



# Ramco Aviation Solution

## Version 5.7

### Enhancement Notification

Materials

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## TABLE OF CONTENTS

<b>WHAT'S NEW IN PART ADMINISTRATION?.....</b>	<b>9</b>
ABILITY TO SPECIFY PART TYPE AND CONTROL TYPE WHILE MANUALLY REQUESTING FOR NEW PARTS .....	9
<i>Background</i> .....	9
<i>Change Details</i> .....	9
ABILITY TO RESTRICT DELETION OF ALTERNATE PART DEFINITION WHEN PRIME PART IS MODIFIED .....	11
<i>Background</i> .....	11
<i>Change Details</i> .....	11
<b>WHAT'S NEW IN STORAGE ADMINISTRATION? .....</b>	<b>13</b>
ABILITY TO REPLENISH TRADING PARTNER STOCK BASED ON MIN-MAX / RE-ORDER LEVEL.....	13
<i>Background</i> .....	13
<i>Change Details</i> .....	13
<b>WHAT'S NEW IN SUPPLIER?.....</b>	<b>15</b>
ABILITY TO DEFINE EDI CAPABILITIES AND STOCK VALUATION FOR A SUPPLIER .....	15
<i>Background</i> .....	15
<i>Change Details</i> .....	15
ABILITY TO ATTACH LOGO FOR A SUPPLIER .....	17
<i>Background</i> .....	17
<i>Change Details</i> .....	17
<b>WHAT'S NEW IN PURCHASE REQUEST?.....</b>	<b>19</b>
RENAMING OF THE CAPTION "REQUESTING UNIT" AS "EXPENSE TO" .....	19
<i>Background</i> .....	19
<i>Change Details</i> .....	19
<b>WHAT'S NEW IN PURCHASE ORDER? .....</b>	<b>21</b>
ABILITY TO SEARCH PO BASED ON THE WAREHOUSE # SPECIFIED IN THE PO IN VIEW PO SCREEN .....	21
<i>Background</i> .....	21
<i>Change Details</i> .....	21
ABILITY TO SHORT CLOSE PURCHASE ORDERS THAT ARE UNDER AMENDMENT OR RETURNED AFTER AMENDMENT .....	23
<i>Background</i> .....	23
<i>Change Details</i> .....	23
ABILITY TO CHECK THE PART EFFECTIVELY FOR THE ORDERED PART AND THE SPECIFIC ALTERNATE PART PROVIDED IN PURCHASE ORDER / GOODS INWARD .....	25
<i>Background</i> .....	25
<i>Change Details</i> .....	25
ABILITY TO IDENTIFY FREIGHT CHARGE AS PAYABLE DURING PROCUREMENT .....	27
<i>Background</i> .....	27
<i>Change Details</i> .....	27
ABILITY TO AMEND THE PO TYPE, EXPENSE TYPE, RECEIPT RECORDING OPTION, PURCHASE FOR FINANCE BOOK & COMPONENT #.....	29
<i>Background</i> .....	29
<i>Change Details</i> .....	29
ENHANCEMENT IN EXCHANGE / PBH EXCHANGE PO: A) FACILITY TO EXCHANGE MULTIPLE PARTS IN ONE PO, B) FACILITY TO RECONCILE PENDING ISSUE OR RECEIPT QUANTITIES AND CLOSE THE PO.....	31
<i>Background</i> .....	31
<i>Change Details</i> .....	31
FACILITY TO ORDER CAPITAL PARTS IN A CONSIGNMENT PURCHASE ORDER .....	34
<i>Background</i> .....	34
<i>Change Details</i> .....	34
FACILITY TO PROCESS MULTIPLE ISSUES AGAINST AN EXCHANGE / PBH EXCHANGE PO .....	36
<i>Background</i> .....	36
<i>Change Details</i> .....	36

FACILITY TO PROCESS MULTIPLE RECEIPTS AGAINST AN EXCHANGE / PBH EXCHANGE PO .....	36
<i>Background</i> .....	36
<i>Change Details</i> .....	36
FACILITY TO VALUE THE PARTS RECEIVED AGAINST AN EXCHANGE PURCHASE ORDER BASED UPON THE ASSESSED COST .....	37
<i>Background</i> .....	37
<i>Change Details</i> .....	37
<i>Other Changes</i> .....	38
FACILITY TO MANAGE POSTINGS FOR CAPITALIZATION OF ASSETS PROCURED THROUGH CAPITAL CONSIGNMENT PO ....	38
<i>Background</i> .....	38
<i>Change Details</i> .....	38
FACILITY TO MODIFY PART EXPENSE TYPE OF A PART AVAILABLE IN AN OPEN CONSIGNMENT PO .....	39
<i>Background</i> .....	39
<i>Change Details</i> .....	39
ENHANCEMENT OF EXCHANGE PROCUREMENT WITH MULTIPLE OPTIONS .....	40
<i>Background</i> .....	40
<i>Change Details</i> .....	40
<i>New Master Data Additions</i> .....	40
<i>Exchange Purchase Order Accounting</i> .....	41
<i>Pre-requisite:</i> .....	45
<i>Limitations / Assumptions:</i> .....	45
ENHANCEMENT OF CONSIGNMENT PROCUREMENT OF CAPITAL PARTS .....	45
<i>Background:</i> .....	45
<i>Change Details:</i> .....	45
<i>Consignment PO Accounting has been enhanced with following –</i> .....	45
<i>Company Parameter Setup:</i> .....	45
<i>Accounting Flow:</i> .....	46
<b>WHAT'S NEW IN REPAIR ORDER? .....</b>	<b>47</b>
<i>Background</i> .....	47
<i>Change Details</i> .....	47
ABILITY TO SEARCH REPAIR ORDERS USING REF. DOCUMENT TYPE AND REF. DOCUMENT DOC # .....	50
<i>Background</i> .....	50
<i>Change Details</i> .....	50
ABILITY TO DISPLAY THE REPAIR AGENCY NAME & PART DESCRIPTION IN AUTHORIZE REPAIR ORDER SCREEN .....	52
<i>Background</i> .....	52
<i>Change Details</i> .....	52
ABILITY TO DISPLAY EXCHANGE COST, BER COST AND SALVAGE COST IN RO REPORT .....	53
<i>Background</i> .....	53
<i>Change Details</i> .....	53
<b>WHAT'S NEW IN LOAN ORDER?.....</b>	<b>55</b>
ABILITY TO VIEW THE INVOICES RAISED AGAINST LOAN ORDER.....	55
<i>Background</i> .....	55
<i>Change Details</i> .....	55
ABILITY TO DISPLAY THE SUPPLIER NAME IN AUTHORIZE LOAN ORDER SCREEN .....	56
<i>Background</i> .....	56
<i>Change Details</i> .....	56
<b>WHAT'S NEW IN MATERIAL INQUIRY? .....</b>	<b>57</b>
ABILITY TO DISPLAY ALL PENDING RETURNS ARISING OUT OF AIRCRAFT AND COMPONENT MAINTENANCE .....	57
<i>Background</i> .....	57
<i>Change Details</i> .....	57
<b>WHAT'S NEW IN MATERIAL REQUEST.....</b>	<b>59</b>
ABILITY TO REQUEST PARTS FOR MAINTENANCE OF A FACILITY OBJECT .....	59
<i>Background</i> .....	59
<i>Change Details</i> .....	59

ABILITY TO PLAN MATERIAL FOR MR RAISED IN OFFLINE SYSTEM IN MAIN BASE (ONLINE SYSTEM) .....	61
<i>Background</i> .....	61
<i>Change Details</i> .....	61
FACILITY TO ALLOW ONLY REPLENISHMENT MR TO BE CREATED MANUALLY .....	65
<i>Background</i> .....	65
<i>Change Details</i> .....	65
<b>WHAT'S NEW IN GOODS INWARD? .....</b>	<b>67</b>
FACILITY TO GENERATE BAR CODE LABEL REPORT FOR THE PARTS RECEIVED .....	67
<i>Background</i> .....	67
<i>Change Details</i> .....	67
INTUITIVE STATUSES .....	69
<i>Background</i> .....	69
<i>Change Details</i> .....	69
ABILITY TO AUTOMATICALLY NAVIGATE THE USER TO RESPECTIVE TAB BASED ON THE NEXT ACTION .....	71
<i>Background</i> .....	71
<i>Change Details</i> .....	71
ABILITY TO UPDATE INSPECTION INFORMATION ALONG WITH CONFIRMATION OF RECEIPT .....	74
<i>Background</i> .....	74
<i>Change Details</i> .....	74
ABILITY TO CREATE AND PROCESS REPAIR RECEIPT .....	76
<i>Background</i> .....	76
<i>Change Details</i> .....	76
ABILITY TO RECEIVE A MODIFIED PART THAT IS NOT DEFINED AS THE ALTERNATE FOR ISSUED PART DURING REPAIR RECEIPT .....	84
<i>Background</i> .....	84
<i>Change Details</i> .....	84
ABILITY FOR THE INSPECTOR TO MODIFY THE MANUFACTURER SERIAL #/LOT # DURING INSPECTION .....	86
<i>Background</i> .....	86
<i>Change Details</i> .....	86
<b>WHAT'S NEW IN LOAN / RENTAL RECEIPT? .....</b>	<b>88</b>
ABILITY TO ENFORCE PACKING SLIP & WAY BILL BASED ON SET OPTION IN LOAN / RENTAL RECEIPT .....	88
<i>Background</i> .....	88
<i>Change Details</i> .....	88
<b>WHAT'S NEW IN STOCK TRANSFER RECEIPT? .....</b>	<b>89</b>
ABILITY TO PRINT BAR CODE LABEL REPORT FOR THE PARTS RECEIVED .....	89
<i>Background</i> .....	89
<i>Change Details</i> .....	89
<b>WHAT'S NEW IN STOCK RETURN .....</b>	<b>90</b>
<i>Background</i> .....	90
<i>Change Details</i> .....	90
ABILITY TO CHANGE PART OWNERSHIP DURING UNPLANNED RETURN .....	92
<i>Background</i> .....	92
<i>Change Details</i> .....	92
ABILITY TO PRINT BAR CODE LABEL REPORT FOR THE PARTS RETURNED .....	93
<i>Background</i> .....	93
<i>Change Details</i> .....	93
ABILITY TO RETURN A SERVICEABLE PART WITHOUT CERTIFICATE INFORMATION .....	95
<i>Background</i> .....	95
<i>Change Details</i> .....	95
<b>WHAT'S NEW IN STOCK ISSUE .....</b>	<b>97</b>
LINK TO RECORD SHIPPING NOTE SCREEN FROM CONFIRM ISSUE SCREEN .....	97
<i>Background</i> .....	97
<i>Change Details</i> .....	97

ABILITY TO RESTRICT CONFIRMATION OF ISSUE WHEN A COMPONENT OR ITS CHILD IS DUE FOR MAINTENANCE OR RETIREMENT TASK COMPLIANCE IS RECORDED FOR ANY CHILD COMPONENTS .....	98
<i>Background</i> .....	98
<i>Change Details</i> .....	98
<b>WHAT'S NEW IN RECEIPT PEGGING? .....</b>	<b>100</b>
ABILITY TO HARD PEG PARTS DURING RECEIPT TO THE ORIGINATING MR .....	100
<i>Background</i> .....	100
<i>Change Details</i> .....	100
<b>WHAT'S NEW IN MMD PRINTING? .....</b>	<b>102</b>
ABILITY TO AUTOMATICALLY PRINT MMD REPORT FOR MAIN CORE ISSUE.....	102
<i>Background</i> .....	102
<i>Change Details</i> .....	102
<b>WHAT'S NEW IN MMD REPORT?.....</b>	<b>103</b>
ABILITY TO DISPLAY EVENT #, CUSTOMER / SUPPLIER NAME.....	103
<i>Background</i> .....	103
<i>Change Details</i> .....	103
<b>WHAT'S NEW IN SHIPPING NOTE? .....</b>	<b>104</b>
ABILITY TO ENFORCE RMA # IN SHIPPING NOTE .....	104
<i>Background</i> .....	104
<i>Change Details</i> .....	104
<b>WHAT'S NEW IN SHIPPING NOTE REPORT?.....</b>	<b>106</b>
ABILITY TO DISPLAY PART LEVEL REMARKS AND PACKAGE DETAILS .....	106
<i>Background</i> .....	106
<i>Change Details</i> .....	106
<b>WHAT'S NEW IN STOCK TRANSFER .....</b>	<b>108</b>
<i>Background</i> .....	108
<i>Change Details</i> .....	108
<b>WHAT'S NEW IN STOCK TRANSFER? .....</b>	<b>111</b>
ABILITY TO CONSIDER UNSERVICEABLE QUANTITIES DURING INTER WAREHOUSE STOCK TRANSFER .....	111
<i>Background</i> .....	111
<i>Change Details</i> .....	111
<b>WHAT'S NEW IN STOCK CORRECTION? .....</b>	<b>112</b>
FACILITY TO SPECIFY REASON FOR CORRECTION IN STOCK CORRECTION DOCUMENT .....	112
<i>Background</i> .....	112
<i>Change Details</i> .....	112
<b>WHAT'S NEW IN STOCK MAINTENANCE? .....</b>	<b>115</b>
ABILITY TO RETRIEVE ALL PART – SERIAL / LOT INFORMATION IN A GIVEN WAREHOUSE .....	115
<i>Background</i> .....	115
<i>Change Details</i> .....	115
ABILITY TO INCLUDE CONSUMPTION OF PBH STOCK IN VIEW PART SUPPLY CHAIN PERFORMANCE SCREEN .....	117
<i>Background</i> .....	117
<i>Change Details</i> .....	117
ABILITY TO VIEW PART NAME PLATE FOR A SPECIFIC PART # - SERIAL # / LOT # .....	118
<i>Background</i> .....	118
<i>Change Details</i> .....	118
ABILITY TO DISPLAY PURCHASE AND REPAIR TAT AT THE PART – SUPPLIER LEVEL .....	120
<i>Background</i> .....	120
<i>Change Details</i> .....	120

