ref.	. Doc. Date From / To		Components Created From / To
Status v	User Status	v	Age >= Days
Exceptions: 📄 Parameter Not Initialized 👘 Dormant Assembly 👘 No NSD / NSV 👘 Overdue NSD / NSV	v	Filter exceptions	Display Option: 📄 Include Child Components
	Search		Compact View Optailed View

- B) The component records that are fetched will be displayed in the Search Results column. The following columns will provide the below notification / action to the user once the records are fetched.
 - a. The PV (Parameter Value) column will display the following icons indicating the below,

(Not Available) - If the component in the record has no consumption parameter.

(Exception Current) – If one of the component's consumption parameter value has not been initialized.

 (Complete) - If all the component's consumption parameter values are initialized.

b. The CFG (Configuration) column will display the following icons indicating the below,

(Not Available) - If an active configuration is not available for the component.

(Exception Current) - If the assembly status of active component configuration is Dormant / Error.

 (Complete) - If the assembly status of active component configuration is Complete.

c. The PRG column will display the following icons indicating the below,

(Not Available) - If the component in the record has no active maintenance program.

(Exception Current) - If the component has the following attributes in the active maintenance program for the component,

- "Prog. Item Type" having value "Block", "Non-Block" or "Base".
- "Initiated / Reset by" set as "Self-Compliance".
- "Schedule Status" set as "active"
- And task with No NSD / NSV for recurring task or No LPD / LPV &

No NSD / NSV for one time task.

(or)

If the component has overdue task.

(Complete) - If the component has the following attributes in the active maintenance program for the component,

- "Prog. Item Type" should have value "Block", "Non-Block" or "Base".
- "Initiated / Reset by" should be set as "Self-Compliance".
- "Schedule Status" set as "active"

- And task with NSD / NSV for recurring task or LPD / LPV or NSD / NSV for one time task.

(or)

If the component does not have overdue task.

- d. Last Verification Comments The latest comment that is entered against the record will be fetched in this column, if available.
- e. TSN The cumulative value of the flight hours mapped as base parameter to the component will be displayed.
- f. CSN The cumulative value of the flying cycles mapped as base parameter to the component will be displayed.

Save Logic:

- When the status of receipt line is set as "Verified" and save is clicked, the component will be verified and the receipt line will be removed from the queue.
- The user can also mark the record as "On-hold" to verify the record line later.

The following process parameter is also newly added.

- Entity Type Tech Records Process Control
- Entity Review Records Update
- Process Parameter Allow maintenance issue of components with pending technical records update?
- Behavior If the option is set as "Not Allowed", the component will not be issued if the component is pending verification.

WHAT'S NEW IN CONFIGURATION?

A. Enhancements in piece parts screen of part configuration

Reference: AHBE-12049

Background

Boeing 787 e-enabling capability provides a new way to distribute software parts to the airplanes electronically and also to route data from the airplane, including the "As- flying" configuration of LSAPs (Loadable Software Airplane Parts). All 787 software parts will be stored electronically in a data center. In a similar manner, the LSAP configuration data for each airplane will be stored and managed electronically from an Operations Control Center.

Ramco's Aviation M&E solution enables effective tracking of software parts as piece parts within each Part Configuration defined in the system.

Change Details

Key highlights:

- a. Sequencing of piece parts in configuration.
- b. Facility to define of Position code and description for piece part positions.
- c. Capability to define of piece part position status.

The Edit Piece Part List page available in the Build Part Configuration activity and View Piece Part List page available in the View Part Configuration activity, have been modified so as to easily enable tracking of software parts. All piece parts including position controlled piece parts, can now be tracked within the Edit Piece Part List for Part page. [Edit Piece Part Position Details link which was earlier available in Edit Piece Part List for Parts will no longer be available]

The snapshots of the new interfaces are given below:

Exhibit 1: Edit Piece Part List for Components (Build Part Configuration activity)

Busin	ess Process: Bu	d Part Configuration				Customer:BASE	Project: BASE	User: PROTOUSER	Request: [LATE
🔒 Bu	siness Process •	┢ Objective 🕶			Proto Viewer			📔 🎕 🎝 🖭 🔶	🕕 🗾 🔡 Them
	Edit Piece Par	ts List						鸿 Trailbar 🗸	🔝 🚔 🖾
Part	Details								
		Mfr	. Part # / Mfr. #				Operator #		
			Part #				Operator #		
			Part Description				ATA #		
Piece	e Part Details								
«	 1 - 10 	10 🕨 💓 + -	e 4			🔂 📄 🛲 815 CSV (🔤 💶 💼 l 💷 💻 🗖	× *	Q
#	🗖 Seq. #	Position #	Position Description	Reference Part	#9	Reference Mfr. Part # 🔍	Referenc All		Part Description
1						Newly added controls	Se	eq. #	
2						,		osition Description	
3							Re	eference Part #	
4					Spare is rena	amed with Reference	Re	eference Mfr. Part #	
5							Re	eference Part Mfr. #	
7							Pa	art Description	
8							Re	er. Quantity	
9					Γ			osition Type	
10						Newly added controls	Po	osition Status	
Re-Number Newly added button							Re	emarks	>

Exhibit 2: View Piece Part List for Components (View Part Configuration activity)

art D	etail	5								2
	Mfr. Part # / Mfr. # Part #						o	Operator #		
							0	Operator #		
				Part Description				ATA #		
iece	Part	Details								E
«		1 - 10 / 1) 🕨 💌						× ×	۶
:	61	Seq. #	Position #	Position Description	Reference Part	#	Reference Mfr. Part #	Referen	_c All	Part Descriptio
						Newly added controls		r	Seq. #	
							Newly added controls	-	Position #	
	8								Reference Part #	
						Spare is ren	amed with Reference		Reference Mfr. Part #	
	-					opuro lo roll		٦	Reference Part Mfr. #	
	E								Part Description	
									Ref. Quantity	
									Position Type	
,	8						Newly added controls	Γ	Position Status	
						Newly added controls	1	Remarks		

B. Edit and View Piece Part List for Components

Reference: AHBE-1000

Background

Edit Piece Part List for Components screen basically allows user to enter the Piece Parts of Part Type 'Expendable'. This piece parts can be tracked at position code level against the Specific Component Configuration. User can update the Piece Parts with reference to the quantity required. Therefore this screen helps user to maintain the Piece part configuration with reference to components that are installed on the Aircraft.

View Piece Part List for Components screen helps user to review the latest Piece Part Configuration Changes as updated by the user.

Change Details

On launch of **Edit Piece Part List for Components** screen, the multiline section will display the counts of all the Piece Parts of specific component attached to the aircraft, under the below mentioned classifications.

- A. The following Columns are added newly in the Edit Piece Part List for Components.
 - (i) Seq. No,
 - (ii) Position #,
 - (iii) Position Description,
 - (iv) Existing Mfr. Part #, (Help Required)
 - (v) Existing Part #, (Help Required)
 - (vi) Existing Part Mfr. #, (Help Required)
 - (vii) Existing Qty.,
 - (viii) Trackable (Hidden Column),
 - (ix) Position Type,
 - (x) Position Status,
 - (xi) Ref. Doc #
 - (xii) Remarks
- B. Columns removed from Edit Piece Part List for Components screen Prefix for Position #
- C. Existing Columns of Edit Piece Part List for Components has to be renamed as Reference Part #, Ref. Part Mfr. #, Ref. Mfr. Part #, Reference Qty.
- D. The **View Piece Part List for Components** screen will be seen with following New columns :

- (i) Seq. No,
- (ii) Position #,
- (iii) Position Description,
- (iv) Existing Mfr. Part #,
- (v) Existing Part #,
- (vi) Existing Part Mfr. #,
- (vii) Existing Qty.,
- (viii) Trackable (Hidden Column),
- (ix) Position Type,
- (x) Position Status,
- (xi) Ref. Doc #
- (xii) Remarks

Note: Points B, C & E applicable for View Piece Part List for Components screen.

E. Link – Edit Piece Part Position Details Link has to be removed.

Edit Piece Parts List for Components

.	Edit	Piece F	Part List f	or Components									😹 Tralba	- 16) 🗟 💭	9
Comp	one	nt Deta	ls													
					Component #					ATA #						
				Mfr. P	art #/ Mfr. #					Serial #						
					Part #					Serial #						
				Pa	rt Description											
Piece	Par	t Details	5													
< ()	•	1 - 10	/ 10 💽 🗵						1 🔁 📑 💷	aa aa 📾 🖬 🚺 [AI 🗉		*		Q	
	8	Seq #	Position #	Position Descriptic -	Reference Part # 9	Reference Mfr. Part # 🥄	Reference Part Mfr. # 🭳	Existing Part # 9	Existing Mfr. Part # 9	Existing Part Mfr. # 🤍	Part Description	Ref. Quantity	Existing Qty.	UOM	Position T	
1	8															
2	۲			Position Descri	ption											
3																
4																
5	23															
6	10															
7	0															
8	0															
10	10															
		•														
		De Alterati	~				Edit Diaca Darte List									
	6	the meaning	<u> </u>				connectionation									
Configu	rato	n -> Buik	d Componen	t Configuration									110) 119 Mi	hute(s) 6:38	3 P1

Workflow:

C) The details of the piece parts can be modified, updated and maintained through this screen.

View Piece Parts List for Components

Viet	w Piece I	Part List fo	r Components										S\$ Tra	ilbar + 🚔 🖯	2 🏹 😣	
Compone	ent Detai	s													۵.	
			Co	mponent #												
	Mfr. Part #/ Mfr. #									Serial #						
	Part #							Serial #								
			Part	Description												
Piece Pa	rt Details															
<< 4	1 - 10 /	10 💌 👀							1 🔁 💽 🚥 🚥	💷 🂼 🖪 🖻	All		*		Q	
. 0	Seq #	Position #	Position Description	Reference Part #	Reference Mfr. Part #	Reference Part Mfr. #	Existing Part #	Existing Mfr. Part #	Existing Part Mir. #	Part Description	Ref. Quantity	Existing Qty	UCM	Position Type	Positic	
1 2																
2 8																
3 E																
4 E																
5 E																
6 E																
7 E																
8 E																
9 8																
10 8																
	•					m										
Configuration	n -> View	Component (Configuration											118 Minute	(s) 6:34 Pl	

WorkFlow:

A) All the latest saved records as available in the Edit Piece Parts list for Components screen are available in this View Piece Part List for Components screen.

C. Ability to display piece parts and related positions in the configuration help

Reference: AHBE-10702

Background

Ramco's M&E solution has the ability to track software parts as piece parts within the component configuration.

The Help on Configuration page has been enhanced so as to list piece parts also.

Change Details

The screen is enhanced to show piece parts defined in the component configuration. The user can fetch the piece parts and its details in the **Help on Configuration** screen, by checking the piece parts checkbox in the screen.

Exhibit 1:



Configuration -> Helps on Configuration

🕑 119 Minute(s) 11:49 AM

Display Filter

The fetched piece part details can be filtered using the following search criteria.

• Part # - The piece parts can be filtered directly by providing the Part # of the piece parts in this criterion.

- NHA All the piece parts that are defined for the NHA Part # or any of its subassemblies will be fetched based on the display level option. The Piece Parts have the same Level Code of the Part # to which it is attached.
- ATA # The piece parts in the configuration that belongs to the particular ATA will be fetched. For piece parts, ATA # provided in the parts **Maintain Maintenance Info.** screen will be considered.
- Position Code The piece parts that belong to a particular position in the configuration will be fetched.
- Display Level The piece parts that are defined for the parts in the specified level will be fetched. The Piece Parts have the same Level Code of the Part # to which it is attached.

Part Details:

The following columns have been added in the multiline,

- NHA Part # This will display the part # of the Next Higher Assembly to which the part is attached. If the Part is the highest in the assembly, the same part # will be displayed as NHA Part #.
- NHA Serial # This will display the serial # of the Next Higher Assembly to which the part is attached. If the Part is the highest in the assembly, the same serial # will be displayed as NHA serial #.
- Qty The quantity of the part defined in the configuration is displayed. If existing part # is available for the piece part, its quantity will be displayed. Else, the reference part # quantity will be displayed.

If multiple piece parts are fetched in the multiline, it will be sorted based on the level code followed by the sequence # of the piece parts.

Note: The system will list only those parts for which the position status is active. For piece parts, both the piece part and the NHA, position status should be active. And only the piece parts defined in component configuration will be fetched.

WHAT'S NEW IN CONFIGURATION REPORT?

A. Facilitate user to view the Alternate Part # in Model Configuration Report

Reference: AHBE-12572

Background

With this enhancement, Ramco facilitates user to view the Direct Alternate Part # for the Position part in **Model Configuration Report**.

Change Details

As seen in the below exhibit, Alternate Part # field has been added in **Model Configuration Report**.

Direct alternate parts belonging to the position part will be displayed in Alternate Part # field in **Model Configuration Report**.

Exhibit 1:

Model Configuration Report

C				Iodel Configurat	ion Report	Jet Airways (India) Limited 64, Sardar Patel Road, Taramani., Chennai, Tamil Nadu, India 600113			
AI	RCRAFT MODEL #				MODEL DESCRIPTION				
	A310				Airbus 310 Family		A 14 a		
	MANUFACTURER #	CONFIGURA	TION ID	CONFIGURATION STATUS	REVISION #		Alterr	late Part # columns	
AIRBUS RE		REGUL	.AR	Active	3				
SEQ NO#	LEVEL CODE	POSITION CODE		PART #	MANUFACTURER PART #	NHA	ZONE #		
	COMP. MAND	POSITION TYPE	:	PART DESCRIPTION	BASE PART #	ALTERNATE PAP	RT #	ATA #	
1	1.1	1	0)-1000PSI:2915Y	0-1000PSI	A310		100	
	No	Others	PRES	SURE, 3" DIA GAUGE	0-1000PSI:2915Y	0-1000PSI:61 0-1000PSIG:61 1000PSIG:61 138-70-0369:9 99974A1004:9	349, 1349, 349, 1349, 9999, 99999	00-00	

B. Aircraft Configuration Report layout change

Reference: AHBE-12573

Background

Currently, Position part's alternate is displayed in the Model Configuration report in a separate column. Hence the Alternate part column from the **Aircraft Configuration Report** is now removed for effective space utilization.

Change Details

As seen in the below exhibit Alternate Part # column has been removed from **Aircraft Configuration Report**.

Also, control name – "Body Station" is changed to "Position Formula". Formula defined for the position in configuration will be displayed in the Position formula.

Exhibit 1:

Aircraft Configuration Report

(Ē	Aircraft Con	figuration		Jet A 64, S Chen Tami India 6001	Lirways (India) I ardar Patel Road, T nai, 1 Nadu, 13	Limited Faramani.,		
	AIRCRAFT REG #		A	IRCRAFT MODEL #	VARIABLE TAB #	MFR SERIAL	.#		NOSE #	AIRCRAFT MAI	Œ	
VT-RMC A				A310	56	56			56	AIRBUS		
İ	REVISION #					-			c	ONFIG STATUS		
	12									Fresh		
SEQ #	LEVEL CODE	POSITI	ION CODE	PART #	COMPONENT #	SERIAL #	DATE OF A	TTACH.	ZONE #	POSITION FORMULA	TSN	
		POSIT	ION TYPE	PART DESCRIPTION		NHA	TIME OF !	ТТАСН.	ATA #		CSN	
1	1.3		3	CEM56-2C1:07482	COMP-002544	H45	01-Dec	-2013	100		21.57	
		Er	ngine	CFM56-2C1		VT-RMC	14:32	:27	00-00			

WHAT'S NEW IN ADDITIONAL REPORTS CONFIGURATION MANAGEMENT?

Facilitate user visibility on Part Description and Remaining Life value for the component in Component life Report.

Reference: AHBE-3646

Background

In Ramco Aviation solution, on mapping the parameter for the component, user can define 'Life parameter' for the component in the Consumption and Range Parameter page.

Currently, Ramco facilitates the user to view only '**Remaining Life (%)**' for the lifed parameter in component life Report.

Change Details

With the introduction of this new feature, Ramco facilitates user to view **Remaining Life** (Value) for the lifed parameter in Component life report and addition to this facilitates user to view the **Part Description** also.

Impacted controls references:-

The following are the controls added in the Component life Report. The Impacted controls are highlighted. Refer **Exhibit 1**.

- Remaining Life (Value)
- Part Desc.

Exhibit 1:

CBA irways			COMPONE	NT LIFE RE	PORT	ABC COI Chennai,	ABC COMPANY LIMITED Chennal,Tamil Nadu,India.			
Position Code	Part #	Serial #	Part Desc.	Component #	Parameter	Present Value	Ultimate Value	Remaining Life(Value)	Remaining Life(%)	
G # :CMP-1						<i></i>				
EM001	015T0805- 10:81205	CMP-1-1	ENGINE EXHAUST NOZZLE	COMP-001618	EC	500.00	1000.000	500.00	<u>50.00</u>	
EM001	015T0805- 10:81205	CMP-1-1	ENGINE EXHAUST NOZZLE	COMP-001618	EH	500.00	1000.000	500.00	50.00	
Engine P1	0009628:51563	CMP-1-3	T/REV HOLD OPEN ROD	COMP-001620	FC	1000.00	1000.000	0.00		
Engine P2	0009629:51563	CMP-1-6	T/REV LIFT SLING SLING	COMP-001622	FC	1000.00	1000.000	0.00		
Engine P3	012N8461- 18:81205	CMP-1-7	COWL, CORE COWLING	COMP-001623	EC	0.00	1000.000	1000.00	100.00	
	G # : CMP-1 E Position Code G # : CMP-1 E EM001 EM001 Engine P1 Engine P2 Engine P3	Position Part # Gd #: CMP-1 DISPLAY OPTION : I Position Part # Code Part # Gd #: CMP-1 D15T0805- 10:81205 EM001 015T0805- 10:81205 EM001 015T0805- 10:81205 Engine P1 0009628:51563 Engine P2 0009629:51563 Engine P3 012N8461- 18:81205	Position Code Part # Serial # G # : CMP-1 DISPLAY OPTION : Lifed Component Image: Code Part # Serial # G # : CMP-1 015T0805- 10:81205 CMP-1-1 EM001 015T0805- 10:81205 CMP-1-1 EM001 015T0805- 10:81205 CMP-1-1 Engine P1 0009628:51563 CMP-1-3 Engine P2 0009629:51563 CMP-1-6 Engine P3 012N8461- 18:81205 CMP-1-7	COMPONE COMPONE COMPONE COMPONE Code Part # Serial # Part Desc. Position Part # Serial # Part Desc. CMP-1 EM001 015T0805- 10:81205 CMP-1-1 ENGINE EXHAUST NOZZLE EM001 015T0805- 10:81205 CMP-1-1 ENGINE EXHAUST NOZZLE Engine P1 0009628:51563 CMP-1-3 T/REV HOLD OPEN ROD Engine P2 0009629:51563 CMP-1-6 T/REV LIFT SLING SLING Engine P3 012N8461- 18:81205 CMP-1-7 COWL, CORE	Position Code Part # Serial # Part Desc. Component # G # : CMP-1 DISPLAY OPTION : Lifed Components REMAINING LIFE (%) <= :	Position Code Part # Serial # Part Desc. Component # Parameter G# :CMP-1 O15T0805- 10.81205 CMP-1-1 ENGINE EXHAUST NOZZLE COMP-001618 EC EM001 015T0805- 10.81205 CMP-1-1 ENGINE EXHAUST NOZZLE COMP-001618 EC EM001 015T0805- 10.81205 CMP-1-1 ENGINE EXHAUST NOZZLE COMP-001618 EH Emgine P1 0009628:51563 CMP-1-3 T/REV HOLD OPEN ROD COMP-001620 FC Engine P2 0009629:51563 CMP-1-6 T/REV LIFT SLING SLING COMP-001622 FC Engine P3 012N8461- 18:81205 CMP-1-7 COWL, CORE COWLING COMP-001623 EC	Position Code Part # Serial # Part Desc. Component # Parameter Present Value G# : CMP-1 DISPLAY OPTION : Lifed Components REMAINING LIFE (%) <= :	Position Part # Serial # Part Desc. Component # Parameter Present Value Ultimate Value G# : CMP-1 01570805- 10.81205 CMP-1-1 ENGINE EXHAUST NOZZLE Comp-001618 EC 500.00 1000.000 Engine P1 0009628:51563 CMP-1-3 T/REV HOLD OPEN ROD COMP-001622 FC 1000.000 1000.000 Engine P3 012N8461- 18:81205 CMP-1-7 COWL, CORE COMP-001623 EC 0.00 1000.000	Position Part # Serial # Part Desc. Component # Parameter Present Value Ultimate Value Remaining Life(Value) G# : CMP-1 DISPLAY OPTION : Lifed Components REMAINING LIFE (%) <= :	

WHAT'S NEW IN MAINTENANCE PROGRAM?

A. Facility to retrieve alternate part # in Position Based Schedule screen on search by alternate part

Reference: AHBE-3496

Background

In Ramco Aviation solution, when user searches with Part # in **Maintain Position Based Schedule** page, the system retrieves the part # which is available in the Model Configuration.

Example:

- Part (P1) is available in the Model Configuration of the model (A320) and position (LHS).
- Part (P2) is defined as alternate part / interchangeable part for the Part (P1). Alternate Part is defined in the Maintain Alternate Part Nos page of the Part Administration business component. Interchangeable part is defined in the Model Configuration of the Configuration business component.
- If the user searches for the alternate part (P2) in the Maintain Position Based schedule page, currently Ramco will not retrieve the alternate part (P2) in the multiline.

Change Details

With the introduction of this new feature, if the user searches with alternate part (P2) in the **Maintain Position Based Schedule** page, but the alternate Part (P2) is not available in the configuration, Ramco will retrieve the alternate part (P2) and configuration details.

Example:

- Part (P1) is available in the model configuration of the model (A320) and position (LHS).
- ▶ Part (P2) is defined as alternate part / interchangeable part for the Part (P1).
- If the user searches for the alternate part (P2) in the Maintain Position Based Schedule page, Ramco will retrieve the alternate part (P2) in the multiline with Model (A320) and position (LHS).

B. Ability to restrict the modification of Eng.Doc task attributes in Maintenance Program

Reference: AHBE-795

Background

Currently in Ramco Aviation Solution, Eng.Doc task attributes can be modified in Maintenance Program.

Change Details

With the introduction of this new feature, the user can modify the Eng.Doc task attribute in Maintenance Program based on the option set for the Eng. Doc type in **Define Process Entities** activity.

- If the process parameter "Allow Modification of Eng. Doc task in "Maintenance Program' is set as "Not Allowed" for the Eng. Doc type in Define Process Entities activity, the user cannot modify the Eng.doc task attributes in Maintenance Program / Initialize Maint. Prog. & Update Compliance activity.
- If "Allow Modification of Eng. Doc task in Maintenance Program" is set as "Allowed" for the Eng. Doc type in **Define Process Entities** activity, the user can modify the Eng.doc task attributes in **Maintenance Program / Initialize Maint. Prog. & Update Compliance** activity.

Exhibit - 1:

Impacted Screen references:

The following are the controls of values that can be modified, if the option is set as "Not Allowed":

SI. NO	Screens	Controls / Columns
1	Edit Maintenance Program (Model Program)	None of the values can be modified.
	Edit Maintenance Program (Aircraft Program)	
2	Edit Schedule Information (Model Program)	None of the values can be modified.
	Edit Schedule Information (Aircraft Specific Program)	
3	Edit Schedule Date / Value (Aircraft Specific Program)	Next Schedule date/ Value and Last Performed date/ Value can be modified
4.	Maintain Component Maintenance Program	None of the values can be modified.
	Maintain Part Programs	
5	Edit Date Base Schedule (Maintain Part Programs)	None of the values can be modified.
	Edit Date Base Schedule (Maintain Component Maintenance Programs)	
	Update Work Units to Program	
6	Edit Usage Base Schedule (Maintain Part Programs)	None of the values can be modified.
	Edit Usage Base Schedule (Maintain Component Maintenance Programs)	
	Update Work Units to Program	
7	Initialize Maintenance Program and Update Compliance Screen	Next Schedule date/Value and Last Performed Date/Value can be modified
8.	Update Work Units to Program (Action: Over Write/Delete)	None of the values can be modified.

- Note: Addition of Eng. Doc task with Engineering Document Reference # to Program is allowed.
- Schedule addition and Schedule deletion of engineering document task is not allowed in Maintenance Program.
- User can add the Eng. Doc # for the existing task in Maintenance Program even if the task is not effective for the Engineering document, however, the user cannot modify the task's attribute in Maintenance Program, if the option is set as "Not Allowed". (If the option is set as "Allowed" then the user can modify this task attribute in Program)
- User can add the Eng. Doc task and Eng. Doc # in Model program even if the Aircraft associated to the Model program is not effective for the Engineering Document, however the user cannot modify the task attributes in Maintenance Program, if the option is set as "Not Allowed".

C. Facility to consider threshold for computing Next Schedule Date / Value for task which is getting initiated based on initiate schedule relationship.

Reference: AHBE-3231

Background

Currently in Ramco Aviation solution, if the task is initiated based on initiate schedule relationship, Next Schedule Date / Value will be computed for related task by adding the Last Compliance date /value of parent task with interval of the related task (initiated task).

Change Details

With the introduction of this new feature, if the task is initiated based on initiate schedule relationship and if

- Last Performed date/value is not exists for the task (related task) in program then Next Schedule Date/Value will be computed, by adding Last Performed Date/Value of parent task with threshold value of the related task and system will update
 - Next Due Calc. On as 'RTC : Initial Interval'
 - Calc. Ref Date / Value as 'Parent task Last Performed date/value'
 - Last Schedule Date / Value as 'Not Applicable'
- Last Performed Date/value exists for the task (related task) in program then Next Schedule Date/Value will be computed, by adding Last Performed Date/Value of parent task with threshold value of the related task and system will update
 - Next Due Calc. On as 'RTC'
 - Calc. Ref Date / Value as 'Parent task Last Performed date/value'
 - Last Schedule Date / Value as 'Original Schedule Date/ Value'
- Note: If interval alone is provided for the related task, then system will consider interval to compute Next Schedule Date/Value, even if the task (related task) is not already complied.

D. Ability to Compute Next due for a task on every Attachment of the component

Reference: AHBE-8611

Background

Currently in Ramco Aviation, system will reset Next Schedule Date on off-wing compliance of a task and compute Next schedule date on first attachment of the component after off-wing compliance, if the 'Update Basis' is set as "Installation Date".

In certain business scenarios, task needs to be performed on every attachment of the component to an Aircraft.

Change Details

With the introduction of this new feature, Ramco will compute the Next Schedule Date / Next Schedule Value on attachment of the component to an Aircraft, if the 'Reset on Attachment' is selected as "Every Attachment" in **Component Maintenance Program**.

System will reset the Next Schedule Date / Next Schedule Value as blank on compliance of the task (On-wing / off-wing compliance)

The 'Reset on Attachment?' control is added in the following user interface.

- Maintain Part Program (Drop-down control)
- > Maintain Component Maintenance Program (Drop-down control)
- Update Work units to Program (Drop-down control)
- > Initialize Maintenance Program & Update Compliance (Drop-down control)
- View Part Program (Display only)
- View Component Maintenance Program (Drop-down control)

During Compliance of component task,

- 1. If 'Reset on Attachment' is selected as "Not Required" in **Component Maintenance Program**, then compute schedule as below:
 - a. Next Schedule Date = Last Performed Date + Interval
 - b. Next Schedule Value = Last Performed Value + interval
- 2. If 'Reset on Attachment' is selected as "First Attachment" in **Component Maintenance Program** and the component is attached in an Aircraft, then compute schedule as below:
 - a. Next Schedule Date = Attachment date + Interval
 - b. Next Schedule Value = Last Performed Value + Interval

- 3. If 'Reset on Attachment' is selected as "First Attachment" in **Component Maintenance Program** and the component is not attached in an Aircraft, then compute schedule as below
 - a. Next Schedule Date = Blank
 - b. Next Schedule Value = Last Performed Value + Interval
- 4. If 'Reset on Attachment' is selected as "Ever Attachment" in **Component Maintenance Program** and the component is attached in an Aircraft, then compute schedule as below:
 - a. Next Schedule Date = Blank
 - b. Next Schedule Value = Blank
- Note: During backdated compliance (Last Performed date is lesser than the Component attachment date) system will compute NSD as Attachment date + interval.

Key points to be noted:

- User can change the 'Reset on Attachment; for a task in Component Maintenance Program but system will not compute the Next Schedule Date / Next Schedule Value at that point of time. System will re-compute the Next Schedule Date / Value on next attachment of the component to an Aircraft
- After compliance, if user removes the Last Performed Date / Value for an Every Attachment task in Edit Date Base Schedule / Edit Usage Base Schedule, then system will compute Next Schedule Date as Attachment Date + Threshold and Next Schedule Value as Parameter on Attachment date and time + threshold.

Exhibit 1:

Schedule Computation logic: Reset on Attachment – First Attachment



Exhibit 2:

Schedule Computation logic: Reset on Attachment - Every Attachment



Exhibit 3:

Following are the schedule computation for a task on different instance

Instance	Computation of NSD/NSV for a task, if Reset on Attachment
	is set as Every Attachment
On Attachment of component to an Aircraft	Next Schedule Date = Installation Date + Threshold
	Next Schedule Value = Parameter Value on Component
	attachment date + Threshold
Amendment of Component Attachment	Next Schedule Date = Installation Date + Threshold
	Next Schedule Value = Parameter Value on Component
	attachment date + Threshold
On Removal of component from an Aircraft	Next Schedule Date = Blank
	Next Schedule Value = Blank
Reverse the Removal of component	Next Schedule Date = Installation Date + Threshold
	Next Schedule Value = Parameter Value on Component
	attachment date + Threshold
Attachment after Task Compliance	Next Schedule Date = Installation Date + Interval
	Next Schedule Value = Parameter Value on Component
	attachment date + Interval
Compliance Deletion / Reverse	Next Schedule Date = Installation Date + Threshold
	Next Schedule Value = Parameter Value on Component
	attachment date + Threshold
	If the component is not attached then update Next Schedule
	Date and Next Schedule Value as Blank
Manually update the Next Schedule Date &	Next Schedule Date = user entered date
Value	Next Schedule Value = user entered value
	If the component is not attached system will display an error.
Changes in Threshold / Interval	Next Schedule Date = Installation Date + Threshold
Maintain Activate Task/ Edit Date Base	Next Schedule Value = Parameter Value on Component
Schedule/Edit Usage Base Schedule/Position	attachment date + Threshold
Base Schedule/Initialize Maintenance	If the component is not attached in an Aircraft don't compute.
Program & Update Compliance	
Parameter Value Updation	Compute Next Schedule Value = Parameter Value on
	Component attachment date + Threshold/interval

Exhibit 4:

1. Part Program

Main	tenance Details						
[▲ 1 - 5 / 5 ▶ ≫ 	+	- @ 4	[Al 🖌	Q
#	🖹 em Type		Default Exe. Priority	Initiated/ Reset by	Reset on Attachment?	Parent Item #	
1	E	×	×	~	1	×	
2	包	*	*	*		Newly added drop-	
3	E	×	*	~	NOT Required	down control	
4	司	×	*	*	First Attachment	down control	
5	E	*	*	*	Every Attachment		
		-	m				- ,
Get	Base Task						
0.0000							

2. Component Maintenance Program:

Main	tenance Details						
[</th <th>4 1 - 5 / 5 🕨 🚿</th> <th>+ - 0 2</th> <th></th> <th></th> <th>2</th> <th>Al</th> <th>Q</th>	4 1 - 5 / 5 🕨 🚿	+ - 0 2			2	Al	Q
#	🗄 em Type	Default Exe. Priority	Initiated/ Reset by	Reset on A	ittachment?	Parent Item #	
1	E	× .	0	¥	1		
2	10	× .	÷	*	N 10		
3	E	*	•	VINOT Requi	ired		
4	E	×	0	Y First Attac	chment I	Newly added drop-	
5	E	v	•	 Every ALL 	achmenic	down control	
Get	ase Task						•

3. Update Work Units to Program:-

Execution Details	
Execution Facility	Work Center # Newly added drop-
Time Unit 🔤	Estimated Duration down control
Turn Around Time	On-Wing(Y/N)
Shelf Life Expiry	Expense Type
Default Exe. Priority	Reset on Attachment?

4. View Part Program

Main	tenance Details					
<< [1 - 5 / 5 🕨 💓				🔁 💽 🚥 🚥 📷 🏭 🗭 🗚	~
#	🗉 Item Type	Default Exe. Priority	Initiated/ Reset by	Reset on Attachment?	Parent Item #	
1	8					
2	15			Not Required		
3	10			First Attachment	Newly added display	
4	13			Every Attachment	control	
5	23					

5. View Component Maintenance Program

Mair	itenance Details					
<<	1 - 5 / 5 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>				🖣 💽 🚥 🛤 🖬 💼 🚛 💷 🗛 🗛	~
#	🗉 Item Type	Default Exe. Priority	Initiated/ Reset by	Reset on Attachment?	Parent Item #	
1	10					
2	15			Not Required		
3	E			First Attachment	Newly added display	
4	13			Every Attachment	control	
5	23					

6. View Program Information

3 53 660														
Task Description	In	fo. Paramet	er Time Uni	t Threshold Valu	e Interva	Last Pfd. Date	Last Pfd. Value	Next Sch. Date	Next Sch. Value 🔺	ATA #	Current Value	Rem.Value	M P. # #	" Packa. Rese
nspection	3 (Calendar	Days 3	300.00	500.00		20 11	014-15-12 2:59:00		00-00	3	356D 7H 36M	C 2 - 0.	Every Attachm
nspection		Calendar	Days	100.00		2013-01-06 01:51:00				00-00	Newly	added di		Every Attachm
nspection	·	FH			20.00					00-00	110 contro		spidy	First Attachn
nspection	•••	Calendar	Days 3	20.00	25.00		20 12	013-21-01 2:00:00		00-00		336D 17H 22M	C 2 - 0	First Attachm
nsnection		Calendar	Davs !	30.00	10.00	1	21	013-31-01		00-00		326D 17H	C 2	Not

Exhibit 5:

Data Migration logic - Reset on Attachment:

Parts / Components program tasks which have

- Only date based schedule with 'Update Basis' as "Installation Date" will be updated with "First Attachment".
- Only date based schedule with "Update Basis' as "Last Performed Date" will be updated as "Not Required".
- > Only usage based schedule will be updated as "Not Required".
- Date and usage based schedules and having 'Update Basis' as 'Installation Date will be updated as "First Attachment".
- Note: The above enhancement is currently not done in Initialize Maintenance Program screen. It will be released in next enhancement shipment.

E. Visibility of Next Schedule Date / Value Computation Basis & control of Next Schedule Date / Value modification

Reference: AHBE-9953

Background

Currently in Ramco Aviation, the system computes Next Schedule Date / Value for a task based on Induction date, Threshold and LPD / LPV etc.

Example:

On association of task to a Program, the system computes Next Schedule Date as Induction date / Mfr. Date + threshold & Next Schedule Value as Threshold.

During Compliance of Task for which update basis is 'Time Window', and if,

- The compliance date falls within the tolerance value (date range), then system computes NSD as Previous schedule Date + Interval.
- The compliance date falls outside the tolerance value (date range) then system computes NSD as LPD + Interval.

Since various computation methods exists for computing NSD / NSV for the task, visibility of computation reference is brought into the screens.

Change Details

As part of this enhancement, the following controls have been added across program and **Initialize Maintenance Program & Update Compliance** screen.

- Next Due Calc. On Display only
- Calc. Ref. Date / Value Display only
- Last Schedule Date / Value Display only
- Change Type Drop-down

Following value will be loaded in Change Type drop-down

- ➤ "Blank"
- "Correction"
- ➤ "Re-Baseline"

With the introduction of this new feature, when the Next Schedule Date / Value for the task got computed in Program, system will display the following values.

Next Due Calc. On – This helps the user to understand on what reference basis the NSD/V is getting computed. A detailed possible combination is depicted in the Matrix.
- Calc. Ref. Date / Value This helps the user to understand on what reference date/value the NSD/V is getting computed. A detailed possible combination is depicted in the Matrix.
- Last Schedule Date /Value This will display the actual schedule date / value of task on last compliance.