<b>WHAT'S NEW IN STOCK MANAGEMENT?.....</b>	<b>122</b>
ABILITY TO QUEUE COMPONENTS RECEIVED FOR TECH RECORDS VERIFICATION .....	122
<i>Background</i> .....	122
<i>Change Details</i> .....	122
<b>WHAT'S NEW IN PHYSICAL INVENTORY AND CYCLE COUNT? .....</b>	<b>124</b>
ABILITY TO CONFIRM PHYSICAL INVENTORY COUNT RESULTS AT THE PI DOCUMENT LEVEL.....	124
<i>Background</i> .....	124
<i>Change Details</i> .....	124
ABILITY TO REVIEW SERIAL / LOT DETAILS FOR ALL PARTS IN PHYSICAL INVENTORY .....	126
<i>Background</i> .....	126
<i>Change Details</i> .....	126
ABILITY TO RECORD CYCLE COUNT & RECOUNT RESULTS AT SERIAL / LOT LEVEL IN A SINGLE SCREEN .....	127
<i>Background</i> .....	127
<i>Change Details</i> .....	127
<b>WHAT'S NEW IN PACK SLIP? .....</b>	<b>132</b>
ABILITY TO ENFORCE REFERENCE DOCUMENT # FOR PACK SLIP .....	132
<i>Background</i> .....	132
<i>Change Details</i> .....	132
<b>WHAT'S NEW IN WORKSPACES ? .....</b>	<b>133</b>
DASHBOARD FOR MANAGING INVENTORY OPERATIONS .....	133
<i>Background</i> .....	133
<i>Change Details</i> .....	133
ISSUE & RETURN (AIRCRAFT VIEW) .....	139
<i>Background</i> .....	139
<i>Change Details</i> .....	139
INVENTORY MANAGEMENT & ALERTS TAB .....	144
<i>Background</i> .....	144
<i>Change Details</i> .....	144
DASHBOARD FOR MANAGING INVENTORY OPERATIONS .....	148
<i>Background</i> .....	148
<i>Change Details</i> .....	148
INVENTORY OPERATIONS WORKSPACE .....	150
EXTERNAL RECEIVING SUMMARY .....	154
<i>Background (External Receiving Summary)</i> .....	154
<i>Change Details (External Receiving Summary)</i> .....	154
ISSUE & RETURN SUMMARY.....	162
<i>Background (Issue &amp; Return Summary)</i> .....	162
<i>Change Details (Issue &amp; Return Summary)</i> .....	162
TRANSFER SUMMARY .....	170
<i>Background</i> .....	170
<i>Change Details</i> .....	170
INVENTORY MANAGEMENT & ALERTS TAB .....	177
<i>Background</i> .....	177
<i>Change Details</i> .....	177
DASHBOARD FOR MANAGING INVENTORY OPERATIONS .....	181
<i>Background</i> .....	181
<i>Change Details</i> .....	181
EXTERNAL RECEIVING SUMMARY .....	186
<i>Background (External Receiving Summary)</i> .....	186
<i>Change Details (External Receiving Summary)</i> .....	186
ISSUE & RETURN SUMMARY.....	194
<i>Background (Issue &amp; Return Summary)</i> .....	194
<i>Change Details (Issue &amp; Return Summary)</i> .....	194
TRANSFER SUMMARY .....	203
<i>Background</i> .....	203

<i>Change Details</i> .....	203
INVENTORY MANAGEMENT & ALERTS TAB .....	210
<i>Background</i> .....	210
<i>Change Details</i> .....	210
DASHBOARD FOR MANAGING INVENTORY OPERATIONS .....	214
<i>Background</i> .....	214
<i>Change Details</i> .....	214
EXTERNAL RECEIVING SUMMARY .....	219
<i>Background (External Receiving Summary)</i> .....	219
<i>Change Details (External Receiving Summary)</i> .....	219
ISSUE & RETURN SUMMARY .....	227
<i>Background (Issue &amp; Return Summary)</i> .....	227
<i>Change Details (Issue &amp; Return Summary)</i> .....	227
TRANSFER SUMMARY .....	235
<i>Background</i> .....	235
<i>Change Details</i> .....	235
INVENTORY MANAGEMENT & ALERTS TAB .....	243
<i>Background</i> .....	243
<i>Change Details</i> .....	243
ABILITY TO LAUNCH RECEIPT DOCUMENTS IN EDIT/VIEW MODE .....	247
<i>Background</i> .....	247
<i>Change Details</i> .....	247
LINK TO SHORT CLOSE MR SCREEN .....	248
<i>Background</i> .....	248
<i>Change Details</i> .....	248
ABILITY TO REFRESH INVENTORY MANAGEMENT & ALERT TAB .....	249
<i>Background</i> .....	249
<i>Change Details</i> .....	249
ALERT ON SELECTION OF MY AREA .....	250
<i>Background</i> .....	250
<i>Change Details</i> .....	250
ABILITY TO DISPLAY REPLENISHMENT & PLANNING INFORMATION .....	252
<i>Background</i> .....	252
<i>Change Details</i> .....	252
<b>WHAT'S NEW IN ADVANCED REPORTING &amp; INTELLIGENCE (ARI)? .....</b>	<b>254</b>
ABILITY TO INQUIRE STOCK BASED ON PART, STORAGE AND STOCK ATTRIBUTES .....	254
<i>Background</i> .....	254
<i>Change Details</i> .....	254
<b>WHAT'S NEW IN FACILITY MANAGEMENT? .....</b>	<b>256</b>
ABILITY TO RESTRICT INDUCTION OF NON-SERIALIZED PART AS FACILITY OBJECT .....	256
<i>Background</i> .....	256
<i>Change Details</i> .....	256
<b>WHAT'S NEW IN KIT MANAGEMENT? .....</b>	<b>257</b>
ABILITY TO DEFAULT SHORTAGE PART - QUANTITIES TO CREATE REPLENISHMENT MR.....	257
<i>Background</i> .....	257
<i>Change Details</i> .....	257

## WHAT'S NEW IN PART ADMINISTRATION?

### Ability to specify part type and control type while manually requesting for new parts

*Reference: AHBE-11377*

#### Background

Airline Industry is categorized by voluminous inventory, especially in terms of parts. The need of parts varies regularly over the course of time especially when an operator buys new fleet or through regular maintenance activities as suggested by Service Bulletins /Airworthiness Directives. Thus it is very important to keep track of all the parts and regularly record in the system which come across through RSPL provided by aircraft manufacturers or while carrying out maintenance activities in accordance with maintenance manuals provided by OEM's etc.

Ramco application caters to the need of recording New Part through various transactions. Current limitation while requesting New Parts is that while creating a New Part Request user does not have provision to specify Part Type and Part Control Type. This raises usability issues among the users. Business need is to provide an ability to the user to specify Part Type and Part Control Type while manually requesting for new parts in the New Part Request document.

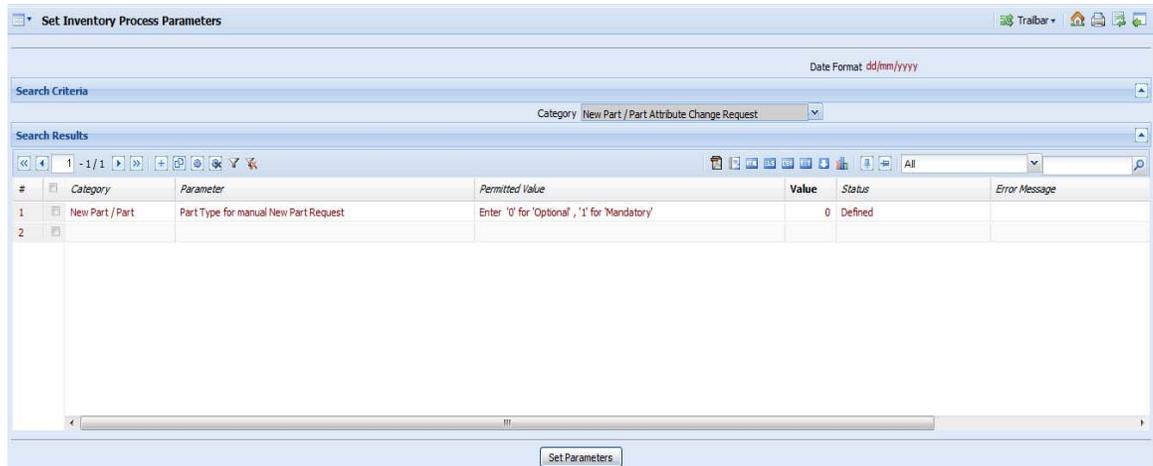
#### Change Details

A new set option, 'Part Type for manual New Part Request' is added in the **Set Inventory Process Parameters** screen in **Logistics Common Master** business component under a new category 'New Part / Part Attribute Change Request'. The option can take on of the following values; Mandatory (1) or Optional (0).

If the option is not defined i.e., blank, or if it is set as 'Optional', then, system will not enforce the user to select Part Type while raising New Part Request. If the option is set as 'Mandatory', then, system will enforce the user to select Part Type in the New Part Request document. However selection of Part Control Type is always optional and if the Part Type is chosen as 'Component' system will automatically set the Control Type as "Serial".

Secondly, while processing a new part request, using **Process New Part / Part Attribute Change Request** screen, the Part Type combo in **Create Part Administration** screen will get defaulted with the value specified in New Part Request document. Similarly in Serial/Lot Details section checkboxes will be checked as Serial, Lot or both depending upon the value specified in New Part Request document. If the Part Control Type is selected as None Controlled in New Part Request Document then the Serial and Lot Controlled checkboxes will not be checked on launch of screen. However, parts catalogue administrator can change the values defaulted for the part, and create the part with appropriate part type and control type as required.

**Exhibit 1: Identifies the new set option in the Set Inventory Process Parameter screen**



## Ability to restrict deletion of alternate part definition when prime part is modified

*Reference: AHBE-12942*

### Background

When the prime part for a part is modified, mostly because of incorrect definition, system automatically deletes alternate part definition between the part and the previous prime part. However, business need from certain Operators is that, alternate part definition should not be automatically deleted on modification of prime part; it will be reviewed by Engineering and updated as required.

With the introduction of this feature system will not automatically delete alternate part definition between the part and its previous prime part whenever prime part is modified. This behavior can be configured through a new set option as required for different business operations.

### Change Details

A new option, 'On modification of Prime Part, delete alternate part definition between the Part and its previous Prime Part' is added under the category 'Part Administration' in **Set Inventory Process Parameters** screen in **Logistics Common Master** Business component. This option can be set as "Yes" or "No".

If the option is not defined i.e., blank, or if it is set as "Yes", then, alternate part definition between the old prime part and the Part # will get removed, when the prime part is modified. If the option is set as "No", then, alternate part definition between the part and its previous prime part will be retained. In this case, Operator/MRO need to review alternate part definition and correct if required.

**Exhibit-I:** Identifies the new set option in the **Set Inventory Process Parameter** screen

The screenshot displays the 'Set Inventory Process Parameters' screen. At the top, it shows 'Business Process: Procurement Management', 'User: DMUSER', 'Organization Unit: Demo OU', and 'Role: Demo Role'. Below this is a navigation bar with 'Business Process', 'Recent Activities', and 'Favorites'. The main title is 'Set Inventory Process Parameters'. A search criteria section shows 'Category: Part Administration'. The search results are displayed in a table with the following data:

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Part Administration	Alternate part definition among the alternate parts of a prime part	Enter '0' for 'Manual', '1' for 'Automatic'	1	Defined	
2	Part Administration	Alternate part definition between Part and its Prime Part	Enter '0' for 'Manual', '1' for 'Automatic'	0	Defined	
3	Part Administration	Copy Prime Part # during Copy Part	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
4	Part Administration	Default On Warranty check box in Part Planning Information	Enter '0' for 'Unchecked', '1'	0	Defined	
5	Part Administration	Deletion of two way alternate part definition upon deletion of one way	Enter '0' for 'Manual', '1' for 'Automatic'	1	Defined	
6	Part Administration	On modification of Prime Part, delete alternate part definition between the Part and its previous Prime Part	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
7	Part Administration	Update part as 'On Warranty' on creation through Quick Parts	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
8						

A red box highlights the row with #6. At the bottom of the screen, there is a 'Set Parameters' button.