This will provide the clear idea for the user on Next Schedule Date / Value computation logic.

Impacted controls references:

Next Due Calc. On, Calc. Ref. Date / Value, Last Schedule Date / Value and Change Type controls are added in the following User Interfaces.

- > Edit Schedule Date / Value (Aircraft Maintenance Program)
- View Program Information (Aircraft Maintenance Program)
- > Edit Date Base Schedule (Component Maintenance Program)
- > Edit Usage Base Schedule (Component Maintenance Program)
- View Date Base Schedule (Component Maintenance Program)
- View Usage Base Schedule (Component Maintenance Program)
- > Initialize Maintenance Program & Update Compliance
- Note: Change Type drop-down is not added in View Program Information, View Date Base Schedule and View Usage Base Schedule interfaces.

Exhibit 1: Impacted Controls are highlighted in the below screen shots:

1. Edit Schedule Date / Value (Aircraft Maintenance Program)

Date Based Schedule Details					
Last Perform Thresh Earliest Sched Ale	ed Date & Time Id Date & Time Ie Date & Time rt Date & Time Remarks	6	Newly added Control	Terminating Date & Time Next Scheduled Date & Time Latest Schedule Date & Time Rem. Days Change Type	
Nex Last	t Due Calc. On Schedule Date			Calc. Ref. Date	
Usage Based Schedule Details					
« • • - » • • • •	8]		1		AI AI
# 🗈 Next Due Calc. On	Calc. Ref. Value	Last Schedule Value	Change Type	Terminating Value	Parameter Description
1 0 2 0 3 0 4 0			Re-baseline Correction	Newly	added Control

2. View Program information (Aircraft Maintenance Program)

Prog	ram Ta	sk Detai	ls								Newly	addeid							
1	-										con	trols							
o. Pa	rameter	Time Un	it Thresho	id Value	Interval	Last Pfd. Date	Last Pfd. Value	Next Sch. Date	Next Sich. Value	ATA	# Current Va	lue Rem.Value	Maint.Prog	# Proy Row :	Next Due Calc. On	Calc. Ref Date	Last Scheidule Date	Calc. Ref. Value	Last Schedule Value
Callend	lar Di	ays	30.00	10	.00 1	13-Mar-2014	2	3-Mar-20114		00-00		10 Days	AMP-1	0	Actual Completion	13-Mar- 2014	31-Jan- 2014		
÷C:			100.00	20	.00				135.00	00-00	100.00	35.00	AMP-1	0	Manual : Correction			135.00	
FH			100.00	20	.00				13:5.00	00-00	100.00	35.00	AMP-1	0	Manual : Correction			135.00	
										00-00			AMP-1	0					
Calend	lar Di	sys	47.00	20	.00					00-00			AMP-1	0					
										00-00			AMP-1	0					
Callend	lar Di	sys	100.00	30	.00 0)7-Mar-2014	0	8-Apr-2014		00-00		24 Days	AMP-1	0	Actual	07-Mar-			
•																			•
14	4 Pa	ge 1. o	f 2: 🕨 🕨	11.85														Tob	al : 1 - 10 of 1
View Pr	ogram M	Iodificatio	n Log																

3. Edit Date Base Schedule (Component Maintenance Program)

	Edit Date Based Schedule Information								
		CMP Status		Revision #					
Maint	Maintenance Activity Details								
Date	Based Schedule Details	Work Unit #	Get Details	Newly added controls	Maintenance Type Work Center Description	1			
× .	• <u>1</u> -5/5 • » + -	[1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
#	nce	Negative Tolerance	Next Due Calc, On	Calc. Ref. Date	Last Schedule Date	Change Type			
1						✓			
2									
3						Correction			
4						Ke-Dasemie			

4. Edit Usage Base Schedule (Component Maintenance Program)

	Edit U	Isage Based Schedule Information	n						
			CMP Status						
Main	Maintenance Activity Details								
Work Unit # 🔽				Get Details					
Work Unit Description									
Work Center #									
Usag	ge Base	ed Schedule Details		Newly added controls					
			1						
			1		1 E				
#		Next Due Calc. On	Calc. Ref. Date	Last Schedule Date	Change Type				
1					▼				
2									
3					Correction				
4					Re-Daseline				

5. View Date Base Schedule (Component Maintenance Program)

e Based Schedule Details	Work Unit # TSK-CMP-15	Get Details	N ewly added Controls	Maintenance Type Inspection Work Center Description
 I - 1/1 ► ≫ + ₽ ¥ K legative Tolerance 	Next Due Calc. On	Calc. Ref. Value	Last Schedule Value	Terminating Date

6. View Usage Base Schedule (Component Maintenance Program)

	1	a a a a a a a 🔒 🖡 🗭	Al
lue Ne.	xt Due Calc. On	Calc. Ref. Value	Last Schedule Value
	lue Ne	lue Next Due Calc. On	lue Next Due Calc. On Calc. Ref. Value

7. Initialize Maintenance Program & Update Compliance (Aircraft & Component Maintenance Program)

-		D!	richteri							
Tas	c Deta	[No records to display]))))))	Newlya	dded ols		1 1 1 1 1 1		Al	v
	E)	Arcraft Rieg # Q.	Part # Q	Serial # Q	Task # Q	Next Due Calc. On	Calc. Ref. Date / Value	Last Schedule Date / Value	Change Type	
1	E									۲

Points to be noted:-

1. Impact on Schedule Modification:

When user modifies the Next schedule Date / Value (or) Last Performed Date / Value, system will mandate user to select the Change Type (Correction / Baselined).

- If the user selects the Change type as "Correction" by modifying the Next Schedule Date / Value, system will save the user entered Next Schedule Date / Value. Further when user modifies the schedule information (Threshold / Interval) for the task system will overwrite the user entered Next Schedule date / Value.
- If user selects the Change type as "Re-baseline" by modifying the Next Schedule Date/Value, system will save the user entered Next Schedule Date / Value. Further when user modifies the schedule information (Threshold / Interval) for the task, system will not overwrite the user entered Next Schedule date / Value.

- Even if the Next Schedule Date/Value for the Task is "Re-baseline", the following transaction will overwrite Baselined Next Schedule Date / Value.
 - Compliance of task.
 - Compliance Correction & Deletion
 - Position Base schedule inheritance.
 - Releasing of Eng. Doc.
 - Attachment of component to an Aircraft for the task with Reset on Attachment is set as First Attachment / Every Attachment.

During Compliance of Task for which update basis is 'Time Window', and if,

- The compliance date/value falls within the tolerance value (date range), then system will compute NSD/NSV as Previous schedule Date/Value + Interval. Further when user modifies the interval for the task, the system will re-compute NSD/NSV as Previous schedule Date/Value + Modified Interval.
- The compliance date/value falls within the tolerance value (date range), then system will compute NSD/NSV as Previous schedule Date/Value + Interval. Further when user modifies the Last Performed Date / Value by removing the NSD/NSV and selecting the change type as "Correction", the system will compute NSD/NSV as 'User entered LPD /LPV + interval'.
- The compliance date/value falls within the tolerance value (date range), then system will compute NSD/NSV as Previous schedule Date/Value + Interval. Further when user modifies the Last Performed Date / Value by removing the NSD/NSV and selecting the change type as "Re-baseline", the system will compute NSD/NSV as 'User entered LPD /LPV + interval'.

2. Impact on Backdate Journey log:-

During Compliance of Task for which update basis is 'Time Window', and if,

- The compliance value falls within the tolerance value (value range), then system will compute NSV as Previous schedule Value + Interval. Further when user records the backdated journey log for an Aircraft which changes the compliance value falls outside the tolerance range, then system will compute NSV as LPV + interval.
- The compliance value falls within the tolerance value (value range), then system will compute NSV as Previous schedule Value + Interval. Further when user modifies the LPV/NSV with change type as 'Correction', system will save the user enter LPV & NSV. Once again if user records backdated journey log / Update the Parameter for an Aircraft, then system will overwrite the user entered LPV & re-compute NSV as LPV + interval.

The compliance value falls within the tolerance value (value range) then system will compute NSV as Previous schedule Value + Interval. Further when user modifies the LPV/NSV with change type as '**Re-baseline**', system will save the user entered value and once again if user records backdated journey log for an Aircraft, then system will not overwrite the user entered LPV & NSV.

Exhibit 2:

Following are the scenarios of Next Schedule Date / Value Computation for the tasks and its Computation reference basis.

Scenario	Next Due Calc. On	Calc. Ref. Value / Date	Last Schedule Date / Value
On adding task, if no schedules are available	Blank	Blank	Blank
(Aircraft task)			
If 'Date based schedules' gets copied from	Induction /	Corresponding	Not Applicable
'Maintenance Task' component or 'Model	Operation Date	Date	
Program', and NSD is computed based on			
'Reference Basis' - Operational Date or			
Induction Date (Aircraft task)			
On addition of component task	Mfr. Date	Corresponding	Not Applicable
		Date	
NSD computation based on 'Threshold / Interval	Initial Interval	Threshold /	Not Applicable
Value' entered		Interval Value	
During compliance, if NSD / NSV computation	Time Window /	Last Due Value /	Last Due Value / Date
based on 'Update Basis' - Time Window or	Schedule	Date	
Schedule			
During compliance, if NSD / NSV computation	Actual	Last Performed	Last Due Value
based on 'Update Basis' - Actual Completion	Completion	Value	
On addition of a task with 'Initiated / Reset by'	Not Applicable	Not Applicable	Not Applicable
set as "Related Task Compliance"			
On compliance of a parent task 'Initiated' the	Not Applicable	Not Applicable	Last Due Value / Date
child task then for Parent task			
On compliance of a parent task 'Initiated' the	RTC : Initial	Last Performed	Not Applicable
child task and if the child task is not Previously	Interval	Date / Value of	
complied		parent task	

On compliance of a parent task 'Initiated' the	RTC	Last Performed	Not Applicable
child task if the child task is Previously complied		Date / Value of	
		parent task	
Complied the task after the Short Term	STE : Last	Last Due Value /	Last Due Value / Date
escalation and NSD / NSV computation based	Schedule	Date	
'Schedule Reset Basis' set as "Last Schedule"			
Complied the task after the Short Term	STE : Actual	Last Performed	Last Due Value / Date
escalation and NSD / NSV computation based	Completion	Value / Date	
'Schedule Reset Basis' set as "Actual			
Completion"			
On modifying interval for task having Position	PBS : Mfr. Date /	Corresponding	Not Applicable
Based Schedule (PBS) and the task is not	PBS : Initial	Date / Threshold	
complied previously	Interval	or Interval	
On modifying interval for a complied task having	PBS : Time	Last Due Date /	Last Due Date / Value
position based schedule (complied with in the	Window	Value	
permitted limit of time window)			
On modifying interval for a complied task having	PBS : Actual	Last Performed	Last Due Date / Value
position based schedule (complied with in the	Completion	Date / Value	
limit on last compliance or 'Update Basis' is set			
as "Actual Completion")			
On compliance of parent task triggering its	PBS : RTC	Last Performed	Not Applicable
'Initiate Schedule' "Related Task Compliance"		Value of parent	
task having position base schedule		task	
Complied the task after the Short Term	PBS-STE : Last	Last Due Date /	Last Due Date / Value
escalation and NSD/V computation based	Schedule	Value	
'Schedule Reset Basis' set as "Last Schedule"			
Complied the task after the Short Term	PBS-STE :	Last Performed	Last Due Date / Value
escalation and NSD/V computation based	Actual	Date / Value	
'Schedule Reset Basis' set as "Actual	Completion		
Completion"			

Exhibit 3:

The system updates the NSD / NSV computation basis controls 'Next Due Calc. On', 'Calc. Ref. Date' and 'Last Schedule Date / Value' for aircraft / component tasks, based on the 'Change Type' selected and the value entered by the user:

'Change Type'	Value entered by user	Next Due	Calc. Ref. Date /	Last Schedule Date / Value
selected		Calc. On	Value	
Correction	If the user manually enters	Manual :	Value / Date & Time	Not Applicable
	NSV / NSD	Correction	entered by user	
Correction	If the user modifies the	Initial Interval	Threshold / Interval	Not Applicable
	interval / Threshold of a task			
	added with manually			
	entered NSV (Aircraft task)			
Correction	If the user modifies the	Induction Date	Corresponding Date	Not Applicable
	interval / Threshold of a task	/ Operational	& Time	
	added with manually	Date (For		
	entered NSD	Aircraft task)		
Correction	If the user manually enters	Manual :	Value / Date and	Not Applicable
	LPD / LPV	Correction	Time entered by	
			user	
Correction	If the user modifies the	Initial Interval	Threshold / Interval	Not Applicable
	interval / Threshold of a task			
	added with manually			
	entered LPV (Aircraft task)			
Correction	If the user modifies the	Induction Date	Corresponding Date	Not Applicable
	interval / Threshold of a task	/ Operational		
	added and manually enters	Date (For		
	LPD	Aircraft task)		
		Mfr. Date (For		
		Component		
		Task)		
Correction	NSD / NSV, LPD, LPV	Manual :	Value / Date and	Not Applicable
		Correction	Time entered by	
			user	
Correction	If the user modifies the	Initial Interval	Threshold / Interval	Not Applicable
	interval / Threshold of a task			
	added with manually			
	entered NSV, LPV (Aircraft			

	task)			
Correction	If the user modifies the	Induction Date	Corresponding Date	Not Applicable
	interval / Threshold of a task	/ Operational		
	added with manually	Date (For		
	entered NSD, LPD	Aircraft task)		
		Mfr. Date (For		
		Component		
		Task)		
Re-baseline	If the user modifies the	Manual : Re-	Not Applicable	Not Applicable
	interval / Threshold of a task	baseline		
	added with manually			
	entered NSD / NSV			
Re-baseline	If the user modifies the	Manual : Re-	Value / Date and	Not Applicable
	interval / Threshold of a task	baseline	Time entered by	
	added with manually		user	
	entered LPD / LPV			
Re-baseline	NSD / NSV, LPD / LPV	Manual : Re-	Value / Date and	Not Applicable
		baseline	Time entered by	
			user	
Re-baseline	If the user modifies the	Manual : Re-	Value / Date and	Not Applicable
	interval / Threshold of a task	baseline	Time entered by	
	added with manually		user	
	entered NSV, LPV			
Correction	If the user modifies NSD /	Manual :	Value / Date & Time	Last Due Value Date and Time
	NSV manually	Correction	entered by user	
Correction	If the user modifies the	Time Window /	Last Due Value /	Last Due Value or Date and
	interval of complied task	Actual	Actual Compliance	Time
	having manually entered	Completion		
	NSD / NSV			
Correction	If the user modifies LSD /	Manual :	Date & Time / Value	Last Due Value or Date and
	LSV manually	Correction	entered by user	Time
Correction	If user modifies the interval	Time Window /	Last Due Date &	Last Due Value or Date and
	for a complied task having	Actual	Time / Value and	Time
	manually entered LSD / LSV	Completion	Actual Compliance	
Correction	If the user modifies LSD /	Manual :	Value / Date and	Last Due Value or Date and
	LSV and NSD / NSV	Correction	Time entered by	Time
	manually		user	
Correction	If user modifies the interval	Time Window /	Last Due Value /	Last Due Value or Date and
	for a complied task having	Actual	Actual Compliance	Time
	manually entered LPD / LPV	Completion		
	and NSD / NSV			

Re-baseline	If the user modifies NSD /	Manual : Re-	Value / Date and	Last Due Value or Date and
	NSV manually	baseline	Time entered by	Time
			user	
Re-baseline	If the user modifies the	Manual : Re-	Value / Date and	Last Due Value or Date and
	interval of complied task	baseline	Time entered by	Time
	having manually entered		user	
	NSD / NSV			
Re-baseline	If the user modifies LSD /	Manual : Re-	Date / Value entered	Last Due Value or Date and
	LSV manually	baseline	by user	Time
Re-baseline	If user modifies the interval	Manual : Re-	Date / Value entered	Last Due Value or Date and
	for a complied task having	baseline	by user	Time
	manually entered LSD / LSV			
Re-baseline	If the user modifies LSD /	Manual : Re-	Value / Date and	Last Due Value or Date and
	LSV and NSD / NSV	baseline	Time entered by	Time
	manually		user	
Re-baseline	If user modifies the interval	Manual : Re-	Not Applicable	Last Due Value or Date and
	for a complied task having	baseline		Time
	manually entered LSD / LSV			
	and NSD / NSV			

Exhibit 4:

Following are the scenarios of Next Schedule Date / Value Computation for the tasks and its Computation reference basis on Activation of Position Base Schedule / Inactivation Position Based Schedule/Attachment of component to an Aircraft.

Scenario	Next Due Calc. On	Calc. Ref. Date / Value	Last Schedule Date /
			Value
Before compliance if user manually	PBS-Manual : Correction	Value / Date and Time	Not Applicable
corrected the NSD/NSV for the task		entered by user	
for which PBS exists.			
Attachment of component to the	PBS-Mfr. Date / PBS - Initial	Corresponding Date & Time /	Not Applicable
Position for which PBS	Interval	Threshold / interval entered	
exists/Activation of PBS			
Before compliance if user Manually	PBS-Manual : Correction	LPD/LPV entered by user	Not Applicable
entered the LPD/LPV for the task			
by removing the NSD/NSV for			
which PBS exists.			

Before compliance if user Manually	PBS-Manual : Re-baseline	Value / Date and Time	Not Applicable
baseline the NSD/NSV for the task		entered by user	
for which PBS exists			
Before compliance if user	PBS-Manual : Re-baseline	LPD/LPV entered by user	Not Applicable
Manually baseline the LPD/LPV for			
the task by removing NSD/NSV for			
which PBS exists			
After compliance if user Manually	PBS-Manual : Correction	Value / Date and Time	Last Due Date & Time /
corrected the NSD/NSV for the task		entered by user	Value
for which PBS exists.			
Complied the with Sch. Impact on	Time Window or Actual	Last Due Value Or Actual	Last Due Date & Time /
Position Change as 'Reset	Completion	Compliance	Value
Template Program', system will			
copy the schedule from Part			
Program			
After compliance if user Manually	PBS - Manual : Correction	Value entered by user	Last Due Date & Time /
entered the LPD/LPV for the task			Value
by removing the NSD/NSV for			
which PBS exists.			
Complied the with Sch. Impact on	PBS - Time Window or Actual	Last Due date and time /	Last Due Date & Time /
Position Change as 'Retain PBS',	Completion	Value Or Actual Compliance	Value
system will copy the Position base			
schedules			
After Compliance, user inactivated	Time Window or Actual	Last Due date and time /	Last Due Date & Time /
the PBS with Sch. Impact on	Completion	Value Or Actual Compliance	Value
Position Change as 'Reset			
Template Program'			
After Compliance, user inactivated	PBS-Time Window or Actual	Last Due date and time /	Last Due Date & Time /
the PBS with Sch. Impact on	Completion	Value Or Actual Compliance	Value
Position Change as 'Retain PBS'			

Exhibit 5:

For tasks with 'Reset Attachment' set as "First Attachment/Every Attachment"

'Change Type'	Value entered by user	Compliance	Componen	Next Due	Calc. Ref.	Last Schedule
selected		Status	t Attached	Calc. On	Date / Value	Date / Value
			to Aircraft			
Correction	On modifying NSD	Pre-	Yes	Manual :	Value / Date	Not Applicable
		Compliance		Correction	and Time	
					entered by	
					user	
Correction	On modifying interval of	Pre-	Yes	Installation	Installation	Not Applicable
	the task having	Compliance		Date/Every	Date	
	manually entered NSD			Attachment		
Correction	On modifying LPD	Pre-	Yes	Manual :	Date & Time	Not Applicable
		Compliance		Correction	entered by	
					user	
Correction	On modifying interval of	Pre-	Yes	Installation	Installation	Not Applicable
	the task having	Compliance		Date/Every	Date	
	manually entered LPD			Attachment		
Correction	On modifying LPD,	Pre-	Yes	Manual :	Value / Date	Not Applicable
	NSD	Compliance		Correction	and Time	
					entered by	
					user	
Correction	On modifying interval of	Pre-	Yes	Installation	Installation	Not Applicable
	the task having	Compliance		Date/Every	Date	
	manually entered LPD,			Attachment		
	NSD					
Re-baseline	On modifying NSD	Pre-	Yes	Manual :	Value / Date	Not Applicable
		Compliance		Re-baseline	and Time	
					entered by	
					user	
Re-baseline	On modifying interval of	Pre-	Yes	Manual :	Value / Date	Not Applicable
	the task having	Compliance		Re-baseline	and Time	
	manually entered NSD				entered by	
		_			user	
Re-baseline	On modifying LPD	Pre-	Yes	Manual :	Date & Time	Not Applicable
		Compliance		Re-baseline	entered by	
					user	

Re-baseline	On modifying interval of	Pre-	Yes	Manual :	Date & Time	Not Applicable
	the task having	Compliance		Re-baseline	entered by	
	manually entered LPD				user	
Re-baseline	On modifying LPD,	Pre-	Yes	Manual :	Value / Date &	Not Applicable
	NSD	Compliance		Re-baseline	Time entered	
					by user	
Re-baseline	On modifying interval of	Pre-	Yes	Manual :	Value / Date	Not Applicable
	the task having	Compliance		Re-baseline	and Time	
	manually entered LPD,				entered by	
	NSD				user	
Correction	If the user enters NSD	Post	No	Manual :	Value / Date	Last Due Date
	for a complied task	Compliance		Correction	and Time	and Time
					entered by	
					user	
Correction	On modifying interval of	Post	No	Actual	Last	Last Due Date
	the task having	Compliance		Completion	Performed	and Time
	manually entered NSD				Date and	
					Time	
Correction	On modifying NSD for a	Post	Yes	Manual :	Value / Date	Last Due Date
	complied task	Compliance		Correction	and Time	and Time
					entered by	
					user	
Correction	On modifying interval of	Post	Yes	Time	Due Date and	Last Due Date
	the task having	Compliance		Window or	Time or Actual	and Time
	manually entered NSD			Actual	compliance	
				Completion	Date and	
					Time	
Correction	If the user enters LPD	Post	No	Manual :	User entered	Last Due Date
	for a complied task	Compliance		Correction	date and time	and Time

Correction	On modifying interval of	Post	No	Actual	Last	Last Due Date
	the task having	Compliance		Completion	Performed	and Time
	manually entered Last				Date and	
	Schedule Date or on				Time	
	modifying interval of the					
	task having manually					
	entered LPD / NSD					
Correction	On modifying LPD for a	Post	Yes	Manual :	User entered	Last Due Date
	complied task	Compliance		Correction	Date and	and Time
					Time	
Correction	On modifying interval of	Post	Yes	Time	Due Date and	Last Due Date
	the task having	Compliance		Window or	Time or Actual	and Time
	manually entered LPD			Actual	compliance	
	or manually entered			Completion	Date and	
	LPD / NSD				Time	
Correction	If the user enters LPD /	Post	No	Manual :	Value / Date	Last Due Date
	NSD	Compliance		Correction	and Time	and Time
					entered by	
					user	
Correction	On modifying LPD /	Post	Yes	Manual :	Value / Date &	Last Due Date
	NSD	Compliance		Correction	Time entered	and Time
					by user	
Re-baseline	If the user enters NSD	Post	No / Yes	Manual :	Value / Date	Last Due Date
	for a complied task /	Compliance		Re-baseline	and Time	and Time
	Modifies the interval				entered by	
	with entered NSD /				user	
	Modifies NSD / Modifies					
	interval with modified					
	NSD					
Re-baseline	If the user enters LPD	Post	No / Yes	Manual :	User entered	Last Due Date
	for a complied task /	Compliance		Re-baseline	Date and	and Time
	Modifies the interval				Time	
	with entered LPD /					
	Modifies LPD / Modifies					
	interval with modified					
	LPD					
Re-baseline	If the user enters LPD &	Post	No / Yes	Manual :	Value / Date	Last Due Date
	NSD for a complied	Compliance		Re-baseline	and Time	and Time

task / Modifies the		entered by	
interval with entered		user	
LPD & NSD / Modifies			
LPD & NSD / Modifies			
interval with modified			
LPD & NSD			

Exhibit 6:

On releasing the engineering document, the system updates the NSD / NSV and the NSD / NSV computation basis controls 'Next Due Calc. On', 'Calc. Ref. Date' and 'Last Schedule Date / Value' in various scenarios, as explained in the below table:

Scenario	NSD / NSV	Next Due Calc.	Calc. Ref. Value /	Last Schedule Date /
		On	Date	Value
	NSD = Eng. Doc	Eng. Doc. Effec.	Eng. Doc. Effec.	Not Applicable
	Effective from date +	from Date (Date	from Date (Date	
If the task with Tracking type	Threshold interval /	& Usage Based	Based)	
as 'Schedule tracked' and	Repeat interval	Schedule)	Parameter value on	
'Applicable' set as "Yes"	NSV = Present value		Eng Doc Effective	
a) Threshold interval	on Eng. Doc Effective		from date	
/repeat interval is	from date +			
defined in 'Eng. Doc	Threshold interval /			
schedule information	Repeat interval			
	NSD = Threshold	Eng. Doc : Initial	Threshold interval /	Not Applicable
b) If threshold date /	date	Interval (Date &	Threshold date /	
value is defined in	NSV = Threshold	Usage Based	Repeat interval (date	
the Eng. Doc	value	Schedule)	Based)	
schedule information			Threshold Value	
page			(Usage Based)	
If user manually initialize the		Eng. Doc	User entered value	Not Applicable
task in "Initialize Eng. Doc"		Manual :		
page		Correction		
If the task with initiate /reset	Blank	Not Applicable	Not Applicable	Not Applicable
by is 'RTC' and if the parent				
task (T1) has initiate				
schedule relationship with				
related task (T2)				
If the task with 'Initiate / Reset	User entered value	Eng. Doc	User entered value	Not Applicable
by' is set as 'RTC' and if the		Manual :		

Parent task(T1) has initiate		Correction		
schedule relationship with				
related task (T2) and if user				
manually initialize the task(s)				
in 'Initialize Eng. Doc.' Page				
If the Eng. Doc effective from	Blank	Not Applicable	Not Applicable	Not Applicable
date is future date				
If the Eng. Doc effective from	Blank	Eng. Doc -	User entered value	Not Applicable
date is future date and if the		Manual : Re-		
user manually initializes the		baseline		
task in "Engineering				
Document" business				
component				
When revising the Eng. Doc,	NSD = Effective from	Eng. Doc. Effec.	Eng. Doc. Effec. from	Not Applicable
if the 'Action on revision' is	date + Threshold	from Date (Date	Date (Date Based)	
selected as 'Re-comply' and if	interval	& Usage Based	Parameter value on	
the task is complied in	NSV = Parameter	Schedule)	Eng Doc Effective	
previous revision	value on Eng.doc		from date (Usage	
	Effective from date +		Based)	
	Threshold / Interval			
When revising the Eng. Doc,	NSD = User entered	Manual :	User entered value	Not Applicable
if	value	Correction		
'Action on revision' is set as	NSV = Parameter			
'Re-comply'.	value on Eng.doc			
Task with initiate /reset by as	Effective from date +			
'RTC' and if the parent task	Threshold / Interval			
(T1) has initiate schedule				
relationship with related task				
(T2).				
User manually initializes the				
parent task in 'Initialize Eng.				
Doc.' page in the previous				
revision				
When revising the Eng. Doc,	The system retains	Time window /	Last Performed Date	Last schedule value
if the 'Action on revision' is	the schedule in the	Actual completion	or Value / Last	
selected as "Carry Over	program	/ Schedule	Schedule Date or	
Compliance" and if the task is			value	
complied in previous revision				
If user revises the EO and	The task in the	Blank	Blank	Blank
selects the 'Action on	program is inactivated			
Revision' as 'Revoke', on				

release of Eng. Doc.				
If user revises the EO and	The task in the	Blank	Blank	Blank
selects the 'Action on	program is inactivated			
Revision' as 'Terminate', on				
release Eng. Doc.				
If the 'Mandate Revision on	The task in the	Blank	Blank	Blank
Modification of Effectivity?' is	program is inactivated			
set as 'Yes' or 'No' and the				
'Applicable' is set as				
'No/hold/PCW', on save or				
release				

WHAT'S NEW IN AIRCRAFT MAINTENANCE PLANNING?

A. Provision to print maintenance due report for 121 & 135 operators without Rem. Units & Due Date

Reference: AHBE-12226

Background

Currently in Ramco Aviation solution, in **Aircraft Maintenance Due Report**, the system will display the due task information, Rem. Units and Due date.

In some business scenario, the Rem. Units and Due date needs to be displayed as blank in **Aircraft Maintenance Due Report**.

Change Details

With this enhancement, new check box (Rem. Units & Due Date) has been added in **Aircraft Maintenance Due Report** entry page.

By default, 'Rem. Units & Due Date' check box will be checked. So, if the user launches the report, the system will display the corresponding values in the following columns:

- Rem. Units (Maintenance Due Report 135 operators)
- Forecasted Due at Date (Maintenance Due Report 135 operators)
- ▶ Rem. FH, FC, Days (Maintenance Due Report 121 operators)
- > Due at Date (Maintenance Due Report 121 operators)

If Rem. Units and Due Date check box is **unchecked**, the system will display the value as blank in the following columns.

- Rem. Units (Maintenance Due Report 135 operators)
- Forecasted Due at Date (Maintenance Due Report 135 operators)
- ➢ Rem. FH, FC, Days (Maintenance Due Report 121 operators)
- Due at Date (Maintenance Due Report 121 operators)
- Note: In addition to this feature, the header information will be displayed in all the pages of 135 Operators Aircraft Maintenance Due Report.

Exhibit 1: Aircraft Maintenance Due Report - Entry page

Aircraft Maintenance Due rep	ort							式 Trailb	ar 🔹	≙ 🖨	
							Date Format yyyy-mm-dd				
Search Criteria											P
Search By	Aircraft Reg #	~	Maintenance Item	¥			From / To date	2014-02-27	9	2014-02-28	19
Task Attributes		~	Deferral Type				Work Center #				
Planning Status		×	Part #Q				Serial #				
Component #			Remaining Value <=		Days	~	Time Display Options	Decimal Format	~		
Sort By	Planned Date	~									
Additional Search Criteria											
Mainte	nance Event		Mas Required O	ver Due			👿 Rem. Units & Due Date				
Generate Aircr Due Report for 121 Opera	tors	Genera	ate Aircraft Due Report for 135 Operators								
Rename as "Display Optio	n"		1999 p. p. n.	New o Due I	display op Date will I	otion base be displa	ed on which Rem. Units & yed in 121 & 135 reports	-			

Exhibit 2: Maintenance Due Report – 135 operators

						ice Du	e Report		Jet Airwa Siroya Co Mumbai, Maharasi India	iys (India) Limit entre, Sahar Air htra,	ed port Road, A Hea availa	ndheri (East)., Ider info will be Able on all pages		
1	Aircraft #	Model #	Config	Class	Report Dur	ation	Aircraft FH	Aircraft FC -		Engine Details			APU Details	
	1001	A310	α	c	From 2014-02-2 2014-02-2	25 0 / To 6 2	518.83	215						
	Position Code	Task # Task Description	AME #	Pa Des	art # ~ Part sc. ~ Serial #	NH/ Part#~P Cod	A Details art Desc.~Pos le~Serial#	Task Type	Interval	Last Performed	Triggering Parameter	Rem. Units	Due Value	Forecasted / Due at Date
		EO-000049-2014 AHBE-11777						ОТН	Threshold 5 Days		Саі	0 Days	2014-02-25 00:0	2014-02-25 00:0
		EO-000047-2014 AUAM-1760						ОТН	Threshold 5 Days		Cal	0 Days	2014-02-25 00:0	2014-02-25 00:0
	Valu	vp-000281-2013/1 Jes will be no	vp-000284 t be dis	⊧ splaye	ed if Rem	. Unit	s & Due	e Date b	ox is u	nchecked		91.17 FH 0.00 FC	* 610.00 FH 215.00 FC	2014-02-25 00:3

GA Aircraft Reg #	rways Aircraft Model # A310	MFR Serial #	Aircraft Maintenance Due Report									Apr 1 In Cur Cal	Apple Inc 1 Infinite Loop., Cupertino, California. Header info will be available on all pages ** Existing behaviour		
Task #	Tark Description	Part Information	1	Interval		:	Remaini	ıg		Du	e at		Planning Status	Deferral	Parent
(Inst.)~(Type)~ (Driver Task#)	Task Description	Part #-Part description ~Serial	FH	FC	Days	FH	FC	Days	FH	FC		Date	Package #-Planned Date-Work Center	Item #	Item #
test4(1)~()~test4	test										(2014/02/26	VP-000005-2012~ ~ ATL-104-05		
2-7R4-0000-MPD- 00000060(1)(MP D)2-7R4-0000- MPD-00000060	Inspection		100.00	1		<u>34.19</u>	1		650.00	501	4	2014/02/27	P-000066-2013 ~ 5:2013/05/04 E:2013/05/04 ~		
			•			**End	of Repo	ort**						•	
		Values Please	will b e note	e not that s	be d spec	ispla does	yed i s not	f Rem state	. Units Due a	s & D at Da)ue .te'	Date b value sh	ox is uncheck hould be hidd	ked en	

Exhibit 3: Maintenance Due Report - 121 operators

B. Provision to display NHA Part-Serial Information and APU details information in Aircraft Maintenance Due Report

Reference: AHBE-10043

Background

Currently in Ramco Aviation solution, in **Aircraft Maintenance Due Report**, user can view the Aircraft and component due tasks. For a component due task, system will display the Part & Serial information in Aircraft Maintenance Due Report.

With this enhancement, Ramco facilitates the user to view the following details:

- a. NHA details for the sub-assembly component due tasks in Aircraft Maintenance Due Report.
- b. Details on APUs attached onto the aircraft for which the Maintenance Due Report is generated.

Change Details

Impacted controls references:-

The following are the controls added in the Aircraft Maintenance Due Report.

The Impacted controls are highlighted. Refer Exhibit 1.

- APU Details
- NHA Details

Exhibit 1:

			Maintenance Due Report						Aveos Fleet Performance Inc. 2311 Alfred-Nobel Boulevard., St Laurent, QC, Canada						
Aircraft #	Model #	Conf	fig Class	Report D	ration	ation Aircraft FH /		Engine Details				APU Details			
VT- EJJ	A330	,	AI-707				100				Apu-Position Code:POS-1 ~ PN: 0-100-1 ~ SN: RPT-2 ~ 100.00FC ~ 100.00FH				
Position Code	Task # Task Description	AME	#	Part # ~ Part Desc. ~ Serial #	NH Part#~F Cod	A Details Part Desc.~Pos de~Serial#	Task Type	Interval	Last Performed	Triggering Parameter	Rem. Units	Due Value	Forecasted / Due at Date		
P05-1	1-50C-0000-CMM- 00001350 PME-1 for Part P1		1	0-100-1~3".DIA.0- 00PSI GAUGE~RPT	00-1~3".DIA.0- 5I GAUGE~RPT-2 RACK~F RPT		INS	Threshold 100 FH 10 FH		FH	0.00 FH	100.00 FH			
P052	1-50C-0000-CMM- 00001350 PME-1 for Part P1			0-0440-4- 0016:36361~LARG OVEN RACK~RPT-:	E		INS	Threshold 100 FH 10 FH		FH	0.00 FH	100.00 FH			

With the introduction of this new feature,

- 1. If the APU component is attached in an Aircraft, the system will display the following information in APU Details:
 - > APU Position Code
 - > APU Part #:
 - > APU Serial #
 - > All Consumption Parameters along with its present value for component
- 2. If the task is due on sub-assembly components, the system will display the following information in NHA Details:
 - > NHA-Part #
 - NHA-Part Description
 - > NHA- Pos. Code
 - > NHA- Serial #
- Note: If the component is directly attached to an Aircraft, the system will display the NHA details as blank for the due task.
- For an Aircraft due task, system will display the NHA details as blank.