## WHAT'S NEW IN STORAGE ADMINISTRATION?

### Ability to replenish Trading Partner Stock based on Min-Max / Re-order Level

*Reference: AHBE-11161*

#### Background

Managing inventory is one of the key business activities in an airline industry. It is very important to have right amount of inventory at the right time, to attain business wide operational efficiency, thus improving maintenance and planning efficiency, which in turn reduces inventory and operations cost.

Currently, Ramco Application solution facilitates automatic replenishment of stock to keep the inventory at safety levels so that ordering costs can be significantly reduced by avoiding stock-out situations. Replenishment is automatically triggered in a Warehouse for a Part whenever the stock falls below the Re-Order level or Min-Max quantity defined for a Part in the given Warehouse and the stock considered is void of the Trading Partner stock (i.e.) only Internal owned stocks are considered for triggering replenishment.

However, with varying depth in airline operations, such as intercompany operations, inventory consists of a mix of internally owned as well as trading partner stock. Thus, the business need is to consider trading partner stock, especially supplier stock to carry out replenishment activities. With the introduction of this feature, triggering of Replenishment action will be based on the sum of the Internal and Supplier owned stock available in the inventory.

#### Change Details

In order to include the Supplier Owned stock for triggering replenishment action, which could happen during definition of Warehouse planning Parameters or confirmation of Stock Issue, a new option setting 'Include Supplier Stock other than 'PBH' during Replenishment?' is added in the Set Inventory Process Parameters activity in Logistics Common Master Business component under the category 'Replenishment'.

The option can be set as '0' (No) or '1' (Yes).

If the option setting is set as '1 (Yes)', then replenishment action will be triggered in the given Warehouse, for the given Part when the sum of the Supplier Owned Stock and Internal Owned Stock falls below the requirements defined in Warehouse Planning Parameter activity for the given Warehouse – Part combination. The quantity available in the Open Purchase Orders or Release Slips will be considered along with the available quantity in the warehouse, if the option setting 'Unallocated PO/Release Slip Quantity' is set as 'Consider for Stock Replenishment' in the **Set Options** activity of the **Stock Maintenance** business component.

If the option setting is set as '0 (No)', then the replenishment action will be triggered considering only the Internal Owned stock and the value defined for the option setting 'Unallocated PO/Release Slip Quantity' (i.e.) the existing behavior would be continued. In addition to the above changes, validation is added in the Set Warehouse Planning Parameter activity to ensure that the Replenishment Action is selected only as 'Purchase Request' when the definition is made for a Warehouse exclusively meant to store the Group Company stock.

**Exhibit 1: Identifies the option setting added in the Set Inventory Process Parameters screen**

The screenshot shows the 'Set Inventory Process Parameters' interface. At the top, the title bar reads 'Set Inventory Process Parameters'. Below the title bar, there is a search criteria section with a 'Date Format' dropdown set to 'dd-mm-yyyy'. The search criteria section includes a 'Category' dropdown menu currently set to 'Replenishment'. Below the search criteria, there is a 'Search Results' section. The search results are displayed in a table with the following columns: '#', 'Category', 'Parameter', 'Permitted Value', 'Value', 'Status', and 'Error Message'. The table contains two rows of results.

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Replenishment	Allocated Stock Qty for Replenishment Calculation	Enter '0' for 'Exclude', '1' for 'Include'	1	Defined	
2	Replenishment	Include Supplier Stock other than 'PBH' during	Enter '0' for 'No', '1' for 'Yes'	0	Defined	

## WHAT'S NEW IN SUPPLIER?

### Ability to define EDI Capabilities and Stock Valuation for a Supplier

*Reference: AHBE-11279*

#### Background

Currently, Ramco Aviation Solution does not support the valuation of a Trading Partner stock and also, there is no automatic Customer Order generation handled when Parts are issued out from the Warehouse.

However, for an efficient management of Inter Company operations, a provision is required to consider every Repair Order cut in one of the Group Company as a Customer Order in the other company. Also, valuation of the Group Company's stock becomes essential.

#### Change Details

In order to make the required features available, a new screen Manage Additional Options is defined under the Supplier business component. This screen is provided as a link in the Register Supplier, Add Location Details, Edit Supplier Details and Edit Location Details screens. This screen will have the following option settings.

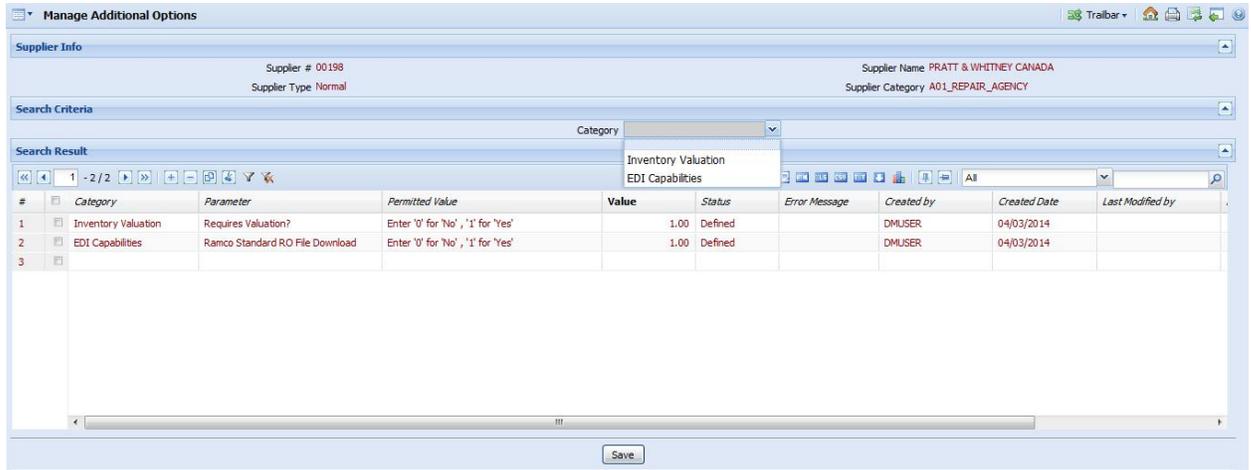
- i. Requires Valuation?
- ii. Ramco Standard RO File Download

The former option setting will be available under the category 'Inventory Valuation' and this would enable the definition of whether the stock of the given Supplier should carry a value in the inventory.

The latter option setting will be available under the category 'EDI Capabilities' and this will enable the automatic generation of a Customer Order in the group company whenever a Repair Order issue is confirmed with the Repair Agency as the given Supplier.

Validation is added in the new screen to ensure that the option setting 'Requires Valuation?' is not set as 'No' (i.e.) valuation is not required, whenever there exists stock in the inventory for the given supplier with some value associated to it.

**Exhibit 1: Identifies the Manage Additional Options screen defined under the Supplier business component**



**Exhibit 2: Identifies the link to Manage Additional Options in Edit Supplier Details screen**



## Ability to attach Logo for a Supplier

Reference: AHBE-12495

### Background

Though Supplier master in Ramco Aviation Solution is comprehensive, there is no provision to attach Logo for a Supplier. Business need is to given a provision to attach the Supplier Logo.

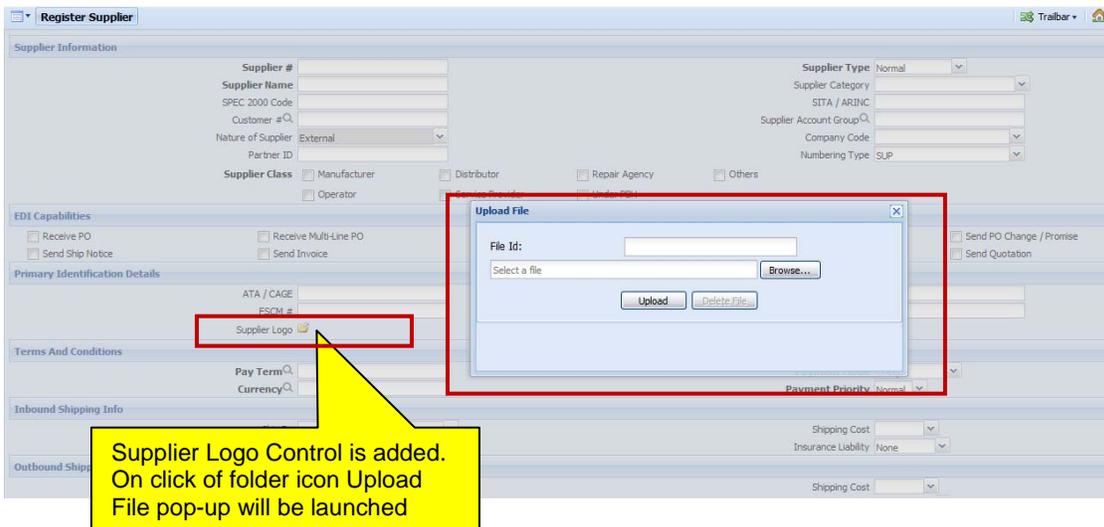
### Change Details

A new control “Supplier Logo” is added in the Primary Identification Details section in **Register Supplier** and **Edit Supplier Details** screens. The control has a folder icon that facilitate user to select and attach Logo from the user's machine. On click of the folder icon a pop-up screen is displayed where user could specify the file name as well as browse to choose the Logo.

In View Supplier Details, Add Location Details, Edit Location Details and View Location Details screens “Supplier Logo” is added in Primary Identification Details section as a display only field.

**Note:** Currently, supplier logo is displayed in Tag Report printed from AME for Supplier Owned parts.

**Exhibit-I:** Identifies the changes made in Register Supplier & Edit Supplier Details.



**Exhibit-II:** Identifies the changes made in View Supplier Details, Add Location Details, Edit Location Details & View Location Details.

**View Supplier Details**

Supplier # 00000 Supplier Name ORDNANCE CORPS  
Supplier Type Normal Supplier Category JURISTIC  
Customer # 400420 Supplier Account Group TRADE  
Nature of Supplier External Company Code  
Partner ID

**Supplier Class**

Manufacturer Yes Distributor No  
Repair Agency Yes Operator No  
Service Provider Yes Under PBH Yes  
Others No

**EDI Capabilities**

Receive PO  Receive Multi-Line PO  Send PO Acknowledgement  Receive PO Change  Send PO Change / Promise  
 Send Ship Notice  Send Invoice  Receive Invoice Exception  Receive RFQ  Send Quotation

**Primary Identification Details**

ATA / CAGE DUNS #  
NSCM #  
Supplier Logo

**Terms And Conditions**

Pay Term N0300000\_00.OP00.0 Payment Mode Cheque  
Currency USD Payment Priority Normal

**Inbound Shipping Info**

Supplier Logo is added as a display only field

## WHAT'S NEW IN PURCHASE REQUEST?

### Renaming of the caption "Requesting Unit" as "Expense to"

Reference: AHBE-9775

#### Background

With the introduction of new capability to manage procurement on behalf of another trading partner (Inter Company) there is a need to stream line the terminology "Requesting Unit" as it typically identifies expense Finance Books for the procurement transaction. The caption "Requesting Unit" needs to be renamed as "Expense to".

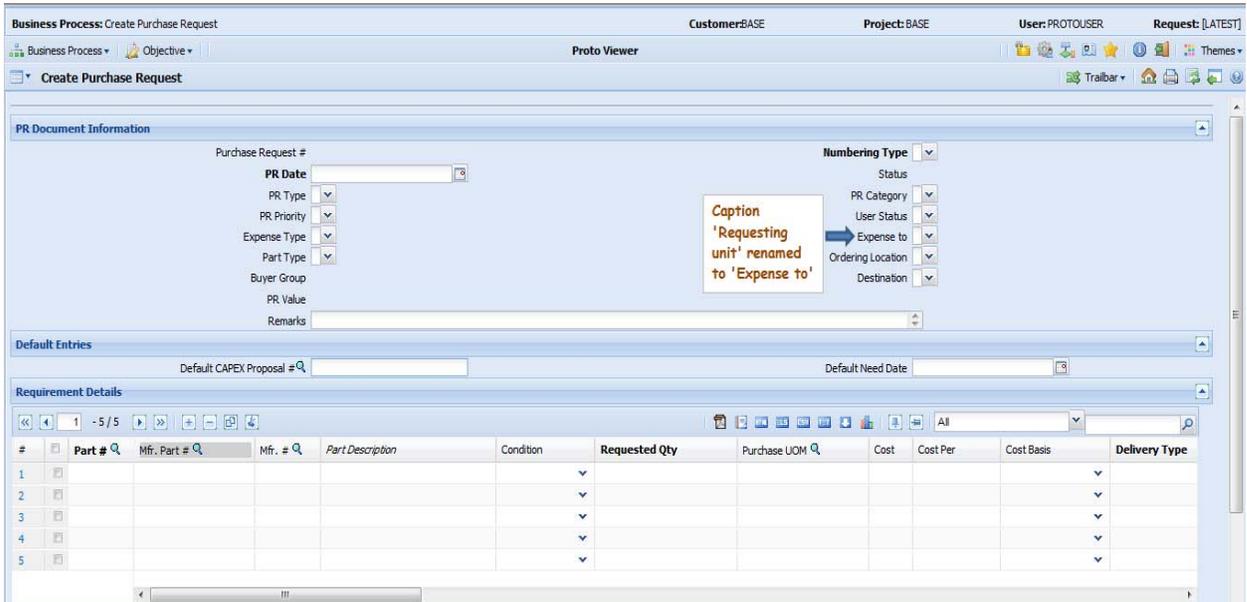
#### Change Details

Caption "Requesting Unit" is renamed as "Expense to" in the following PR screens.

- i. Create Purchase Request
- ii. Edit / Cancel Purchase Request
- iii. Authorize Purchase Request
- iv. View Purchase Request

Impacted error messages are also corrected to display the caption as "Expense to".

#### Exhibit 1: Identifies the caption change in Create Purchase Request screen



**Exhibit 2: Identifies the caption change in Select Purchase Request screen under Cancel / Edit Purchase Request activity**

The screenshot shows the 'Select Purchase Request' screen within a business process viewer. The top navigation bar includes 'Business Process: Cancel / Edit Purchase Request', 'Customer:BASE', 'Project:BASE', 'User:PROTOUSER', and 'Request: [LATEST]'. The main area is divided into 'Direct Entry' and 'Search Criteria' sections. The 'Search Criteria' section contains various filters such as 'Purchase Request #', 'Action', 'PR Type / PR Priority', 'Buyer Group', 'Part # / Mfr. Part #', 'Created by', 'Status', 'PR Date: From/To', 'PR Category / User Status', 'Part Type', 'Expense Type', and 'Expense to'. A 'Search' button is located below these filters. The 'Search Results' section displays a table with columns: '#', 'PR Category', 'PR Type', 'Expense Type', 'Buyer Group', 'Expense to', 'Created by', and 'Status'. A callout box with a blue arrow points to the 'Expense to' column header, containing the text: 'Caption 'Requesting unit' renamed to 'Expense to''. The bottom status bar shows 'Purchase Requisition -> Cancel / Edit Purchase Request' and a timer '119 Minute(s) 5:21 PM'.

## WHAT'S NEW IN PURCHASE ORDER?

### Ability to search PO based on the Warehouse # specified in the PO in View PO screen

*Reference: AHBE-4859*

#### Background

Airline operations are normally spread out, operating from multiple geographical locations known as Base. Each Base will have a Work Center for performing minor / major maintenance activities and will have one or more warehouses associated to it.

Current limitation is that, because of non-availability of Warehouse # as a control in View PO screen, field base personnel has to rely on customized reports to review the open PO for his/her base and do the necessary follow-up as required.

Visibility is required for field base personnel as regards to the list of POs that are placed for parts for his/her field base

#### Change Details

A new drop down field "Warehouse #" has been introduced in the Search Criteria section of **Select Purchase** Order screen under **View Purchase Order** activity of the Purchase Order Business component. Also, Warehouse # has been introduced in search multiline as a display only column.

Warehouse # dropdown in the Search Criteria will be loaded with unique Warehouse #s that are mapped to the following transactions as identified from warehouse transaction mapping in the Storage Administration business component.

- i. Goods Inward – Regular Purchase
- ii. Goods Inward - Customer Goods Receipt

If a specific Warehouse # is chosen in the Search Criteria then, PO that has the chosen Warehouse # for at least one of the part will be retrieved and displayed in the multiline. In a scenario where a PO has different Warehouses, a string "Multiple" will be displayed under the Warehouse # column in the multiline.

**Exhibit 1: Identifies the changes in Select Purchase Order screen under View Purchase Order activity.**

The screenshot shows the 'Select Purchase Order' application window. The 'Search Criteria' section includes fields for Purchase Order #, PO Category, Part # / Mfr. Part #, PO Date (From/To), Created by, Purchase for, PO Type, PO Status, Supplier #, Warehouse # (highlighted with a callout), and Buyer Group. The 'Search Results' section displays a table with columns: #, Purchase Order #, PO Date, PO Type, Supplier #, Supplier Name, Expense Type, PO Status, Warehouse # (highlighted with a callout), User Status, and Created by.

#	Purchase Order #	PO Date	PO Type	Supplier #	Supplier Name	Expense Type	PO Status	Warehouse #	User Status	Created by
1	PO000103-2013	16/Sep/2013	Adhoc	0000				10973	LEVEL - 1	DMUSER
2	POA-000180-2013	04/Sep/2013	General	00198				10973		DMUSER
3	POA-000181-2013	04/Sep/2013	General	00198				MULTIPLE		DMUSER
4	POA-000209-2013	17/Sep/2013	General	008A1				10973		DMUSER
5	POA-000214-2013	20/Sep/2013	Adhoc	0000	GE	Capital	Open	10973		DMUSER

## Ability to Short Close Purchase Orders that are Under Amendment or Returned after amendment

*Reference: AHBE-4961*

### Background

Purchase Order could be amended for various business reasons. Typically, in any Airline/MRO Operations, a PO once created or amended would go through a hierarchy of approval depending upon the value of the PO. It is possible that during authorization process, a PO may be returned for clarification/correction. At times, PO which is returned may need to be canceled or short closed.

Currently, after amendment when a PO is returned, it is not possible to short close the PO. Apart from this, ability is also required to short close a PO which is under amendment.

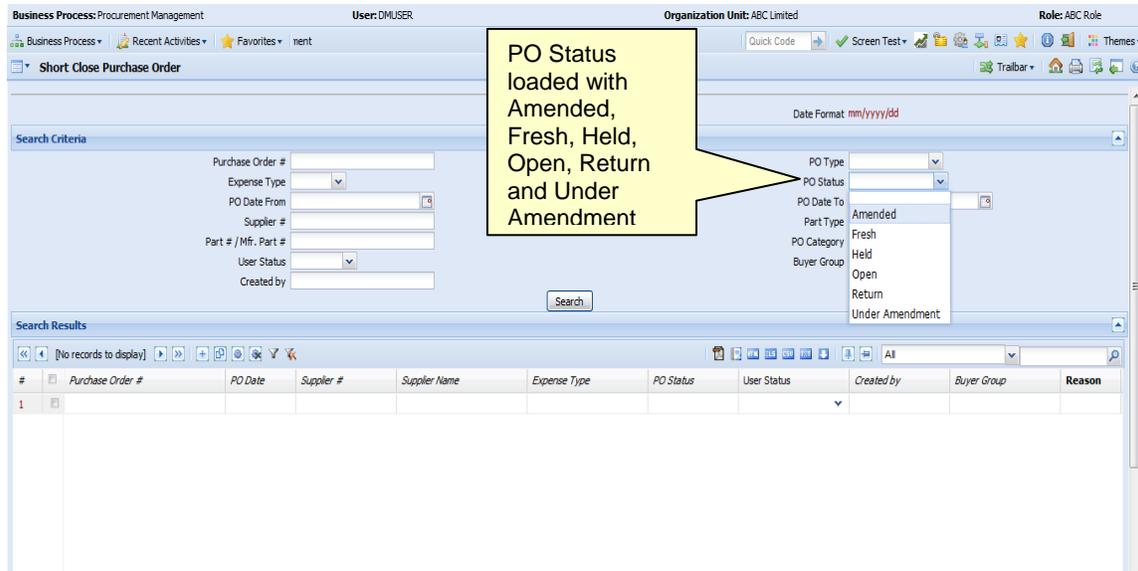
With the introduction of this new feature, Buyer will have a facility to short close a PO that is being amended or returned during authorization after amendment

### Change Details

A new set option "**Short Closure of Purchase Orders under Amendment / Returned after Amendment**" is provided in **Purchase Option Settings** activity under **Logistic Common Master** business component. The option can be set as 'Allowed' or 'Not Allowed'. The option needs to be set as 'Allowed' to short close Purchase Orders under amendment or those that are returned after amendment.

When the option is set as 'Allowed', in the **Short Close Purchase Order** screen, the drop down **PO Status** will be loaded with the following values in addition to 'Open' and 'Held' that is currently loaded; "Under amendment", "Amended", "Fresh" and "Return". Secondly, Search logic is modified to consider amended PO (amendment # should be 1 or greater than 1) in the above mentioned status to retrieve for short closure. During short closure of an amended PO in any one of "Under amendment", "Amended", "Fresh" and "Return" status, the amendment # will be incremented by 1 i.e., existing amendment + 1 to arrive at the new amendment and the information from the previous authorized amendment # will be copied to the new amendment # and then the PO will be short closed.

**Exhibit 1: Identifies the PO Status drop down loaded based on the new option in Short Close Purchase order Screen.**



## **Ability to check the Part Effectively for the Ordered Part and the Specific Alternate Part provided in Purchase Order / Goods Inward**

*Reference: AHBE-10208*

### **Background**

Currently in Ramco Aviation Solution, when a Purchase Order is raised, buyer can specify the "Aircraft Reg #" or the "Component #" for which the parts are procured. The system does not validate if the ordered parts are effective on the Aircraft or the Component. This can lead to an ineffective part being purchased which cannot be used to service the Aircraft or the Component.

With the introduction of this new feature, Ramco Aviation Solution has enabled the buyer to ensure that the Part # ordered is effective on the "Aircraft Reg #" or "Component #" specified in the PO. Also, during goods receipt, when alternate parts are received, the system ensures that the alternate part is effective on the Aircraft or Component specified in the PO.

### **Change Details**

Existing set option "PO Part # Effectivity Check for the covered MR" under the category 'Purchase Order' in the **Purchase Option Settings** screen has been renamed as "PO Part # Effectivity Check" as the check is now extended to cover Aircraft or Component specified in the PO as well.

Validations are added in the **Create Purchase Order**, **Edit Purchase Order** and **Amend Purchase Order** screens to ensure that the ordered Part # and the Alternate Part # (if specified) are effective on the "Aircraft Reg #" or "Component #" specified.

Similarly, validations are added in the **Manage Goods Receipt** screen to ensure that the Received Part # is effective on the Aircraft or Component specified in the Purchase Order or the ones specified in the Material Request covered through the Purchase Order document. Both the validations are based on the part effectivity set option available in **Stock Maintenance** and **Logistics Common Master** Business components.

**Exhibit 1: Identifies set option under category 'Purchase Order' in Purchase Option Settings Screen.**

The screenshot shows the 'Purchase Option Settings' window. At the top, there are several dropdown menus for global settings. Below that is the 'Additional Purchase Options' section, which is currently filtered by the category 'Purchase Order'. A table lists five parameters for this category. A yellow callout box with a black border points to the 'Parameter' column of the table, containing the text 'New Column Part Description'.

#	Category	Parameter	Permitted Value	Value	Status	Error Message
11	Purchase Order	Minimum order quantity check	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
12	Purchase Order	Purchase Order on behalf of Trading Partner	Enter '0' for 'Not Allowed', '1' for 'Allowed'	1	Defined	
13	Purchase Order	PO Part # Effectivity Check	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
14	Purchase Order	PO Work Center different from Ref. Doc. Work	Enter '0' for 'Not Allowed', '1' for 'Allowed'	1	Defined	
15	Purchase Order	Specific Buyer Group based PO search	Enter '0' for 'Exclude PO without a Buyer Group', '1' for 'Include PO	1	Defined	

## Ability to identify Freight Charge as Payable during Procurement

*Reference: AHBD-11593*

### Background

Freight cost forms a significant part of Purchase cost particularly for overseas procurement. In most cases, it is the cost incurred in moving goods from Vendor location to the Buyer's location. It may also include packaging, loading and unloading charges, apart from carriage and insurance costs.

When Freight becomes the responsibility of the Buyer, Freight Charges are known at a much later stage when the Carrier/Freight Forwarder provides the invoice. With the Freight Costs forming a significant part of Procurement cost, Organizations would want it to be added to the inventory instead of letting their Profit and Loss hit. In a scenario involving overseas procurement, the inventory cost of the part without Freight does not reflect the true cost.

The requirement is to have an option with which a notional % cost that can be charged to the Inventory for Freight. The notional charges can be set off against the Actual freight cost on receipt of invoice.

### Change Details

Towards addressing the above requirement, a drop down 'Charge Type' loaded with the value 'Payable' is added in the TCD mapping screens of the Supplier, Purchase Order, Blanket Purchase Order and Release Slip business components.

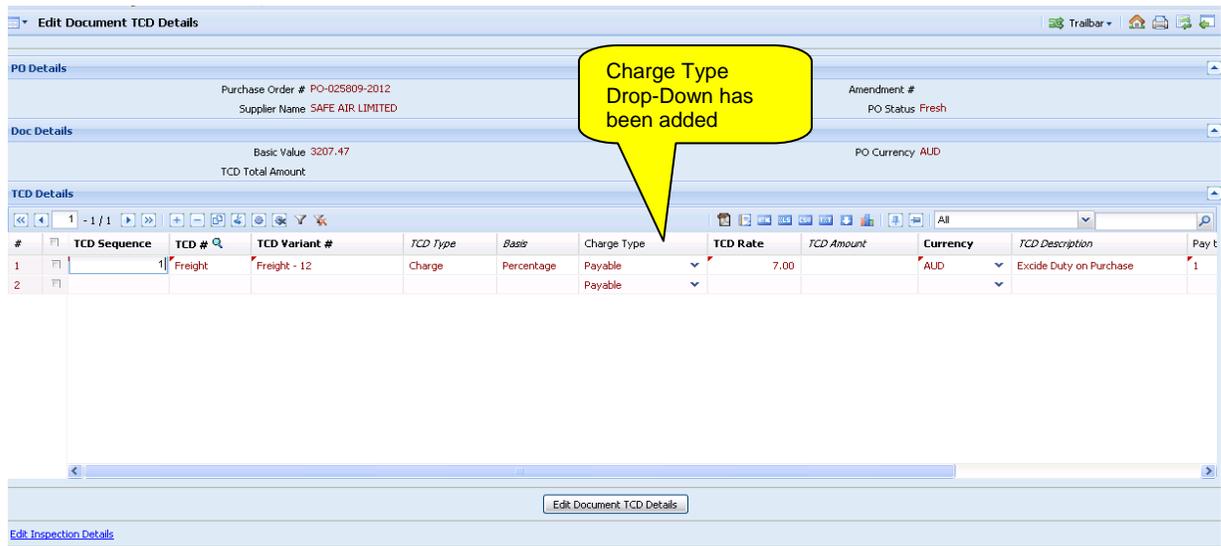
Currently, user can specify only Payable Charge in a Supplier Master or any Order documents. Payable charge refers to the Cost charged by the Vendor or the Freight Forwarder which is known at the time of recording Order document / Contract.