C. Facility to retrieve As-Required tasks defined for attached component from component program

Reference: AHBE-6166

Background

Ramco displays 'As Required' tasks for aircraft in Aircraft Maintenance Planning. Enhancement is to display 'As Required' tasks for attached components.

Change Details

In the **Aircraft Maintenance Planning** business component, on search by enabling 'As Required' option, the system will retrieve all active 'As Required' tasks which are in Component Maintenance Programs of the component attached for the retrieved aircraft. 'As Required' component tasks are retrieved for components attached at all levels. Planning Status for 'As Required' Component tasks will not be displayed.

D. Enhancement in ePubs

Reference: AHBE-6166

Background

Currently in Ramco Aviation Solution, the below problem statements were identified in ePubs.

- Pdf generation of voluminous packages takes longer time, when opted for direct printing from Maintenance Planning / Execution screens. Hence provision to queue the documents in Offline mode for the selected package type to print the documents later directly from ePubs is required. This also means the ability to distinguish package types, where Offline Pdf generation is enabled.
- 2. From Maintenance Planning / Execution screens if selective printing is opted, system mandates credentials for ePubs login. Hence single sign on feature is required.

Change Details

A. A process parameter 'Direct Printing' is added for the 'Package type' with value "Yes" or "No". For Heavy packages, user shall set value as "No" for "Direct Printing" enabling the system to queue the documents for processing the Pdf generation offline.

The Package Print Status column added in Planning board intimates readiness and visibility of the package queued for printing (i.e.) for which offline Pdf generation is opted. Package Print status will be updated with status corresponding to print status in ePubs.

The 'Package Print status' column shall be updated as 'Print Not Initiated' for which the print is not invoked previously

User shall visit ePubs screen to print the packages available in queue.

Package Print status	Package status Description
Pkg. Gen. Failed	Package generation failed
Pkg. Gen. I/P	Package generation in progress
Pkg. Gen. Comp.	Package generation completed
Pkg. Copy to Folder Failed	Package copy to folder failed
Pkg. Copy to Folder I/P	Package copy to folder in progress

The various package print status available are as shown below:

Pkg. Copy to Folder Comp	Package copy to folder completed
Pkg. Printing Failed	Package printing failed
Pkg. Printing Initiated	Package printing initiated
Pkg. Printing I/P	Package printing in progress
Pkg. Printing Comp.	Package printing completed
Error	Package printing error
Print not Initiated	Package printing not initiated

B. Currently user provides credentials to login to ePubs at every instance when selective package printing is opted.

With the introduction of Single Sign-on feature, system will use the username and password present in the **Technical Document Interface** business component in Maintenance, to automatically login in to the ePubs system.

The Single Sign-on feature will enable user to launch ePubs without the need to key in the username and password and will not request for username and password every time the user login in to ePubs system. Impacted Screen

Plan Aircraft Maintenance

Exhibit 1: ePubs Package Print feature

								_						-	ca 6	X
Ele Edit View Eavortes	m437/Extui/extui/	demo/lau	inche 🔎 - 🕯	CX (A)	/ittualWorks	™ - Enterp	rise ×								ħ	* ¢
M8.E . 0	Sorios 5								User: 4320)		Organization U	nit: Demo User OU		Role: Deno	Jser Role
Control Marcella Samool	Artual/fores1*												Power	ed by VirtualWo	orks ^{ee} - Enterprise	e Application
📩 Business Process 🔹 🏒 Recer	nt Activities 🔹 🤺	Favorite	S.									🛷 Scre	en Test 🔻 🎦 🍪 🗄	द्र 🖭 👷	0 21 3	Themes •
Review Fleet Maintena	nce Plan													式 Trailbar 🕶		0
Package Details					Conservation of the			Dian Start		7.00/00/	ha mass		Package Drint		1	^
Package #	Package Type	Status	Task Seq#	Tally #	A/C Reg #	Flight#	Priority	Date	Plan End Date	Yield	Schedule Dat	e Part#/Serial#/Positio	status	Cultomer#	e 00 0° 0	Ê.
															2	
															10 mon	
															earch F	
															P	
2																2
4) (1
Package - Slot Details					A10 D				-				Tank and	-	1	6
Package #	Туре	Status	Taily #	Task Seq #	A'C Reg	Flight #	Priority	Date	Date	Yield	Date	Part# / Serial# / Posit	n# Package Print Status	Customer #	00 01 0	
															om Dat	Е
															ard) he	
															55	
4															• • •	1
							<u> </u>	· · ·)								
	-						N N				_			I	⊙ 57 Minute(s) 8:28 PM
🚯 🌔 🚞				ý 🌒	I A		5	5 E				۲	ち 👽 🙆 🤿 🔇	5 💀 🍽 🖞	2 1 25-0):28 7-2012

E. Daily Planning Report

Reference: AHBE-12406

Background

In order to effectively use a Work center's Man power resource, a Shift-In Charge needs to know the actual work center load for a given day.

Ramco's M&E / MRO solution comes bundled with a Daily Planning Report which represents work center wise Available Man Hours versus Planned Man Hours (load).

Change Details

Daily planning report displays the following information (Refer Exhibit 1).

- 1. Total Available Man Hours on the warehouse and the total Planned Man Hours on the work center on a daily basis. Balance Man Hours available for Planning for a particular day is available.
- 2. Priority Wise split up of Planned Man Hours is displayed to user.
- 3. Task and Discrepancies planned on the work center and the priority of the task is displayed in the report.

Daily Planning report can be launched by providing the following information (Refer Exhibit 2).

- 1. Aircraft Model # / Customer # / Field Base / Planner Group / Sub Fleet displays the details of Aircraft Reg #s belonging to the selected criteria.
- 2. Date Range for which the Planning Information to be displayed in the report.
- 3. Workcenter for which the work center load needs to be analysed.
- 4. Display option as Summary if only the Workcenter Load information needs to be displayed in the report.
- 5. Display option as Detail if Workcenter Load information and planed Task and Discrepancy information needs to be displayed in the report.

			Daily Plai	Daily Planning Report				Jet Airways (India) Limited 64, Sardar Patel Road, Taramani. Chenna Tamil Nadu India						
LANNING SUN	MMARY	(
Work Center	#	Start Date		Available Man Hours	Total Planned Ho	urs	Balance H	ours		P	Planned Hours (%)			
SM-HANGER 15-04-2014 00:00:00				256.00	5.00		199.80				1.95			
	Рт	iority Wise Planned	Manhour	5		Prio rity	Wise Planned	Manh	ur	s (%)				
		N/A-5.00					N/A-100	.00						
Pac kage #	HP000	462-2013	Aircraft l	leg # VT-RMC	Operated For			Pack	ige	Hours		5.00		
Parent Item #		Task #		Task Description	Task / Disc. Priority		Est. Man Hrs. R		emaini	emaining		Triggering		
					Туре			Hrs	/	сус	/ 1	DAYS	Parameter	
	A3	31-7-MP-00000026	Inspec	ion	MPD		1.00	0.0	1	0.0	1	-57		
	Pa	ckagebox	Packag	ebox	MEL		1.00		1		1			
	HI	000462-2013	Correc	tiveChaos	MEL.		1.00	5.0	I		1			
	Fl	ghtPsycs	Flight	sycs	MEL		1.00		ţ	5.0	1			
			D . 1		1.000		1.00		,		,			

Exhibit 2:

Daily Planning Report			😂 Trailbar 🗸 📋 🎏 🌄
		Date Format	
Report Criteria			
Planning Element Maintenance Item	* *	Planning Element Info Maintenance Item Info	v
From Date		To Date	
Work Center #	*	Display Options	*
		Print Report	

WHAT'S NEW IN ENGINEERING DOCUMENT?

A. New activity Manage Engineering document is added

Background

New screen is architected with critical insights to usability. It addresses major challenges like streamlining process intensive activities, optimizing usage time and ultimately improving customer satisfaction.

Change Details:

With the introduction of new screen, user can Create / Edit / Revise / View engineering document in a single screen. Solution is built with intelligence to understand user need and behave accordingly. From processing of Process Change Request to release an engineering document with existing screens, user needs to traverse around 10 screens which can be achieved now in a single screen.

Note:

- a) **Manage Engineering Document** activity will replace following activities: Create Direct Engineering Document, Create Child Engineering Document, Edit/Revise Engineering Document and View Engineering Document
- b) Data migration will be provided for the Engineering Documents created before deployment of this feature.

Business Process: Engineering Change Management	User: DMUSER	Organization Unit: Demo OU		Role: Dem			
🏭 Business Process 🔹 🗽 Recent Activities 🔹 🔶 Favorites 🔹			Quick Code 🚽 🛷 Screen Test 🔹	🆆 🍇 🎝 🖭 🌪 🛛 🗐 📰			
Manage Eng. Document				📑 Trailbar 🛛 🔝 📑			
⊚ Eng. Doc. / MCR ○ MCR ○ Eng. Doc.	Eng. Doc. # / Rev. # 02-429/0	Applicability Aircraft	Status Released				
Search Document Glass Search	Create O E	dit 💿 Revise 🔿 View					
🔁 🗉 Search - Filter 🗙 🔑 🌱 🔎	Main Fifed	ivity 🔋 Tasks 🛗 Schedules 📒 Refe	rence 🛃 More Information				
Engineering Mod 02-428 / 0 :: CONVERS: Fresh 02-428 / 0 :: CONVERS: Released 02-427 / 0 :: CONVERS: Released SB-A320-C-2013 / 0 :: CONVERS: Processed	MCR Details MCR # / Rev # SB-A320-C-2013 / 0	Subject	Doc. Issue Date 10/12/2013				
	Eng. Doc. # 02-429 ATA #Q 00-00 Eng. Doc. Subject	Eng. Doc. Type EA Applicability Aircraft	Num. Type Mod Status #				
	CONVERSION OF CONVENTIO	NAL COCKPIT TO GLASS	Eurocopter Deut V				
Process Change Process Change Request	Effec. from Date	~	Source Document Type				
Links <u>Initialize Eng. Doc. Schedules</u>	Execution Details Priority	Eng. Doc. Class Bac	kground				
Edit Configuration Change Details Confirm New Part Requiremnts Plan Material Requiremnts Authorize Eno. Doc.	A/C HEAVY LANE V Exe. Action	On-wing ?	500				
Release Engineering Document Ede Notes Upload Documents	Est. Man Hrs	Est. Elapsed Time					
view Associated Doc. Attachments							

Manage Engineering Document

Feature Highlight:

- a. Search on 10 predefined attributes of Engineering Document / Maintenance Change Request (MCR).
- b. Performing Create / Edit / View / Revise in a single screen.
- c. Progress bar to indicate document completion.
- d. Auto generation of Process Change Request based on MCR.
- e. Editing released Engineering document without revision, based on option control.
- f. Facility to view entire effectivity defined for an engineering order, irrespective of revision and Applicable?
- g. Ability to define action on revision at effectivity level.
- h. Capability to define a document as previously complied at effectivity level.
- i. Ability to terminate a task through engineering document.
- j. Facility to categorize task as 'Self-Compliance' or 'Related Task Compliance'.
- k. Capability to define "As-Required" and "Schedule Tacked" tasks in an engineering document.
- I. Feature to define 'Schedule Type' at task level.
- m. Provision to capture Engineering document as reference document.
- n. Iconic representations.

Search:



Users can search based on the following:

- a. Eng. Doc. / MCR
- b. MCR
- c. Eng. Doc.
- ➔ Eng. Doc. / MCR search will retrieve all MCRs eligible for processing and creation of engineering document. It also retrieves the related Engineering documents. Status of the MCR shown is "Fresh" (fetching Fresh MCR is based on set option), "Confirmed" and "Processed". Status of the Engineering Document is "Fresh" and "Released".

For example Engineering document: SB-292-73-0144 has reference to MCR # SB 292 73 0144. Search with MCR # SB 292 73 0144 will fetch Engineering document # SB-292-73-0144 also as search result.

➔ MCR search will retrieve the MCR docs eligible for processing. Status of MCR is "Fresh" (fetching Fresh MCR is based on set option), "Confirmed" and "Processed". ➔ Eng. Doc. search will retrieve documents in "Fresh" and "Released" status. If an engineering document exists in both "Released" and "Fresh" status, only fresh revision gets displayed.

User Guidance Text

Move curser to Search Document control to display the User Guidance Text.

Search Document	
Search by MCR #/ Eng. Doc. #/ Applicability/ ATA #/ AC Reg. #/ Model #/ Part #/ Serial #/ Component #/)
Eng. Doc. subject/ MCR Subject	

Search can be done with following attributes

- a. MCR #
- b. Eng. Doc. #
- c. Applicability
- d. ATA #
- e. A/C. Reg. #
- f. Model #
- g. Part #
- h. Serial #
- i. Component #
- j. Eng. Doc. Subject
- k. MCR Subject

Search results will display all matching records for entered search data. For example if MCR #s MCR # SB 292 73 0144, MCR # SB 292 73 0150, MCR # SB 292 73 0200 exist and on search with SB 292 73 all MCRs i.e. MCR # SB 292 73 0144, SB 292 73 0150, SB 292 73 0200 will be retrieved.

Engineering Document is displayed first followed by MCR #. Engineering document is ordered by descending order of 'Eff. From Date' of Engineering Document. MCR document is ordered by descending order of Create Date.

In the tree, MCR and Engineering document are identified by icons. A clip board with gear indicates Engineering Document. A simple clipboard indicates MCR document.

Eng. Doc. #	 Engineering Mod SB-292-73-0144/0-7300-107/1::Non Ret. SB-292-73-0144/0-7300-116/0::Non Ret. EO-002740-2013/0::Non Ret. EO-002741-2013/0::NZ3803 EO-002742-2013/0::Non Ret EO-002743-2013/0::Non Ret EO-002744-2013/0::Non Ret SB-292-73-0144/0::Non Ret
Format of data display on search with Eng. Doc. / MCR option	 Eng. Doc. / MCR Eng. Doc. Search Document ENG-555-63 × Search Engineering Mod
	Eng. Doc. # / Revision # :: Eng. Doc. Description ~ MCR # / Revision # :: MCR Description
Format of data display on search with MCR option	 ○ Eng. Doc. / MCR ○ Eng. Doc. Search Document SB-OO-AB-VT × Search



Main Header icon familiarization

- 1. $\mathbf{X} \rightarrow$ This icon indicates that the document is Pending for Authorization.
- 2. \checkmark This icon indicates that the document is Authorized.

Note: If authorization is not required no icons are displayed.

Create / Edit / Revise/View

Create	🔿 Edit	Revise	View
Create		O Revise	O view

User can opt the usage mode of screen.

- ➔ Select the 'Create' radio button, to create a new document number. On Click of an MCR document from the tree, the 'Create' radio button is selected by default, to facilitate engineering document creation.
- ➔ Set as 'Edit' to edit an engineering document. User can also work on released Engineering Document without revising the same based on option setting. On click of

an Engineering Document in "Fresh" status, corresponding data gets transferred to left plane also and 'Edit' radio button will be defaulted.

- → Set as 'Revise' to revise an Engineering Document. Irrespetive of the option set, system revises the document.
- → Set as 'View' to review Engineering Document. Search in View mode will retrieve Engineering Documents in all status. In View mode, transactions are not allowed. On click of Engineering Documents, in "Released", "Revised" or "Cancelled" status, from tree, radio button will be defaulted to "View".

These radio buttons are common for all pages.

Progress Bar:

Data entry completeness is indicated by progress bar. This is indicated by two colours.

- Green colour indicates that data is entered.
- Orange colour indicates that data is yet to be entered.





Engineering document can be created with or with out Maintenance Change Request number.

Key Highlights:

- a. On creation of Engineering Document if the primary Maintenance Change Request (MCR) does not have any Process Change Request (PCR) document, system creates a PCR in Confirmed status. On this process, the system modifies the MCR status to "Processed".
- b. Following main attributes of engineering document without revision of document. Mod Status #, Subject, Category, Eff. From Date, Source Doc Type, Priority, Eng. doc class, Exe. Action, On-Wing, Est. Man Hours, Est. Elapsed time, Background, Reason and File Name.

Note:

a) Select radio buttonset as "Edit".

🔘 Create 💿 Edit 💿 Revise

- b) 'Engineering Doc. Type' of Engineering Document should have "Engineering Document Revision Policy" set as 'As per Revision Rules' in "Common Master" business component.
- c) Engineering Document with 'Engineering Doc. Type' having 'Numbering Logic' set as either 'Manual' or 'Automatic' in common master are only considered.
- d) Provision to create an Engineering Document with Applicability different from the Applicability of the MCR.

Effectivity Tab:

This screen is used for defining both Aircraft and Part # - Serial effectivity.

Screen shots for aircraft applicable engineering document:


Pro for	ovision a Mode	to specify inclusion of a el # or Part #		Provision to specify rar Model # or Part #	ge for a given	Visibility of Edefined	Exception for range
- Effe	ctivity Serial I ctivity	Level Details 1 - 1 / 1 Xevel		🔨 🔁 💽 🚥 🚥 G		All	
#		Aircraft Model # 🍳	Include All Srl.	Mfr. Srl. # - From 🔍	Mfr. Srl. # - To 🔍	Excep. Def.?	App. Grp.
1		UH-01				Yes	0
2							
			ck on to view effectiv ge	vity details of entered			

Screen shots for Engineering Document with applicability "Engine" or "Component"

fectivity	Details	2/2 💽 🚿		V V 🕅 🖻 📖 I		All	~
	CS	Part # 🤍	Mfr. Srl. # 🤇	App. Grp. #	Applicable ?	✓ Prev	. Comp. Doc. #
10		0-1450PSI	SL47217	0	Yes	¥	
		0-1450PSI	SL473932	0	Yes	*	
					Yes	*	

100000			Ffectivity	E Tasks	Schedules	Reference	More Information
Effect	tivity Serial L	Level	Serial Range				
Effect	tivity	Details —					
«	•	1 -1/1	>> + -] 🗗 🛃 🛛 🥳 [1 🕂 🖶 Ali	~
#	8	Part # 🭳	Include All Srl.		Mfr. Srl. # - From 🭳	Mfr. Srl. # - To	Ap
1	13	0-1450PSI		V			
2	10			10			

Key Highlights:

a. Effectivity can be defined at serial or range level.

For example: User can define each Aircraft Reg # / Part # - Serial # as effective. User can also define effectivity by specifying a serial range for Aircraft Model # or Part #. All aircrafts of specific Model # or all Components of Part # can be defined as effective.

When user specifies a Model # UH-01 and preferes a range of AH-01 to AH-100, on save, all aircraft in the mentioned range will get copied to the Engineering Document. If no aircraft exist in the specified range, the system will not copy the aircraft details, but will save the range successfully.

- b. 'Applicable?' can be set for each Aircraft Reg # or Component #.
- c. Provision to define 'Action on Revision Effec.?' at effectivity level.
- d. Facility to define an Engineering document as 'Previously Complied' for effectivity.
- e. Facility to Inactive / Terminate 'Schedule Status' of tasks in appropriate programs.
- f. Ability to Synchronize Process Change Request and Engineering document.
- g. Default value can be set for action on revision. This is set for Engineering Document Type. Option set is" Default value for 'Action on Rev. Effec. ?' in Effectivity."
- Apllicable? Can be loaded with "Previously Complied" and "Hold" based on option set for Engineering Document Type. Option set is "Specify values for 'Applicable ?' in Effectivity".

- 1. Set "Hold" to load "Yes", "No" and "Hold" in 'Applicable?'
- Set "Previously Complied" to load "Yes", "No" and "Previously Complied" in 'Applicable?'
- 3. Set "Hold" and "Previously Complied" to load "Yes", "No", "Hold" and "Previously Complied" in 'Applicable?'
- 4. Set "None" to load "Yes" and "No" in 'Applicable?'.
- i. User can add / modify effectivity without revision of the engineering document. This is achieved by following actions:
 - 1. For Engineering Document type Set "Engineering Document Revision Policy" as "As per Revision Rules".
 - 2. Set "Mandate Revision on Addition of Effectivity?" as "No" to add effectivity without revision.
 - 3. Set "Mandate Revision on Modification of Effectivity?" as "No" to modify effectivity without revision.
 - 4. Set Radio button to 'Edit'



j. For the mapped effectivity user can view program exist or not in Program Exist? Control in 'At Serial Level' multiline.

Compliance Status icon familiarization

- 1. →Icon indicates that the tasks associated to the applicability group are complied.
- 2. E→Icon indicates that tasks associated to applicability group are yet to be complied against the effectivity and engineering document.
- 3. ⊇→Icon indicates that tasks associated to applicability group are compiled and are recurring.
- 4. $\P \rightarrow$ Icon indicates that tasks associated to applicability group are partially complied against the effectivity and engineering document.
- 5. \rightarrow This icon is displayed when Applicable? is set as "Previously Complied".
- 6. **O**→This icon indicates that effectivity defined is not applicable for the engineering document. i.e. Applicable? is set as "No".
- 7. \rightarrow This icons indicates that Applicability? For effectivity is set as "Hold".

Task Tab:

	Cap Sch Eng	ability of definition of ' edule-Tracked and No ineering document	As-Required", "Pei on-Tracked task in a	rpetual″, a single			
Mair	k Detai	ils			Schedules	Reference	+ More Information
<		1 -4/4 🕨 💓		81	« 🔁 📴 🚥 🚥 📾	🖸 🏰 📮 🚍	All
#		Task # 🭳	Description	A yp #	Tracking Type	Sch. Exec. Rule	Initiate / Reset By
1	13	EO-002782-2013	ENG-01-2601	0	Schedule-Tracked X 🗸	Earliest 🗸	Self-Compliance
2	13	EO-002782-2013-1	ENG-01-2601	0		Earliest 🗸	Self-Compliance
3	13	EO-002782-2013-2	EO-002782-2013-	0	Schedule-Tracked	Earliest 🗸	Related Task Compliance
4	E	EO-002782-2013-3	EO-002782-2013-	0	Non-Tracked	Earliest 🗸	Self-Compliance
5	E				As Required Perpetual	*	Self-Compliance
View	File	<		Ability to defir Related Task	ne Self-Compliance and Compliance tasks	Revision comments	>
			L		Save	-	

Key Highlights:

User can create Engineering Document with both schedule tracked and As-Required tasks.

User can set "Initiate / Reset By" as "Self-Compliance" or "Related Task Complinace".

Inactivation of previous revision of Improvised task can be achieved on release of Engineering Document. To achieve this, for Engineering Document Type set "Inactivate previous revisions of Improvised task on Eng. Doc. Release?" as "Yes"

Note : User cannot add or modify task without revising the document.

Schedules:

Computation based on Effec. From Date	Provision to define schedules at task/ app. Group level or Engineering Document level
Schedule Details	
Effec. from Date	Schedule Control Level
04/06/2013	At App. Group O At Eng. Document O
Task Identifier	
Task # / App. Group #	Description Capability of setting Update Effectivity List
EO-002782-2013 :: 0	ENG-01-2601 Basis Engineering Order tasks NZ3801,NZ3803
Calendar Schedules	
Time Unit	Update Basis Alert Value
Days 🗸	Actual Completion
Threshold	Threshold Date Repeat Interval
Positive / Negative Tolerance	Terminating Value Terminating Date
Usage Schedules	
« • • · · · / 1 • » + - d	2 4 7 🜾 🔁 🗉 🚥 💷 💷 🚛 📮 🖬 🖂
# 🗖 Parameter Threshold Inte	rerval Threshold Repeat Positive Ne
	10.00

Key Highlights:

- a. Intelligence to understand "Schedule Type" based on interval availability. If Repeat Interval is entered, Schedule Type is considered as "Recurring" else "One Time".
- b. Computation is done based on Effec. From Date.

Date Based Schedules:

i. If Threshold Date is not entered and Threshold is entered:

Next Schedule Date = Effec. From Date + Threshold

ii. If Threshold Date and Threshold are not entered and Repeat Interval is entered:

Next Schedule Date = Effec. From Date + Repeat Interval

- iii. If Action on revision is set as "Carry- Over Compliance" and corresponding tasks are not complied or if 'Action on Revision' is set as "Re-Comply" then computation is done based on "i" and "ii"
- iv. If Action on revision is set as "Carry- Over Compliance" and corresponding tasks are complied then:

Next Schedule Date = Last Performed Date in program + Repeat Interval

Usage Based Schedules:

i. If Threshold is not entered and Threshold Interval is entered

Next Schedule Value = Parameter value at Effec. From Date + Threshold Interval

ii. If Threshold and Threshold intervalare not entered and Repeat Interval is entered

Next Schedule Value = Parameter value at Effec. From Date + Repeat Interval

- iii. If 'Action on revision' is set as "Carry- Over Compliance" and corresponding tasks are not complied or if Action on Revision is set as "Re-Comply" then computation is done based on "i" and "ii".
- iv. If Action on revision is set as "Carry- Over Compliance" and corresponding tasks are complied then:

Next Schedule Value = Last Performed Value in program + Repeat Interval

c. Capability to define Future Dated Engineering Document. User can set "Effec. From Date" as future date.

Next Schedule Date / Value will not be computed for same.

d. Ability to set 'Update Basis' for Aircraft applicable Engineering document.

Note : User cannot add or modify task without revising the document.

Reference:

Abi	ility to define Reference d	ocument in a single screen			
Main	Effectivity	Tasks	Schedules	Reference	+ More Information
© MCR ⊖ Reference	Eng. Doc.	 Others ▶ ≫ + = ₽ 	K 7 K 🛱 日 📼		
# 8	MCR # Q Ability to	Processing Commen define Engineering Docum Reference	ent as	ubject .	Associated By / Date
	<				>

Key Highlights:

- a. Ability to define all references in a single page.
- b. Ability to define cross references. User can define an Aircraft applicable MCR as reference for Component / Engine applicable Engineering Documents. Vice-Versa is also true.
- c. Ability to Synchronize Process Change Request and Engineering document. The PCR of entered MCR will get updated with all Effectivity List in "Effectivity Tab" with working Engineering document reference.
- d. Facility to provided Engineering Document as reference. This enables cross linking of Engineering Document.

Example :

If engineering document # SB-A320-10-10-12 is added as reference for Engineeringing document # SB-A320-10-10-13, system adds document # SB-A320-10-10-13 as reference for Engineering document # SB-A320-10-10-12.

e. User can add / modify References based on option set for Engineering Document Type. Option to be set is "Mandate Revision on Addition of Reference?".

- 1. If revision is not mandatory for addition or modification of Reference, set the option as "No".
- 2. To mandate revision on addition or modification of MCR Reference, set the option as "MCR".
- 3. To mandate revision on addition or modification of Engineering Document reference, set the option as "Eng. Doc. ".
- 4. To mandate revision on addition or modification of Other reference, set the option as "Others ".
- 5. To mandate revision on addition or modification of MCR and Engineering Document reference set the option as "MCR-Eng. Doc".
- 6. To mandate revision for all reference addition or modification, set the option as "All".

Note : Set Radio button to Edit to work on released engineering document without revision.

More Information

Budgetary		- Warranty		
Base currency	Part Cost	Coverage		
NZD		Non-Claimable	~	
Resource Cost	Recurring Cost	Applicability	Material	📄 Labour
Other Cost	Kit Cost		Eacilities	Others
Total Cost	Budgetary	Remarks		
Weight & Balance	Budgetary, Warranty, Weight and Balance, Additional and User Defined	Additional	💟 Test Flight	Required?
hange in Moment			Follow-Up	Action Required?
Change in Electrical Load				
			🦳 Generate I	PR Automatically?
User Defined Details				
Ref. Doc. Type	Ref Doc #		User Status	

Key Highlights:

User can add / modify More Information based on option set for Engineering Document Type. Option to be set is "Mandate Revision on Modification of More Information?".

Note: Set Radio button to 'Edit', to work on released engineering document without revision.

🔘 Create	Edit	🔘 Revise
----------	------	----------

Set options :

Eng. Doc Type in "Configure Document Attribute" is added with following attributes

Attribute	Permitted Values
Engineering Document Revision Policy	Enter "0" for 'Revision Mandatory', "1" for 'As per Revision Rules'
Mandate Revision on Addition of Effectivity?	Enter "0" for 'No',"1" for 'Yes'
Mandate Revision on Modification of Effectivity?	Enter "0" for 'No',"1" for 'Yes'
Mandate Revision on Addition of Reference?	Enter "0" for 'No', "1" for 'MCR', "2" for 'Eng. Doc', "3" for 'Others', "4" for 'MCR-Eng. Doc', "5" for 'All'
Mandate Revision on Modification of More Information?	Enter "0" for 'No',"1" for 'Yes'
Default value for 'Action on Rev. Effec. ?' in Effectivity.	Enter "0" for 'BLANK',"1" for 'Re-comply',"2" for 'Carryover Compliance'
Specify values for 'Applicable ?' in Effectivity	Enter "0" for 'Hold', "1" for 'Previously Complied', "2" for 'Hold' and 'Previously Complied', "3" for 'None'
Inactivate previous revisions of Improvised task on Eng. Doc. Release?	Enter "0" for 'No', "1" for 'Yes'
Update 'Applicable?' as "No" on Part / Serial # change?	Enter "0" for 'No' , "1" for 'Yes'

- a. Engineering Document Revision Policy: If set as "Revision Mandatory", system will mandate user to revise the Engineering Document on modification. If set as 'As per Revision Rules' user can set the rule for revision such as "Mandate Revision on Addition of Effectivity?" or "Mandate Revision on Modification of Effectivity?" or "Mandate Revision on Addition of Reference?" or "Mandate Revision on Modification of More Information?"
- b. Mandate Revision on Addition of Effectivity?: This option can be set only if Engineering Document Revision Policy is set as 'As per Revision Rules'. If option is set as "Yes", user will be mandated to revise Engineering Document on addition of effectivity. If set as "No" user can add effectivity without revising the document.

- c. Mandate Revision on Modification of Effectivity?: This option can be set only if Engineering Document Revision Policy is set as 'As per Revision Rules'. If option is set as "Yes", user will be mandated to revise Engineering Eocument on modification of effectivity details. If set as "No" user can modify effectivity without revising document.
- d. Mandate Revision on Addition of Reference?: This option can be set only if Engineering Document Revision policy is set as 'As per Revision Rules'.
 - 1. If revision is not mandatory for addition or modification of Reference, set the option as "No".
 - 2. To mandate revision on addition or modification of MCR reference, set the option as "MCR".
 - 3. To mandate revision on addition or modification of Engineering document reference, set the option as "Eng. Doc. ".
 - 4. To mandate revision on addition or modification of Other reference, set the option as "Others ".
 - 5. To mandate revision on addition or modification of MCR and Engineering Document reference, set the option as "MCR-Eng. Doc".
 - 6. To mandate revision for all reference addition or modification, set the option as "All".
- e. Default value for 'Action on Rev. Effec. ?' in Effectivity. : User can set a default value for Action on Rev. Effec. ? control in Effectivity page of 'Manage Engineering Document'. User can set values as "Blank", "Re-Comply", or "Carry Over Compliance".
 - 1. Specify values for 'Applicable ?' in Effectivity : Applicable ? Combo loading in effectivity page can be controlled by this option. Set "Hold" to load "Yes", "No" and "Hold" in applicable?
 - 2. Set "Previously Complied" to load "Yes", "No" and "Previously Complied" in applicable?
 - 3. Set "Hold" and "Previously Complied" to load "Yes", "No", "Hold" and "Previously Complied" in applicable?
 - 4. Set "None" to load "Yes" and "No" in applicable?.
- f. Inactivate previous revisions of Improvised task on Eng. Doc. Release? : To inactive previous revision of improvised task on release, set the option as "Yes". Else set as "No".
- g. Update 'Applicable?' as "No" on Part / Serial # change? : During Part #/Serial # change (Not correction) based on this option Applicable will be flipped to "No" in effective engineering documents.

B. Manage Engineering Document in View Mode

Reference: AHBE-254

Background

Provision to view the Engineering Document details in the **Manage Engineering Document** activity is enabled, which avoids multiple traversing and ensures better visibility in one go.

Change Details:

You can view the Engineering Document details based on the user mapping. When the user mapping is only for the **Manage Engineering Document** activity, the 'View' radio button appears alongside the Create / Edit / Revise buttons. In this mode, you can create / edit / revise / view the engineering document.

When the user mapping is for both the **Manage Engineering Document** activity and **View / Manage Engineering Document** activity (Dummy activity), only the 'View radio button appears. In view mode, only the 'Eng. Doc.' radio button is enabled. The tree displays all the Eng. Doc. irrespective of the status.

C. Enhancements in Initialize Eng. Doc screen

Reference: AHBE-318

Background

Modifications are done to synchronize with changes in the new Engineering Document and also to address few gaps.

Change Details:

- a. User can launch and view Initialize Eng. Doc. Schedules, even if the Engineering Document is in 'Released' status. User is allowed to edit Next Schedule Date / Value if either of the following parameters is set as "No" in the "Common Master" for the 'Eng. Doc. Type':
 - Mandate Revision on Addition of Effectivity?
 - Mandate Revision on Modification of Effectivity?

On successful save, the system will update Next Schedule Date / Value to corresponding Maintenance Program.

If both the parameters are set as "Yes" for a released Engineering Document, screen will not have submit button. User cannot modify any data.

- b. Schedule Type which was earlier available at the Engineering Document level, is now made available at each task level. New control "Schedule Type" is added in multiline to view the Schedule Type of each task.
- c. Visibility of program is made available in the Initialize Eng. Doc. Schedules screen. The screen will display Program Next Schedule Date / Value, Program Last Performed Date / Value and Program Sch. Status, if the task and schedules (defined in the Engineering Document) are available in corresponding Aircraft / Component program.

Initialize	Eng. Doc So	chedules				式 Trailbar 🗸	l 🏡 🚔 📮
		Eng. Doc. # eo-	00-06-33		Revision # 1		
		Subject Che	eck		Applicability Component		
		Source Doc. Type SO	RUCEDOC		Eng. Doc. Type? EO		
		Effective From Date			Schedule Type		
		User Status	*				
. Doc Schee	dule Details						[
1	-2/2						٩
		Prgm. Next Sch. Date	Prgm. Next Sch. Value	Prgm. Last Prf. Date	Prgm. Last Prf. Value	Prgm. Sch. Status	
	10 00	n	10.00			Active	
		24.10.2013		24.05.20		Active	
			Visibility of schedules o program	f tasks in			

D. Enhancements in Process Change Request

Reference: AHBD-1690

Background

Modifications are done to synchronize with changes in the new Engineering Document.

Change Details:

a. Following controls are added in Default Details section to facilitate more default options, also in multiline.

	Newly Added controls: A) Eng. Doc Type?(Combo) B) Eng. Doc. Appl. Group #(Help on edi	ton-Execution	33\$ Tr	albar• 🔒 📮 🧔
Applicable?	Mode of Execution v Eng. Doc # Peason for Mon Execution v Prev. Comp. Doc #	Eng. Do Eng. Doc. Appl. Gre Applicabili	с Туре? У ир #9 ty Notes	
(1 - 10 / 10 *)> + - D * Applicability I/ Pret Applicability I/ Applicability I/ Pret Applicability I/ App	r. Comp. Date Prev. Comp. Doc #	C III C III C III AI	Eng. Doc Status	P Effectivity Sta
 Newly Added controls a) Prev.Comp.Date b) Prev. Comp. Doc #(Editable) 	Newly Added controls a) Prev.Comp.Date b) Prev. Comp. Doc #(Edital	ble)		

b. New value 'Previously Compled' is added in combo Applicable? This option can only be set if Execution Decision is set as "Execute".

• Process Change Request						
· roccosing occurs						
	E	Execution Decision	Execu	te		
		Exe. Action?	~			
	1	Processing comments				
Default Details						
Applica	ble?	l	~			
Categ	gory					
Action on Rev. Effect	ivity	No				
Prev Comp [Date	Yes		-		
The the complete	June	Hold				
Effectivity Details	Previously Complied	1				
		69 🔏				

c. Action on revision effectively is loaded with a new value terminate. On setting this option, on release of engineering document, corresponding task is terminated in maintenance program. 'Revoke' will inactive the schedule status of tasks in maintenance program.