**Note:** *This feature will be enhanced the next release i.e., R5.8, by adding a new value 'Notional' in the Charge Type drop down that is introduced. Charges identified as 'Notional' will be added to inventory cost during receipt.*

List of screens where 'Charge Type' is added as a drop down are as follows;

Business Process	Component	Screen
Procurement Management	Supplier	Edit Supplier TCD Mapping
Procurement Management	Supplier	Edit Part Level TCD
Procurement Management	Purchase Order	Edit Document TCD Details
Procurement Management	Purchase Order	Edit Part TCD Details
Procurement Management	Blanket Purchase Order	Edit Document TCD Details
Procurement Management	Blanket Purchase Order	Edit Part TCD Details
Procurement Management	Release Slip	Edit Document TCD Details
Procurement Management	Release Slip	Edit Part TCD Details

**Exhibit-I** Identifies the Charge Type drop-down in **Edit Document TCD Details** screen



## **Ability to amend the PO Type, Expense Type, Receipt Recording Option, Purchase for Finance Book & Component #**

*Reference: AHBE-11599*

### **Background**

Currently in Ramco Aviation Solution, it is not possible to amend the PO Type, Expense Type, Receipt Recording Option, Purchase For and Component # in a Purchase Order. If it is required to amend one or more of the above information then the PO needs to be short closed and a new PO needs be created. There is no facility to amend the PO and change the required information. Secondly, a provision is required for the Buyer to change the Capex Proposal # in PO during amendment.

The above said business requirement to amend the PO should be possible when there are no receipts or issues made with reference to the Purchase Order document.

### **Change Details**

- a) Following display only fields are modified as editable or drop down fields as required allowing the user to modify them in the **Amend Purchase Order** screen.
  - PO Type
  - Expense Type
  - Receipt Recording Option
  - Purchase For
  - Component #
- b) Manipulation of these fields is restricted through validations (On selection of PO Type value and click of Amend Purchase Order button) if
  - There are any receipts that are made against the Purchase Order document.
  - There are any Issue documents made against the Purchase Order document if the PO Type is Exchange/PBH Exchange
  - The modified PO Type and the existing PO Type are not within;
    - General
    - Express
    - Exchange
    - PBH
    - PBH Exchange
  - At least one of the PO lines is in Closed status

- PO Type drop-down will be loaded with the values as per the Buyer Control definitions, in par with the Create and Edit Purchase Order screens.
- Expense Type & Receipt Recording Option drop-downs will be loaded with the values based on selection of PO Type
- When the PO is being amended, buyer can change the Capex Proposal # in the PO if parts are not received or issued against the PO / PO Line #.

**Exhibit-I** identifies the modified fields in **Amend Purchase Order** screen

The screenshot shows the 'Amend Purchase Order' screen with the following details:

- PO Information:** Purchase Order # PO-002391-2013, Amendment # 2, User Status (dropdown), Status Amended.
- PO Details:**
  - PO Type: Express
  - Expense Type: Capital
  - PO Priority: (dropdown)
  - Aircraft Reg #: (input field)
  - Buyer Group: (input field)
  - PO Date: Apr/13/2013
  - Supplier # 1
  - PO Currency: CAD
  - PO Basic Value: CAD 18.00
  - PO Additional Charges: USD 0.00
  - Core Status: (input field)
  - Remarks: (input field)
  - Purchase for: --Not Applicable--
  - Receipt Recording Option: GR Movement
  - PO Category: (dropdown)
  - Component #: (input field)
  - Quality Attribute Check: No
  - Part Type: All
  - Supplier Name: MITSUI & COMPANY
  - Exchange Rate: 1.00671000
  - Base Currency Value: USD 18.12
  - PO Total Value: USD 18.12

## **Enhancement in Exchange / PBH Exchange PO: a) Facility to exchange multiple parts in one PO, b) Facility to reconcile pending issue or receipt quantities and close the PO**

### **Background**

It is a common practice in the Aviation business to Exchange Unserviceable Parts for a Serviceable / Overhauled Part to avoid the high expense and sometimes long lead time involved in procurement of a new part. In Ramco Aviation Solution, exchange of Parts is facilitated through 'Exchange' and 'PBH Exchange' Purchase Orders.

Currently, exchange of multiple parts in a single Purchase Order is not allowed. Also, the closure of the Exchange PO is possible only if both the legs of an exchange i.e., Issue of Unserviceable Part (through Exchange Issue) and Receipt of Serviceable Part (through Goods Receipt), **is completed.**

The need from Business for an Exchange / PBH Exchange PO is as follows;

- ✓ Ability to order multiple parts
- ✓ Ability to adjustment the Pending Issue or Receipt Qty and close the PO

### **Change Details**

Existing validation that restricts ordering of multiple Parts in an Exchange or PBH Exchange PO is removed in **Create Purchase Order, Edit Purchase Order and Amend Purchase Order** screens. A new validation to ensure the Core Part # – Core Serial # combination is not repeated is added in the above mentioned screens.

A display only column 'Issued Qty' is added in the multiline of the **Amend Purchase Order** and **View Purchase Order** screens to show the Qty issued against Part #. This column will be visible for the user only for the PO Types Exchange and PBH Exchange.

An editable column 'Assessed Cost (in Base Curr.)' is added in the multiline in the **Create Purchase Order, Edit Purchase Order and Amend Purchase Order** screens to take the value of the Part that would be received from the Supplier in exchange for the Unserviceable part. This field will be visible for the user only if the PO Type is Exchange. Data entry in this field will be mandatory, based upon the option setting "Assessed Cost for Part in Exchange PO" introduced in the **Purchase Option Settings** activity of the **Logistics Common Master** Business component.

The Parts received against the Exchange Purchase Order shall be valued, based upon the value chosen for the new option "Value parts received against an Exchange PO in the order of" which has the permitted values as 'Enter '1' for 'Assessed Cost, Replacement Cost, Valuation Method', '2' for 'Replacement Cost, Assessed Cost, Valuation Method', '3' for 'Replacement Cost, Valuation Method', '4' for 'Assessed Cost, Valuation Method', '5' for 'Valuation Method' introduced in the **Set Inventory Process Parameters** activity of the **Logistics Common Master** Business component.

In order to facilitate adjustment of pending issue or receipt quantity a new set option setting "Reconcile pending Issue/Receipt Qty for Exchange PO" has been introduced in the **Purchase Option Settings** activity of the Logistics Common Master Business component. This option can be set as 'Allowed' or 'Not Allowed'.

Two new editable columns 'Adjusted Issue Qty' and 'Adjusted Receipt Qty' has been added in the multiline of the **Amend Purchase Order** screen to facilitate pending quantity adjustment leading to PO closure. These columns will be visible for the user only if the option "Reconcile pending Issue/Receipt Qty for Exchange PO" is set as 'Allowed'.

Adjustment of the Pending Issue / Receipt is permitted on the following conditions.

- Order Qty should be equal to either the Qty received and moved into Warehouse or it should be equal to the Issued Qty.
- There should not be any open Issue or Receipt documents.
- Adjusted Issue Qty or Adjusted Receipt Qty should be equal to the Pending Issue Qty or Pending Receipt Qty.

The Purchase Order Line # with either the Adjusted Issue Qty or the Adjusted Receipt Qty shall be marked Closed, upon Authorization of the Purchase Order document.

Also, the Short Closure of an Exchange Purchase Order is allowed though there are pending issue or receipt quantities based on the following conditions.

- Issued Qty is equal to the Qty Received and Accepted against all the PO Lines
- There should not be any open Issue or Receipt documents against the PO

Also, a separate Core Status is maintained at the Purchase Order line level and this Core Status will drive the PO Document Level Core Status.

Exhibit - II: Identifies the columns added in the Create Purchase Order screen

**PO Details**

PO Type: Exchange  
 Expense Type: Revenue  
 PO Priority: Normal  
 Aircraft Reg #: VT-516  
 PO Date: 01/09/2013  
 Supplier #: 1  
 PO Currency: CAD  
 Buyer Group: ABC Limited  
 PO Basic Value: CAD  
 PO Additional Charges: NZD

Purchase for: --Not Applicable--  
 Receipt Recording Option: GR Movement  
 PO Category: [ ]  
 Component #: [ ]  
 Part Type: All  
 Supplier Name: SAFE AIR LIMITED  
 Exchange Rate: [ ]  
 Quality Attribute Check: No  
 Base Currency Value: NZD  
 PO Total Value: NZD

**Default Entries**

Default Inspection Type: [ ]  
 Default Matching Type: Four Way at GR  
 Default Ship To OU: ABC Limited  
 Default Account Usage: [ ]  
 Default Analysis Code: [ ]  
 Default CAPEX Proposal #: [ ]

Default Need Date: [ ]  
 Default Tolerance Type: None  
 Default Warehouse: [ ]  
 Default Costing Usage: [ ]  
 Default Sub Analysis Code: [ ]

**Part Details**

#	Part #	Part Description	Order Qty	Purchase UOM	Cost	Assessed Cost (Base Curr.)	Cost Per	Basic Value	Condition	Certificate Type
1	Z10973P6	Engine Enhancer	3.00	EA	100.00	1000.00	1.00	300.00	New	STC
2	Z10973P6	ENGINE ENHANCER P6	3.00	EA	100.00	1000.00	1.00	300.00	New	STC

Exhibit-III: Identifies the columns added in the Amend Purchase Order screen

**PO Information**

Purchase Order #: PO-026595-2013  
 User Status: [ ]  
 Amendment #: [ ]  
 Status: Closed

**PO Details**

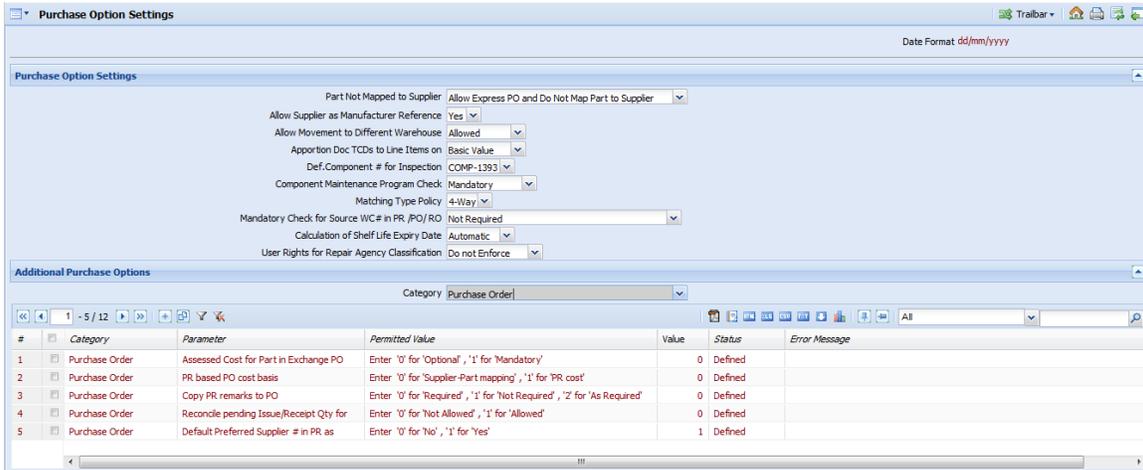
PO Type: Exchange  
 Expense Type: Revenue  
 PO Priority: [ ]  
 Aircraft Reg #: [ ]  
 Buyer Group: [ ]  
 PO Date: 16/08/2013  
 Supplier #: 1  
 PO Currency: CAD  
 PO Basic Value: CAD 200.00  
 PO Additional Charges: NZD 0.00  
 Core Status: Closed

Purchase for: --Not Applicable--  
 Receipt Recording Option: GR Movement  
 PO Category: [ ]  
 Component #: [ ]  
 Quality Attribute Check: No  
 Part Type: All  
 Supplier Name: SAFE AIR LIMITED  
 Exchange Rate: 1.23  
 Base Currency Value: NZD 246.61  
 PO Total Value: NZD 246.61

**Part Details**

#	Part #	Part Description	Order Qty	Received Qty	Accepted Qty	Issued Qty	Adjusted Issue Qty	Adjusted Receipt Qty	Purchase UOM	Cost	Assessed Cost (Base Curr.)
1	Z10973P6	ENGINE ENHANCER P6	2.00	2.00	2.00	2.00			EA	100.00	500.00
2	Z10973P6	ENGINE ENHANCER	2.00	2.00	2.00	2.00			EA	100.00	500.00

**Exhibit-IV:** Identifies the option settings added in Purchase Option Settings screen



## Facility to order Capital Parts in a Consignment Purchase Order

### Background

Though spare parts typically are managed under consignment inventory, it is not unusual in business to manage some of the Capital parts (assets) as consignment stock. Currently, in Ramco Aviation Solution, parts whose Expense Type is 'Revenue' ex. spares, consumables etc. are allowed to be ordered in a Consignment Purchase Order. However, business need is to allow 'Capital' parts in a Consignment PO.

### Change Details

A new option setting "Capital part in Consignment PO" has been introduced under the Category 'Purchase Order' in **Purchase Option Settings** activity of **Logistics Common Master** business component. The option can be set either as 'Allowed' or 'Not Allowed'. The option needs to be set as 'Allowed' if it is required to create Capital Consignment PO.

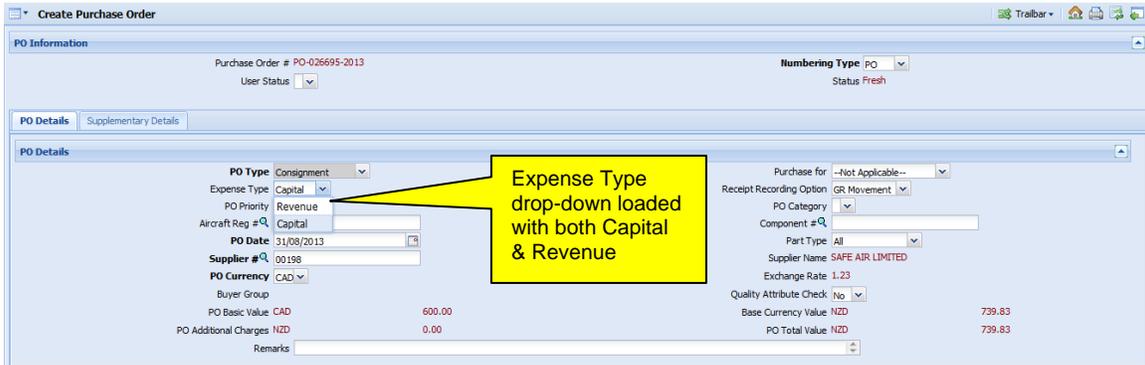
To facilitate ordering of capital parts in a Consignment PO, following enhancements are made in Purchase Order business component.

The drop down 'Expense Type' will be loaded with the values 'Revenue' and 'Capital' in the following screens; **Create Purchase Order**, **Edit Purchase Order** and **Amend Purchase Order**. Earlier for PO Type 'Consignment' only the value 'Revenue' was being loaded.

**Enhancement Notification**

Based on interaction with Asset Planning business component of Ramco Aviation Solution's Finance Module, it will be required to enter CAPEX Proposal # similar to any other Capital PO. It is not required to have sufficient amount in the CAPEX Proposal # at PO stage for a Capital Consignment PO; however, during Stock Status Conversion system will validate availability of sufficient balance in the corresponding CAPEX Proposal # based on another set option and effect required postings for asset capitalization.

**Exhibit-V:** *Identifies loading of Expense Type drop down for a Consignment PO*



## Facility to process multiple Issues against an Exchange / PBH Exchange PO

### Background

Currently, Ramco Aviation Solution allows only one issue document to be created for the entire quantity ordered in an Exchange / PBH Exchange PO. However, business need is to allow multiple issues against an Exchange / PBH Exchange PO.

### Change Details

Existing validation that enforces Issue Qty should be equal to the Ordered Qty for an Exchange / PBH Exchange PO is relaxed in **Create Exchange Issue and Edit Issue** screens. Impact of relaxing the validation in terms of Core Status update, Drill Down table update, Issue Qty update etc. is managed.

## Facility to process multiple receipts against an Exchange / PBH Exchange PO

### Background

Currently, Ramco Aviation Solution allows only one receipt document to be created for the entire quantity ordered in an Exchange / PBH Exchange PO. However, business need is to allow multiple receipts against an Exchange / PBH Exchange PO.

### Change Details

Existing validation that enforces Order Qty should be equal to the Received Qty for an Exchange / PBH Exchange PO is relaxed in **Manage Goods Receipt** screens.

Also, the validation to ensure that either the entire quantity received is accepted or rejected during inspection is removed in the **Inspect Parts** screen for the Goods Receipts made against the Exchange or PBH Exchange Purchase Orders.

Impact of relaxing the validation in terms of Core Status update, Drill Down table update, Receipt Qty update etc. is managed.

## Facility to value the parts received against an Exchange Purchase Order based upon the Assessed Cost

### Background

Currently, goods received against an Exchange PO are valued based on the Issue Cost (if entire qty is issued, prior to receipt) or based on the Valuation Method of the Part.

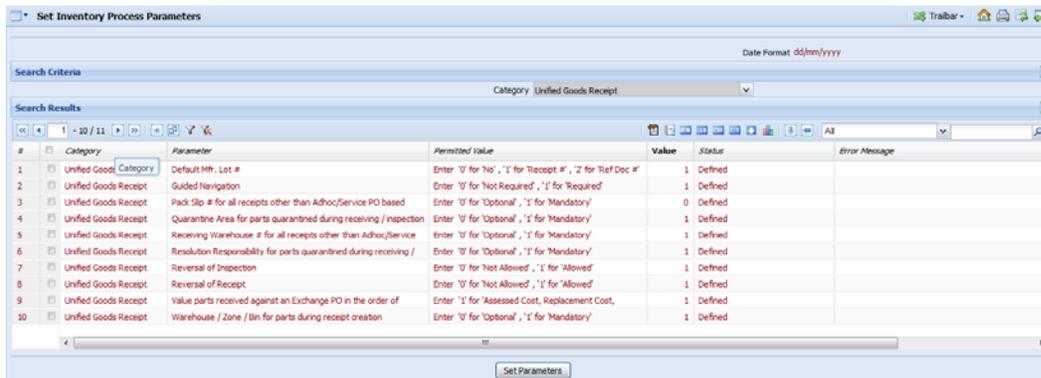
However, business need is to provide an ability for the user to specify the cost in the PO document based on which the parts received should be valued. Towards this, a new column 'Assessed Cost' is added in PO. The impact of valuing the part based on the Assessed Cost is managed as part of this enhancement in Goods Inward.

### Change Details

Parts received will be valued based on the option setting 'Value parts received against an Exchange PO in the order of' introduced in the Set Inventory Process Parameters activity.

If the option is set as, '1' (i.e.) 'Assessed Cost, Replacement Cost, Valuation Method', the Parts received will be valued with the Assessed Cost provided in the Purchase Order. If Assessed Cost is not available and if the entire quantity for that PO line is already issued, then the parts received will be valued with the Issue Cost. If not, then it would be valued based upon the Valuation Method of the part as defined in the Part Administration Business component. In a similar way, parts received will be valued for any other option set.

**Exhibit-VI:** Identifies the option setting introduced in Set Inventory Process Parameters screen



### Other Changes

- Asset ID – Tag # update to the received part – serial with that of the issued part - serial has been moved to the Move Parts button from the Confirm Inspection button during Goods Inward.
- Short Closure of an Exchange or PBH Exchange Purchase Order is allowed
  - If the Issued Qty is equal to the Qty of the Parts received against the Purchase Order
  - If there does not exist any Goods Receipts or Issues in-progress against the Purchase Order
- An option setting 'Short Closure of a PO in NT Closed status' is added in the Purchase Option Settings screen to facilitate the Short Closure of a Purchase Order in 'NT Closed' status
- The fields Address ID and Contact Person are made editable in the **Amend Purchase Order** screen to facilitate their modification.

## Facility to manage postings for capitalization of assets procured through Capital Consignment PO

### Background

With the introduction of the feature to procure Capital parts through a Capital Consignment PO it becomes essential to handle the necessary finance postings to manage liability as well capitalization of asset during stock status conversion.

### Change Details

A new option "Capex Validation Required for Consignment Conversions" has been introduced in the **Set Parameters – Fixed Assets** activity of the **Company Parameters Setup** business component. This option can be set as 'Yes' or 'No'.

If the option is set as 'Yes' then during Stock Status Conversion when a Capital Consignment Stock is converted into an Owned Stock, availability of sufficient balance in the Capex Proposal # specified in Capital Consignment PO will be checked. During confirmation of Stock Status Conversion document required postings for liability i.e., to facilitate payment to supplier, as well capitalization of assets will be done.

Ramco Aviation Solution has an ability to allocate a consignment stock against an internal Material Request and on confirmation of the issue of stock, system automatically creates a Stock Status Conversion document. In the event, if the issued stock is returned as 'Excess' i.e., unused, system will automatically create another stock status conversion and reinstate the ownership and status with the respective Supplier. The feature is applicable for Capital Consignment stocks as well. During reversal, liability as well asset capitalization postings will be reversed.

## **Facility to modify Part Expense Type of a Part available in an Open Consignment PO**

### **Background**

With the introduction of the feature to procure Capital parts through a Capital Consignment PO and managing corresponding postings during stock status conversion, existing validation that restricts change of Part Expense Type through Part Data Change transaction when the part is available in an open Consignment PO becomes redundant.

### **Change Details**

When the Expense Type of a Part is modified through Part Data Change transaction, system lists open Consignment PO in which the part is available as objectionable transaction. Since stock status conversion business function is enhanced to manage related postings etc. irrespective of whether the part is Capital or Revenue during the time of conversion of Consignment stock, the validation is no longer required. This validation has been removed from Part Data Change transaction.

## Enhancement of Exchange Procurement with multiple options

### Background

In an operational Aircraft Maintenance scenario, there will be contract available with Vendors in order exchange parts on AOG/Regular basis. These arrangements are done in order to ensure that critical parts are available at any time for Repair and Maintenance.

In a typical Exchange Scenario, there will be multiple parts that will be exchanged with the Vendor and in most cases the Parts are received from Vendor and then later owned part issued back. In some cases, the Organization decides the value of the Parts which are received from the Vendor. There are also scenarios where the parts received from Vendor can be purchases in case of long duration of exchange.

### Change Details

To cater the above requirements, Exchange PO has been enhanced with following –

- ✓ Ability to record multiple Parts in an Exchange PO
- ✓ Ability to record multiple Issues / Receipts for an Exchange PO
- ✓ Ability to specify options to value the Parts received from Vendor
- ✓ Ability to Adjust the Pending Issue / Receipt Quantity as Purchase / Sale with the Vendor

Exchange PO Accounting has been enhanced with following –

- ✓ Exchange Variance postings will be recorded on Closure of Exchange PO Line instead of Exchange Issue
- ✓ New Account code to post values in Purchase/Sale scenario

### New Master Data Additions

- ✓ A Pre-defined Usage – Exchange Liability Adjustment [EXCHLIABADJ] has been added to record the cost of parts recorded as Purchase / Sale with Vendor.
- ✓ Two new Transaction Types has been added to represent the incidence of accounting.

- PUR\_POCLS - Purchase Order Closure
- PUR\_RPOCLS - Purchase Order Closure - Reversal

**Exchange Purchase Order Accounting**

Exchange PO Accounting has been modified in order to address the above requirements. The accounting in various scenarios has been detailed below:

- i. Exchange Variance Accounting has been disabled in Exchange Issue and enabled on PO Line Closure, with the possibility of multiple Issue / Receipt.
- ii. Variance Scenario:
  - o In case the entire PO Quantity [Line level] has been Issued and Received and variance exists between Issue Cost and Receipt Cost the Variance will be posted to Exchange Price Variance Account on PO Line Closure
- iii. Purchase Scenario:
  - o In case the entire PO Quantity [Line level] has been Received and No/Partial Quantity has been Issued, User has option to record the Core Due quantity as Purchase. In this scenario, the difference between Issue Cost and Receipt Cost will be posted to Exchange Liability Adjustment Accounting on PO Line Closure.
- iv. Sale Scenario:
  - o In case the entire PO Quantity [Line level] has been Issued and No/Partial Quantity has been Received, User has option to record the Core Receipt Due quantity as Sale. In this scenario, the difference between Issue Cost and Receipt Cost will be posted to Exchange Liability Adjustment Accounting on PO Line Closure.
- v. Handling of Variance Accounting in case of GR Acceptance Reversal scenario also has been handled.
- vi. Existing Accounting Flow and the Revised Accounting Changes has been explained below with Examples for easier understanding.