Action on Rev. Effectivity		
	×	~
Carryover Compliance		
Re-Comply Terminate		l
Revoke		

- d. If 'Execution Decision' is set as "Not to Execute" or "Hold", 'Record' and 'Confirm Assessment' can be performed without any data in multiline.
- e. In View MCR Processing Details interface, Prev. Compliance Date and Document # is added as display only controls in the multiline. This will display data saved in Process Change Request interface.

•	View MCR Processing Details		
MCF	R Details		
		Process Ref. #	
		MCR #	
		Subject	
Pro	cessing Details		
		Execution Decision	
		Exe. Action?	
	Pr	ocessing Comments	
Effe	ctivity Details		
<	4 1 - 10 / 10 🕨 💓		
#	Applicability Notes	Prev. Comp. Date	Prev. Comp. Doc #
1			
2	8		
3			

E. Enhancement in Update Eng. Doc. Effectivity

Reference: AHBE-6818

Background

This enhancement addresses the impact of Engineering Document changes in **Update Eng. Doc. Effectivity**.

Change Details

- a. Maintenance Object cannot be added, with 'Compliance Status' as "Complied", to an Engineering Document # having Eff. From Date is later than current server date and time.
- b. On addition of Maint. Object to an Engineering Document:
 - If Compliance Status is set as "Complied" or "Not Complied", 'Effectivity' tab in corresponding Engineering Document – Rev # will get updated with Aircraft / Part # - Serial # Effectivity. Applicable? control will have value set as "Yes".
 - If Compliance Status is set as "Not Applicable", 'Effectivity' tab in corresponding Engineering Document – Rev # will get updated with aircraft / Part # - Serial # Effectivity. Applicable? control will have value set as "No".
 - 3. On update of effectivity in Engineering Document, Effectivity tab, or Process Change Request, "Processing Comments" of corresponding screen will get updated with the comment "Updated from Update Eng. Doc. Effectivity by ^User Name!"<Value>" on ^Date & Time! "<Value>".
- c. User can map a Part # Serial # to an Engineering Document having MCR #'s applicability as "Aircraft". Vice-Versa is also supported.
- d. Next Schedule Date / Value computation logic if compliance status is set as "Not Complied":

Date Based Schedule:

i. If Threshold Date is not entered and Threshold is entered:

Next Schedule Date = Effec. From Date + Threshold

ii. If Threshold Date and Threshold are not entered and Repeat Interval is entered:

Next Schedule Date = Effec. From Date + Repeat Interval

Usage Based Schedules:

i. If Threshold is not entered and Threshold Interval is entered

Next Schedule Value = Parameter value at Effec. From Date + Threshold Interval

ii. If Threshold and Threshold interval are not entered and Repeat Interval is entered

Next Schedule Value = Parameter value at Effec. From Date + Repeat Interval

Note: For future dated Engineering Document, NSD / NSV will not be computed.

Update Eng. Doc Effectivity

	Update Eng. Doc Effectiv	vity							式 Trailbar 🕶	I 🏡 🖨 🛱 🖡	
Lug.	DOUDCIUIIS										
«	(4 13 -24/498) (+ () () () () () () () () () () () () ()										
#	<u></u>		Eng. Doc. #	Rev No	Applicability Group	Status	Compliance Status	Reason For Non Execution		C	
1	Click to launch		EA-000001-2009	0	0	Released	×			~	
1	'Manage		EA-000005-2009	0	1	Released	×			~	
1	Engineering		EA-000006-2009	0	1	Released	*			~	
1	Document'		EA-000007-2009	0	1	Released	×			*	
1	Boodinion		EA-000008-2009	0	1	Released	v			*	
18			EA-000027-2011	0	0	Released	*			*	
19			EA-000028-2011	0	0	Released	*			~	
20			EA-000029-2011	0	0	Released	*			*	
21			EA-000035-2011	0	0	Released	*			*	
22			EA-000037-2011	1	0	Released	*			*	
23			EA-000038-2012	0	0	Released	*			*	
24			EA-000039-2012	0	0	Released	*			~	
	<									>	
Ohie	ct Details										
				-							
		m	laintenance Object Aircraft	Reg # 💙					View End		
						Update Effectivity		Т	ask Deta	ils link	
Initia	lize Maint. Prog. & Update Com	pliance		Pr	ocess Change Request		View Eng. Doc Task Details		ic romo	νΔn	

F. Enhancements in Maintenance Change Request

Reference: AHBE-4755

Background

Visibility of entered MCR subject was minimal in **Create** / **Edit** / **Revise** and **View Maintenance Change Request** interface. This enhancement addresses the issue.

Priority was required to set during creation of Maintenance Change Request, even though user is not aware. This enhancement addresses the issue.

Change Details:

a. Text area of MCR subject is increased in **Create / Edit / Revise** and **View Maintenance Change Request** interfaces.

Create Maintenance Change Request



Edit Maintenance Change Request



View Maintenance Change Request





- b. Priority combo is loaded with 'Blank' in addition to the existing values.
- c. Caption is modified from MCR issue Date to Doc. Issues date in interfaces Create / Edit / View / Revise Maintenance Change Request, Edit / View Concurrent Requirements, Edit / View Terminated Maint. Change Req. List of Maintenance Change Request business component and Update Eng. Doc Effectivity, Manage Eng. Document interfaces of Engineering Document business component.
- d. Caption is modified from Suggested Part # to Post Mod. Part # in **Confirm** / **View New Part Requirements** interface of Engineering Document.

•	Confirm N	ew Part Requirements		
Eng. I	Doc Details			
			Eng. Doc. #	
Subject	t			_
		"Suggested Part #" is re	named as "Post Mod Part #"	
Part	Details			
« .	1 - 5	/5 🕨 💓 🕂 🗗		
#	Actu	al Part #	Post Mod. Part #	
1				
2				

View New Part Requirements	
Eng. Doc Details	
	Eng. Doc. #
Subject "Suggested Part #" is renamed as "Post Mod Part #" Mod Part #" Mod Part #"	Currency
# Post Mod. Part #	Actual Part #
1	
2	

G. Identification of non-components for part number change through engineering document

Reference: AHBE-9977

Background

In new generation aircrafts, functionality of 'Feature Loadable Systems' are changed or updated using 'Onboard Softwares'. Hence tracking of mod of software becomes critical.

This enhancement is to facilitate Mod of software through Service Bulletins or Airworthiness Directive.

Change Details

Changes are done in the following screens of **Engineering Document** business component:

- a. Edit Configuration Change Information
- b. Edit Aircraft Config. Change Details
- c. Edit Component Config. Change Details
- d. View Aircraft Config. Change Details
- e. View Component Config. Change Details
- f. Release Engineering Document

The **Edit Configuration Change Information** screen is enhanced for recording Piece part information, for configuration change.

On save with a piece part, its Position code, Position description, Position status, Qty. and NHA Part # are shown in **Edit Aircraft Config. Change Details** / **Edit Component Config. Change Details** screens, based on effectivity. For SB/AD of Applicability 'Aircraft', piece parts configurations of attached components are only considered. For SB/AD of Applicability 'Component / Engine', piece parts configuration of effective components and its attached components are only eligible for part defined as 'Reference Part #' in piece part configuration are only eligible for part change. Value in 'Part Type' column differentiates Piece part. (For piece part, Part Type is "Expandable" and for configuration part, Part Type is "Component")

Visibility of configuration of piece part details are shown in View Aircraft Config. Change Details and View Component Config. Change Details screens.

•	Edit C	Component Configuration Cha	inge Information					式 Trailbar≁	🖨 👼 🌄 🥹
Eng. I)oc De	etails				Newly Added Controls			
			Eng. Doc #						
Eng. Doc Subject Component #						Revision #			
Confi	gurati	on Change Details							
≪ [•	1 -5/5 🕨 测 😑					- Al		Q
#	E e	rial #	NHA Part #	New Part #	Part Type	Position Description	Qty.	Position Status	ATA #
1									
2									-
3									
4									
5									
		<							>
				Edit Cor	ifig. Details				

Exhibit 1: Edit Component Configuration Change Information

Exhibit 2: Edit Component Configuration Change Information

•	View Aircraft Configuration Ch	ange Information					😹 Trailba	ar• 🖨 🗟 🌄 (
Eng.	Doc Details			[]				
Eng. Doc #										
Ling: D		Manufacturer # 🔽 🗸 Variable Tab # 🔽 Get Details		l	Revisio	 1 <i>#</i>				
Conf	iguration Change Details									
«	◀ 1 -5/5 ▶ ≫				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 🗐	~	Q		
#	Existing Part Serial #	NHA Part #	New Part #	Part Type	Position Description	Qty.	Position Status	ATA #		
1										
2										
3										
4										
5										

Exhibit 3: View Component Configuration Change Information

🗐 🕈 View Component Configuration Change Information											
Eng. I	Doc Details		Newly Added Controls								
Eng. De	Eng. Doc oc Subject Component	:# Get Details			Revision #						
Confi	guration Change Details										
«	 ◀ 1 -5/5 				1	al 🗐	~	P			
#	Existing Part Serial #	NHA Part #	New Part #	Part Type	Position Description	Qty.	Position Status	4 <i>TA #</i>			
1											
2											
3											
4											
5											

Exhibit 4: View Aircraft Configuration Change Information

View Aircraft Configuration Change Information	n					式 Traibar 🕶	🖨 🗟 🌄 (
Eng. Doc Details				Neudu Adda d Carstanla			
Eng. Doc	#			Newly Added Controls			
Eng. Doc Subject Manufacturer	# 🗸		l				
Variable Tab	# v Get Details			Revision #			
Configuration Change Details							
≪ ◀ 1 -5/5 ▶ ≫				1	All	~	P
# 🖾 Existing Part Serial #	NHA Part #	New Part #	Part Type	Position Description	Qty.	Position Status	ATA #
1 🗆							
2							
3 🗖							
4							
E 0							

The Edit Aircraft Config. Change Details and Edit Model Config. Change Details screens can only be launched for 'Aircraft' applicable SB/ADs.

The Edit Component Config. Change Details and Edit Part Config. Change Details screens can only be launched for 'Component' / 'Engine' applicable SB/ADs.

An Engineering Document will not be released, if configuration changes are recorded and mod part # is not available in configuration of effective aircraft / component.

Note: Configuration change for piece parts defined in Aircraft, Model, and Part configuration will be handled in subsequent releases.

H. Operations Type to be defaulted with option setting

Reference: AHBE-11836

Background

Maintenance task is classified based on its execution type as Flight Operations (Line Maintenance) and Repair Station (Hanger/MRO Maintenance). Based on industry preference it will be either Flight Operations or Repair Station. This preference needs to be considered in task authoring, SB/AD task authoring and task search.

New feature enables to capture Operation Type preference and is used in defaulting in **Maintenance Task** and **Engineering Document** interfaces.

Change Details

A new process parameter "Default Operations Type" is introduced in Eng. Doc Type Entity Type, **Define process Entities**, to capture Operation Type preferences in **Manage Engineering Document**.

If value "0" is set against "Default Operations Type", Flight Operations will be the Operations Type preference and if value "1" is set, Repair Station will be the Operations Type preference for defaulting in the **Tasks** tab of the **Manage Engineering Document** screen.

WHAT'S NEW IN MAINTENANCE TASK?

A. Ability to update task attributes back to Eng. Doc whenever it is modified.

Background

In a class of industry, Engineering Document tasks are allowed to modify only through Engineering Document. The current solution does not restrict modification of Engineering Document tasks from task masters.

Change Details:

Modification of Engineering Document tasks can be restricted by setting option for Engineering Document type of Engineering Document with reference to which task is created. Option to be set is "Allow modification of Eng. Doc. task attributes from 'Task Master'?".

If option is set as "Yes", user can modify task from **Maintain Activated Task** activity. Following attributes if modified get updated back to Engineering Document.

- a. Task Description
- b. Task Category
- c. Task Type
- d. Operation Type
- e. Est. Man Hrs.
- f. Est. Elapsed Time
- g. DSC #
- h. DSC Description
- i. Long Description
- j. AMM / CMM Item #

If option is set as "No", user cannot modify the task from the **Maintain Activated Task** activity. The System will also restrict user from launching all the links in the **Maintain Activated Task** screen.

This option is not applicable on modification of Engineering Document task from the **Edit Task** screen.

B. Operations Type to be defaulted with option setting

Reference: AHBE-11836

Background

Maintenance task is classified based on its execution type as Flight Operations (Line Maintenance) and Repair Station (Hangar / MRO Maintenance). Based on industry preference it will be either Flight Operations or Repair Station. This preference needs to be considered in task authoring, SB/AD task authoring and task search.

New feature enables to capture Operation Type preference and is used in defaulting in **Maintenance Task** and **Engineering Document** interfaces.

Change Details

A new process parameter "Default Operations Type" is introduced in Task Numbering Entity Type, **Define process Entities**, to capture Operation Type preferences in **Maintenance Task** interfaces.

If value "0" is set against "Default Operations Type", Flight Operations will be the Operations Type preference and if value "1" is set, Repair Station will be the Operations Type preference for defaulting in task interfaces.

This option change will have impact on the following screens of **Maintenance Task** business component:

- a. Create Task Information
- b. Select Task (Edit Task)
- c. Authorize Task
- d. Select Task (Maintain Activated Task)
- e. Select Task (View Task)
- f. Help On Task #
- g. Help on Work Unit #

C. Facility to Attach Multiple Files to Tasks

Reference: AHBE-6124

Background

Currently, only one file can be attached to a task in the Task Master. New requirement is to allow multiple files to be attached to a task. **Manage Task File Attachment** is a new interface that facilitates the attachment of multiple files to tasks and prints them as per applicability. Facility is provided to define the same from task definition and managing interfaces.

Change Details

A new interface titled **Manage Task File Attachment** is available under **Maintenance Task** business component, the major function of which is to allow user to upload task cards for a task, effective to specific Aircraft Model # (MSN wise) and print them as per applicability, at the time of package print / task card print. The interface also allows the user to upload task cards for component / engine specific tasks, effective to specific Part # and print them as per applicability at the time of task card print.

New link Manage Task File Attachment is added in following screens:

- 1. Create Task Information
- 2. Select Task (Edit Task)
- 3. Edit Task Information (Edit Task)
- 4. Select Task (View Task)
- 5. View Task Information
- 6. Select Task (Maintain Activated Task)
- 7. Edit Task Information (Maintain Activated Task)
- 8. Create Non-Standard based Standard Task
- 9. Manage Task Effectivity
- 10. Maintain Task Relationship
- 11. Engineering Document (Task definition page)

Functionality

Files attached from Create Task Information, Edit Task Information (Edit Task and Maintain Activated Task) and Engineering Document can be viewed and modified from Manage Task File Attachment interfaces.

Files attached for a task revision from **Manage Task File Attachment** interface will get carry forwarded to next revision of task. Files have to be uploaded to FTP using the **Upload Documents** screen before this screen can be launched and files can be attached to tasks.

Sequence # is mandatory and it defines the order in which the files will get printed when there are multiple file mappings for the same task. If no specific order is necessary, all Sequence # can be entered as 1. If files are saved in a folder and not in the root FTP path, the folder name can be mentioned in the multiline in the 'Folder Name' column.

User is required to enter a valid Aircraft MSN # that exists in the system, in both 'From MSN' and 'To MSN' fields. 'Maintenance Operator #', 'Aircraft Ownership', 'Owning Agency #', 'From MSN' and 'To MSN' are optional entries and can be specified to get specific mapping of files to tasks. Example: If a file mapping is done to a task while mentioning Aircraft Ownership as 'Customer', the file will be printed only when the aircraft from which the print functionality is being used has ownership status as 'Customer'.

Consider the following data matrix saved in the Manage Task File Attachment screen:

#	Task # 🍳	Revision	Task Type	Task Applicability	Aircraft Model # 🍳	Part # 🍳	From Aircraft MSN	To Aircraft MSN	Seq #	File Reference #	Folder Name	File Name 🭳
1	XA-000-02	1	MPD	Aircraft	A320				1	REF00001	A320PDFs	001.pdf
2	XA-000-02	1	MPD	Aircraft	A320		10	60	3	REF00002	A320PDFs	002.pdf
3	XA-000-02	1	MPD	Aircraft	A320		40	40	2	REF00003	A320PDFs	003.pdf
4												

If a task card for the Task # XA-000-02 is printed for an aircraft of the model A320, the system will check the MSN of the aircraft and the files are printed accordingly.

If the MSN is 40, the files that are printed are 001.pdf, 003.pdf and 002.pdf in that order (as denoted by Seq #). If the MSN is 20, the files that are printed are 001.pdf, 002.pdf. If the MSN in 80, the file that is printed is 001.pdf only as it is the only entry that has global applicability as From MSN / To MSN is not mentioned.

Limitations

- 1. Both Model # and Part # cannot be mentioned for a component applicable task.
- 2. Files that are mapped to a task during task creation in Task Master are shown here by default. But if these entries are deleted, the same is not reflected back to the Task Master. After deletion, if any changes are made to the file attachment in the Task Master, the same is not reflected back to this screen.
- 3. 'File Available' column is currently not functional and will be made available as part of future release.
- 4. When page is launched from **View Task info**, 'Save' button is enabled and the user can modify the records in the multiline. This will be addressed in the future release.

Exhibit 1:

Manage Task File Attachment screen on launch

0 T	lanag	e Task File Attachment	t										🕼 Traibar •	🗠 🚔 B	ŝ 🗐 (
										Da	ite Format dd-mmm-y	yyy hh:mm:ss am/pr	1		
Sean	ch Crit	eria													
		Task Details		v				Addl.	Search On		¥				
								learch							
Sean	ch Res	ults													
		[No records to display]			2 6 6 6 7 %				1		AI 🔿 🔿 🗛		~		2
	8	Task # 🍳	Revision	Task Type	Task Applicability	Aircraft Model # 🔍	Part # 🔍	From Aircraft MSN	To Aircraft MSN	Seq #	File Reference #	Folder Nam	e File N	me 🭳	
1	۵														
		<					_					_		3	>
					Che	eck File Availability	J						Save		
		Х	iew File			<u>v</u>	ew Task				Upload Documents				

Exhibit 2:

Manage Task File Attachment screen after blank search

										De	de Format dd-mmm-yyyy h	htmmtss am/pm	
arch	Crit	eria											
		Task Details						Add	Search On		le l		
		TOP OCTOD		101			5	earch					
arch	Res	ults											
x] [2	00	1 - 10 / 582 [1] [2]		940	× V W				19 🖸 🚥 🚥 🕻				- 0
	п.	Task # 9	Revision	Task Type	Task Applicability	Arcraft Model # 🥄	Part # 9	From Aircraft MSN	To Aircraft M5N	Seq #	File Reference #	Folder Name	File Name Q
	11	320MPD-05-048-011440		MPD	Engine	A320-214		3256	3256	1	G57-53-00-200-012-A		G57-53-00-200-012-A.
	11	320MPD-05-12Y-01187		MPD	Aircraft	A320-214		3256	3256	1			G57-53-00-200-012-A.
	13	320MPD-05-12Y-01187		MPD	Aircraft	A310				1			G57-53-00-200-011-A.
	81	320MPD-05-12Y-01185		MPD	Aircraft	A310				1			G57-53-00-200-011-A.
	10	320MPD-05-03C-01086		MPD	Aircraft	A310				1	G57-53-00-200-012-A		G57-53-00-200-012-A.
	퀸	320MPD-05-12Y-01185		MPD	Arcraft	A320-214				1			G57-53-00-200-011-A.
	21	00-00-11		MPD	Component					1			56
	75	XA-000-01		MPD	Arcraft	A320				1			001.pdf
	司	XA-000-01		MPD	Arcraft	A320		10	10	3			002.pdf
	1	XA-000-01		MPD	Arcraft	A320		10	30	2			003.pdf
		<					_						>
						heck File Availability						Sav	

Exhibit 3:

Link from Create Task

Create Task Information		😹 Traibar 🗸 🧟 🗎	4
		;	>
Reference Details			
Maint. Manual Ref. # Source Document # Child Part Mfr. #Q User Defined 1 Work Location Ref. #	MPD Item - Source Document Typ Manufacturer Nam User Defined	Others v	
Document Attachment Details			
File NameQ	View File Create Task		
Edit Part Requirements Edit Model Effectivity Edit Work Area / Zone details Edit Aurcart Effectivity Maintain Repair Scheme	dit Resource/Sign-Off Requirements Edit Schedule Infon dit Component Effectivity Edit Access Panel D dit Notes Edit Task / Sub-Tas dit Task Details Edit Task / Sub-Tas Ianage Task Effectivity Manage Task Fife A	ation tais References Incoment tachment	

Exhibit 4:

Link from Select screens, Edit Task and Maintain Activated Task

Selec	t Task					📑 Trailbar	1 🏡 🖨 📮 🌄
		Work Center #		Search	Document #		
Search Res	sults						
	[No records to display]	💽 🔊 🛛 🌋			1 🔁 🔝 🚥 🖬 🖬 🖪	= All	Q
# 12	Task Applicability	Base Aircraft Model #	Task #	Revision #		Task Desc.	
				Cancel Task(s)			
Edit Task Det Maintain Rep	<u>tails</u> air Scheme		<u>View Status Log</u> Manage Task File Attachment		Maintain Task Relationsh	hip	

Exhibit 5:

Link from Edit Task Information (Edit Task and Maintain Activated Task)

Edit Task Information		<pre> 4 1 2 3 4 5 > </pre>	1 /500 式 Trailbar - 🔝 🚔 🐺 🏹
Re - Number	View File		
Maint. Manual Ref. #		MPD Item #	
Source Document #		Source Document Type Others	~
Child Part Mfr. # 🤍		Manufacturer Name	
User Defined 1		User Defined 2	
Work Location Ref. #			
⊖ Document Attachment Details	View File Edit Task	Cancel Task	
Link Info MdlEff			
Edit Part Requirements Edit Model Effectivity Edit Work Area 2 Zone Details Edit Aircraft Effectivity Manage Task Effectivity Weiev AMM Reference	Edit Resource / Sign-Off Requirements Edit Component Effectivity Edit Notes Edit Provider Resolver / Scale Sear Manage Task File Attachment Kone Coolesees Effectivity	Edit Schedule Information Edit Access Panel Details Edit Taak / Sub-Taak References Maintain Repair Scheme View Taak Card View Maint. Operator Effectivity	

Exhibit 6:

Link from Select screen (View Task)

📑 🕈 Sel	ect Task							🧱 Trailbar 🔹	≙ 🖨 📮 🥃
		ATA # Work Center #		Search		Operations Type Document #	×		
Search F	Results								
« •	[No records to display]	🕨 💓 🛛 🌋			12 🔝 📖	III III III III III	Al	*	Q
# E	Task Applicability	Base Aircraft Mode	1#	Task #	Revision #		Task Desc.		
			View Tack Beukism	Dataik		liew Status Lon			
View Task	Details File Attachment		View Task Revision	Details	1	<u>View Status Log</u>			

Exhibit 7:

Link from View Task Information

🚠 Business Process 🔹 🏠 Recent Activities 🔹 🙀 Favorites 🗸	Welcome to Ramco Av 🛛 Quick Code 🚽 🛷 Screen Test+ 🌌 🤷 🍒 🖭 🌪 🔘 戅 🗮 🏦 Them
View Task Information	🔍 4 1 2 3 4 5 🕨 🚿 /500 式 Trailbarv 🏠 🚍 🐺 🌄
View AMM Reference	
Maint. Manual Ref. #	MPD Item #
Source Document # 38-30-0506	Source Document Type Others
Child Part Mfr. #	Manufacturer Name
User Defined 1 880672194	User Defined 2 OPERATIONAL TASK
Work Location Ref. #	
Document Attachment Details	
File Name	
Link Info	
View Part Requirements View Resource/Sign-Off Requirements View Model Effectivity View Component Effectivity View Work Area / Zone Details View Notes View Certificate Coverage View Notes View Customer Effectivity View Task/Effectivity View Nation Coperator Effectivity View Task/Effectivity	View Schedule Information View Access Panel Details View Task / Sub-Task References View Parameter Reading / Eval. Form View AMM Reference

Exhibit 8:

Link from Maintain Task Relationship

🚠 Busine	ss Process 🔹 📄 Recent Activities 🔹	🚖 Favorites 🕶	Welcome to Ramco Aviation Solution	s Release 5.6 - I	Jnit Testing Env Quick Code 🔶	🛷 Screen Test+ 🏼 🎽 🛅	🎨 🌄 🖭 👷	🕕 🗐 🔡 Themes
🔜 🔹 Ma	intain Task Relationship						式 Trailbar 🕶	💁 🖨 🗟 🌄 G
			Search					
Task Re	lationship Details							
« •	[No records to display]) » ± = P 4 3 9 7	×	l t	1 💽 🚥 💷 💷 🖬 🚮	AI	~	Q
# E	Repair Task # 🭳	Task Description	Relationship	Seq #	Rel. Task # 🥄	Rel. Task Description		Relationship Cat
1 İ			~					
	<							>
			Materia Task Dalak					
			Maintain Task Relation	onsnip				
Maintain F	Repair Scheme		Manao	e Task File Attac	hment			~

Exhibit 9:

Link from Manage Task Effectivity

Business Process: Maintenance Programs	User: DMUSER	Organizatio	n Unit: ABC Limited	Role: ABC Role									
🚓 Business Process 🕶 🛛 🚊 Recent Activities 🕶	🚖 Favorites 🕶		Quick Code 🔄 🛷 Screen Test+ 🌌 🤷 🎭 🖭 🊖	🛯 🕕 🧾 🗄 Themes 🕶									
Manage Task Effectivity			😅 Traibar -	1 👧 🚔 🛱 🥃 😡									
Effectivity Details													
(INo records to display)) () () () () () () () () () () () () ()	12 13		P ^									
# 🗏 Task # 🭳	Rev # Model # Q Aircraft #	g # 🍳 Part # 🍳 Maint. Oper	rator # Q Effectivity Change	Current Effectivity									
1 🗉			Select 👻										
<				>									
Update Options	Hall Barress Marine			(*)									
Updat	e Haint. Program?	Up	zate Maint. Program Template?										
	Update Effectively												
Esit Task Details		Manage Task File Attachment		~									
Maintenance Task -> Manage Task Effectivity				O 59 Minute(s) 10:48 AM									

D. Enhancements in Manage Task File Attachment Screen

Reference: AHBE-9065

Background

Ramco's Aviation Solution supports attachment of multiple task card files (soft copies from AMM) in the Manage Task File Attachment interface. These task card file soft copies will get printed along with the respective task whenever a package / work order print is taken from system.

Current functionality of the interface includes the following points:

- 1. User cannot check if file mentioned in the **Manage Task File Attachment** is available in the FTP path.
- 2. When Upload Documents link is taken, "Maintenance Task" is not defaulted in "Business Component Name" drop-down.
- 3. Task # is Pub/Sub to Ref. Doc. # control in **Upload Documents** interface.
- 4. When **Manage Task File Attachment** interface is launched from **Maintenance Task** business component, only Task # and Rev # is passed to the interface.
- 5. When a file is attached from Task Master but deleted from the **Manage Task File Attachment** interface, the same is not reflected back to the Task Master.
- 6. When a file is attached from Task Master but modified/changed to a different file from the **Manage Task File Attachment** interface, the same is not back updated to the Task Master.
- 7. Save button is being displayed and functional in the **Manage Task File Attachment** screen when the same is launched via a link from the **View Task** screen for a user who has view-only permissions.
- 8. Both Model # and Part # cannot be mentioned for a component applicable task in the **Manage Task File Attachment** screen.

Enhancements done to the interface are mentioned in the below points:

- 1. Ability to Check File Availability in the **Manage Task File Attachment** screen. A new button is available in the **Manage Task File Attachment** screen to check availability of files mentioned in the multiline.
- 2. When upload documents link is taken, "Maintenance Task" is now defaulted in "Business Component Name" drop-down.
- 3. Task # is no more Pub/Sub to Ref. Doc. # control in **Upload Documents** interface.

- 4. When Manage Task File Attachment interface is launched from Maintenance Task business component, Task #, Rev # and Model # is passed to the interface as when applicable.
- 5. When a file is attached from Task Master but deleted from the **Manage Task File Attachment** interface, the same is now back updated to the Task Master.
- 6. When a file is attached from Task Master but modified/changed to a different file from the **Manage Task File Attachment** interface, the same is now back updated to the Task Master.
- 7. Save button is being displayed but a validation is thrown when it is clicked in the **Manage Task File Attachment** screen when the same is launched via a link from the **View Task** screen for a user who has view-only permissions.
- 8. Both Model # and Part # can be mentioned for a component applicable task in the Manage Task File Attachment screen. And system will print the associated file only when on-wing tasks are being carried out for a component of that Part # which is attached to an A/C of that Model #.

Change Details

A new button **Check File Availability** is now made available in the **Manage Task File Attachment** interface, which will facilitate user to check if the files mapped against a task are available/not available in the FTP. (Refer Exhibit-1).

Exhibit 1: Check File Availability button

• •	lana	ge Task File Attachme	nt										🕸 Trailbar 🕶	≙ 🛱 📮
										ĩ	Date Format dd-mm-yyyy	hh:mm:ss		
Search	n Crit	eria												
		Task Details		~			_	Add	l. Search On		~			
Search	Res	ults						Search						
	i i	[No records to display]	1						7 🖂 📖 🛛				~	۵
#	1	Task # Q	Revision	Task Type	Task Applicability	Aircraft Model # 🭳	Part # 🍳	From Aircraft MSN	To Aircraft MSN	Seq #	File Reference #	Folder Name	File Name	Q
1	13													
		<												>
			C	Check File	: Availability)								
				-				Save						
		¥	iew File			v	iew Task				Upload Documents			

When **Upload Documents** link is taken from the **Manage Task File Attachment** screen, "Maintenance Task" is now defaulted in "Business Component Name" drop-down. And Task # is no more defaulted to the Ref. Doc. # control in the Upload Documents interface.

Upload Documents			😹 Traibar •	
Orounitdetails	Maintenance Task is defaulted			
Org. Unit Name SALOU 🗸				
Upload File Details				
Business Component Name Maintenance Task Select File Keycode	Browse	Ref. Doc ≠Select Action if file exists Overwrite Max.Upload File Size (13) 50000.00	*	/
Bulk Upload File Details Source Path	Browse List all files	Ref. Doc. # is no more defa	aulted	•
Default Details				
Business Component NameSelect Action if file exists Overwrite	▼ ▼	Ref. Doc #Select Key Code	~	
📧 🕢 [No records to display] 🕨 » 🕂 — 🗗 🐇 🏹 🌾				٩
# 🗉 Source Path Source File Name	Business Component Name	Ref. Doc Type	Ref. Doc #	Actic
1 🗉	Select	✓Select ✓	6	Over

Exhibit 2: Upload Documents link launch from Manage Task File Attachment screen

Model # is also passed along with Task # and Revision # when the user selects a record from the multiline and launches the **Manage Task File Attachment** interface from other screens through link. This is applicable when the link is taken from the following interfaces:

- 1. Create Task Information
- 2. Select Task (Activity -> Edit Task)
- 3. Edit Task Information (Activity -> Edit Task)
- 4. Select Task (Activity -> View Task)
- 5. View Task Information
- 6. Edit Task Information (Activity -> Maintain Activated Task)
- 7. Create Non-Standard based Standard Task
- 8. Manage Task Effectivity
- 9. Maintain Task Relationship

The same is not applicable when the link is taken from the following interface:

1. Select Task (Activity -> Maintain Activated Task)

When a file is attached to a task from **Create Task** or **Edit Task** or **Maintain Activated Tasks** screens, it is visible in the **Manage Task File Attachment** interface. If that entry is deleted, the same is now back updated to the Task Master. Also, if that entry is modified with another file, the same is now back updated to the Task Master. The **Manage Task File Attachment** interface is accessible as a link from the **View Task** screen. If the login user does not have edit/modification permissions, if he/she clicks the link from the **View Task** screen, enters the **Manage Task File Attachments** interface and modifies any entries, the system will not allow the user to save the changes and will inform the user that they do not have permission to carry out the change.

Exhibit 3: Launch from View Task when user does not have permission for changes

Business	Proce	ss: Maintenance Programs		Use	r: DMUSER		Organization Unit: ABC Limi	ited		F	tole: ABC Role	
🚠 Busines	s Proce	ess 🕶 🗼 Recent Activities 🕶 🐈 Favori	tes 🕶				Quick C	Code 🔶 🖌	Screen Test 🔻 🌌 🛍 🍇 🌫	, 🖭 🊖 I	0 🤨 🙁	Themes -
📑 🔹 Mai	nage	Task File Attachment							33	Trailbar 🔻	≙ 🖨 🛤	و 📮
								Date Format dd/r	nm/vvvv hh:mm:ss			
Search (riteriz											
Dearch		Task Details Task #	~	00.00.01			Add. Search On	×				
		Tusk #		00 00 01		Search						
Search R	esult	5										
	1.		7 🎸					a m 4. 1 🖬 🕻				
			- m	ion #	Tack Turna	Tack Applicability					Maint Onor	
	Tas	sk # %	Revis	10m #	Task Type	Табк Аррисаринсу	Aircraft Model # ୟ	Pi	art # K		Maint. Oper	ator
1 0	00-	00-01	1	VirtualWorks™	MPD Message	Aircraft	A310	X	1			
2 🗉	00-	00-01	1	•	MPD							
3 E	00-	00-01	1	🔣 Unable to	process. Login user does	s not have permission to perform this	operation.	Close				
4 E	00-	00-01	1	_								
5 E	1			Expand / Colla	pse [1 undefined]							
Check File	e Availe	c ability									2	>
						Save						

Both Model # and Part # can now be mentioned in the same entry in the **Manage Task File Attachment** interface for a component applicable task. If, for a component applicable task, both Model # and Part # is mentioned, the mapped File will be printed only when an on-wing task is done for a component of the above mentioned Part # is attached to an Aircraft of the above mentioned Model #.

Consider the following entries in the Manage Task File Attachment interface.

Exhibit 4: Data in Manage Task File Attachment interface

#	Task # 🍳	Revision	Task Type	Task Applicability	Aircraft Model # 🍳	Part # 🍳	From Aircraft MSN	To Aircraft MSN	Seq #	File Reference #	Folder Name	File Name 🭳
1	XB-000-02		MPD	Component					1	FILEREF000001		001.pdf
2	XB-000-02		MPD	Component		0021547-94:00988			2	FILEREF000002		002.pdf
3	XB-000-02		MPD	Component	A320				3	FILEREF000003		003.pdf
4	XB-000-02		MPD	Component	A320	0021547-94:00988			4	FILEREF000004		004.pdf
5												

The first row task-file mapping is applicable to any component either attached or removed (onwing/off-wing).
The second row task-file mapping is applicable to only components that have the **Part #** as **0021547-94:00988** either attached or removed (on-wing/off-wing).

The third row task-file mapping is applicable to any component attached to an Aircraft whose **Model #** is **A320** (on-wing only).

The fourth row task-file mapping is applicable to only components that have the **Part #** as **0021547-94:00988** and attached to an Aircraft whose **Model #** is **A320** (on-wing only). Please note that both these conditions have to be satisfied to make this entry applicable while printing.

With the above data, consider the following scenarios and how the mappings are considered while printing:

- 1. When the **Task # XB-000-02** is done for a component whose **Part #** is **XPART-88888** and is not attached to any aircraft and when the Print Package/Print Task Card is taken, the following files will be printed: 001.pdf.
- 2. When the **Task # XB-000-02** is done for a component whose **Part #** is **XPART-88888** and attached to an aircraft whose **Model #** is **A310** and when the Print Package/Print Task Card is taken, the following files will be printed: 001.pdf.
- 3. When the **Task # XB-000-02** is done for a component whose **Part #** is **XPART-88888** and attached to an aircraft whose **Model #** is **A320** and when the Print Package/Print Task Card is taken, the following files will be printed: 001.pdf, 003.pdf.
- When the Task # XB-000-02 is done for a component whose Part # is 0021547-94:00988 and is not attached to any aircraft and when the Print Package/Print Task Card is taken, the following files will be printed: 001.pdf, 002.pdf.
- When the Task # XB-000-02 is done for a component whose Part # is 0021547-94:00988 and attached to an aircraft whose Model # is A310 and when the Print Package/Print Task Card is taken, the following files will be printed: 001.pdf, 002.pdf.
- When the Task # XB-000-02 is done for a component whose Part # is 0021547-94:00988 and attached to an aircraft whose Model # is A320 and when the Print Package/Print Task Card is taken, the following files will be printed: 001.pdf, 002.pdf 003.pdf, 004.pdf.