Existing Accounting Flow

**Exchange PO - Issue First Scenario**

Transaction Type	Item Type	Dr/Cr	Account Type	Amount
Exchange Issue	Part Cost	Debit	Exchange Suspense	1000
		Credit	Stock Account	1000

GR Acceptance	Part Cost	Debit	Stock Suspense	1000
		Credit	Exchange Suspense	1000
GR Acceptance	Exchange Fee	Debit	FA Suspense / Exchange Fee	200
		Credit	Supplier Suspense-Exchange	200
GR Movement	Exchange Fee	Debit	Stock Account	1000
		Credit	Stock Suspense	1000

**Exchange PO - Receipt First Scenario**

Transaction Type	Item Type	Dr/Cr	Account Type	Amount
GR Acceptance	Part Cost	Debit	Stock Suspense	1400
		Credit	Exchange Suspense	1400
GR Acceptance	Exchange Fee	Debit	FA Suspense / Exchange Fee	200
		Credit	Supplier Suspense-Exchange	200
GR Movement	Exchange Fee	Debit	Stock Account	1400
		Credit	Stock Suspense	1400
Exchange Issue	Part Cost	Debit	Exchange Suspense	1000
		Credit	Stock Account	1000
	Exchange Variance	Debit	Exchange Suspense	400
		Credit	Exchange Price Variance	400

**Revised Accounting Flow**

**Exchange PO: Quantity Issued and Received with Variance in Value**

Transaction Type	Item Type	Dr/Cr	Account Type	Amount
Exchange Issue	Part Cost	Debit	Exchange Suspense	1000
		Credit	Stock Account	1000

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GR Acceptance	Part Cost	Debit	Stock Suspense	1400
		Credit	Exchange Suspense	1400

GR Acceptance	Exchange Fee	Debit	FA Suspense / Exchange Fee	200
		Credit	Supplier Suspense-Exchange	200

GR Movement	Exchange Fee	Debit	Stock Account	1400
		Credit	Stock Suspense	1400

Purchase Order Closure	Exchange Variance	Debit	Exchange Suspense	400
		Credit	Exchange Price Variance	400

**Exchange PO: Quantity Issued to Vendor not Exchange not Received and classified as Sale**

Transaction Type	Item Type	Dr/Cr	Account Type	Amount
Exchange Issue	Part Cost	Debit	Exchange Suspense	1000
		Credit	Stock Account	1000

Purchase Order Closure	Sale Cost	Debit	Exchange Liability Adjustment	1000
		Credit	Exchange Suspense	1000

**Exchange PO: Quantity Received from Vendor and later classified as Purchase**

Transaction Type	Item Type	Dr/Cr	Account Type	Amount
------------------	-----------	-------	--------------	--------

GR Acceptance	Part Cost	Debit	Stock Suspense	1400
		Credit	Exchange Suspense	1400

GR Acceptance	Exchange Fee	Debit	FA Suspense / Exchange Fee	200
		Credit	Supplier Suspense-Exchange	200

GR Movement	Exchange Fee	Debit	Stock Account	1400
		Credit	Stock Suspense	1400

Purchase Order Closure	Purchase Cost	Debit	Exchange Suspense	1400
		Credit	Exchange Liability Adjustment	1400

**Exchange PO: Quantity Issued and Received with Variance in Value – GR Reversal and Variance Reversal**

Transaction Type	Item Type	Dr/Cr	Account Type	Amount
Exchange Issue	Part Cost	Debit	Exchange Suspense	1000
		Credit	Stock Account	1000
GR Acceptance	Part Cost	Debit	Stock Suspense	1400
		Credit	Exchange Suspense	1400
GR Acceptance	Exchange Fee	Debit	FA Suspense / Exchange Fee	200
		Credit	Supplier Suspense-Exchange	200
Purchase Order Closure	Exchange Variance	Debit	Exchange Suspense	400
		Credit	Exchange Price Variance	400
GR Acceptance-Reversal	Part Cost	Debit	Exchange Suspense	1400
		Credit	Stock Suspense	1400
GR Acceptance-Reversal	Exchange Fee	Debit	Supplier Suspense-Exchange	200
		Credit	FA Suspense / Exchange Fee	200
Purchase Order Closure - Reversal	Exchange Variance	Debit	Exchange Price Variance	400
		Credit	Exchange Suspense	400
GR Acceptance	Part Cost	Debit	Stock Suspense	1500
		Credit	Exchange Suspense	1500
GR Acceptance	Exchange Fee	Debit	FA Suspense / Exchange Fee	200
		Credit	Supplier Suspense-Exchange	200
Purchase Order Closure	Exchange Variance	Debit	Exchange Suspense	500
		Credit	Exchange Price Variance	500
GR Movement	Exchange Fee	Debit	Stock Account	1500
		Credit	Stock Suspense	1500

**View Account Balance:**

Book Keeping >> Finance Book Processing >> View Account Balance

- ✓ Transaction-wise break-up report for Exchange Suspense will be provided at Purchase Order level against the current frame of displaying Exchange Issue / Goods Receipt

**Exhibit 1:**

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Finance Book	Transaction Type	Transaction No	Line #	Confirmation Date	Part #	Stock Status	Balance Quantity	Balance Amount	Account Type	AccountCode	Ref. Doc No	Task Info	Part Type
2	ABCPFB	PUR-PO	PO-025850-2012	1	04-09-2013	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
3	ABCPFB	PUR-PO	PO-025771-2012	1	03-08-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
4	ABCPFB	PUR-PO	PO-025693-2012	1	27-07-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
5	ABCPFB	PUR-PO	PO-025616-2012	1	20-07-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
6	ABCPFB	PUR-PO	PO-025538-2012	1	13-07-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
7	ABCPFB	PUR-PO	PO-025461-2012	1	06-07-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
8	ABCPFB	PUR-PO	PO-025308-2012	1	29-06-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
9	ABCPFB	PUR-PO	PO-025240-2012	1	23-06-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
10	ABCPFB	PUR-PO	PO-025164-2012	1	22-06-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
11	ABCPFB	PUR-PO	PO-025085-2012	1	15-06-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
12	ABCPFB	PUR-PO	PO-024939-2012	1	08-06-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
13	ABCPFB	PUR-PO	PO-024687-2012	1	01-06-2012	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
14	ABCPFB	PUR-PO	PO-016444-2009	1	12-12-2009	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
15	ABCPFB	PUR-PO	PO-016395-2009	1	10-12-2009	00977L		-1.00	-9.60	Exchange Suspense	012001		Consumable
16	ABCPFB	PUR-PO	PO-016413-2009	1	10-12-2009	00977L		-1.00	-9.60	Exchange Suspense	012001		Consumable
17	ABCPFB	PUR-PO	PO-016290-2009	1	08-12-2009	00977L		-1.00	-9.60	Exchange Suspense	012001		Consumable
18	ABCPFB	PUR-PO	PO-016298-2009	1	08-12-2009	00977L		-1.00	-9.60	Exchange Suspense	012001		Consumable
19	ABCPFB	PUR-PO	PO-016147-2009	1	04-12-2009	00977L		1.00	100.00	Exchange Suspense	012001		Consumable
20	ABCPFB	PUR-PO	PO-015930-2009	1	24-11-2009	00977L		1.00	100.00	Exchange Suspense	012001		Consumable

**Pre-requisite:**

- ✓ Account code for the Usage Exchange Liability Adjustment [EXCHLIABADJ] has to be defined in order to record Exchange Purchase/Sale scenario.

**Limitations / Assumptions:**

- ✓ Recording Invoices from Vendor for Purchase or recording Notes to Vendor for Sale scenario has to be done manually thru' Supplier Expense Invoice.
- ✓ Supplier Order Invoice will be available to record only the Invoices for Exchange fee from Vendor.

**Enhancement of Consignment Procurement of Capital Parts**

**Background:**

There are scenarios where Capital Parts e.g. Rotables, are contracted with Vendor on Consignment basis. Parts are procured from consignment stock based on need and payment made to Vendor.

**Change Details:**

To cater the above requirements, Consignment PO has been enhanced with following –

- ✓ Capital Parts can be procured thru' Capital Consignment Purchase Order
- ✓ Option provided to enable Asset Planning check during conversion based on the requirement of the Organization

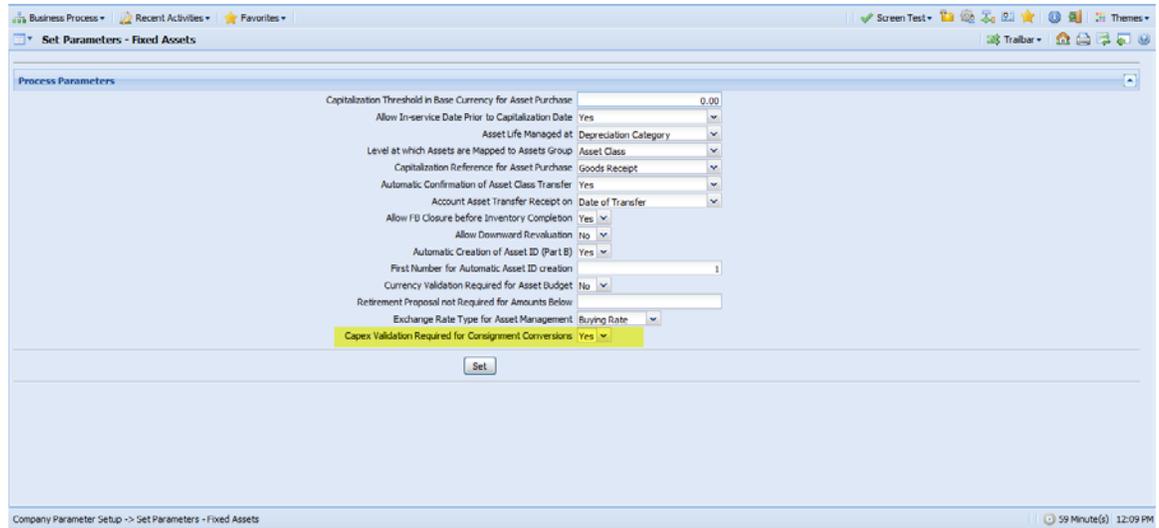
Consignment PO Accounting has been enhanced with following –

- ✓ Accounting to Fixed Asset Suspense / Capital work in Progress account on conversion of consignment stock to owned stock

**Company Parameter Setup:**

- ✓ Option provided to have CAPEX validation on Conversion of Parts from Consignment to Owned

**Exhibit-II:** Identifies the new option in Set Parameters – Fixed Assets



**Accounting Flow:**

Transaction Type	Item Type	Dr/Cr	Account Type	Amount
Stock Conversion	Consignment to Owned	Debit	Capital Work-in-Progress / Fixed Asset Suspense	10000
		Credit	Supplier Suspense - Consignment	10000
Stock Conversion	Owned to Consignment	Debit	Supplier Suspense - Consignment	2000
		Credit	Capital Work-in-Progress / Fixed Asset Suspense	2000

## WHAT'S NEW IN REPAIR ORDER?

### Facility to issue new Internal Lot # generated against a Repair Order

Reference: AHBE-3792

#### Background

Lot controlled parts are tracked in Ramco Aviation Solution with a unique Internal Lot # that is assigned by the system. Whenever, a lot is transferred from one warehouse to another or issued and returned into a different location etc., new unique internal lot # is assigned. However, the original Mfr. Lot # is retained for the new Internal Lot # that is generated.

When a part is removed as Unserviceable and needs to be sent for external repair, it is moved into the centralized U/s Warehouse or respective U/s warehouses associated to the base. In the normal process, once the part is moved into U/s warehouse, Repair Order (RO) is created and the parts are issued and shipped to the Repair Agency. But at times it happens with some customers, that after creation of Repair Order, the lot controlled part is moved to a different zone / bin etc., and as a result of movement, new Internal Lot # is generated that does not match with the Internal Lot # in the Repair Order. Because of mismatch in Internal Lot # between Repair Order and Inventory, the RO cannot be released for shipping. Business need is to allow the RO to be released for shipping and facilitate issue of the new Internal Lot #.

#### Change Details

The validation that restricts release of RO if Internal Lot # in RO does not match with that in Inventory is relaxed as long as Mfr. Lot # for both the internal lots is one and the same.

Consider the following example,

- i. 4 Qty of a lot controlled Part 'P1' is moved into U/s Warehouse

Part #	Qty	Lot #	Mfr. Lot #	Zone #	Bin #
P1	4 EA	LOT-000123-2013	MLOT-455565	Z1	B1

- ii. Repair Order is created to send the part for external Repair.

RO #	Part #	Qty	Lot #	Mfr. Lot #
RO-432	P1	4 EA	LOT-000123-2013	MLOT-455565

- iii. Prior to release of RO for shipping and issue of the lot, warehouse clerk had moved the lot into another zone / bin i.e., Z2 / B2. As a result of movement a new Internal Lot # is generated, however the original Mfr. Lot # is retained as shown below.

Transfer #	Part #	Qty	Lot #	Mfr. Lot #	Zone #	Bin #
TRN-984	P1	4 EA	LOT-000432-2013	MLOT-455565	Z2	B2

- iv. When the RO is released for shipping, system will not restrict release but will issue the new lot "LOT-000432-2013" though it does not match the actual RO Lot # "LOT-000123-2013".

RO Issue #	Part #	Qty	Lot #	Mfr. Lot #	Zone #	Bin #
ISU-7642	P1	4 EA	LOT-000432-2013	MLOT-455565	Z2	B2

- v. On confirmation of Issue, the new Lot # will be updated in Repair Order.