As we can see from the 6th scenario, when the file 004.pdf is printed only when the component whose Part # is 0021547-94:00988 attached to an aircraft whose Model # is A320.

WHAT'S NEW IN AIRCRAFT MAINTENANCE EXECUTION?

A. Facility to display Aircraft Total Time (Flight Hours & Flight Cycles) for the entered aircraft

Reference: AHBE-5921

Background

Aircraft Total Time (Flight Hours & Flight Cycles) information is an essential requirement for a mechanic while performing maintenance operations like task and discrepancy signoff. In Ramco Aviation Solution, user has to navigate to **Aircraft Consumption and Range Parameter** screen to view the Flight Hours & Flight Cycles details. In the purview of user requirement to view Aircraft Total Time while executing maintenance operations, Flight hours and Flight Cycle values will be displayed for a given aircraft, date and time values in **Aircraft Maintenance Execution** screens.

Change Details

The following screens have been modified to cater to the new requirement:

1) Record Aircraft Execution Details page: Web Application

- 1.1) New display only controls" Flt. Hrs. and Flt. Cycles" have been added in 'Execution Details' section. New icon "Flt. Hrs. and Flt. Cycles" has been added next to 'Date & Time' control in 'Execution Details' section. Refer Exhibit 1.
- 1.2) Flt. Hrs. and Flt. Cycle values will be retrieved on click of Aircraft 'GO' / 'On Enter' in **Record Aircraft Maintenance Execution Details** page for the entered aircraft, if date and time values are defaulted in **Execution Details** section.
- 1.3) User can modify the date and time values in **Execution Details** sections and retrieve the Flt. Hrs. and Flt. Cycle values for the entered date & time by clicking "Flt. Hrs. and Flt. Cycles" icon.
- Note: System will also refresh the Flt. Hrs. and Flt. Cycle values on package save, work information details save and discrepancy details save.
- Flt. Hrs. and Flt. Cycle values will be retrieved based on base parameter mapping.

		"Flt Hrs. &	Flt Cycles" Icon		
Record Aircraft Maintenance Execution	Details				💐 Trailbar 🔹 🧟 🛱
Exe. Details Aircraft Reg #Qvt-rmd	Go Station ·	▼ Work Center ▼ (0)	Date & Time <u>10/2013/15</u>	10:03:18 C Flt. Hrs 500.49	Flt. Cycles 500
Search Options: 🛛 Log Cards 🕅 Min	nor 📝 Major Search by	Search by 💌 Search Fo	pr	GO	
	Execution Record Details	5 0	Fit Hrs.	and Flt. Cycles display only	
vi-mc Grds	H2 H2 L0 H2 L1 H2 Exe. Ref. ≠ Log card ∨	Status	HS ES	Category Repair Y Ref. Time Zone	
Under Resolution	Log #	Orig. Work Center		Maint.Event V Padkage Desc.	
⊞ Closed	Cust. Order #Q	Customer # / Name 100001	DONAVIA	Contract # Work Requested	
🕀 🦳 Job Cards 🖃 😋 Package Discrepancies	Discrepancy				
🕀 🦲 Under Resolution	°o 🖺 🖌 🔓				← →
용 🛄 Pending Deferral 요 🛄 Deferred 요 🛄 Closed	Log Item # - Tally # - Seq #	Record Status	Discrepancy #	Sign-off Status HS	ES

Exhibit 1: Record Aircraft Maintenance Execution Details – Web Application

2) Record Sign-Off and Work Completion page

2.1) New display only controls" Flt. Hours. and Flt. Cycles" have been added in "Flight hours/Cycles" section of **Record Sign-Off and Work Completion** page. Refer Exhibit 3.

2.2) Based on the date and time in **Record Aircraft Maintenance Execution Details** page, system will retrieve the Flt. Hours. and Flt. Cycles.

Record Sign-Off & Work Completion		1 🕄 Trailbar 🔹 🧟 🚔 🚛
	Date and Time values as in execution	
Execution Document Details	Execution Details page will be displayed	
Execution Ref # Visit Package <u>VP-000016-2012</u>	Fit. Hours 500.49	
Aircraft Reg. # VT-RMC	Work Center # ATL-104-05 Fit. Cycles 500	
Search Option	1	
Search Item Task # DR-00030-2012	Display Option Subtask level v Sign Of Not Required	×
Default Option		
Action Sign-Off	Mechanic Mec	
Task Sign-Off Details		
K ([No records to display])) + D (K Y K		۲

Exhibit-3: Record Sign-Off and Work Completion

3) Record Aircraft Execution Details page: Field Base Operation

3.1) In Field base operations, the system will retrieve the Flt. Hrs. and Flt. Cycle values on screen launch itself, if the offline aircraft, station date & time values are defaulted.

Exhibit-4: Record Aircraft Maintenance Execution Details – Field Base Operation

1.Record Aircraft Execution Details	"Flt Hrs. & Flt Cycles" Icon
Exe. Details Aircraft Reg # Q N242CH Go Wo	rk Center # 42 • Station Papua New Guine • Date & Time 15/10/2013 III 1:00:00 III Cycles 16
Adv. Search	Execution Record Details
✓ Log Cards ✓ Minor ✓ Major ✓-Search by- ✓	Image: Status HS ES Fit Hrs. and Fit. Cycles display only controls
	Log # Orig. Work Center Maint. Event Package Desc.
▲ 🔁 N242CH 🔺	Discrepancies SWork Information
Under Resolution	
	Log Item # - Tally # - Seq # Record Status Discrepancy # Sign-off Status HS ES

B. Facilitate auto-issue of parts during attachment onto aircraft

Reference: AHBE-6161

Background

In the **Record Aircraft Maintenance Execution Details** page, attachment of an inventoried item on aircraft is done by the following steps:

- 1. Creation of Maintenance Material Request
- 2. Confirmation of Material Issue
- 3. Attachment of Issued Item onto aircraft

This process requires multiple page visits.

The current enhancement facilitates a single-step process to automatically issue material from inventory while simultaneously performing attachment of a part to an aircraft.

Change Details

- a) A new check box "Auto Issue" has been added in the Component Replacement section of the Record Aircraft Maintenance Execution Details page. (Refer Exhibit-1). It will be checked by default.
- b) During attachment, Auto Issue process will be initiated in which a Material Request document in "Closed" status and a corresponding Material Issue document in "Confirmed" status will be created by system.
- c) Part required for attachment will be issued from the Serviceable Request Warehouse of task / discrepancy execution work center.
- Note: The Auto Issue feature is supported only for serialized parts.
- The Auto Issue feature currently does not support consignment stock status.

Exhibit 1:

Auto Issue on part attachment

Component Replacement				
				← →
Source	Status	Component Replacement #		
Replace 💌				
Removed Part #Q	Removed Serial #Q	Rem. Disposition / Codn.	Reason #	
		v	~	Removal Qty.
Installed Part # 🤇	Installed Serial # Auto Issue		A/C Position #Q	
		Auto Issue check box will be checked by		Attachment Qty.
Object Type	Record Mode	default. Auto Issue check box will be visible	Confirmed Failure?	66 m 1
Component 🗸	Normal	only if Source is "Replace" / "Attach" and	v	
Employee #9	Removal Remarks	Object Type is "Component" / "Other	Removed MSN #	
00000011		Derte"		
Acceptance Ref.		Paris".		
	_		-	

How to Setup?

- a) 'Allow direct part consumption?' option at package type level needs to be enabled in the Define Process Entities activity of the Common Master business component. (Refer Exhibit-2).
- b) Backflush option needs to be enabled at:
 - i. Work Center level for each part type: **Associate Warehouses** page (Identify Exe. Unit Work Centers activity Work Center business component) (Refer Exhibit-3)
 - ii. Warehouse level: **Create / Edit Warehouse Information** activity (Storage Administration business component) (Refer Exhibit-4)
 - iii. Part level: **Maintain Planning Information** activity (Part Administration business component) (Exhibit-5)

Exhibit 2:

'Allow Direct Part Consumption?' option at package type level - **Define Process Entities** activity (**Common Master** business component)

•	Edit	Document Type Attributes		50\$ TI	ralbar - 🏡 🚔	🛤 🚛 😡
Docu	iment	Type Details				
		Document Package Type 👻	Document Type Un	e Package 🔍 👻		
		Record Status Active	Attributes Defined? Yes			
Attri	bute	List				
	4	42 -51/51 🔹 👀 🖶 🗗 🏹 🌾		Al	*	P
	8	Attribute	Permitted Values	Value	Status	
42		Sign-off Requirement for Non Routines	Enter "0" for 'Not Required', "1" for 'Mechanic', "2" for 'Inspector', "3" for 'Mech. & Insp.'	1	Defined	
43		Auto Reconciliation of Components	Enter "0" for 'Not Required', "1" for 'Required - On Task Closure'	0	Defined	
44		Retain Context Date within a Package?	Enter 101 for 1No1 , 111 for 1Yes1	1	Defined	
45		Enable Direct Printing?	Enter "0" for 'No' , "1" for 'Yes'	-	ed	
46	Ð	Mandate completion of related Discrepancies before closure of Inspection Tasks?	Enter 10" for 140', "1" for 'Yes' Value for ontio	n to he set as "	1// td	
47		Mandate Source Document details on Discrepancy reporting?	Enter "0" for 'Not Required' , "1" for 'Required for PIREP, MIRE		rd	
48		Allow Component Replacement transaction for Component Part with Object Type selection other	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Denned	
49	D	Allow Component Replacement transaction for Object Type other than Component with	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined	
50		Compliance reversal required on task re-opening ?	Enter "0" for "Not Required" and "1" for "Required"	0	Defined	
51		Allow Direct Part Consumption?	Enter "0" for "No" , "1" for "Yes"	1	Defined	
		<				>
			Edit Doc Type Attributes			

Exhibit 3:

Back Flushable option at Work Center level for each part type - Associate Warehouses (Identify Exe. Unit Work Centers activity – Work Center business component)

Associate Warehouses						
Work Center Details						
	Work Center # ORD-230-05				Work Center Type Shop	
1	Work Center Description 230-05 in Chicago	1				
Warehouse Details			Set Ba	ack Flushable option	as "Yes"	
< < 1 -7/7 >>> + - [P 🕹 Y 🐒	•		1		All
# 10	U/S Receiving Warehouse # 🥄	Scrap Warehouse # 🭳	-	Auto Return ?	Back Flushable	
1 🖾	C-US-SH-W	0123		Required	Yes	~
2				Not Required	No	*

Exhibit-4:

Allow Backflushing option at Warehouse level: **Create / Edit Warehouse Information** activity (**Storage Administration** business component)

Edit Warehouse Information		
Warehouse Details		Date Format dd/mm/yyyy
Warehouse ≠ 0123 Description Test Warehouse Warehouse Type Normal ✓ Storage Location MED	Allow Backflushing option to be checked	Status Active v Finance Book Q AVEOS Warehouse Category Main v
Warehouse Settings		
Allow Backflushing	Allow Reservation / Hard Allocation	Allow Offline Usage
Address Details		

Exhibit-5:

Backflush option at Part level: **Maintain Planning Information** activity (**Part Administration** business component) (Exhibit-5)

T Maintain Planning Information		(4 1 2 3 4 5)	🖹 🚺 /500 式 Traibar 🔹 🏡 🖨 👼 🧔
		Date Format dd/mm	
Part Information			
Part # 0444	Part Description New Part P1	Planning Statu	JS Fresh
Mfr. Part # 0444	Part Type Component	Non-Stockab	ile No
Mfr. # 36361	Key Word		
Copy Details			
Planning Info			
Replenishment Parameters Details		Ena	able option for
Analysis Classification & Movement Strategies			t
Usage, Source and Other Details			
□ Usage Details	Source Details	🖯 Other Details	
Tor Sale	V Purchase	V Allocable	Back Flushing Required
For Maintenance	SubContracted	Storage Allocation Mandatory	y 📃 QC Clearance Required
Tor Loan	🔄 On Loan	Hazardous	
For Pool	From Pool	🔲 On Warranty	
	On Exchange		

C. Facilitate auto-return of parts on removal from aircraft

Reference: AHBE-6161

Background

Parts removed from aircraft during maintenance are returned to the respective warehouses using the '**Return Parts**' link available in the **Record Aircraft Maintenance Execution Details** page.

This process has been eased by facilitating automatic return creation as and when the parts are removed from aircraft.

Change Details

- a) On removal of part from aircraft, the system automatically creates return document based on 'Auto Return of Parts on Removal' option setting at package type level.
- b) Please note that system will not auto-generate maintenance return document when the part being removed from aircraft is routed for repair (Shop Work Order generation scenarios).
- c) Existing option setting "Auto Return of Parts", to facilitate return creation on package completion has been modified as follows "Auto Return of Parts (Core & Excess) on package completion". (Refer Exhibits 6 & 7)
- d) Provision to specify Return Classification & Warehouse location to facilitate creation of the return document has also been addressed as part of this enhancement. (Refer Exhibit-8)
- Note: Return Warehouse will be defaulted based on removal disposition selection and respective warehouse mapped to task / discrepancy execution work center.
 - e) The system mandates Return Classification if the 'Return Valuation based on Return Classification' option is set as "Yes" in **Stock Maintenance** business component.
 - f) To create return documents in "Confirmed" status, 'Auto Confirmed-Mnt Return' option needs to be enabled for the Return Warehouse (Refer Exhibit-9). Please note that this option will be listed only if 'Auto Maintenance Return' transaction mapping is set for the login user in Maintain Numbering Privileges activity (Document Numbering Class business component).
- Note: Even though the option is enabled, the system creates maintenance return documents in draft / fresh status if any additional mandatory information is required for return of the part. E.g. Certificate Information, Inspection Information, Hazmat Compliance, Zone / Bin details, etc.

- g) Return Quantity will be set based on removed qty in maintenance return documents during removal of lot / none-controlled parts. If removed quantity value is blank, return quantity will be defaulted as 1.
- Note: During Cannibalization, a single return document will be generated (i.e, for the Removed Part).
 - h) Default Numbering Type needs to be separately defined for return documents auto generated by the system. The same is to be set against transaction – "Auto Maintenance Return" in **Document Numbering Class** business component. This facilitates numbering of return documents auto generated on - (a) part removal from aircraft & (b) package completion. (Refer Exhibit-10)
- Note: Auto return document generation for Repair Order and Scrap note generation scenarios will also be controlled by 'Auto Return of Parts on Removal' option setting at package type level.

Exhibit-6:

Auto Return of Parts on Removal option at package type level

Docu	nent	Type Details			
		Document Package Type V		Document Type Heavy	~
		Record Status Active		Attributes Defined? Yes	
ttrit	ute	ist			
«	C .	3 - 52 / 52 🕨 🦻 🕂 😰 🌾	12 🖸 🖾 🚥	3 🗊 🖬 📳 🗐 🗛	v
#	Ð	Attribute	Permitted Values	Value	Status
43	15	Auto Reconciliation of Components	Enter "0" for 'Not Required' , "1" for 'Required - On Task Closure'	1	Defined
14	8	Retain Context Date within a Package?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined
15	E	Enable Direct Printing?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined
46	15	Mandate completion of related Discrepancies before closure of Inspection Tasks?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined
+7	10	Mandate Source Document details on Discrepancy reporting?	Enter "0" for 'Not Required' , "1" for 'Required for PIREP, MIREP and	Cabin Discrepancies' , "2" 0	Defined
18	8	Allow Component Replacement transaction for Component Part with Object Type selection other than	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined
19	E	Allow Component Replacement transaction for Object Type other than Component with availability of	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined
50	15	Compliance reversal required on task re-opening ?	Enter "0" for "Not Required" and "1" for "Required"	1	Defined
51	問	Allow Direct Part Consumption?	Enter "0" for "No" , "1" for "Yes"	1	Defined
2	13	Auto Return of Parts on Removal	Enter "0" for "Not Required", "1" fo Set value for	option as 🚬 1	Defined
			"1"		

Exhibit-7:

Modification in description of existing process parameter which facilitates auto-return on package completion

•	Edit	Document Type Attributes		📷 Traibar 🕶	🙆 🚔 🛱 🏹 (
Docu	ment	Type Details			
		Document Package Type 🗸	Document Type Heavy	*	
		Record Status Active	Attributes Defined? Yes		
Attri	ute I	ist			
	(8 - 27 / 52 🐌 😥 🖶 😥 🖌 🌾		*	P
	B	Attribute Next row set [Page Down]	Permitted Values	Value	Status
18		Enforce dosure of Logcard type of Padvage	Enter "0" for 'No' , "1" for 'Yes'	0	Defined
19		Allow Force Part Change?	Enter 10" for 'No' , "1" for 'Yes'	0	Defined
20	۵	Default Operations Type	Enter "0" for 'Flight Ops', "1" for 'Repair Station'	0	Defined
21	۵	Enforce Sign-Off?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined
22	8	Permit Dual Sign-off by the employee?	Enter 101 for Yesi , 111 for No', 121 for 'All	0	Defined
23	۵	Allow sign-off entry by different employee?	Enter 10" for 1vo', "1" for 'Yes' Set value for option as	1	Defined
24		Task Reporting	Enter "0" for 'All Employee' , "1" for 'Assign #1 #	0	Defined
25		Print MMD on Regulstion from Planner	Enter "0" for 'Not Required' , "1" for 'Requ	0	Defined
26		Backdated reporting Time Limit	Enter a positive integer	2000	Defined
27		Auto Return of Parts (Core & Excess) on package completion	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined
		٢			>
			Edit Doc Type Attributes		

Exhibit-8:

Changes in **Component Replacement** section (**Record Aircraft Maintenance Execution Details** page)

Component Replacement		
8 <u> </u>]	
Sou Newly added controls – Return Rem Classification, Warehouse #, WH – Zone # / Bin # & Latest Return # will be visible only if Source is "Remove", "Replace" or "Cannibalize" and Object Type is big "Component" / "Other Parts". Other Parts Component" / "Other Parts". Other Parts Component" / "Other Parts". Sys Employee # Q Other Parts Component Test Generated Order Status	Component Replacement # NCR-000107-2013 Rem. Disposition / Codn. Serviceable Serviceable A/C Level #Q Settem shall load all unique Return rehouses (Core & Excess) pped for task & discrepancy work ters within the A/C Maint. Exe. Document.	Reason # Battery Left On Removal Qty. 1 A/C Position #Q Attachment Qty. 1 Confirmed Failure? Not applicable Removed MSN # Link to View Return main page. Repair
Return Classification Return Warehouse #	WH - Zone # Bin #Q. 01 1 IParts Installed Component Assembly Installed Component Assembly New Part Request Status INon-Comp. Installed Serial #	Edit Return # / Status ART000022-2013 Confirmed Edit Return Inquire Stock Balance Route Unserviceable to Re Niew Maintenance Info. for Installed Part

Exhibit-9:

'Auto Confirmed-Mnt Return' option at Warehouse level to facilitate creation of return documents in "Confirmed" status

War	hous	Information					
		Warehouse #	ATL-LN-SER			Warehouse Category SERVICEABLE	
		Description	Serviceable - Atlanta Line WH				
Tran	sactio	n Type Details					
«		27 - 35 / 35 🕟 💌 🕂 🕑 🍸 🌾			1		Q
#	123	Business Component Name	Transaction	Applicable		Enable this option for Return	
27	Ð	Stock Maintenance	Stock Correction	Yes		Warehouse	*
28	B	Stock Receipt	Transfer Receipt	Yes			*
29		Stock Receipt	Unplanned Receipt	Yes			*
30	E	Stock Return	Auto Confirmed-Mnt Return	Yes			*
31	E	Stock Return	General Return	Yes			*
32	Ð	Stock Return	Maintenance Return	Yes			*
33	Ð	Stock Return	Unplanned Return	Yes			*
34	E	Stock Status Conversion	Stock Status Conversion	Yes			*
35	E	Stock Transfer	Stock Transfer	Yes			*
		(``
		`					

Exhibit-10:

Default Numbering Type - Transaction mapping to facilitate auto generation of maintenance return document

mbe	ering	J Type Information									
		Numbering Type AMRT-		Num Type Description AMRT-							
mbe	ering	g Type Mapping Details									
	1	14 - 23 / 251 💽 💓 🕂 😰 🌾		1		Al 🖨	💙 auto	×			
	8	Org. Unit Name	Transaction	Арр	olicable	Default Numbering	Туре				
ŧ.	問	Demo OU	Auto Maintenance Return	Yes	×	Yes		*			
5	2	Demo OU	Bifurcate Asset Tag	No	*	No		~			
8	曰	Demo OU	Budget requirements	No				~			
7	Ð	Demo OU	Budgets	No	Default Numb	erina Type	e to be set	*			
8	10	Demo OU	Capital Journal	No		acconding	to a valid	*			
	2	Demo OU	Capital Journal Reversal	No	as resconep	osponaing	j to a valiu	*			
	10	Demo OU	Capital WIP	No	Numbering Ty	/pe.		~			
L.		Demo OU	Capital WIP - Reversal	No				~			
2	Ð	Demo OU	Capitalization Voucher	No	*	No		*			
3		Demo OU	Central Planning Discrepancy	No	*	No		~			

D. Extending of Auto-issue functionality for Non Components

Reference: AHBE-10042

Background

Auto Issue in Record Aircraft Maintenance Execution Details screen allows the user to automatically issue parts for component replacement transactions (Attachment / Replacement) without having to raise material request and confirm issue manually.

Change Details

Auto Issue feature was earlier supported only for Serial controlled and Serial-Lot controlled parts. Now it is supported for Lot controlled and None controlled parts.

Note: For Lot controlled parts, if there are multiple lots available within the Serv. Request Warehouse, Auto Issue feature is not supported. Also if the part is available across different zones / bins available within the Serv. Request Warehouse, Auto Issue feature is not supported.

E. Facility to default Record Direct Part Consumption tab when launched from AME based on option

Reference: AHBE-12311

Background

Record Direct Part Consumption tab in the **Record Consumption & Return** screen allows the user to record part consumption against a Task # and Package # without raising a Material Request and confirming the issue manually.

Record Consumption & Return screen can be launched via links provided in the **Record Aircraft Maintenance Execution Details** screen. A new Process Parameter is provided to enable defaulting the **Record Direct Part Consumption** tab on launch of the **Record Consumption & Return** screen when launched from the **Record Aircraft Maintenance Execution Details** screen.

Change Details

Record Consumption & Return screen can be launched from the following locations of the **Record Aircraft Maintenance Execution Details** screen:

- 1. Links section
- 2. Work Information tab
- 3. Discrepancy tab
- 4. Component Replacement tab
- 5. Material Request tab

A new process parameter option "Default Record Direct Part Consumption tab in Record Part Consumption & Return page?" is available to be set for individual package types in Define Process Entities. This option will determine tab defaulting in the Record Consumption & Return screen when launched from the Record Aircraft Maintenance Execution Details screen.

Exhibit – 1:

Newly added Process Parameter in Define Process Entities

	Set Process Parameters	•] 1	2 3 4
39	Allow re-opening of completed packages / tasks?	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined
40	Allow Package execution across multiple primary Work Centers	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	0	Defined
41	Allow Closure of Package with Pending Replacements	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	0	Defined
42	Allow Reconcile of Parts?	Enter "0" for 'Not Allowed' , "1" for 'Allowed for Reconcile Core' , "2" for 'Allowed for	3	Defined
43	Auto Indusion of Incomplete Tasks	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined
44	Auto Indusion of Overdue Tasks	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined
45	Enable Direct Printing?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined
46	Basis for Auto Indusion of Due Tasks	Enter "0" for 'Not Required' , "1" for 'Planned Start Date' , "2" for 'Schedule	0	Defined
47	Default Sign-off Requirement for Non Routines	Enter "0" for 'Not Required' , "1" for 'Mechanic', "2" for 'Inspector', "3" for 'Mech. &	3	Defined
48	Compliance reversal required on task re-opening ?	Enter "0" for "Not Required" and "1" for "Required"	0	Defined
49	Auto Reconciliation of Components	Enter "0" for 'Not Required' , "1" for 'Required - On Task Closure'	0	Defined
50	Retain Context Date within a Package?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined
51	Auto Short close of Open Material Request	Enter "0" for "On association of Package", "1" for "On release of Package"	1	Defined
52	Allow Deferral of Planned Tasks?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined
53	Mandate completion of related Discrepancies before closure of Inspection Tasks?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined
54	Allow Component Replacement transaction for Component Part with Object Type selection	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	Defined
55	Allow Component Replacement transaction for Object Type other than Component with	Enter "0" for 'Not Allowed' , "1" for 'Allowed'	1	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 "Required"	0	Defined
	<			
		Set Process Parameters		

If this process parameter option is set as 'No', the **Return Unconsumed Parts** tab is defaulted and the Display Option combo will be defaulted with 'All Pending Return', when the **Record Consumption & Return** screen is launched from the **Record Aircraft Maintenance Execution Details** screen. This is the default option.

If set as 'Yes', the Record Direct Part Consumption tab is defaulted and the Display Option combo will be defaulted with 'All Parts', when the Record Consumption & Return screen is launched from the Record Aircraft Maintenance Execution Details screen. 'Yes' can be set only if Allow Direct Part Consumption option is enabled for the package type.

Note: In AME, if MR # reference is available when the Record Consumption & Return link is clicked from the MR tab, then the Return Unconsumed Parts tab is always defaulted regardless of the option set by the user. On launch of the **Record Part Consumption & Return** screen from the **Record Aircraft Maintenance Execution Details** screen, the following will be passed to the **Record Direct Part Consumption** tab multiline if they are available (only if the **Record Direct Part Consumption** tab is defaulted on launch):

- 1. A/C Reg #.
- 2. Package #. (Exe. Ref. #)
- 3. Task # / Discrepancy #.
- 4. Task / Discrepancy Description.
- 5. Tally #.
- 6. Warehouse #.

The Warehouse # defaulted in the multiline is the Serviceable Request Warehouse # defined for the Work Center assigned for the Package # / Task #, for the part type Component, in the **Associate Warehouses** screen (via **Identify Exe. Unit Work Centers**).

Exhibit – 2:

Defaulted controls in the multiline on launch of the page from AME

Record Part Consumption & Return		A	A/C Reg # is now passed to				📑 Trailbar 🗸 🏠 🛱			
Search Criteria			LAC. REI # HEI	s page						
Display Option All Parts Task # / Description Q I23/20 Search On V V	Aircraft Reg. #Q VT-ABC Execution Ref. # Part # / Description Q 015T1507-642 Custo Material Request #Q Request # Request #			ution Ref. # / DescriptionQ Customer # / Order # Requested Work Center #	# / Description Q VPP-000076-20					
Return Unconsumed Parts Return Removed Cores Record Direct Part Consumption	Search									
Record Consumption Details										
« • 1 -1/1 » » + = D & V 🐝		1		🖬 🏭 🗐	All	~	Q			
# 🗏 Aircraft Reg. # Exe. Ref. # Q Tally # Task # / Disc. # Q Part # Q	Serial # Q. Lot # Q. Used Qty. W	Varehouse #	Zone # Q	Bin # Q, St	itock Status	Condition	Remarks			
1 C VT-ABC VPP-000076-201 1 123/20	0	123	*		*	*				
A/C Reg # from the Search Criteria is now passed to the multi-line Exe. Ref # help page			•		v	~	>			
Confirm Consumption V Record Part Consumption										

F. Enhancement for Record Status & Tree Loading changes for nonconfiguration tracked parts

Reference: AHBE-8377

Background

Ramco Aviation Solution supports component replacement transactions for nonconfiguration tracked parts. With Object Type set as "Other Parts" in **Component Replacement** section of **Record Aircraft Maintenance Execution** screen, user can install / remove / replace parts entering position / level code details. For such noncomponent replacement transactions, on invoke of "Confirm", Non-Component Replacement number gets generated, status updates to "Removed / Replaced / Error-Removed / Error-Replaced" and Component replacement record gets displayed in "Only installs / Replaced / Only Removals" folder in **Component Replacement** Tree.

Change Details

With this enhancement, when user performs a non-component replacement with Object Type as "Other Parts", following changes will take place:

- a) Upon Save of component replacement details, a component replacement record will be generated in "Pending Actions Item" folder of **Component Replacement** tree. Status of component replacement record will be blank.
- b) Upon Confirmation of the component replacement record, it will be moved to "Only installs / Replaced / Only Removals" folder of component replacement tree. Status will be updated as Removed / Replaced based on source type selection.

Exhibit-1:

On save of component replacement details with Source as "Replace" and Object Type as "Other Parts"

Record Aircraft Maintenance Execution	Details		😂 Trailbar 🔹 🏠 🚔
Exe. Details Aircraft Reg #Q 1001	Go Station Atlanta Internal 🗸 Work Center ATL-10	-05 🗸 Date & Time 30/10/2013 🔹 9:31:54 A 💿	C Fit. Hrs 500.00 Fit. Cycles 100
🐁 🌔 Open Items (83) 🐺 Discrepancies	s (1) S Work Information (3) 😚 Component Re	placement (1) 🥠 Material Request (0)	
Search Options: 📝 Log Cards 📝 Mine	r grant contraction	arch For Go	
	CR Record displayed in "pending action items" folder	ess HS ES NR Category Rep Maint.Event	air Ref. Time ZoneIST Package Desc. Package Description
[OFF] -> 0-0440-4-0005:36361 :: MA			
	Work Information		
⊕ 320MPD-05-018-01089∷3 ⊕ DR-000074-2013∷4	Task # - Taly # - Seq. #Q	is updated as blank	Status HS ES NR
	Source Status	Component Replacement #	
	Replace 🗸		
	Removed Part #Q Removed Serial #Q	Rem. Disposition / Codn.	Reason #
	0440-4-0005:36361 123	Missing VINServiceable	Inspection V Removal Qty. 1
	Installed Part #9. Installed Serial #9.	A/C Level #Q	A/C Position #Q
	0440-4-0005:36361 456		Attachment Qty.
۲	Object Type Record Mode	Date & Time	Confirmed Failure?
Next Steps	Normal V	30/10/2013 o 9:31:54 AM o	
Important Dates 💌	employee # Kemoval Remarks 04974 test	Serial # Type	Removed MSN #
Links	Acceptance Ref.		
Aircraft Maintenance Execution -> Aircraft Maintenance E	xecution		🌛 🔹 🕑 59 Minute(s)
🔊 🤌 🚞 👩 🗔			- 🛱 ሌ 🖻 9:33

Exhibit 2:

On confirmation of component replacement details with Source as "Replace" and Object

Type as "Other Parts"

Record Aircraft Maintenance Execution	Details							式 Trailbar 🗸 🏠
Exe. Details Aircraft Reg #Q 1001	Go Station Atlanta Inter	nat 🗸 🛛 Work Center	ATL-104-05	V Date & 1	Fime 30/10/2013	9:31:54 A 🔹 🤇	Fit. Hrs 500.0) Flt. Cycles
Popen Items (83) 🐼 Discrepancie	es (1) 🔑 Work Information	(3) 👌 Compo	nent Repla	cement (1)	🔩 Material Reque	st (0)		
Search Options: 🔽 Log Cards 🔍 Mir	or 🔽 Major Search by	Search by	✓ Se	arch For		Go		
→ VPP-000187-2013 (Removal Part Information - > In → 320MPD-05-018-01080::1 → [] [Click for New CR] → [] Pending Action Items	Log CR Record disp	cord displayed in		ess HS	ES NR	Category Repa	r Ref. Time Zo	neIST sc. Package Description
Replaced Items	pending action	items ioluei		<u></u>				
E [OFF] - > 0-0440-4-0005:36361	Wa			Status is upo	dated as bla	nk		
	Task # - Tally # - Seq. # Q 320MPD-05-01B-01 1		Exec Plan neu	_				HS ES NR
	Component Penlacement		/					
			\sim	/				
				C				(
	Renlace v	Replaced		NCR-000088-2013	ent#			
	Removed Part #Q	Removed Serial #9		Rem. Disposition / Co	dn.		Reason #	
	0440-4-0005:36361	123		Missing	lins	erviceable	Inspection	Removal Oty
	Installed Part #Q	Installed Serial #Q		A/C Level #Q			A/C Position #9	itemovar gty.
	D440-4-0005:36361	456						Attachment Otv.
(_ III _) >	Object Type	Record Mode		Date & Time			Confirmed Failure?	
Next Steps	Other Parts 🗸	Normal	-	30/10/2013	9:31:54 AM		Not applicable 🗸	
Important Dates	Employee #Q	Removal Remarks		Serial # Type			Removed MSN #	
Linke	04974	test		Existing 🗸				
LIIKS	Acceptance Ref.							
Aircraft Maintenance Execution -> Aircraft Maintenance B	Execution							🏹 🕑 49

G. Facility to update error log for component replacement transactions where user provides all valid details but selects Force Part Change option

Reference: AHBD-791

Background

Ramco Aviation Solution supports execution of component replacements through Component Replacement tab provided in the Record Aircraft Execution Details screen in the Record Aircraft Execution Details activity of the Aircraft Maintenance **Execution** business component. To perform a component replacement, user provides the following information in the **Component Replacement** tab: Source Type, Removed / Installed Part #, Removed / Installed Serial #, object type, Record Mode, Date and Time and other details based on values provided in the above mentioned controls. The part and serial information will be validated on save of component replacement details. In situations when the correct part / serial information is not available, the user can provide invalid part / serial detail, select Record Mode as "Force Part Change" and continue with the component replacement transaction. In this case, relevant error description will be saved in the error log of the corresponding component replacement record with status as "Pending". The user can refer the error log at a later point of time, and provide valid details in Edit Component Replacement Details screen, in which case status of the error ID will be changed to "Close". In scenarios when user enters valid part serial details with the Record Mode as "Force Part Change", the error description for the component replacement record will be left blank.

Change Details

With this enhancement, if user confirms a component replacement with valid part / serial details and Record Mode as "Force Part Change", error description for the corresponding component replacement record will be updated as "No Errors" with status as "Closed", if system has not detected any errors in the component replacement transaction.

Exhibit-1: Error log description and Status for the component replacement transaction with Record Mode as "Force Part Change" and no errors.

Edit Component Replacement Details			« 1 2 3 4 5)) >> 5 /11 🔯 Trailbar •	≙ 🛱 📮			
Component Replacement Details								
Component Replacement # REPL-000 Source Document Type A/C Main	0297-2013 nt. Exe. Ref # ¥	Status Error-Removed Source Document # VP-000013-2012						
Next Higher Assembly Details			Record Mode With Error	•				
Arcraft Reg # Vt-mc Component Type NHA Part # NHA Part Desc Removal / Instalation Details Error Log Error Log	"No Error" description	"Clo	Position Code 5 ATA # NHA Serial # Seed" status		<u>م</u>			
# Error ID Error Description		Status	Logged Date & Time	Processed Date & Time				
1 No Error		Closed	30/10/2013 9:43:46 AM					

H. Facility to Reverse the Compliance in Record Aircraft Maintenance Execution

Reference: AHBD-6604, AHBD-6566

Background

Currently in Ramco Aviation Solution, the latest Compliance details will not be reverted though the Execution Status of task is changed from "Completed" to "In progress" in the **Record Aircraft Maintenance Execution Details** interface by users provided the process parameter "Allow re-opening of completed packages / tasks?" is set as "Allowed"

With the introduction of this new feature, on changing the Execution Status of a task from "Completed" to "In progress" (or) while invoking the start clock for completed task in the latest execution reference document from "Record Aircraft Maintenance Execution" page, the latest compliance details of the task will be reverted to its previous schedule details. This applies for Aircraft Maintenance and Component Maintenance Program tasks also.

Change Details

To facilitate the above change, a process parameter "Compliance reversal required on task re-opening?" is added for the Entity "Package Type" in the **Define Process Entities** screen.

If the process parameter "Compliance reversal required on task re- opening?" is set as "Required" for the package, users will be allowed to reverse the latest Compliance of task from the **Record Aircraft Maintenance Execution** screen either by changing the Execution Status of a task from "Completed" to "In progress" or by invoking the start clock for completed task. The latest compliance details of the task will be deleted and will revert to its previous compliance schedules in program.

Note: Reference Screen shot enclosed.

The deleted compliance schedule details can be viewed in the **Track Maintenance Compliance History** screen only on using the "View Correction" option in the "Search On" drop-down list box.

This applies for Aircraft Maintenance Program and Component Maintenance Program tasks also.

Reverse Compliance of the task will not be allowed for the scenarios mentioned below:

- Compliance effecting Configuration change (Engineering order task).
- The task opted in the Aircraft Maintenance Execution screen is not the latest complied instance.

- Tasks of "Initiate Records Follow-up" relationship with follow-up action "Closed".
- Latest instance of a task is allocated to a package.
- Schedule detail of a task changed from "Date Based" to "Usage Based" and vice versa after latest Compliance.
- Parameter addition or deletion to a task in program after latest compliance.
- Short-term Escalation exists after latest compliance.
- Task opted is of Job Type: Component Replacement.
- Parameter recording exists for a task.

Note: The above changes will also apply for the "Work Monitoring and Control" activity.

Exhibit: 1

Track Maintenance Compliance History page.

	■ • Track Maintenance Compliance History 33 Tr												Trailbar
_									Date & Tir	ne Format <mark>dd/m</mark>	m/yyy	y	
Sea	arch Cri	iteria											
	Search on				rections	v			Maint. Obje	ct		*	
	Compliance Date: From / To			01/01/19	900		30/01/2013	30/01/2013 🖸 Additional Se		Execution D	oc. #	*	010022
	Applicability			У		~			Eng. Schedule Ty	pe		*	
-							Searc	ch					
Cor	npliand	ce Details											
«	•	1 - 3/3 🕨 🕽	» (+ 🗗 🍸	X			1			All			~
=	0	Aircraft Reg #	Part #	Serial #	Task #	Tas	k Task Description	Job Type	Parameter Co	mpliance Mode	Due	Dati	e
1	8	CRJ 470-4	0-1450PSI	54545446	00-00-38		Inspection of windshi	On Wing	Calendar DE	LETED	22/08/2015		15
2	8	CRJ 470-4	0-1450PSI	54545446	00-00-38		Inspection of windshi	On Wing	Calendar DE	LETED	22/08/2015		15
3		CRJ 470-4	0-1450PSI	54545446	00-00-38		Inspection of windshi	On Wing	Calendar DI	RECT	22/0	8/20	15
4	0						a nariter estimat						

I. Facility to support package print if special characters are mentioned in task description / planning comments

Reference: AHBE-5080

Background

In Ramco Aviation solution, **Plan Aircraft Maintenance** and **Record Aircraft Maintenance Execution Details** activities allow planners and mechanics to print packages. Task cards will be printed for the package along with documents associated with the individual tasks.

Package printing feature has been enhanced so as to support printing of task cards with special characters in task description and planning comments containing special characters.

Change Details

With the introduction of this change, when the user invokes Print All / Print Selected icons from **Plan Aircraft Maintenance** or **Record Aircraft Maintenance Execution Details** pages, the system shall print all package related info (including task cards) even if special characters are mentioned in task description / planning comments.

J. Part tag report enhancement

Reference: AHBE-8169

Background

Part tags help identify serviceability & airworthiness of parts. Ramco's M&E system facilitates printing of part tag reports from various user interfaces available in application. Certain operators require the part condition in part tag to be printed as "As Removed" for serviceable parts removed from aircraft. Such parts can be tagged as serviceable only if certified by a repair station. To facilitate the same, Ramco's part tag print capability has been enhanced so as to print part tag as "As Removed" based on an option setting.

Change Details

New option setting – "*Print tag as 'As Removed'?*" is available for each Disposition Code in **Define Process Entities** (Common Master Business component). This option can be enabled only if Applicable Document for selected disposition code is set as Aircraft Maint. Exe. Ref. #. (Refer Exhibit-1)

Exhibit 1: Disposition Code – Process Parameter setting (Define Process Entities)

Pro	ess Parameter List					
<	I -21/21	12 🖸 🖸 🖾		~	Q	
#	Process Parameter	Permitted Values	Value	Status	Error Message	
1	Applicable Document	Enter "0" for 'Shop Work Order' , "1" for 'Aircraft Maint. Exec. Ref #' , "2" for 'Both'	1	Defined		
2	Initial Disposition ?	Enter "0" for 'No', "1" for 'Yes'	1	Defined		
3	Final Disposition ?	Enter "0" for 'No' , "1" for 'Yes'	1	Defined		
4	Removed Core Condition?	Enter "0" for 'Phased Out', "1" for 'Unserviceable', "2" for 'Serviceable'	2	Defined		
5	Recommendation for Phase Out	Enter "0" for 'No' , "1" for 'Yes'	0	Defined		
6	Return Option for Sub-Assembly?	Enter "0" for 'Org. Work Center' , "1" for 'Top Assembly Work Center' , "2"	4	Defined		
7	Return Option for Main Core?	Enter "0" for 'Warehouse', "1" for 'Not Applicable'	0	Defined		
8	Create Order on disposition ?	Enter "0" for 'Not Required', "1" for 'Execution Order'.	Defined			
9	Replenishment of Core ?	Enter "0" for 'Manual' , "1" for 'Auto'	Enter "0" for 'Manual' , "1" for 'Auto' 0 D			
10	MR Priority	Defined values from Logistics Common Master	NRM	Defined		
11	Routing Slip Print ?	Enter "0" for 'Manual' , "1" for 'Auto' , "2" for 'Not Applicable'	0	Defined		
12	Salvage Action - Internal Stock	Enter "0" for 'Scrap at Work Center' , "1" for 'Return to Warehouse' , "2" for 'Not	2	Defined		
13	Salvage Action - External Stock	Enter "0" for 'Scrap at Work Center' , "1" for 'Return to Wareho		hed		
14	Standard Exchange?	Enter "0" for 'No' , "1" for 'Flat Exchange' , "2" for 'Exchange w Option to	be enabled	ned		
15	Reason for Standard Flat Exchange	Enter a Valid Reason Code defined in 'Manage Reason for Exch		Defined		
16	Default Disposition code for Auto generated orders?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined		
17	Reason for Standard Exchange with Repair	Enter a Valid Reason Code defined in 'Manage Reason for Exchange / Swaps' in the		Not Defined		
18	Issue Certificates - Part Tag Report?	Enter "0" for 'Marked for Retirement' items', "1" for 'Scrapped Parts', "2"	1	Defined		
19	Auto Pre-Closure of work orders on part phasing out?	Enter "0" for 'No' , "1" for 'Yes'	0	Defined		
20	Allow Order Completion / Closure ?	Enter '0' for "Not Allowed", '1' for "Allowed",	1	Defined		
21	Print tag as 'As Removed'?	Enter "0" for 'No', "1" for 'Yes'	1	Defined		

System will print tag as "As Removed" from the following pages if above mentioned process parameter is enabled for part removal disposition code:

(a) Record Aircraft Maintenance Execution Details

(b) View A/C Maint. Exe. Ref. #

(c) View Component Replacement Details (if Source Document is A/C Maint. Exe. Ref. #)



Exhibit-2: Part Tag report sample

Exhibit-3: Part tag print behaviour

Print From	Print Tag as 'As Removed' option	Removal Details Available in tag?	Removed Condition	Current Condition	Tag Condition
Record Aircraft Maintenance Execution Details	Enabled	Yes	<removed Condition></removed 	<current Condition></current 	As Removed
View A/C Maint. Exe. Ref. #	Enabled	Yes	<removed Condition></removed 	<current Condition></current 	As Removed
View Component Replacement Details (if Source is AME)	Enabled	Yes	<removed Condition></removed 	<current Condition></current 	As Removed
Record Aircraft Maintenance Execution Details	Disabled	Yes	<removed Condition></removed 	<current Condition></current 	<removed Condition></removed
View A/C Maint. Exe. Ref. #	Disabled	Yes	<removed Condition></removed 	<current Condition></current 	<removed Condition></removed
View Component Replacement Details (if Source is AME)	Disabled	Yes	<removed Condition></removed 	<current Condition></current 	<removed Condition></removed
Any other page (eg: Inquire Stock Availability)	NA	No	Blank	<current Condition></current 	<current Condition></current

K. Displaying Owning Agency Logo in the Tag report

Reference: AHBE-11709

Background

Owning Agency Name and Logo is now printed in the part tag report.

Change Details

A new section is added in the Tag report below the **Inspection Remarks** section. The **Owning Agency** section is displayed only when the part is either a Supplier owned part or a Customer owned part. In both cases, the name of the owning agency is printed along with their logo. If a logo does not exist, only the name of the owning agency is printed in this section.

The Owning Agency section will be visible in the tag report only if it is printed from the following screens:

- 1. Print Tag for Removed Object link in Record Aircraft Maintenance Execution Details screen.
- 2. Print Tag to Removed Object link in View A/C Maint. Exe. Ref # screen

The logos have to be saved in the same location as the other report logos (...Ramco DecisionWorks\DW\DW_REFACTOR\ReportFiles) in the below mentioned format.

For a supplier logo: SUP_CompanyCode_OwningAgencyNo.bmp

Example: SUP_RAMSYS_0123.bmp

For a customer logo: CUS_CompanyCode_OwningAgencyNo.bmp

Example: CUS_RAMSYS_10001.bmp

Note: For an internally owned part, this section will not be printed.

Exhibit – 1:

Owning Agency Section in the bottom of a sample Tag report

Jet Airway Siroya Ce Andheri (I Mumbai, Maharash India, 400099							vays (India Centre, Sa (East)., i, shtra,	a) Limited ahar Airport Road,		
Se	rvic	eab	le	Cor	nponent					
COM	PONENT #			TSN / CSN	TS	so/cso			TSI/CSI	
COM	P-003509			0.00/0	Not A∨lt	./Not A√lb		No	t Avlb./Not Avlb.	
PART #	SERIAL #	/ LOT #/		PART DE	SCRIPTION			C	OBJECT TYPE	
0-0440-4-0011:	DES	SIRE 6		MEAL	TROLLEY				Component	
REF. D	OC TYPE				REF. DOC #			CURRENT CONDITION		
A/C Ma	int. Exe. Ref	#		VP-000062-2013				Serviceable		
				REMOVAL DE	TAILS					
COMP. REPL	ACE #	REMOVE	DBY	REMOVAL TYPE	REMOVAL CON		RI	EMOVAL DATE & TIME		
REPL-000307	-2014	01010	כ	Scheduled	Serviceable		10/02/2014		12:20:16	
AIRCRAFT	#	TOTAL FI	1/FC	NHA PART #	NHA SERIAL	NHA SERIAL # BAS		E	POSITION	
N1234		7.10/	3				ATL		POS2	
STOCK			SUPP	LIER	CI		E#		EXPIRY DATE	
PBH										
		REMO	VAL REAS	ON	1		SIGN		/ A&P #	
Remarks AME CR: Discrepancy: new c	remo∨ed liscrepancy									
removed				INSPECTION RI	EMARKS					
OWNING AGENCY	·			Ramco S	ystems					
	New section									
						Generated	On: 03	3/03/2014	5:37:53 PM	

L. Smart Search feature

Reference: AHBE-9555

Background

Smart search feature recently introduced in Ramco's Aviation Suite (as known as REAP Search – Ramco Enterprise Application Search), facilitates quick data entry by the end user.

To enhance usability, certain commonly used data fields in **Record Aircraft Maintenance Execution Details** page, have been enabled with this smart search feature.

Change Details

Smart Search has been enabled for the below data fields in **Record Aircraft Maintenance Execution Details** page. (Refer Exhibit-1)

Discrepancy Tab:

- 1. ATA #
- 2. Deferral Item #
- 3. Part # (Component Details Section)

Work Information Tab:

- 1. ATA #
- 2. Task #
- 3. Part # (Component Details Section)

Component Replacement Tab:

- 1. Removed Part #
- 2. Installed Part #

Material Request Tab:

- 1. Part #
- 2. Substitute Part #
- Note: Prior to usage of this feature, please ensure that REAP (Ramco Enterprise Application) search installation is done appropriately. Refer installation manual – "Trn-Bsg-Reaps-Installation.pdf" for further info.

Exhibit 1: Smart Search feature for Task # field in Work Information tab

Record Aircraft Maintenance Execution	1 Details				😂 Trailbar 🗸 🏠 🖨
Exe. Details Aircraft Reg #Q vt-vmv	Go Station Adelaide Interna	Work Center 1	▼ Date & Time	11/Oct/2013 17:	57:26
Pa Open Items (90) 🐼 Discrepanci	ies 💷 🔑 Work Information 💷 🤯 C	ATA No. ATA D	escription (25)		
Search Options: 🗹 Log Cards 😿 N	Minor 🕼 Major Search bySearch by	4900 4900			
🗄 🗉 🗷 Search - Filter 🗙 🔑 🌱 🔎	Execution Record Details	4917 4917		î	
i 🗁 vt-vmv		4920 4920			
AME000581-2013 - Task Cards	* 🗎 🔞 🗹 🗶 🐁 🐁	4921 4921			
in-Progress	Exe. Ref. # Heavy - AME000581-2013	4926 4926			DEFECT V Ref. Time Zone ADZ
	Log # 12 Orig. Work Center	4940 4940			✓ Cust. Order #♀
		4980 4980			
	Work Information	4990 4990			
	on 📼 🦉 🕞	49-50 APU A	JR .		4
	Task #0	49-90 APU 0	IL	×	Off Status
	Idbk # *	49-11 APU (OWLING		on status
	Task Type	Total Rows: 19		1 - 19 < 🕨	
	Task	49			
	Task Description	Execution Comments		Job Type	
	C			Aircraft v Work Center #	
	Edit Task Additional Information Record Parameter Reading / Cond. Eval. Form	Author Repair Procedure View Comments Informati	n		Perform Opportunity Maintenance View Task
	View Task Dates & References View Documents	View AMM Reference Bulk Material Request	<u></u>		Upload Documents

WHAT'S NEW IN FLIGHT LOG?

A. Flight Summary Report

Reference: AHBE-9917

Background

Flight summary report provides the user with a distilled view of the Leg / Summary level parameters that are mapped to the aircraft and attached engines, including the calculated parameters. It also enables the user to view the details of the parameter updates with respect to the journey logs and manual parameter value entries without traversing to the respective screens in the application.

Change Details

A new activity, **Generate Flight Summary Report**, has been added in the Flight Log component. The following entry screen is launched on click of the activity.

Business Process: Generate Flight Summary Report	Cu	istomer:BASE	Project: BASE	User: PROTOUSER	Request: [LATEST]		
📩 Business Process 🔹 👷 Objective 🗸	Proto Viewer			🛍 🎡 🎝 🗈 🚖	🕕 🗐 📜 Themes -		
Flight Summary Report				😹 Traibar 🛪	🔝 🚔 🛱 💭 😣		
				Date Format			
Search Criteria							
Aircraft Reg #Q. Flight Category 🛛	From / To Date	3 D		Display Option All	×		
	Generate Flight Summary Report						
Flight Log -> Generate Flight Summary Report					119 Minute(s) 1:11 PM		

The user must provide the Aircraft Registration # and date range for which the report has to be launched. The user will also have the ability to launch report based on the following filters.

- a) **Display Option:** The user can generate report for the following display options:
 - All All the journey logs and the manual parameter update entries will be listed with the parameter details.
 - JL Entry All the journey logs will be listed with the parameter details.
 - Zero JL Entry Only those JLs which have flying hours as zero will be listed with the parameter details.
 - Manual Entry Only the manual parameter update entries will be listed.

- b) **Flight Category** User can filter the journey logs with only the specified flight category.
- c) **Journey Log Category** User can filter the journey logs with only the specified journey log category.

On click of **Generate Flight Summary Report**, the report is generated and will be available for the user in excel format.

	A	В	С	D	E	F	G	Н		J	К	L	М	N	0	P Q R S T U V W X
1	100	.									FUC					ADDESS
2	LOG	° I									1 Lie	iii somman	I ALFONI			NUNLOO
3	AIRCRAFT	MODEL	TTSH	TOSH	LIFTS	HLT	RHC	RHH	ES (7200-EN6 \$1)	Hq (7200-ENG \$1)	NF (7200-ENG \$1)	LAST JL 8	LAST JL DATE	LAST LOG #	PERIOD	
4	PK-FUE	AS350BA	5,200.00	3980	1900	1,230.00	1100	120.33	3510	3610.00	3500.00	JL-0998-2013	29-10-2013	277	01-JAN-2013 68 30-JAN-2013	
5																
												15	н.	N		
6	DATE	L06\$	JL#7MPIU	FLIGHT CAT.	JUCAT.	FH	LC	LIFTS	HLT	RHC	RHH	(7201-ENG\$1)	(7200-ENG#1)	(7200-ENG\$1)	TTSN	
7	26-1260	NA	MP10-0012-2013	NA	NA	1.50	0	<u> </u>	0	0			0.00	0.00	3,210,00	
8	30-Jan-2013	030	JL-000095-2013	CHARTER	CUST-001	3.00	2	÷.	10	2	10	2	2.00	2,00	3,210,00	2139 T25 537 12349 1244 are displayed
9	29-Jan-2013	029	JL-800893-2013	CHARTER	CUST-001	2.50	1	1	1.0	3	1.0	2	1.09	1.00	3,277.00	2037 724 536 123.60 1241
10	28-Jan-2013	028	JL-100090-2013	CHARTER	CUST-001	2.60	1	1	1.0	2	1.0	3	1.00	1.00	3,274.50	2136 723 535 123.60 1240 1747 2136.00 1240.00
11	27-Jan-2013	027	JL-100081-2013	CHARTER	CUST-001	2.10	1	1	1.0	1	1.0	2	1.00	1.00	3,271.90	2035 722 534 123.60 1239 1744 2035.00 1239.00
12	26-Jan-2013	026	JL-100185-2013	CHARTER	CUST-001	3.00	1	1	2.0	3	2.0	2	1.00	1.00	3,269.00	2034 721 533 123.60 1230 1742 2034.00 1238.00
13	25-Jan-2013	025	JL-000082-2013	CHARTER	CUST-001	4.00	2	0	0.0	0	0.0	1	2.00	2.00	3,266.00	2033 720 531 123.60 1237 1740 2033.00 1237.00
14	24-Jan-2013	024	JL-100079-2013	CHARTER	CUST-001	5.00	2	0	1.0	0	1.0	3	2.00	2.00	3,262.80	2/31 72/ 531 123.50 1235 1739 2/31.00 1235.00
15	23-Jan-2013	023	JL-100075-2013	CHARTER	CUST-001	8.00	2	2	2.0	2	2.0	2	2.00	2.00	3,257.80	2129 720 530 123.50 1232 1736 2129.00 1232.00
16	22-Jan-2013	022	JL-100169-2013	CHARTER	CUST-001	4.00	1	0	0.0	0	0.0	1	1.00	1.00	3,249.00	2027 740 528 123.50 1230 1734 2027.00 1230.00
17	21-Jan-2013	021	JL-100062-2013	CHARTER	CUST-001	1.50	1	0	0.0	0	0.0	1	1.00	1.00	3,245.80	2126 710 528 122.50 1229 1733 2126.00 1229.00
18	20-Jan-2013	020	JL-100060-2013	CHARTER	CUST-001	3.90	2	1	1.0	2	1.0	1	2.00	2.00	3,244.30	2125 711 523 122.50 1223 1732 2125.00 1223.00
19	19-Jan-2013	019	JL-100057-2013	CHARTER	CUST-012	2.90	1	1	1.0	2	1.0	2	1.00	1.00	3,240.40	2123 717 527 122.50 1226 1731 2123.00 1226.00
20	18-Jan-2013	013	JL-100053-2013	METER	CUST-012	1.90	1	1	1.0	2	1.0	2	1.00	1.00	3,237.50	2122 746 528 122.50 1225 1729 2122.00 1225.00
21	17-Jan-2013	017	JL-100050-2013	CHAN	CUST-012	3.70	2	1	2.0	1	2.0	1	2.00	2.00	3,235.60	2021 715 525 122.50 1224 1727 2021.00 1224.00
22	16-Jan-2013	016	JL-100049-2013	CHARTEN	912	4.10	2	2	2.0	2	2.0	4	2.00	2.00	3,231.90	2019 714 523 122.50 1222 1726 2019.00 1222.00
23	15-Jan-2013	015	JL-100044-2013	CHARTER		0.00	0	0	0.0	0	0.0		0.00	0.00	3,227.80	2017 712 521 122.50 1219 1722 2017.00 1219.00
24	14-Jan-2013	014	JL-100042-2013	CHARTER	PJA		1	1	1.0	1	1.0	2	1.00	1.00	3,227.80	2017 712 521 122.50 1219 1722 2017.00 1219.00
25	13-Jan-2013	013	JL-100040-2013	CHARTS			~			1	1.0	2	1.00	1.00	3,225.40	2016 711 520 122.50 1210 1720 2016.00 1210.00
26	12-Jan-2013	012	JL-100035-2013	CHARTE	le.				and	1	1.0	2	2.00	2.00	3,222.70	2015 710 519 121.00 1217 1718 2015.00 1217.00
27	11-Jan-2013	011	JL-100131-2013	CHARTE	J0I	ume	ey Lo	Jgs	anu		0.0		0.00	0.00	3,219.90	2013 709 518 121.00 1215 1716 2013.00 1215.00
28	10-Jan-2013	010	JL-100025-2013	CHARTS	Ma	nuc	ú с -	tric	c	1	1.0	2	1.00	1.00	3,219.90	2813 709 518 121.00 1215 1716 2813.00 1215.00
29	09-Jan-2013	009	JL-100020-2013	CHARTS	IVIC	IIIUa		me	2	11	11.0	2	1.00	1.00	3,219.40	2812 708 517 121.00 1214 1714 2812.00 1214.00
30	00-Jan-2013	003	JL-100016-2013	CHARTE		LIV			67	2	1.0	1	1.00	1.00	3,218.60	2811 706 506 121.00 1212 1712 2811.00 1212.00
31	07-Jan-2013	007	JL-100012-2013	CHARTER	CUST-012	1.50	1	1	1.0	1	1.0	2	1.00	1.00	3,217.50	2010 705 505 121.00 1211 1711 2010.00 1211.00
32	06-Jan-2013	0.05	JL-800818-2013	CHARTER	CUST-012	2.70	2	1	1.0	1	1.0	2	2.00	2.00	3,216.00	2009 704 564 120.00 1209 1709 2009.00 1209.00
33	05-Jan-2013	005	JL-800809-2013	CHARTER	CUST-001	3.00	2	1	1.0	1	1.0	2	2.00	2.00	3,213.30	2807 703 503 120.00 1207 1707 2807.00 1207.00
34	04-Jon-2013	004	JL-800805-2013	CHARTER	CUST-001	0.00	0	0	0.0	0	0.0		0.00	0.00	3,210.30	2105 702 502 120.00 1205 1705 2105.00 1205.00
35	03-Jan-2013	003	JL-100105-2013	CHARTER	CUST-001	3.00	2	0	0.0	0	0.0	2	2.00	2.00	3,210.30	2005 702 502 120.00 1205 1705 2005.00 1205.00
36	02-Jan-2013	002	JL-100102-2013	CHARTER	CUST-001	5.80	3	2	2.0	2	2.0	3	3.00	3.00	3,207.30	2003 702 502 120.00 1203 1703 2003.00 1203.00
31	01-Jan-2013	001	JL-100101-2013	CHARTER	CUST-001	0.00	Û	0	6.0	0	0.0		0.00	0.00	3,20150	2100 700 500 120.00 1200 1700 200.00 1200.00
38				TOTAL	30 JL'S	\$9.9	39	44	25	39	37	51	39	39		
39 8	ILT - Heak Lood T	ino		RIN-Retirem	ontindex	E	S - Engina SI	artr			Nf - Campree	rar Oyclee				
40	HC - Rarcus Hei	rt Cyclar		RHH - Recou	HairtHaurz	1	le-Campree	rar Cyclee								
41						Date Fa	rmet Tim	e Formet	Date	Time		Repart Gen	erated by			Page 1 af 1

Flight Summary Report needs to consider and display the parameters in the following order,

Flight Hours, Flying Cycle/Landing Cycle, A/C Leg, A/C Summary, A/C Calculated, ENG-leg, ENG-Summary, ENG-Calculated.

- 1. Flight Hours The parameter Flight Hours mapped as the base parameter for the aircraft.
- 2. Flying Cycle/Landing Cycle The parameter which is mapped as base parameter should be displayed. If both are mapped, both should be displayed.
- 3. A/C Leg Those parameters which are mapped in the **Maintain Flight Log parameters** for which the position code is empty.
- 4. A/C Summary Those parameters for which the Parameter source is mentioned as "Flight Log" in consumption & range parameters.
- 5. A/C Calculated Those parameters for which the Parameter source is mentioned as "Calculated" in consumption & range parameters. If the parameter is captured in Journey Log, the same should not be duplicated.

- 6. ENG-leg Those parameters which are mapped in the **Maintain Flight Log parameters** for which the position code is given.
- 7. ENG-Summary Those parameters of the respective engines for which the Parameter source is mentioned as "Flight Log" in consumption & range parameters.
- 8. ENG-Calculated Those parameters of the respective engines for which the Parameter source is mentioned as "Calculated" in consumption & range parameters. If the parameter is captured in Journey Log, the same should not be duplicated.

Report Layout:

The flight summary report has the following sections:

1. Report Header – This section will display the company logo, report name and the company address.

LOGO	FLIGHT SUMMARY REPORT	ADDRESS
	• •	

2. Parameter Total Header – This section will display the totals of all the parameters applicable for the report and the details of the last approved journey log for the aircraft. The date range for report is also displayed.

AIRCRAFT	MODEL	TTSN	TCSN	LIFTS	HLT	RHC	RHH	ES (7200-ENG #1)	Ng (7200-ENG #1)	Nf (7200-ENG #1)	LAST JL #	LAST JL DATE	LAST LOG #	PERIOD
PK-FUE	AS350BA	5,200.00	3900	1900	1,230.00	1100	120.33	3500	3610.00	3500.00	JL-0998-2013	29-10-2013	277	01-JAN-2013 till 30-JAN-2013

3. JL / Manual Update Details – This section will list all the journey logs and the manual parameter updates, with the delta and total value of the parameters, for the specified aircraft and the date range. The total of all the delta updates to be displayed in the last row of the list. The legends of the parameters will be displayed after the totals.

DATE	L06 \$	JL\$7MP9U	FLIGHT CAT.	JL CAT.	FH	LC	LIFTS	HLT	RHC	RHH	ES (1210-ENG \$ 1)	Nq (7201-ENG \$ 1)	NF (7200-ENG \$ 1)	TTSN	LIFTS HLT RHH RHC TOTALES TOT (7210-ENG\$1) (7200	ALNe TOTALNF ENS\$1) (7200-ENG\$1) REMARKS(JL/MPTU)
30-Jen-2013	NA	MPVU-0012-2013	NA	NA	1.50	0	0	0	0	0	0	0.00	0.00	3,280.00	725 537 123.60 1244 1751 28	9.00 1244.00 FH CORRECTION
30-Jen-2013	7 030	JL-101056-2013	CHARTER	CUST-011	3.00	2	1	1.0	2	1.0	2	2.00	2.00	3,280.00	NE 193 (N/A) (N/A) (N/A) (N/A)	<u> </u>
29-Jen-2013	029	JL-101093-2013	CHARTER	CUST-011	2.50	1	1	1.0	3	1.0	2	1.00	1.00	3,277.00	Demonstrative scaling in a selice	
28-Jen-2013	028	JL-808050-2013	CHARTER	CUST-001	2.60	1	1	1.0	2	1.0	3	1.00	1.00	3,274.50	Remarks will be dis	Diayed if 7
27-Jen-2013	P 027	JL-808018-2013	CHARTER	CUST-001	2.10	1	1	1.0	1	1.0	2	1.00	1.00	3,271.90	available in Journey	
26-Jen-2013	026	JL-101016-2013	CHARTER	CUST-001	3.00	1	1	2.0	3	2.0	2	1,00	1.00	3,269.80	available in Journey	LUY
25-Jan-2013	025	JL-101012-2013	CHARTER	CUST-001	4.00	2	0	0.0	0	0.0	1	2.00	2.00	3,266.80	and Do Initializo / II	odato
24-Jen-2013	024	JL-101079-2013	CHARTER	CUST-011	5.00	2	0	1.0	0	1.0	3	2.00	2.00	3,262.00		puale
23-Jen-2013	023	JL-808075-2013	CHARTER	CUST-001	\$.00	2	2	2.0	2	2.0	2	2.00	2.00	3,257.40	Parameter Values s	creen
22-Jen-2013	022	JL-808069-2013	CHARTER	CUST-001	4.00	1	0	0.0	0	0.0	1	1.00	1.00	3,249.80		ciccii
21-Jen-2013	021	JL-101062-2013	CHARTER	CUST-011	1.50	1	0	0.0	0	0.0	1	1.00	1.00	3,245.80		
20-Jen-2013	020	JL-808060-2013	CHARTER	CUST-001	3.90	2	1	1.0	2	1.0	1	2.00	2.00	3,244.30	718 528 122.50 1228 1732 28	5.00 1228.00
19-Jen-2013	019	JL-101057-2013	CHARTER	CUST-002	2.90	1	1	1.0	2	1.0	2	1.00	1.00	3,240.40	717 527 122.50 1226 1731 28	3.00 1226.00
18-Jen-2013	018	JL-101053-2013	CHARTER	CUST-002	1.90	1	1	1.0	2	1.0	2	1,00	1.00	3,237.50	716 526 122.50 1225 1729 28	2.00 1225.00
17-Jen-2013	017	JL-808050-2813	CHARTER	CUST-002	3.70	2	1	2.0	1	2.0	1	2.00	2.00	3,235.60	715 525 122.50 1224 1727 28	1.00 1224.00
16-Jen-2013	016	JL-101049-2013	CHARTER	CUST-002	4.10	2	2	2.0	2	2.0	4	2.00	2.00	3,231.90	714 523 122.50 1222 1726 28	9,00 1222.00
15-Jen-2013	015	JL-101044-2013	CHARTER	CUST-002	0.00	0	0	0.0	0	0.0	0	0.00	0.00	3,227.80	712 521 122.50 1219 1722 28	7.00 1219.00
14-Jen-2013	014	JL-101042-2013	CHARTER	PJ1-NOR	2.40	1	1	1.0	1	1.0	2	1,00	1.00	3,227.80	712 521 122.50 1219 1722 28	7.00 1219.00
13-Jen-2013	013	JL-101040-2013	CHARTER	PJ1-NOR	2.70	1	1	1.0	1	1.0	2	1,00	1.00	3,225.40	711 520 122.50 1218 1720 28	6,00 1218.00
12-Jen-2013	012	JL-101036-2013	CHARTER	PJ1-NOR	2.80	2	1	1.0	1	1.0	2	2.00	2.00	3,222.70	710 519 121.00 1217 1718 28	5.00 1217.00
11-Jen-2013	011	JL-101031-2013	CHARTER	PJ1-NOR	0.00	0	0	0.0	0	0.0	0	0.00	0.00	3,219.90	709 518 121.00 1215 1716 28	3.00 1215.00
10-Jen-2013	010	JL-808026-2013	CHARTER	PJI-NOR	0.50	1	1	1.0	1	1.0	2	1,00	1.00	3,219.90	709 518 121.00 1215 1716 28	3.00 1215.00
09-Jen-2013	009	JL-808020-2013	CHARTER	CUST-002	0.80	1	2	11.0	11	11.0	2	1,00	1.00	3,219.40	708 517 121.00 1214 1714 28	2.00 1214.00
48-Jen-2013	003	JL-101016-2013	CHARTER	CUST-002	1.10	1	1	1.0	2	1.0	1	1,00	1.00	3,218.60	706 506 121.00 1212 1712 28	1.00 1212.00
07-Jen-2013	007	JL-101012-2013	CHARTER	CUST-002	1.50	1	1	1.0	1	1.0	2	1,00	1.00	3,217.50	705 505 121.00 1211 1711 28	3.00 1211.00
66-Jen-2013	005	JL-101010-2013	CHARTER	CUST-002	2.70	2	1	1.0	1	1.0	2	2.00	2.00	3,216.00	704 504 120.00 1209 1709 28	3.00 1209.00
05-Jen-2013	005	JL-101019-2013	CHARTER	CUST-001	3.00	2	1	1.0	1	1.0	2	2.00	2.00	3,213.30	703 503 120.00 1207 1707 28	7.00 1207.00
04-Jen-2013	004	JL-101016-2013	CHARTER	CUST-001	0.00	0	0	0.0	0	0.0		0.00	0.00	3,210.30	702 502 120.00 1205 1705 23	3.00 1205.00
#3-Jen-2013	· 003	JL-101015-2013	CHARTER	0051-001	3.00	-				0.0	-	2,00	2.00	3,210.30	1/12 5/12 12/10/0 12/15 17/15 28	5.00 1205.00
#2*Jen*2015	V 002	JL-101012-2015	CHARTER	CUST-001	5.80	\$	6	20	2	2.0	\$	3,00	3.00	3,207.50	102 502 12000 1203 1703 28	3.00 1203.00
11 941 6712	441	V6 TVTVTT SVTZ	TATEL	20.010	0.00			0.0 X		23		0.00	9.09	5,201.20	100 500 120.00 1200 1100 20	200 1200.00
HIT, Healt Land	lin.		PIN Patient	soul's	++	37 FS - Facine St		63	63 37 31 21 37 37 N: Descurate/uk							
HLI-Host Lood line Nill-Natirementindex ES-En-					La - Langard St.				in-ventra							
nno - narcea Ha	acoydar		nnn - Kercue	nercheur		ng-campraz	er vy der				D				B 4/4	

B. Facility to enable and disable the visibility of specified flight details in the flight log screens based on option settings to promote usability.

Reference: AHBE-1288

Background

Currently in Ramco Aviation Solution, Flight details are captured in Leg details multiline of Flight log screens (Create, Edit, Amend and View Journey Log). In the purview of user's preference to reduce data capture / entry in few specific flight detail columns. The subject change is made to ensure usability and customization of the specified flight log columns to the preference of the user.

This change will help the user to hide the following columns, when the user prefers not to maintain the specified details.

- 1) Flight # & Leg #
- 2) Landing Time
- 3) Take-off Date & Take-off Time

The user will be able to carry on the transaction without any interruptions from the validations of the columns that are not visible in the screen.

Change Details

The visibility of the Flight #, Leg #, Landing Time, Take-off Date and Take-off Time columns can be managed by Flight log's option setting.

Category 'Journey Log Display Options' is added to Flight Log Recording Options (Tab 2) under "Flight Log \rightarrow Set Options" activity.

Value set against the Parameters shown in 'Journey Log Display options' will enable (or) disable the below specified columns shown in 'Leg Details' multiline of Flight log screens.

- 1) Flight # & Leg #
- 2) Landing Time
- 3) Take-off Date & Take-off Time
- Note: If the visibility of Flight # & Leg # is set as "No", then user will not be able to set the flight details validation basis to "Assignment" or "Flight #".
- This change will override the existing validation available for the disabled columns due options set in 'Journey Log Display Options'

🍰 Business Process 🔹 👷 Recent Activities 🔹 🐈 Favorites 🔹		Quick Code 🔶 🖌	🛿 Screen Test 🛛 🎦 🎡 👼 🔝 👷 🕕 🚺 🔡 Themes
Treate Journey Log			📑 Traibar 🗸 🏠 🗟 🗸 (
			11.14/11.14/
Lee Debelle		Date & lime Format mm-dd-yyyy	
Log Details	Eliabet Date 08-12-2013	Chabur	Dan Time Zone Local er
Aircraft Dog #0		Fight One Type Regular	
Flight Category	Journey Log Category	Log #	
Log Reference Details		·	
Leg Details Summary Parameter Details			
Leg Details			
« 🖣 [No records to display] 🕨 🔊 🕂 — 🗗 🌡	9 🐼 Y 📡		A V
# 🖹 Line # (Fight # Q) (Leg #) Dep. STN	Arr. STN Q Dep. Date Dep. Time	Take Off Date Take Off Time	Landing Time Arr. Date
1 🗉		\bigcirc \bigcirc	
	۲ III		l F
Other Details			

Exhibit 1: Specified Flight Detail columns are highlighted in Leg details multiline

Exhibit 2: Flight Log \rightarrow Set Options \rightarrow Tab 2 (Flight log Recording Options) highlights

New category: Journey Log Display Options & 3 Parameter values defined for it

Business Process: Flight Operations	User: DMUSER	Organization Unit: ABC Limited					Role: ABC Role
🚠 Business Process 🔹 🇋 Recent Activities 🔹 🐈 Fa	avorites • Welcome to Ramco Aviation Sc	olutions Release 5.6 - System Testing Environment	Quick	Code 🔶	🛷 Screen Test 🔹	🋍 🚳 🎝 🗷 👷 🛛	🕕 🚮 🔚 Themes
Set Options						😹 Traibar 🔹	
Numbering Options Elight Log Recording Option	Reporting Options Additional Options			Date Format	mm-dd-yyyy		
right Log Recording Option	is Reporting Options Additional Options						
Select Options							
		Select Options Journey Log Display Options					
Flight Day Computation / Journey Log Display C	Options						<u>.</u>
≪ • <u>1</u> -3/3 ▶ ≫ + @ & ¥ ¥		1			All .	*	P
# Category	Parameter	Permitted Values	Value	Status	Message Cente	r	
1 Journey Log Display Options	Display Take-off Date & Take-off Time	Enter "0" for 'No' , "1" for 'Yes	0	Defined			
2 Journey Log Display Options	Display Landing Time	Enter "0" for 'No' , "1" for 'Yes	1	Defined			
3 Journey Log Display Options	Display Flight# and Leg#	Enter "0" for 'No' , "1" for 'Yes	0	Defined			_
4							
							-
		Set Option					
Record Statistics							
Flight Log -> Set Options							0 56 Minute(s) 7:04

C. 'Log #' field addition in Journey Log screens to capture the Flight log sheet reference.

Reference: AHBE-1288

Background

Log Sheet Reference number needs to be captured in Journey Log screens (Create, Edit, Amend and View Journey Log).

Change Details

'Log #' field added to Flight log screens as

- 'Editable field' in Create / Edit & Amend Journey Log screens and
- 'Display field' in View Journey Log screen.
- ✤ Our key intention will be to capture the Log sheet reference number referring the sheet in which respective Journey Log details recorded.
- ✤ Log # field is also added in Flight log entry screens to facilitate retrieval of Journey Logs mapped to the Log #
- Note: Data entry in Log # field is optional.

Exhibit 3: Log # field addition in Create Journey Log

Business Process: Flight Operations	User: DMUSER		Organization Unit: /	BC Limited			Role: ABC Role
🝰 Business Process 🔹 🗼 👷 Recent Activities 🔹 🛉 🛧 Favorites 🔹	Welcome to Ramco Aviation Solutions	Release 5.6 - Unit Testing Enviro	nment	Quick Code 🔶 😽	🕈 Screen Test 🔹 🛅	🎕 🎝 🖭 👷	🔘 🗐 🔡 Themes 🔹
Create Journey Log						式 Traibar 🔻	। 🏡 🚔 📮 🥹
			Date & Tim	e Format dd/mm/yyyy	HH	1:MM/HHMM	
Log Details							
Journey Log # 📃 🗸 <u>JL000096</u>	Flight Date 14/08/2013	•	Status Fresh		Rep. Tim	ne Zone UTC 🗸	
Aircraft Reg. #Q VT-ABC Get	Starting Station ATL		Flight Ops. Type Regular	~			
Flight Category	Journey Log Category		Log # 153				
Log Reference Details							
Leg Details Summary Parameter Details							
Leg Details							
	k l		12 📃 💷 💷 💷	🔤 🖪 🏦 🛃 🖶 🧧	di di di di di di di di di di di di di d	×	Q
# 🗉 Line # Dep. STN Arr. STN 🥄	Dep. Date Dep. Time	Take Off Date	Take Off Time	Arr. Date	Arr. Time	Block Hours	
1 🗐 1 ATL BDL	14/08/2013 15:00	14/08/2013	15:00	14/08/2013	18:00		3.0(
2							
	•						F
Other Details							· ·
Flight Log -> Create Journey Log							🕑 59 Minute(s) 2:31 PM

Business Process: Flig	ht Operations	U	ser: DMUSER		Organization Unit: ABC	C Limited			Role: ABC Role	
Business Process 🔻	눭 Recent Activities 🕶	🚖 Favorites 🕶	Welcome to Ramco Avia	ation Solutions Release	5.6 - Unit Testing Environment	Quick Code 🔶 🖌	Screen Test 🔹 🧯	🗅 🎕 🎝 🛤 🔶	0 🗐 🗒	Themes •
Select Journe	y Log							式 Trailbar 🔹	Δ 🖨 🛱	و 🞝
										-
						Date Format dd/m	m/yyyy			
Direct Entry										
		Journey Log # JL000096	Edit Journey Loo	1						
Search Criteria										
		Journey Log #			Jou	urney Log Category 🛛 🗸				
		Aircraft Reg. #				Aircraft Model #	*			
		Starting Station				Flight Date		•		
		Log # 153		Search						
Search Results										▲ =
< 💽 [No records to	o display] 🕨 🔌 🍸	K			1		AI	v		ρ
# 🗏 Journey L	og #	Aircraft Reg. #	Aircraft Model #	Flight Date	Starting Station	Log #		Journey Log Categor	y	
Flight Log -> Edit Journe	y Log							_ →	59 Minute(s)) 2:33 P

Exhibit 4: Log # field addition in Edit Journey Log - Entry screen

Exhibit 5: Log # field addition in Edit Journey Log screen

Rusine	ss Pro	ness: Flid	ht On	erations		liser DMI	SED.		Organization Unit:	ABC Limited			Role: ABC Role
📥 Busir	ness Pr	ocess v		Recent Activities •	+ Favorites •	Welcome	to Ramco Aviation	Solutions Release 5.6 - Unit Tes	sting Environment	Quick Code	🖉 Screen Test 🔹 🎦	🚳 🎞 🖪 🔶	0 2 Themes
E F	dit 1a	urnev l	00		^				-			SR Traibar	
										Date Format dd/m	n/yyyy	HH:MM/HHM	M
Log De	tails												
		Journe	y Log	# JL000096		Fligh	t Date 14/08/2013		Status Fresh		Rep. Tir	me Zone UTC	
		Aircraft	Reg.	# VT-ABC		Starting Sta	tion ^Q ATL		Flight Ops. Type Regular	×			
		Flight C	atego	ry 🗸		Journey Log Ci	ategory 🗸		Log # 153		Fligh	t Status	
Log Re	feren	ce Detai	ls										
Lea)etails	Sumr	narv F	arameter Details									
Leg)etails												
«	•	-1/1		» + - B	4 🗿 🐼 Y Y	k			1 🔁 📴 🚥 💷	I 🔟 🖬 🔒 🗐 🖶 I	All	×	P
#	٦	Line #		Dep. STN	Arr. STN 🭳	Dep. Date	Dep. Time	Take Off Date	Take Off Time	Arr. Date	Arr. Time	Block Hours	
1			1	ATL	BDL	14/08/2013	15:00	14/08/2013	15:00	14/08/2013	18:00		3.00
2													
						•							11
	_		_										
•			_										•
Flight Log	g -> Cr	eate Jour	ney L	og								_	🕑 59 Minute(s) 2:35 PM
Rusinger Decores Elight Operations	Hear DM ICCD		0	nization Units APC Limited			Dolo: ARC	Rolo 🗖					
--	------------------------	--------------------	---------------------------	----------------------------	------------------------	-------------	-------------	---------------					
Business Process: Flight Operations	User: DMUSER	Welsons to Demons	Orga	nization Unit: ABC Limited	Course Test . On St. T	- na 👍 I	Role: ABC F	tole					
ana business Process • 122 Recent Activities •	ravontes *	welcome to Kamco P	Aviation Solutions Releas		Screen rest * 🖬 🗤 🍐	a 123 💢		Themes					
Approve Journey Log						🔅 Traibar 🔻	_ Ω 🖨	17 ()					
								—					
					Date Format dd/mm/yyy	/Y							
Search Criteria													
1	Journey Log # JL000096			Journey Log Category	×								
	Aircraft Reg #			Aircraft Model #	Y								
Si	tarting Station			Flight Date		•							
	L0g # 153	Sear	dh										
Search Results													
< 🛃 -1/1 🕨 💥 🦹				🔁 📴 🚥 💷 💷 🗍	I 🗎 All	~		P					
# 🗏 Journey Log #	Aircraft Reg. #	Aircraft Model #	Flight Date	Starting Station	Log #		Journey	Log Cate					
1 🖾 <u>JL000096</u>	VT-ABC	ERJ 170	14/08/2013	ATL	153								
•								Þ					
							_						
Flight Log -> Approve Journey Log							🕑 59 Minu	.te(s) 2:36					

Exhibit 6: Log # field addition in Approve Journey Log – Entry screen

Exhibit 7: Log # field addition in Amend Journey Log - Entry screen



Busin	iess Pi	rocess: Fligh	: Operations		User: DM	JSER		Organization Unit:	ABC Limited			Role: ABC Role
🖧 Bu	isiness l	Process •	눩 Recent Activities 🕶	🔶 Favorites 🕶			Welcome to Ramco A	viation Solutions Release 5.6	- Quick Code 🔶 😽	🖉 Screen Test 🔹 🛅	🎕 🎝 🛚 🔶	🕕 🗐 🔡 Themes 🕇
•	Amer	nd Journey	Log						<u>«</u>		/1 🐹 Trailbar 🗸	🔝 🖨 🛱 🏹 🧕
												A
								I	Date & Time Format dd/mm,	Гуууу	HH:MM/HHMM	
Log	Detail	s										_
		Journey	.og # JL000096		Flig	nt Date 14/08/2013		Status Approved		Rep. Tin	ne Zone UTC	
		Aircraft R	eg, # VT-ABC		Starting Sta	tion Q ATL		Flight Ops. Type Regular	v	Journey Log Ca	ategory 🔽	
		Flight Cat	egory 🔽		Amend	nent # 0		Log # 153		Flight	t Status On Schedule	
Log	Refere	ence Details										
Leg) Detai	ils Summ	ary Parameter Details									
Leg) Deta	ils										
«		1 -1/1	> > + -	0 4 9 9	A 🕅			1 🔁 📃 🚥 💷 💷	🔤 🖬 🚹 🗐 🗃	All	•	P
#		Line #	Dep. STN	Arr. STN 🔍	Dep. Date	Dep. Time	Take Off Date	Take Off Time	Arr. Date	Arr. Time	Block Hours	
1]	1 ATL	BDL	14/08/2013	15:00	14/08/2013	15:00	14/08/2013	18:00		3.00
2)										
					•							L F
Othe	er Det:	ails										
•	. Deu	ulio					III					Þ
Flight I	Log ->	Amend Journ	ey Log								D .	9 59 Minute(s) 2:46 Pl

Exhibit 8: Log # field addition in Amend Journey Log screen

Exhibit 9: Log # field addition in View Journey Log - Entry screen

Business Process: Flight Operations	User: DMUSER		Organization Unit: AE	.C Limited		Role: ABC Role
🍰 Business Process 🛛 🗋 Recent Activities 🔹 🤺	Favorites	6 - Unit Testing Environment		Quick Code 🔶 🖋 Screen Test 🔹	· 🛍 🎕 🎝 🛤 🙀	🕕 🗐 📰 Themes 🔹
Select Journey Log					鸿 Trailbar 🕶	। 🏡 🚔 🛱 📮 😣
						k
				Date Form	nat dd/mm/yyyy	
Direct Entry						
	Journey Log #			Amendment #		
		View Journey Log				
Search Criteria						
, S	Journey Log # Status V Aircraft Reg. # Log # 153	Search	λί	urney Log Category v Aircraft Model # Flight Date		E
Search Results						
≪ ◀ 1 -1/1 🕨 ≫ 🛛 🙀			1		~	Q
# 🗉 Journey Log #	Amendment #	Status	Aircraft Reg. #	Aircraft Model #	Flight Date	Starting Station
1 🗇 <u>31.000096</u>	0	Approved	VT-ABC	ERJ 170	14/08/2013	ATL
FlightLog -> View JourneyLog					.	 59 Minute(s) 2:47 PM

Exhibit 10: Log # field addition in View Journey Log screen

Business Process: Flight Operations		User: DMU	SER		Organization Unit:	ABC Limited			Role: ABC R	ole 🔽
🏪 Business Process 🛛 🗼 Recent Activities 🕇	🔶 🔶 Favorites 🕇					Quick Code	🛉 🛷 Screen Test 🔹 🛅	🎕 🎝 🛤 👷	0 🤨 🗄	Themes 🔹
View Journey Log							« (1) »	1 /1 🞎 Trailbar 🕇	≙	i 🗸 🖗
										A
						Date Form	nat dd/mm/yyyy	hhmm		
Log Details										
Journey Log # JL000096		Flig	ht Date 14/08/2013		Status Approved		Rep.	Time Zone UTC		
Aircraft Reg. # VT-ABC		Starting	Station ATL		Flight Ops. Type Regular		Executi	ion Ref. #		
Flight Category		Ameno	dment # 🛛 🗸		Journey Log Category		(Log # 153)	
Log Reference Details								\sim		Ξ
A / C Details		Total Times					🖃 Last Journey			
Configuration Class ERJ 170 SERIES		Total Flight Hours 51.30		HR	FH Log Mode Actual F	light Time	Last Journey	/ Log # JL000070		
Manufacturer Serial # MSN1		Total Flying Cydes 19		CYCL			Last Journey Log	Status Approved		
Aircraft Model # ERJ 170										
Leg Details Summary Parameter Details										
Leo Details										
≪ • 1 -1/1 • » ¥ ¥					12 12 - 2	3 💷 💷 🏦 U		•		ρ
# 🗉 Line # Dep. STN	Arr. STN	Dep. Date	Dep. Time	Take Off Date	Take Off Time	Arr. Date	Arr. Time	Block Hours	Fligh	t Hc
1 🗐 1 ATL	BDL	14/08/2013	15:00	14/08/2013	15:00	14/08/2013	18:00	3.00	3.00	
										Ŧ
•				III						•
Flight Log -> View Journey Log									🕑 59 Minut	e(s) 2:48 PM

D. Recording of Oil Uplift Serial-wise

Reference: AHBE-10662

Background

Record Fuel / Oil Uplift Details screen allows the user to record Fuel and Oil Uplift details for an aircraft at a given date and time for each Engine/APU attached to the aircraft against Part #. Now the user can record oil uplift against Serial # and Component # of the engine.

Change Details

In the **Record Fuel / Oil Uplift Details** screen, on click of **Get Details**, only Part # and Position Codes for the given A/C Reg # were retrieved for Engine/APU position type.

Now, on click of **Get Details**, Part #, Position Codes along with Serial # and Component # for the given A/C Reg # are retrieved for Engine/APU position type.

Uplift Date & Time control is now moved above the **Get Details** button and is now a mandatory input to invoke **Get Details**.

On click of **Get Details**, system will retrieve the **Serial # / Component #** for Engines/APU along with the **Part #** at the given **Uplift Date & Time** for the given **A/C Reg #** for the different **Position codes**.

Exhibit - 1:

Record Fuel / Oil Log Details screen changes

hhummuss	
18:00:00	
18:00:00	e
18:00:00	E
	1000
	m
	A 1
*	Q
	×

E. Analyzing Oil Uplift with Reports

Reference: AHBE-10662

Background

Oil Consumption Trend Report and **Oil Uplift Report** provides the user with a clear view of the oil consumption rate of different engines and total oil consumption of all the engines under a part model in a given date range.

Change Details

A new activity, **Print Oil Consumption Analysis Report**, has been added in the **Flight Log** component. The two reports can be launched from the two tabs from this screen.

Oil Consumption Trend Report

The user can give a **Part # / Serial #** combination or a **Component #** of an engine or an **A/C Reg #** as input, specify a date range that is less than 2 years, and click the **Print Oil Consumption Trend Report** link under the **Oil Consumption Trend Analysis** tab.

If the user gives a **Part # / Serial #** as input, a report for that engine in the given date range will be printed. *Help facility is provided*.

If the user gives a **Component #** as input, a report for that engine in the given date range will be printed. *Help facility is provided*.

If the user gives an **A/C Reg #** as input, reports for all engines that were attached to the aircraft in the given date range will be printed. *Help facility is provided*.

If the user selects Daily as **Timeline Label** input, consumption trend report will be displayed on a daily basis (+1 day). This option cannot be selected for a date range greater than 1 month.

If the user selects Weekly as **Timeline Label** input, consumption trend report will be displayed on a weekly basis (+7 days). This option cannot be selected for a date range greater than 6 months.

If the user selects Fortnightly as **Timeline Label** input, consumption trend report will be displayed on a fortnightly basis (+15 days).

Exhibit - 1:

Print Oil Consumption Analysis Report (Tab 1)

□ * Oil Consumption Analysis Report		😂 Traibar 🗸 🏠 📮 🌄 🥹
		Date Format mm/dd/yyyy
Oil Consumption Trend Analysis Oil Uplift Analysis		
Part # / Serial #Q	Component #Q CFM56-2C1:07482-01	Aircraft Reg #9
From / To Date 12/06/2013 3 12/08/2013	Timeline Label Weekly	
	Print Oil Consumption Trend Report	

The printed report has the following features:

- 1. The report will be printed in landscape format in A4 size.
- 2. The report header will have the following information:
 - a. Company Logo
 - b. Report Title
 - c. Company Address and Contact Details
- 3. The table will be printed first followed by the graph.
- 4. The table header will have the following information:
 - a. Part #
 - b. Serial #
 - c. Component #
 - d. Part Model #
 - e. Current Status (Attached or Removed)
 - f. Current A/C Reg # (only shown if current status is 'Attached' else will be blank)
- 5. The table will have the following columns:
 - a. Date
 - b. Log #
 - c. Fuel / Oil Log #
 - d. Total FH
 - e. FH Difference

(Flight Hours difference: Will be blank if the Component is removed and attached to another A/C Reg # or if there is no FH Difference between two adjacent Oil Uplift entries)

- f. Consumption (Oil Uplift entry)
- g. Consumption Rate(Will be blank if FH Difference is blank. Graph will ignore the blank values)

- h. A/C Reg #
- 6. The report footer will have the following information:
 - a. Units
 - b. Generated On (with Date and Time)
 - c. Page Number
- 7. The graph header will have the following information:
 - a. Part #
 - b. Serial #
 - c. Component #
 - d. Max Value

(defined in 'Range To' for the user defined Oil Consumption Rate base parameter (can be configured in Edit Consumption & Range Parameters page for each individual engine))

- 8. The graph will have the following features:
 - a. X-axis is Timeline
 - b. Y-axis is Consumption Rate
 - c. Max value is shown as a dashed line in the graph
 - d. The points plotted in the graph is joined by a line to visualize the oil consumption trend for each engine.
 - e. Period is mentioned below the X-axis
 - f. Page footer will have Units, Generated On details and Page number.

Exhibit - 2:

Sample Oil Consumption Trend Report



Oil Uplift Report

The user can give a **Part Model #**, specify a date range that is less than 2 years, and click the **Print Oil Uplift Report** link under the **Oil Uplift Analysis** tab.

When the user gives **Part Model #** as input, total consumption for all Engines whose **Part #** falls under the given **Part Model #** in the selected time range is printed in the report. *Help facility is provided.*

Exhibit - 3:

Print Oil Consumption Analysis Report (Tab 2)

□ * Oil Consumption Analysis Report	😹 Trabar - 🔝 🚔 🌄 🥥
	Date Format mm/dd/yyyy
Oil Consumption Trend Analysis Oil Uplift Analysis	
Part Model #9	From / To Date 12/29/2013 01/29/2014
	Print Of Uplift Report

The printed report has the following features:

- 1. The report will be printed in landscape format in A4 size.
- 2. The report header will have the following information:
 - a. Company Logo
 - b. Report Title
 - c. Company Address and Contact Details
- 3. The table will be printed first followed by the graph.
- 4. The table header will have the following information:
 - a. Part Model #
 - b. Part Model Description
 - c. Period
- 5. The table will have the following columns:
 - a. Part #

- b. Part Description
- c. Serial #
- d. Component #
- e. Total Oil Consumption
- f. Current A/C Reg # (Will be blank if the Serial is currently not attached to any aircraft)
- 6. The report footer will have the following information:
 - a. Units
 - b. Generated On (with Date and Time)
 - c. Page Number
- 7. The graph header will have the following information:
 - a. Part Model #
- 8. The graph will have the following features:
 - a. X-axis is Serial #
 - b. Y-axis is Consumption.
 - c. Serials are sorted by descending order of their consumption values.
 - d. Consumption values for each Serial # are shown as a data label on top of each bar.
 - e. Period is mentioned below the X-axis.
 - f. Page footer will have Units, Generated On details and Page number.
- 9. If the Part Model # that is supplied does not have any engines under it, the report will launch with an empty table and graph.

Exhibit - 4: Sample Oil Uplift Report

🜏 Hevilift		OIL	HEVILIFT PNG 13-05 The Concourse, 300 Beach Road,Singapore, 199555 Email: info@heviliftgroup.com						
Part Model # CFM56		Part Model Desc. Modular Hig	Period : 01/12/2013	to 30/01/2014					
Part #	Part Description		Part Description Serial # Component #		Part Description Serial # Component #		Total Oil Cons. *	Curr. A/C Reg #	
CFM56-2C1:07482	CFM56 type engine part		CFM56-2C1:07482-01	CFM56-2C1:07482-01	391.00	VT-SR			
CFM56-2C1:07482	CFM56 type engine part		CFM56-2C1:07482-02	CFM56-2C1:07482-02	315.00				
CFM56-2C1:07482	CFM56 type engine part		CFM56-2C1:07482-03	COMP-002812	45.00	VT-RMC			
CFM56-2-7200:35895	CFM56 engine variant designed specifically for test aircraft		V4	COMP-002769	25.00				
CFM56-2C1:07482	CFM56 type engine part		SL-0025	COMP-001990	25.00	VT-ABC-1			
CFM56-2-7200:35895	CFM56 engine variant designed specifically for test aircraft		V3	COMP-001558	20.00				
CFM56-2-7200:35895	CFM56 engine variant designed specifically for test aircraft		V5	COMP-002770	18.00	VT-VAIR			
CFM56-2-7200:35895	CFM56 engine variant designed specifically for test aircraft		V6	COMP-002771	16.00	VT-VAIR			
CFM56-2C1:07482	CFM56 type engine part		SL-0015	COMP-001989	15.50	VT-ABC-1			
CFM56-2-7200:35895	CFM56 engine variant designed specifically for test aircraft		V1	COMP-001556	15.00				
CFM56-2-7200:35895	CFM56 engir aircraft	ne variant designed specifically for test	√7	COMP-002772	14.00	VT-VAIR			
CFM56-2C1:07482	CFM56 type	engine part	DES-01	COMP-002776	0.00				



WHAT'S NEW IN COMPONENT REPLACEMENT?

Changes in Initialize and Update Configuration

Reference: AHBE-12664

Background

- i. **Initialize and Update Configuration** facilitates bulk upload of serials for configuration. On attachment there are possibilities that error occurs in more than one attachment positions. Visibility of error in different positions at a glance was not available.
- ii. Also this interface handles more than 1000 multiline data. This resulted in slow down of Screen Launch, Search and Save.

Change Details

i. New column 'Message Center' is bough in the 'Lower Assembly Details' multiline. This will facilitate visibility of errors in different positions. On save with multiple records if errors are there in more than one position, corresponding error messages will be displayed in 'Message Center' against the position code.



Exhibit 1: Initialize and Update Configuration

ii. Performance tuning is done in screen launch, Search and Save.

- a. Screen launch with more than 2000 data will take less than 35 sec.
- b. Search for 2000 data will take less than 3 sec.
- c. Save with 200 data will take less than 40 sec.

WHAT'S NEW IN SHOP WORK ORDER?

A. Enhancement in Issue Certificates

Reference: AHBD-942

Background

A Manufacturing Work Order is used to manufacture multiple serial numbers, after manufacturing the Certificate stating that all the manufacturing work is done according to standards specified by Regulatory Authority should be issued by the manufacturer for each serial number. The facility to issue multiple Certificates with different serial numbers for a Work Order was not available.

This change will facilitate the generation of multiple Certificates for the Work Orders with multiple core as 'Yes' and having cores associated to it. Multiple Certificates can be generated for Part Id tag, Certificate of Maintenance, Certificate of Conformity and Certificate of Calibration using 'Print Option' drop down box.

Change Details

A new drop-down box named 'Print Option' is added in the **Issue Certificates** screen in **Part Id Tag**, **Certificate of Maintenance**, **Certificate of Conformity** and **Certificate of Calibration** tabs and this option will be enabled only for the Work Orders with 'Multiple Core' as 'Yes'. The 'Print Option' will be loaded with the values "All Items on one Certificate" and "One Certificate per Item". If user selects 'Print Option' as "All Items on one Certificate" only one Certificate will be generated and all the associated serial or Lot numbers will be shown in the same Certificates will be generated with unique serial or Lot numbers (Serial or Lot numbers are available as associated cores for that Work Order).

The Radio buttons named 'Print MRO C of C' and 'Print Part 21 C of C' are added in the **Certificate of Conformity** Tab, the default option will be 'Print MRO C of C. Based on the selected option, the MRO or Part 21 Certificate of Conformity will be generated.

Certificate of Maintenance (8130-3) can be generated for Air carrier, Repair Station and Part 21 manufacturers based on the Certificate type selected.

Exhibit-1: Part Id Tag – Print Option

Lect Action Reference Tag Reference Tag Reference Type Work Order # Reference # CWO-000112-2012 Get Details rt Tag Details Image: Component # Serial # 114774101-50:81205 Serial # 870000 Mfg Lot # Qty 4.00 Mfg. Serial # 870000 Mfg Lot # Qty 4.00 Part Description #12 SLAT Inference Details Component # Multiple Cores? Yes Part Description #12 SLAT Inference Details Comments Image: Comments # Comments Image: Comments # Comments # Comments # Comments Image: Comments # Com	Id Tag Certificate of Maintenan	ce Certificate of Conformity Certificate of Calibrat	ion	
Create Tag Reprint Tag Reprint Tag Reprint Tag Reference Type Work Order # Reference # CWO-000112-2012 C Get Details Part Tag Details Part # / Serial # 114T101-50:81205 Serial # 870000 Mfg. Serial # 870000 Mfg Lot # Qty 4.00 Component # Multiple Cores? Yes Part Description #12 SLAT Reference Details Comments S8/AD Reason for Rejection	elect Action			
Part Tag Details Part Tag Details Part # / Serial # 114T4101-50:81205 Serial # 870000 Mfg. Serial # 870000 Mfg Lot # Qty 4.00 Component # Multiple Cores? Yes Part Description #12 SLAT Reference Details Comments S8/AD Reason for Rejection	Create Tag OReprint Tag	Replace Tag Reference Type Work Order #	Reference # CWO-000112-2012 Q	Get Details
Main Core Details Part # / Serial # 114T4101-50:81205 Serial # 870000 Mfg Lot # Qty 4.00 Mig Log and the series of	art Tag Details			
Part # / Serial # 114T14101-50:81205 Serial # 870000 Mfg. Serial # 870000 Mfg Lot # Qty 4.00 Component # Multiple Cores? Yes Part Description #12 SLAT Reference Details Additional Details S8/AD Reason for Rejection	lain Core Details			
Mg. Serial # 870000 Mg Lot # Qty 4.00 Component # Multiple Cores? Yes Part Description #12 SLAT Reference Details Komments S8/AD Reason for Rejection	Part # / Serial # 114	T4101-50:81205	Serial # 870000	
Component # Multiple Cores? Yes Part Description #12 SLAT difference Details difficienal Details Comments SB/AD Reason for Rejection	Mfg. Serial # 870	000	Mfg Lot #	Qty 4.00
Reference Details Additional Details Comments S8/AD Reason for Rejection				
Additional Details Comments SB/AD Reason for Rejection	Component #		Multiple Cores? Yes	Part Description #12 SLAT
Comments Print Option All Items on one Certific SB/AD Reason for Rejection	Component #		Multiple Cores? Yes	Part Description #12 SLAT
SB/AD Conception Conceptin Conception Conception Conception Conception Conception Concep	Component #		Multiple Cores? Yes	Part Description #12 SLAT
SB/AD C	Component #		Multiple Cores? Yes	Part Description #12 SLAT
Reason for Rejection	Component # difficient Details Comments		Multiple Cores? Yes	Part Description #12 SLAT Print Option All Items on one Certific
*	Component # deference Details dditional Details Comments S8/AD		Multiple Cores? Yes	Part Description #12 SLAT
	Component # deference Details dditional Details Comments SB/AD Reason for Rejection		Multiple Cores? Yes	Part Description #12 SLAT Print Option All Items on one Certific
	Component # deference Details dditional Details Comments SB/AD Reason for Rejection coursent Attachment Details		Multiple Cores? Yes	Part Description #12 SLAT

Exhibit-2: Certificate of Maintenance – Print Option

* Issue Certificates					
Part Id Tag Certificate of Maintenance	Certificate of Conformity C	ertificate of Calibration			
Select Action Create Certificate Create Certificate	Replace Certificate				
	Reference Type Work C	Irder # 💙	Reference # CWO-000112-2012	Get Details	
Issue Details					
Main Core Details					
Part # / Serial # 114T4101-	50:81205	S	erial # 870000		
Mfg. Serial # 870000		Mfg	gLot #	Qty 4.00	
Component #		Multiple	Cores? Yes	Part Description #12	SLAT
Reference Details					
Certificate Details					
Certifying Remarks	ed as per CMM 878-787		*		
Eligibility				Print Option One Certificate	per Iten 🗙

Exhibit-3: Certificate of Conformity – Print Option, Print MRO C of C and Print 21 C of C

TISSUE Certificates			😹 Traibar 🔹
Part Id Tag Certificate of Maintenance Certificate of Confor	mity Certificate of Calibration		
Select Action			
Oreate Certificate OReprint Certificate OReplace Certificate	te		
Reference Ty	vpe Work Order # Y Reference # CWO-000112-2012	Get Details	
🖂 Issue Details			
Certificate #	Printed?	Certificate Status	
Numbering Type COM	# of Copies	Replaced Cert #	
Main Core Details			
Part # / Serial # 114T4101-50:81205	Serial # 870000		
Mfg. Serial # 870000	Mfg Lot #	Qty 4.00	
Component #	Multiple Cores? Y	Part Description #12 SLAT	
Reference Details			
Certificate Details			
2. IS 1. 2	*	Print MRO C of C	OPrint Part 21 C of C
Certifying Remarks	*		
Print Option All Items on one Certif	ic ¥		
Document Attachment Details			

Exhibit-4: Certificate of Calibration – Print Option

Issue Certificates		
Part Id Tag Certificate of Maintenance Certificate of	Conformity Certificate of Calibration	
Select Action Create Certificate Reprint Certificate Replac Ref	e Certificate ference Type Work Order # Y Reference # CWC	-000112-2012 Q Get Details
+ Issue Details		
Main Core Details		
Part # / Serial # 114T4101-50:81205	Serial # 870000	
Mfg. Serial # 870000	Mfg Lot #	Qty 4.00
Component #	Multiple Cores? Yes	Part Description #12
Reference Details		
Calibration Information		
Environmental Conditions		
Shop Findings		
Conditions Found	÷	Corrective Action
Additional Comments	× ×	Print Option All Items on one Certific

B. Facility to issue modified lot # during Main Core Material Request

Reference: AHBE-5880

Background

Currently, if the work order is created with details of specific Lot # of a part and the part is available only in a modified Lot # while requesting the material request, the required part will not be issued for a work. The situation can arise due to reasons like stock transfer, etc., after the creation of work order before a material request is raised.

The system will now be able to issue the part with the modified Lot #, provided that the Manufacturer Lot # of the part in both the lots is same.

Change Details

The change is effected when the Request Main Core or Generate Material Request Button is clicked in the **Record Shop Execution Details** screen. When the material is requested for a part whose Lot # is modified, the system will issue the part if the Manufacturer Lot # and the Quantity are same for both the original and modified lot #. If the quantity is available in multiple lot #, the part will not be issued.

For Example, if quantity of a part requested is 10,

The part will be issued in the following case:

Part #	Mfg Lot #	Lot #	Quantity
P1	M1	L1	0
Part #	Mfg Lot #	Modified Lot #	Quantity
P1	M1	L2	10

The part will not be issued in the following case:

Part #	Mfg Lot #	Lot #	Quantity
P2	M1	L1	6
Part #	Mfg Lot #	Modified Lot #	Quantity
P2	M1	L2	2

(OR)

Part #	Mfg Lot #	Lot #	Quantity
P3	M1	L1	0
Part #	Mfg Lot #	Modified Lot #	Quantity
P3	M1	L2	5
Part #	Mfg Lot #	Modified Lot #	Quantity
P3	M1	L3	5

C. Ability to display the Shelf Life Expiry Date

Reference: AUCH-1244

Background

8130-3 is a certificate of maintenance report that is generated by the user for regulatory purposes. It serves as an approval for return to service after maintenance or alteration by an authorized repair station or Air Carrier having an approved Continuous Airworthiness Maintenance Program. It is hence an Airworthiness Approval Form which identifies all the details of the article for its conformity.

8130-3 report generated from Ramco's M&E application has been enhanced to facilitate the user to print the shelf life expiry date of the part in the report.

Change Details

If the shelf life expiry date of the part is available, it will be displayed in block 13 of the report below the certifying remarks, mentioned in issue certificate of maintenance screen. If the shelf life expiry date is not available, even the Shelf Life Exp Date label will not be visible in the report.

Role: ABC Role Business Process: Component Maintenance User: DMUSER Organization Unit: ABC Limited 🍰 Business Process 🛛 🇋 Recent Activities 🔹 🍦 Favorites 🔹 'elcome to Ramco Aviation Solutions Release 5.6 - System Testing Environment 🛛 Quick Code 🚽 🖌 Screen Test 🗸 🏄 🤷 🤯 🎝 🖭 👷 🕕 🕘 🗐 📰 Themes 🗸 Issue Certificates 式 Trailbar 🔹 🏠 🚔 😺 🗄 Issue Details 🗄 Main Core Details E Reference Details Work Order # SWO-000099-2013 Order Description Corrosion Event # SWO-000092-2013 Customer # Customer Order # Customer PO # Final Disposition Repair Ref Doc #/Rev # Rev Date 0 v Work Status Overhau V Inspect Repair V Overhaul Modify Shelf Life Exp Date 26-Dec-2013 - Certificate Details Shelf Life Exp. Date available CERTIFIED here will be printed Certifying Remarks Eligibility Select Report Type (< 1 - 5/18)</p>
 + Y X
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 ()
 () /10 🕨 🐘 🕂 🏹 🍇 📆 🖸 🖬 💷 💷 🗉 📮 🗐 🗛 v # Certificate Type Read? Certifying Authority Read 1 21-CFR Part 11 ASA E E E FAA Authorized Release Certificate 2 2 Aveos ٧ Air Carrier 8130-3 Barabey 3 3 B CAAC AAC-038 CAAC E 4 4 Ē Certificate of Conformance Director General of Civil Aviation 5 5 Shop Work Order -> Issue Certificate of Maintenance 37 Minute(s) 8:11 PM

Exhibit 1:

			FAA Form 8130-3, AIF	WORTHINESS APPRO	VAL TAG		с	OM-000241-2013
4. Organization Air Evac EMS 5678945678	Name and Address: NRC., FAA CRS# QEVR436k 05436485438583595685458	(, 720 Bratton Av 89468978967895	e., West Plains, MO 65775 579 Comments				5. Work Or Number: SW	der / Contract / Invoice VO-000099-2013
6. Item:	7. Descri	ption:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch N	lumber:	12. Status/Work:
1	0-1" OUTSIDE MICROMT	R	103-259	N/A	1.	259-SL-	01	Overhauled
complete description r European shipmen rvice under EASA Pa	of work performed and parts in is: Certifies that the work spect rt 145. Approval Number EAS	nstalled is on file cified in block 12/ SA 145.5508.	at the above referenced organi 13 was carried out in accordan	ization under the work of the with EASA Part 145,	der and system and in respect to	tracking reference r that work the comp	number indi ponent is co	cated in blocks 3 and 5. Insidered ready for release to
14. Certifies the ite	ms identified above were man	ufactured in conf	formity to:	19. 🗶 14 CFF	43.9 Return to	Service 🗆	Other n	egulation specified in Block 1
Approved	design data and are in a cond oved design data specified in f	lition for safe ope Block 13.	ration.	Certifies that unl and described in Regulations, par	ess otherwise sp Block 13 was a t 43 and in respe	ecified in Block 13, complished in according to the to that work, the	the work id ordance with items are a	lentified in Block 12 h Title 14, Code of Federal pproved for return to service.
	nature:	16. Approval/Aut	thorization No.:	20. Authorized S	ignature:	2	21. Approval	l/Certificate No.:
15. Authorized Sig								
complete description r European shipmen rvice under EASA Pa 14. Certifies the ite Approved Non-appr	of work performed and parts is "Certifies that the work speet rt 146. Approval Number EAS ms identified above were man design data and are in a cond oved design data specified in I nature:	nstalled is on file infect in block 12/ SA 145.5508. Infactured in conf lition for safe ope Block 13. 16. Approval/Auf	at the above referenced organ 13 was carried out in accordan formity to: rration.	ization under the work o ce with EASA Part 145, 19. 2014 CFF Certifies that uni and described in Regulations, par 20. Authorized S	der and system and in respect to t 43.0 Return to t ess otherwise sp Block 13 was at t 43 and in respe ionature:	tracking reference r that work the comp Service ecified in Block 13, complished in according to the the term of the the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of t	Other n Other n the work id ordance with items are a	cated in bloo onsidered re- egulation sp lentified in B h Title 14, C upproved for

Exhibit 2: 8130-3 Report with Shelf Life Exp. Date printed.

Exhibit 3: 8130-3 Report without Shelf Life Exp. Date.

 Approving I Authority/Co FAA/United 	Vational Aviation Juntry: States	2.	AUTHORIZED R FAA Form 8130-3, AIR	ELEASE CERTI WORTHINESS APPRO	FICATE VAL TAG		3. Form	n Tracking Number: COM-000240-2013
4. Organizatio Air Evac EN 5678945675	n Name and Address: IS INC., FAA CRS# QEVR43 89054364854385835956854!	6K, 720 Bratton Av 586946897896789	we., West Plains, MO 65775 9579 Comments				5. Work C Number S	Order / Contract / Invoice r: WO-000099-2013
6. Item:	7. Des	pription:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch	Number:	12. Status/Work:
1	0-1" OUTSIDE MICRON	ITR	103-259	N/A	1.	259-SL	-01	Overhauled
TSO: N/A TT: I	N/A							
TSO: N/A TT: I CERTIFIED A complete description For European shipme service under EASA F	N/A 1 of work performed and parts 1 wit: Certifies that the work sp art 145. Approval Number E	installed is on file eoffed in block 12 ASA 145.5508.	e at the above referenced organi 2/13 was carried out in accordan	zation under the work on se with EASA Part 145, a	der and system and in respect to	tracking reference that work the con	number inc	dicated in blocks 3 and 5, considered ready for release to
TSO: N/A TT: I CERTIFIED A complete description For European shipme service under EASA F 14. Certifies the it	N/A i of work performed and parts its: Certifies that the work sp art 145. Approval Number E ems identified above were m	installed is on file coffed in block 12 4SA 145.5506. anufactured in con	e at the above referenced organi 2/13 was carried out in accordan nformity to:	zation under the work or se with EASA Part 145, a 19. ⊠ 14 CFR Certifies that unle	der and system and in respect to 43.9 Return to 3	tracking reference that work the con Service E	number ind nponent is c	dicated in blocks 3 and 5. Sinsidered ready for release to regulation specified in Block 12 identified in Block 12
A complete description For European shipme service under EASA P 14. Certifies the II Approve	N/A i of work performed and parti- tis: Certifies that the work sp art 145. Approval Number E ems identified above were m 3 design data and are in a co roved design data specified i	installed is on file eoffed in block 12 ASA 145 5506. anufactured in con Idition for safe op 1 Block 13.	e at the above referenced organi 2/13 was carried out in accordan nformity to: veration.	zation under the work on se with EASA Part 145, a 10. 20 14 CFR Certifies that unik and described in Regulations, part	der and system and in respect to 43.9 Return to 1 ess otherwise sp Block 13 was av 43 and in respe	tracking reference that work the con Service eotified in Block 12 complished in ac cot to that work, th	number in nponent is o Other 3, the work cordance w e items are	dicated in blocks 3 and 5. considered ready for release to regulation specified in Block 12 identified in Block 12 identified in Block 12 approved for return to service.
A complete description For European shipmen service under EASA P 14. Certifies the II A porove Non-app 15. Authorized Si	N/A nof work performed and parts rts: Certifies that the work sp art 145. Approval Number E ems identified above were m d design data and are in a co roved design data specified is anature:	i installed is on file eofied in block 12 ASA 145.5500. anufactured in con ndition for safe op Helock 13. 18. Approval/Au	e at the above referenced organi 2/13 was carried out in accordan nformity to: eration. uthorization No.:	zation under the work on se with EASA Part 145, s 19. 2014 CFR Certifies that unit and described in Regulations, part 20. Authorized Si	der and system and in respect to 43.9 Return to ess otherwise sp Elock 13 was as 43 and in respe gnature:	tracking reference that work the con Service complished in ac complished in ac lot to that work, th	number ins ponent is o 3, the work i cordance w e items are 21. Approv	dicated in blocks 3 and 5. considered ready for release to regulation specified in Block 12 identified in Block 12. th Title 14. Code of Federal approved for return to service. allCertificate No.:

D. Facility to modify Part # for lot & none controlled parts

Reference: AHBE-11615

Background

In Shop work order, user can create and plan work order for tasks to be executed on the parts. Now, the user will be able to modify the part # of lot / none controlled part through the shop work order by providing the New Part #.

Change Details

A new control, New Part #, has been added in the order execution details tab of **Plan Work Order** screen. This control will be visible to the user only if the Job Type of the shop work order is selected as "Piece Part".

Search Criteria Search On Part # /Serial # By Status By Event Contract Terms & Conditions Removal & Warranty Details Reference Details Conditions Removal & Warranty Details Reference Deta	• Plan Work Order							🐹 Traibar 🔹	와 🖨 🕼	
Search On Part # JSenil # Search On Part # JSenil # Order Details Order Execution Details Part Disposition & Movement Details Contract Terms & Conditions Removal & Warranty Details Order Category Order Priority User Status V Plan End Date / Time Plan End Date / Time Order Category New Mfr. Part # Q New Mfr. Part # Q New Mfr. Part # Q New Mfr. Part # and Mfr. # will be displayed if the parameter Enable Manufacturer control in Transactore is est as No'	🗆 Search Criteria									
By Status By Event	Search On Part # / Serial # V			Get						
Image: Data Order Details Order Execution Details Part Disposition & Movement Details Contract Terms & Conditions Removal & Warranty Details Image: Data Order Catagory Image: Data Order Catagory Image: Data Imag	By Status By Event									
Image: Details Order Category Order Category Order Category Order Category Order Category Plan Start Date / Time Image: Data	E No Sample Data	Order Details	Order Execution Details	Part Disposition & Movement Details	Reference Details	Contract Terms & Conditions	Removal & Warranty Details			-
Order Category Cold Regory Cold Regory Cold Regory Cold Regory Cold Regory Cold Regory Plan End Date / Time Plan End Date / Time		Execution D	etails							
Coff Regd? No Plan Start Date / Time Plan End Date / Time / Time Plan End Date / Time Plan En			Order Category	×	Order Priority	~	User Status	~		
Order Class Internal Image: Comparison of the comparison of			CoM Regd? No	Y Plan	n Start Date / Time	-	Plan End Date / Time		-	
Accounting Details Expense Type Revenue CAPEX #Q Part # Modification Details New Part #Q Well be indden based on New Mfr. #Q New Mfr. #A New Mfr. #A New Mfr. #Will be displayed if the parameter 'Enable Menufacturer control in Transactions' is set as "No"			Order Class Internal	×						
Expense Type Revenue CAPEX # CAPEX # Part # Modification Details New Part # Q New Mir. Part # Q New Mir. Part # Q New Mir. # Q New Mir. # Q New Mir. # Q New Mir. # Q New Mir. # A New Mir. # New Mir. # A New Mir			Details							
Image: No Sample Data Part # Modification Details New Part #Q New Part #Q New With, Part #Q Mandacturer Part # Set Quice New With, Part #Q New Part # will be displayed if the parameter 'Enable Manufacturer control in Transactions' is set as "No". New With, Part # and Mhr. # will be displayed if the parameter 'Enable Manufacturer control in Transactions' is set as "No". New With, Part # and Mhr. # will be displayed if the parameter 'Enable Manufacturer control in Transactions' is set as "No".			Expense Type Revenue	~	CAPEX #Q					
No Sample Data New Part # Q New Mfr. Part # Q New Mfr. # Q New Mfr. Part # Q New Mfr. # Q New Nart # will be displayed if the parameter "Enable Manufacturer control in Transactions' is set as "No". New Mfr. # will be displayed if the parameter "Enable Manufacturer control in Transactions' is set as "No". New Mfr. Part # and Mfr. # will be displayed if the parameter "Enable Manufacturer control in Transactions' is set as "No". E		😑 Part # Mod	fication Details							
New Mfr. Part #Q New Mfr. #Q New Mfr. Part #Q New Mfr. #Q New New Mfr. #Q New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New New Mfr. #Q New Mfr. #Group Additionation New New Mfr. #Q New Mfr. Part # and Mfr. # Will be displayed if the parameter 'Enable Manufacturer Control in Transactions' is set as "No" El	The County Date		New Part #Q	-						
New Part # will be displayed if the parameter 'Enable Manufacturer control in Transactions' is set as "No". New Mit. Part # and Mit. # will be displayed if the parameter 'Enable Manufacturer control in Transactions' is set as "No"	- No Sample Data	8	New Mfr. Part #Q	Will be hidden based on Manufacturer Part # Set Option	New Mfr. #Q					
control in Transactions' is set as "No". New Mfr. Part # and Mfr. # will be displayed if the parameter 'Enable Manufacturer control in Transactions' is set as "No"			N	ew Part # will be displayed if the parame	ter 'Enable Manufact,	urer				
New M5. Part # and M7r. # will be displayed if the parameter 'Enable Menufacturer control in Transactions' is set as "No"			co	ntrol in Transactions' is set as "No".						
Manufacturer control in Transactions is set as "No"			N	ew Mfr. Part # and Mfr. # will be display	yed if the parameter 'E	inable				
			M	anufacturer control in Transactions' is set	as "No"					
		1.1								

To modify the part # in a shop work order with multiple cores, the New Part # column has been provided in the **Update / Split / Main** core page. The column will be visible only when the 'Associate Multiple Cores' radio button is selected.

	Jpda	te / Split Mai	n Cores									💐 Traibar 🕶	🖨 🛱 💭
SWO	Detai	ls											
			SWO #			Or	der Description				Qty.		
			Customer #			Cus	tomer Order #			Cust. Re	quested Date		
			Prom. Del. Date			Proj. C	ompletion Date				Target Date		
Upda	te Op	tion											
					Associate Multiple Cores		🔘 Spl	it Work Order					
Asso	iateo	d Main Cores											
«	•	1 - 10 / 10) » + = 6 4						1		l in the second s	~	Q
	10	Part # 🭳	Mfr. Part # 🥄	Mfr. # 9,	Serial # 🭳	Lot # 🭳	Mfg. Lot #	Mfg. Serial #	On WO Qty.	New Part # Q	New Mfr. Part # 🥄	Mfr. # 9	Disposit
1	B									New Part # will be disp	layed if the parameter 'Enable I	Manufacturer control	in .
2	Ð									Transactions' is set as "	No".	Table Mar	
3	Ð									in Transactions' is set as	r, e will be displayed it the par : "No"	ameter Endole Man	Jacturer control
4	10												
5	10												
6	10												
1	10												
8	1												
9	10												
10	1.1												
		•	m										1.1
							Lindate Multiple Corr	Details					
							III	- octano					
1999													and the state of the

Workflow:

- The New Part # control will be visible in the **Order Details** tab and the **Associate Main Cores** multiline only when the Job type of the work order is "Piece Part".
- The user can provide part # in the New Part # control and save it against the work order.
- The New Part # can be provided only for Lot / None controlled parts and not for serial controlled parts, provided the work order is in "Draft", "Fresh", "Planned" or "Inprogress" status.
- The part # on which the work order was created, will be modified as the New Part # on completion of the work order.
- On modification of Part #, new Lot # will be generated for Lot controlled parts.
- The work order, against which part # is modified, cannot be reopened.
- The user can view the updated part # details in the Modified Part # / Modified Lot # fields in Order Execution Details tab of Review Work Execution screen, for work order without multiple cores. In case of multiple cores, the same can be viewed in the Additional Main Cores Details multiline.

							as mailoar.*	202 1991
						Date format	dd/mmm/yyyy	
Order 🔺	Order Details	Order Execution Details	Part Disposition & Movement Details	Reference Details	Contract Terms & Conditions	Removal & Warranty Details		
NO 000000 2014-0/10 400 00-D								
WVO-000220-201410L-100-00Rep	Order Details							
		SWO # SWO SWO-0 Job Type Piece Part	00220-2014 Prima	Order Description Rep ry Work Center # YU	oair -100-00	Status Event #	Completed SWO-000220-2014	
	Main Core Deta	ils						
		Part # 2800-P2 Qty. 1.00000000		Serial # Component #		Lot # Multiple Cores	LOT000311-2013 No	_
	м	ain Core Status Issued		Stock Status Ow	ned	Part Description	PDC - PART ACCOUNT GROU	JP .
		Modified Part # jinx		Modified Serial #		Modified lot #	LOT001403-2014	
	WorkScoping De	etails						
	Worl	kscoping Status Initial Comments		Revision #		Action on Revision		
	0							
				·····				1
	× (
	Get Details							
III. Þ	Get Details	Display Child Orders				Get Details		
m •	Get Details	Display Child Orders				Get Details		

E. Facility to Provide Work Center / Repair Agency During Disassemble

Reference: AHBE-10104

Background

Ramco's Aviation Solution supports auto generation of work order or repair order during part disassemble, as part of shop work order execution. Shop work order / repair order is generated based on Execution Facility (in-house/outsource) identified for the part (**Maintain Maintenance Info** page).

When a piece part is removed in the **Assemble and Disassemble Core** tab, a shop work order will be generated (even if both in-house and outsource information is available in the part maintenance information) based on the disposition code selected during part removal.

Current enhancement facilitates the user to provide work center / repair agency during disassemble based on which shop work order or repair order will be generated.

Change Details

- 1. The work center column and repair agency column has been modified in the **Assemble and Disassemble Core** tab of **Record Shop Execution Details** page.
- a) The 'Work Center' column has been changed to a drop down list. The user can create a work order by selecting any work center which has the station same as the primary work center of work order.
- b) The 'Repair Agency' column has been provided with help for the user to create a repair order by selecting a repair agency that is approved for the part.
- c) When the user provides both the information, system will mandate the user to provide only one among work center or repair order.

Business Process: Component Maintenance	User	MUSER	Organization U	Init: ABC Limited		R	oles ABC P	Role
📩 Business Process + 🛛 🔬 Recent Activities + 🍡	Favorites +			Guick Code 🔺 🛷 Screen Test	a 🐚 🚳 🍒 🖽	2 0	4 0	I Themes -
* Record Shop Execution Details					28	iralbar •		
Image: CWO-000121-2011 Image: CWO-000122-2011 Image: CWO-000122-2012 Image: CWO-000122-2012	Search Part Details	n - 5 4 0 6 7 7	k 👩 (3 an an an cu	di (a) (a) (As	×	Q		·
*	# D Off Part Desc.	Work Center #	Repair Agency # Q	Kitting Status	Progress Notes			
	1 D RESERVOIR	RAIN VALVE						
	- 2 0							
Links Eccord Missing Ports List Escord Part Devision List Escord Parts Actual Roots Fastors Actual Roots Parts Eccord Parts Ec	×	User can select o center / repair age work order / repai	ne among work ancy to create r order					重
Lift Work Estmates Han Work Order Gemanals Sub-Work Order Mennee Work Assortments and Reporting Edit Work Order Add, Info. Udwal Documents Yeek Associated Doc, Attachments	Reed. Date Update/Remove Print Det Tag Helb on Kon-Comp. Removed Sen View File	2014/30/01 15-59-53	Location emoved Part <u>Attach/Renter</u> X Staled Senal # Create New Part E	Routi Reprint R Inquiret	ng Details Suting Sile • Part Request Status			

 The user can also generate a single work order / repair order for multiple piece part removals by providing the same group ID in the multiline of Assemble and Disassemble Core tab.

Business Process: Component Maintenance	User: DMUSER		Organization Unit: ABC Limited	Role: ABC Role
📸 Business Process • 🛛 👷 Recent Activities • 🛛 🌟	Favorites -		Welcomi 🛛 Guick Code 🚽 🛷 Screen Test 🗸 🎸	🛃 🎦 🎨 🎝 🖭 🌪 🕕 🗐 🗐 📿 Themes+
Record Shop Execution Details				😂 Traibar - 🛛 🏠 🚔 💭 😣
	Restoration Task # NST-000011-2014	Disassembly 🔘 Assembly 🛞 Disass	Reason v.	
	Search Part Details			
g CWO-000200-2012	(((1 -5/5)) + - (9 4 9 9 7 % 1		× 0
	# 🗈 Std. Exch.?	Removal Qty.	Group ID Generated SWO # /RO #	Gen. Order Status
	1 🔍 🗸 No	1	3	
1	2 V No	1		
	3 D V NO	1		
	S D Y NO	1	Enter same group ID to create :	a
	6 🛛 🗸		cingle work order / repair order	for
Einis Ensort Marcin Particulat Bascort Part Incommon Bascort Part Incommon Monoe Part Monoe Particulat Monoe Particulat Sorte Part Sor	<u>د</u>		multiple piece parts	
Edit Work Estimates Plan Work Order Generate Sub-Work Order Manage Work Assignments and Reporting	Regd. Date 30/01/2014 18: Update/ Remove Print Part Tag Help on Non-Comp. Removed Serial # View File	Attach Removed Part	Location Routing D Attach/Replace Re print Routing D Create New Part Request Induire Part	etals ng Slp rt Request Status -
Shop Work Order -> Record Shop Execution Details				59 Minute(s) 6:05 PM 6:05 PM

3. The new process parameter "Allow order generation during removal on Work Center / Repair Agency different from part maintenance info definition?" has been added under the entity "All Work Order" under the entity type "Shop Work Order Type". The user will be restricted from entering a Work Center / Repair Agency, different from that identified in the **Maintain Maintenance Info** screen for the part if the value is set as "Not Allowed".

Call Control C	Rucin	Increase: Maintenance Setun	Iser DM ISER	Organization Unit: ABC Limited		Role: ABC Role
a user services in the end racking in the rest in a number of a						
Set Process Parameters Image: Tabler Image: Tabler <th< th=""><th>in Bu</th><th>isiness Process * 🛛 🧟 Recent Activities * 🍸 Favorites * 🛛 to Ramco /</th><th>Aviation Solutions Release 5.6 - Unit Testing Environment</th><th>Quick Code 🚽 🛷 Screen Tes</th><th>at• 🔏 📔 🎕 🎝 🕮 🎽 </th><th>U 🖳 🔍 🔆 Themes</th></th<>	in Bu	isiness Process * 🛛 🧟 Recent Activities * 🍸 Favorites * 🛛 to Ramco /	Aviation Solutions Release 5.6 - Unit Testing Environment	Quick Code 🚽 🛷 Screen Tes	at• 🔏 📔 🎕 🎝 🕮 🎽	U 🖳 🔍 🔆 Themes
Entity Details Entity Autoconder Entity Autoconder Entity Autoconder Image: Status Active Conder Entity Autoconder Image: Status Active Conder Image: Status Active	•	Set Process Parameters			式 Traiba	9 🔻 🟡 🖨 🕼 🖉 🧕
Entity Type Shop Work Order Type Record Status Active	Entit	ty Details				
Record Status Active Process Parameter Ust		Entity Type Shop Work On	der Type 🗸	EntityAll Work	Order 🗸	
Process Parameter List I - 11/11 () () () () () () # Access Parameter Permitted Values Parameter Permitted Values Parameter Permitted Values		Record Status Active		Process Parameters Defined? Yes		
Image: State of the state	Proc	ess Parameter List				
Process Parameter Permitted Values Value Status From Nessage 1 Default Context Date? Enter '0' for Ylot Required', '1' for Nesqueed', '1' for N		₹ 1 -11/11 >> + ¥ ¥				0
Pricks / addieut Yadie Salue Salu			Remained Velues	Notes	Chatura	Corre Manager
1 Default Context User/ Enter 0' for Vick Required ', 1' for Vequired 1 Defined 1 2 Planning horizon (Daysh) Enter 90 horizon (Daysh) Enter 10' for Vick Required ', 1' for Required' 0 Defined 1 3 Employee Time Sheet Update Mode Enter 10' for Vick Required ', 1' for Required' 0 Defined 1 4 Authorization of authorized the sheets Enter 10' for Vick "1' for Nequired' 1 Defined 1 5 Alow Modintation of authorized the sheets Enter 10' for Vick "1' for Yee" 1 Defined 1 6 Enable check for parts pending for return on Order completion? Enter 10' for Yick "1' for Yee" 1 Defined 1 7 Print TSO and Ti In COM Enter 10' for Yok "1' for Yee" 1 Defined 1 8 Alow Insue of Serviceable parts having Over-Ove / Retirement Tasks ? Enter 10' for Yok "1' for Yee" 0 Defined 10 Print Employee Name in FAA 8130-3 Report Enter 10' for Yok "1' for Yee" 0 Defined 1 12 Print Employee Name in FAA 8130-3 Report Enter 10' for Yok "1' for Yee" 0 Defined 1		Process Parameter	Permited values	value	Status	Entor message
2 Paring fortor (Days)? Enter 3 Positive Integer 60 Defined 3 Employee Time Sheet Update Mode Enter 10 for Volum, 12	1	Default Context Date?	Enter "0" for 'Not Required', "1" for 'Required'	1	Defined	
3 Entry of the Mead	2	Planning Horizon (Days)?	Enter a Positive Integer	60	Defined	
4 Authorization of Timelate Records Enter '0' for Nik Required', '1' for Required' 0 Defined 5 Alow Modification of ultimetation is whether is Enter '0' for Nik', '1' for Yes', 1 Defined 6 Enable check for parts pending for return on Order completion? Enter '0' for Nik', '1' for Yes', 1 Defined 7 Print TSO and T' In COM Enter '0' for Nik', '1' for Yes', 1 Defined Ender 8 Alow Modified parts bening Over-Oue / Retirement Tasks ? Enter '0' for Nik', '1' for 'Nowed' 0 Defined Ender 9 Alow and regression during removal on Work Center / Repair Agency different Enter '0' for Nik', '1' for 'Nowed' 0 Defined Ender 10 Print European Standard Text in FAA 8130-3 Report Enter '0' for Nik', '1' for Yes' 0 Defined Ender 12 Print European Standard Text in FAA 8130-3 Report Enter '0' for Nik', '1' for Yes' 0 Defined Ender	3	Employee Time Sheet Update Mode	Enter "0" for 'Clock' , "1" for 'Manual' , "2" for 'Clock & Manua	r 2	Defined	
5 Alow Modification of authorized time sheets Enter 1° for 1% ', 1' for Yes' 1 Defined 6 Enable check for parts pending for return on Order completion? Enter 1° for 1% ', 1' for Yes'. 1 Defined 7 Print TSoud Tin COM Enter 1° for 1% ', 1' for Yes'. 1 Defined 8 Allow roder generation during removal on Work Center / Repar Agency different Enter 1° for 1% Allowed" 0 Defined 9 Allow order generation during removal on Work Center / Repar Agency different Enter 1° for 1% Allowed" 0 Defined 10 Print Endoyee Name in FAA 8130-3 Report Enter 1° for 1% Allowed" and 1' for Yallowed" 0 Defined 11 Print European Standard Text in FAA 8130-3 Report Enter 1° for 1% Allowed "and 1' for Yallowed" 0 Defined 12 Image: Standard Text in FAA 8130-3 Report Enter 1° for 1% 1, 1' for Yes' 0 Defined 12 Image: Standard Text in FAA 8130-3 Report Enter 10' for 1% 1, 1' for Yes' 0 Defined 12 Image: Standard Text in FAA 8130-3 Report Enter 10' for 1% 1' for Yes' Image: Standard Text in FAA 8130-3 Re	4	Authorization of Timesheet Records	Enter "0" for 'Not Required', "1" for 'Required'	0	Defined	
6 Bable check for parts pending for return on Order completion? Enter "0" for No", "1" for Yes", 1 Defined 7 Print ISO and TI n COM Enter "0" for No", "1" for Yes", 1 Defined 8 Alow size of Serviceable parts having Over-Due / Reterement Tasks ? Enter "0" for No", "1" for Yes", 0 Defined 9 Alow order generation during removal on Work Center / Repar Agency different Enter "0" for No", "1" for Yes", 0 Defined 10 Print Employee Name in FAA 8130-3 Report Enter "0" for No", "1" for Yes", 0 Defined 11 Print Employee Name in FAA 8130-3 Report Enter "0" for No", "1" for Yes", 0 Defined	5	Allow Modification of authorized time sheets	Enter "0" for 'No' , "1" for 'Yes'	1	Defined	
7 Print TSO and TT in COM Enter 1° for No; 1° for Yes'. 1 Defined Image: Serviceable parts having Over-Over Allowed of 1° for Yot Allowed', 1° for Yot Allo	6	Enable check for parts pending for return on Order completion?	Enter "0" for 'No' , "1" for 'Yes'.	1	Defined	
8 Allow Issue of Serviceable parts having Over-Oue / Retirement Tasks ? Enter "0" for "Not Allowed", "1" for 'Allowed" 0 Defined 9 Allow and/e generation during removal on Work Center / Repair Agency different Enter "0" for "Not Allowed" 0 Defined 10 Print Employee Name in FAA 8130-3 Report Enter "0" for "Not,"1" for Yes" 0 Defined 12 Enter "0" for Not,"1" for Yes" 0 Defined 12 Enter "0" for Not,"1" for Yes" 0 Defined 12 Enter "0" for Not,"1" for Yes" 0 Defined 12 Enter "0" for Not,"1" for Yes" 0 Defined 12 Enter "0" for Not,"1" for Yes" 0 Defined 12 Enter "0" for Not,"1" for Yes" 0 Defined	7	Print TSO and TT in COM	Enter "0" for 'No', "1" for 'Yes'.	1	Defined	
9 Allow order generation during removal on Work Center / Repar Agency different Enter '0' for 'Not Allowed' and '1' for 'Allowed' 0 Defined 10 Print Europeen Name in FAA 8130-3 Report Enter '0' for 'Not /1' for 'Yes' 0 Defined 11 Print Europeen Standard Text in FAA 8130-3 Report Enter '0' for 'Not /1' for 'Yes' 0 Defined 12 Enter '0' for 'Not /1' for Yes' 0 Defined	8	Allow Issue of Serviceable parts having Over-Due / Retirement Tasks ?	Enter "0" for "Not Allowed", "1" for "Allowed"	0	Defined	
10 Print Employee Name in FAA 8130-3 Report Enter '0' for 'No', '1' for Yes' 0 Defined 11 Print European Standard Text in FAA 8130-3 Report Enter '0' for 'No', '1' for Yes' 0 Defined 1 12 Image: Standard Text in FAA 8130-3 Report Enter '0' for 'No', '1' for Yes' 0 Defined 1	9	Allow order generation during removal on Work Center / Repair Agency dif	fferent Enter "0" for "Not Allowed" and "1" for "Allowed"	0	Defined	
11 Print European Standard Text in FAA 8130-3 Report Enter '0' for No', '1' for Yes' 0 Defined	10	Print Employee Name in FAA 8130-3 Report	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
12	11	Print European Standard Text in FAA 8130-3 Report	Enter "0" for 'No', "1" for 'Yes'	0	Defined	
annen Nation - Dafra Broast Entitier	12					
annun Martar - S Tañna Brogar Entitian						
annun Martar - S Tañna Brogar Entitian						
Annua Matar - S Dafra Broart Entitur						
nomeno Martar - Nafina Donare Folibian						
ommon Nactar -> Define Drorage Entities						
V 30 MINUTERS () 6:13	Commo	on Master -> Define Process Entities				56 Minute(s) 6:13 P

F. Ability to default Certificate of Conformance during Main Core return

Reference: AHBE-12550

Background

During part manufacturing, a Certificate of Conformity is granted to the part that meets a minimum set of regulatory, technical and safety requirements. With the current enhancement, the Certificate of Conformance will be defaulted during main core return for work orders with Job Type as "Make".

Change Details

If the Job Type of the work order is "Make", the latest certificate of conformance details will be displayed in the **Return Main Core** tab of the **Return Parts** screen.

	Display Op SW/ Task # / Descrip Search Display Op	All Pending Parts O # fition fon Top Assly. Work O	rders All Work Or	rders		Part # / Serial # Req. Part # / Description Customer # / Cust. Order # Work Center #	×	
solidated Part Return Details n Core Details	Return Main Core	Return Removed Cores	Return Unconsumed	Parts				e
(No records to display)	• • • • • • • • •] 🗟 🗟 🛛 🥳	_		9600		~	Q
El Return	Stage /	Main Core Condition	c	Certificate Type	Certificate #	Certificate Date	Expiry Date	Stock Status
					236			
			_					
			_				_	

For a work order of Job Type "Make", the latest certificate of conformance details will be displayed on following conditions:

- If multiple Certificates of Conformance are available in 'Approved' status.
- If both Certificate of Conformance and Certificate of Maintenance are available in 'Confirmed' status.
- If only the Certificate of Conformance is available in "Confirmed" status.

If none of the above conditions are satisfied, the latest Certificate of Maintenance details will be displayed if available.

WHAT'S NEW IN COMPLIANCE MANAGEMENT?

A. Ability to update all the Program information through "Initialize Maintenance Program and Update Compliance" interface

Reference: AHBE-6689

Background

Currently in Ramco Aviation solution, user can initialize the program tasks through **Initialize Maintenance Program and Update Compliance** interface.

Modification of task attributes like the 'Schedule Type', 'Update Basis' and other program details requires program revision.

This feature synchronizes **Initialize Maintenance Program and Update Compliance** interface with the Maintenance Program.

Change Details

In Update Basis cluster, the display option has been categorized as below:

- Compact View
- Detailed View

Compact View provides the visibility of Primary information of Program tasks for the user and allows performing some basic transactions such as Task addition, Schedule addition, Schedule modification and Schedule Deletion. In Compact View, if user updates the task information, the system automatically updates the information to respective Maintenance Program.

Detailed view provides the detailed information of Program tasks as viewable in Maintenance Program. User can provide all the program details for a task through the **Initialize Maintenance Program and Update Compliance** screen, without affecting the current revision of respective Maintenance program. On-Wing tasks can be added to Aircraft Specific Maintenance Programs from **Initialize Maintenance Program and Update Compliance** screen.

When Initialize Maintenance Program & Update Compliance screen is launched from Tech Record Work Space then,

- Search option will not be visible. User can add or modify the task details only for the Maintenance object selected in Work Space.
- If Maintenance Object is "Aircraft", user will not be able to view the Part # and Serial # columns in the task detail grid. User can modify the attached component program by selecting the component in Tech Record Work Space tree.
- If the Maintenance Object is "Component", then user can add / modify the task information only for the selected component and its assemblies.

Exhibit 1:

	Newly added Radio		Date & Time Format yyyy-dd-mm
	Buttons		
Update Option Update Schedule 🗸	Compact View	🔘 Detailed View	Ref. Doc. #

Exhibit 2:

Following are the controls added in the Initialize Maintenance Program and Update Compliance screen.

Control Name	Data Type	Control Type
Positive Tolerance	Char	Edit
Negative Tolerance	Char	Edit
Alert Date	Date-time	Display only
Alert Value	Char	Edit
Terminating Date	Date-time	Edit
Terminating Value	Char	Edit
Update Basis	Char	Drop Down
Schedule Type	Char	Drop Down
Eng. Doc #	Char	Edit Help
Eng. Doc Rev #	Char	Edit
Position Code	Char	Edit Help
MPD Group	Char	Drop Down
Default Exe. Priority	Char	Drop Down
Execution Type	Char	Drop Down
Level Code	Char	Edit Help
Sch Exec Rule	Char	Drop Down
Deferment Policy	Char	Drop Down
Expense Type	Char	Drop Down
Work Centre	Char	Edit Help

B. Facility to Upload Discrepancies

Reference: AHBE-13258

Background

In cases where Aircraft Maintenance is outsourced, discrepancies that were identified and closed externally needs to be tracked against Execution reference document to have track of history as well as serve reliability analysis.

Maintain Discrepancy Information screen is enhanced to facilitate the above requirement. Here discrepancies can be uploaded in closed status or open status against an Aircraft Maintenance Execution Document reference.

Change Details

On launch of the **Maintain Discrepancy Information** screen, radio button Create / Update Discrepancy (Exhibit 1) and Upload Discrepancy (Exhibit 2) will be available for user to select the screen mode.

- A. Create / Update Discrepancy Existing functionality of **Maintain Discrepancy Information** is retained.
- B. Upload Discrepancy
 - a. Facilitates bulk upload of discrepancies.
 - b. Discrepancies can be uploaded in Open / Closed status for Open Aircraft Execution documents.
 - c. Discrepancies can be uploaded in Closed status for Closed Aircraft Execution Documents.
- Note: Discrepancies can be created for Discrepancy type Non Routine or MIREP
- Corrective Actions needs to be entered for discrepancies in closed status.
- Sign-off information needs to be entered based on the Package type of the Aircraft Execution Document #.

Exhibit 1: Create / Update Discrepancy

📑 Ma	intain Discrepancy Informa	tion						😹 Trailbar 🗸	≙ 🗠	🗟 🏹	0
Create Primary	/ Update Discrepancy 📀 Upload Di y Search Criteria 🗍 Additional S	screpancy Search Criteria									^
	Display Option C Record Status Log Item #	pen Discrepancies v	Discrepa Deferral	Maint. Object	* * *		Di	screpancy Type v ATA # Discrepancy #			
				S	earch						H
Discrepa	incy Details										
« •	[No records to display]	▶ ≫ + - ₽ 4] 🗟 🐼 🍸 🐝			12 🔝 🚥 🔤	s 🚥 💷 🔒 🗐 🖷 🛛	All		P	
# 🖾	Aircraft Reg # Q.	Component # Q	Part # Q	Serial # Q	Discrepancy Type		Discrepancy #	Discrepancy Description Q			
1 🗉	9				MIREP	*					
											•

Exhibit 2: Upload Discrepancy

	laintain Discrepancy Inforn	nation					💐 Trailbar 🔹 🏠 🕼	3
reat	e / Update Discrepancy 🔘 Upload	Discrepancy						
oad	l Discrepancy Details							E
•] 1 -1/1 🕨 🔊 +	- 0 4 9 4 7 %			12 🖂 🖬		~	P
	Execution Ref # Q	Aircraft Reg #	Log Item #	Discrepancy Type	Discrepancy No	Discrepancy Description Q	ATA # Q	
	8			Non-Routine	*			
	E			Non-Routine	*			



Corporate Office and R&D Center

Ramco Systems Limited, 64, Sardar Patel Road, Taramani, Chennai – 600 113, India Office + 91 44 2235 4510 / 3090 4000 Fax +91 44 2235 2884 Website - www.ramco.com