RO #	Part #	Qty	Lot #	Mfr. Lot #
RO-432	P1	4 EA	LOT-000432-2013	MLOT-455565



*Note: If the part – lot quantities are split across different zones/bins because of movement, and if there is no new single Internal Lot # that has sufficient quantities to be issued against the RO, then, release for shipping will be blocked.*

Consider the example similar to one described above

- i. 4 Qty of a lot controlled Part 'P1' is moved into U/s Warehouse

Part #	Qty	Lot #	Mfr. Lot #	Zone #	Bin #
P1	4 EA	LOT-000123-2013	MLOT-455565	Z1	B1

- ii. Repair Order is created to send the part for external Repair.

RO #	Part #	Qty	Lot #	Mfr. Lot #
RO-432	P1	4 EA	LOT-000123-2013	MLOT-455565

- iii. Prior to release of RO, warehouse clerk had split and moved the lot into different zones/bins. As a result of movement a new Internal Lot # corresponding to respective

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movement quantity will be generated, however the original Mfr. Lot # is retained as shown below.

<b>Transfer #</b>	<b>Part #</b>	<b>Qty</b>	<b>Lot #</b>	<b>Mfr. Lot #</b>	<b>Zone #</b>	<b>Bin #</b>
TRN-984	P1	1 EA	LOT-000432-2013	MLOT-455565	Z2	B2
TRN-985	P1	1 EA	LOT-000433-2013	MLOT-455565	Z3	B3
TRN-986	P1	2 EA	LOT-000434-2013	MLOT-455565	Z4	B4

Since there is no single new lot # with 4 quantities that can be issued against the RO, release of RO will be blocked and Repair Administrator needs to appropriately edit the RO and then release it for shipping.

## **Ability to search Repair Orders using Ref. Document Type and Ref. Document Doc #**

*Reference: AHBE-9777*

### **Background**

Repair Order could have reference to Aircraft Maint. Exe. Ref. #, Shop Work Order #, Customer Order # or any other Reference Document # user could enter manually. Provision is required in various entry screens in Repair Order business component to search for Repair Orders based on the Ref. Documents with which it is created.

### **Change Details**

Ref. Document Type and Ref. Document # fields are added in the Primary Search Criteria section in the Select Repair Order screen (entry page) launched from the following activities in Repair Order business component.

- i. Edit Repair Order
- ii. Record Acknowledgement
- iii. Record Quotation
- iv. Amend Repair Order
- v. Maintain Repair Shop Correspondence
- vi. View Repair Order

Search logic has been modified to include the value specified in Ref. Document Type and Ref. Document # fields to retrieve the matching Repair Orders. Secondly, in the Primary Search Criteria tab and Advanced Search Criteria tab, controls are re-positioned in a three columnar format for better space utilization.

**Exhibit 1: Identifies the changes in Primary Search Criteria tab in Select Repair Order screen under Record Quotation activity**

The screenshot shows the 'Select Repair Order' application window. The 'Direct Entry' section has a 'Record Quotes' button. The 'Primary Search Criteria' tab is selected, showing various search fields. A dropdown menu for 'Ref. Document Type' is open, listing options: A/C Maint. Exe., Shop Work Order, Customer Order, and Others. A callout box points to this dropdown with the text 'Ref. Document Type'. Another callout box points to the 'Ref. Document #' field with the text 'Ref. Document #'. Below the search fields is a 'Search' button. The 'Search Results' section at the bottom shows a table with columns: #, Repair Order #, Repair Shop #, Part #, Mfr. Part #, Serial #, Part Type, ATA #, Component #, Facility Object #, and Facility Type. The table is currently empty.

**Exhibit 2: Identifies the changes in Primary Search Criteria tab in Select Repair Order screen under View Repair Order activity**

The screenshot shows the 'Select Repair Order' application window. The 'Direct Entry' section has a 'View RQ' button. The 'Primary Search Criteria' tab is selected, showing various search fields. A dropdown menu for 'Ref. Document Type' is open, listing options: A/C Maint. Exe., Shop Work Order, Customer Order, and Others. A callout box points to this dropdown with the text 'Ref. Document Type'. Another callout box points to the 'Ref. Document #' field with the text 'Ref. Document #'. Below the search fields is a 'Search' button. The 'Search Results' section at the bottom shows a table with columns: #, Repair Order #, Repair Shop #, Part #, Mfr. Part #, Serial #, Shipped?, Part Type, ATA #, Component #, and Facility Object #. The table is currently empty.

## Ability to display the Repair Agency Name & Part Description in Authorize Repair Order screen

Reference: AHBE-11156

### Background

Currently, in the Authorize Repair Order screen there is a visibility of the Repair Shop Code and the Part Numbers available in a Repair Order. However, a provision to view the Repair Shop Name and the Part Description of the corresponding Repair Shop Code and Part Number respectively is required in the screen.

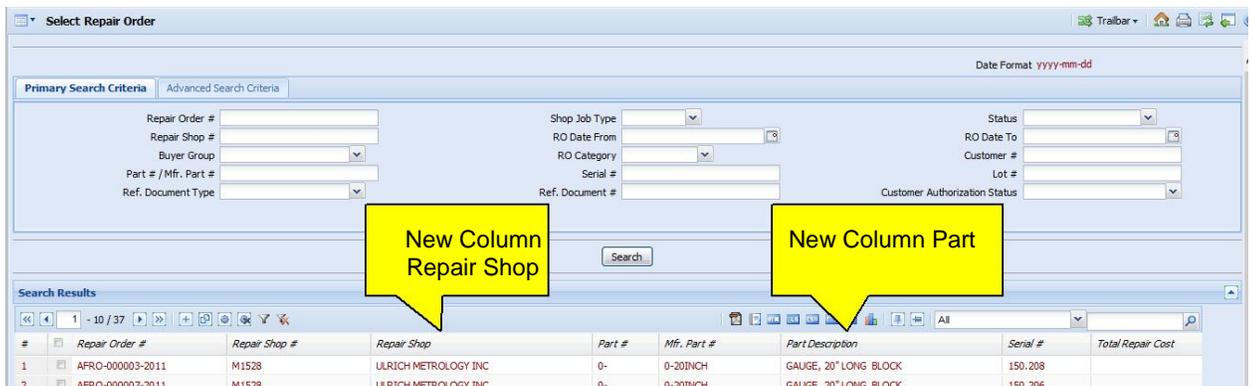
### Change Details

New columns 'Repair Shop' and 'Part Description' are added in the Search Results multiline in the **Authorize Repair Order** screen.

The column 'Repair Shop' will display the Repair Shop name of the Repair Shop to whom the Parts are sent for repair.

The column 'Part Description' will display the description of the Parts sent for repair from the Part Administration business component. If multiple Parts are available in the Repair Order, then the Part Description column will not display any value.

**Exhibit 1: Identifies the new columns added in Authorize Repair Order Screen.**



## **Ability to display Exchange Cost, BER Cost and Salvage Cost in RO Report**

*Reference: AHBE-13260*

### **Background**

When a part is sent for repair, repair agency might offer a direct exchange or an exchange plus repair. Also at times, it is agreeable to scrap the part at the repair agency for which a BER Cost is incurred. For the scrapped parts, it is possible that the Repair Agency may pay a Salvage Cost.

Currently, in the Repair Order Report, Repair Cost alone is considered and displayed. The different business scenarios of exchange, exchange plus repair, BER and Salvage at Repair Agency are not considered. Business need is to enhance Repair Order Report to display Exchange Cost, BER Cost and Salvage Cost as appropriate.

### **Change Details**

Repair Order Report layout is modified to include Exchange Cost, BER Qty, BER Cost and Salvage Cost. In a Flat Exchange scenario, Exchange Cost (EXCH Cost) will be displayed. In an Exchange plus Repair scenario both Repair Cost and Exchange Cost will be displayed separately. If the Repair Order has parts that are declared as BER then the columns; BER Qty, BER Cost and Salvage Cost will be displayed in the Report with the corresponding values. These three fields are dynamic i.e., if there are no part in the Repair Order that is declared as BER, then BER Qty, BER Cost and Salvage Cost fields will not appear in the report. Since Salvage Cost is receivable from the Repair Agency, it will be displayed in negative i.e., with in parentheses, in the report.

Total Cost is arrived by adding Repair Cost, Exchange Cost, BER Cost and subtracting the Salvage Cost from it.

**Exhibit-I:** Identifies the changes made in Repair Order Report.

		<b>REPAIR ORDER</b> 			<b>Jet Airways (India) Limited</b> 64, Sardar Patel Road, Taramani, Chennai, Tamil Nadu, India, 600113	
SUPPLIER #: 0000  SUPPLIER: GE 12345, CALIFORNIA,CALIFORNIA,usa 0000001		REPAIR ORDER #: AFRO-000065-2013 AMENDMENT #: 0 RO DATE: 09-13-2013		THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKING SLIP, PACKAGES & CORRESPONDENCE.		
CONTACT PERSON: JAMES ANDERSON PHONE: 044-26738787 FAX #: 044-26738989  E-MAIL: rk9962@gmail.com		SHIP TO: Jet Airways (India) Limited				
RMA # Jet Airways (India) Limited		RMA DATE	SHIP BY		INCO TERM	PAY TERM NET30
BUYER VishnucPrasad		PHONE :  FAX :	QUOTATION #: 4  ORDER CURRENCY: USD		DUE DATE 09-13-2013	APPROVED BY VishnucPrasad
<b>PART DETAILS</b>						
SL #	PART # PART DESCRIPTION	SERIAL # LOT #	QTY BER QTY	WORK REQUESTED	BER COST SALVAGE COST	REPAIR COST EXCH.COST
1	0-0511-3-0001:99DND HYDRO FILTER COUPLING	123	1 1	EA		

When parts are BER in the Repair Order: BER Qty, BER Cost, Salvage Cost will be displayed dynamically

Exchange Cost will be displayed

## WHAT'S NEW IN LOAN ORDER?

### Ability to view the Invoices raised against Loan Order

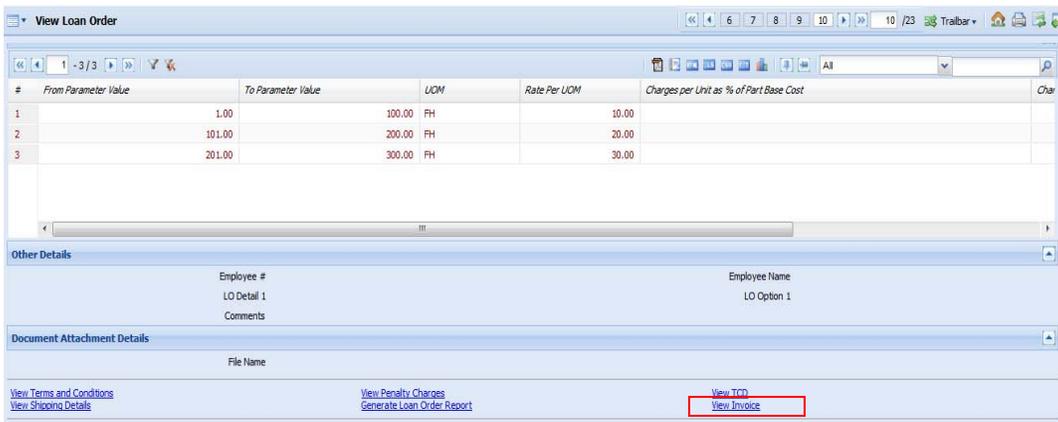
#### Background

Provision is required for Loan Administrator / Buyer to view Invoice raised against a Loan Order.

#### Change Details

A link 'View Invoice' is added in the View Loan Order screen. The link will launch the Select Invoice screen under **Supplier Order Based Invoice** business component where the list of invoices raised against the Loan Order will be retrieved and displayed.

#### Exhibit 1: Identifies the link "View Invoice" added in the View Loan Order screen



## **Ability to display the Supplier Name in Authorize Loan Order screen**

### **Background**

Currently, there is a visibility of the Supplier Code of the Supplier from whom the Parts are loaned in the Authorize Loan Order screen. However, a provision is required for user to view the Supplier Name along with the Supplier Code in the screen.

### **Change Details**

A new column 'Supplier Name' is added in the Search Results multiline in the Authorize Loan Order screen.

## WHAT'S NEW IN MATERIAL INQUIRY?

### Ability to display all pending returns arising out of Aircraft and Component Maintenance

*Reference: AHBD-2788*

#### Background

**View Material Count and Location Information** screen facilitates material inquiry for a part including its alternates. The count of part in Stock, Due In, Due Out, In-transit, Under Repair, On Loan etc., is displayed. Another aspect is that the screen displays information about the component parts that are removed but are not returned under 'Removed – Pending Return Qty'. However, business need from various customers is to show all the parts that are pending to be returned irrespective of whether it is component or non-component i.e., repairable, unused quantities etc., to be considered. It is vital to include and show this information so that it helps inventory controller to analyze float and stock positions as well facilitates Buyer to validate order quantity etc.

#### Change Details

In the **View Material Count and Location Information** screen, existing column "Removed – Pending Return Qty" has been renamed as "Pending Return Qty". The logic that considers only Component parts that are removed and not returned is modified to include non-component parts as well such that all parts pending to be returned arising out of Aircraft or Component Maintenance (Aircraft Maint. Exe. Ref. / Component Work Order) are considered. Also quantities of non-returnable parts that are not consumed or partially consumed are also included.

Similarly, in the Summary Information multiline, existing column "Total Removed – Pending Return Qty" is renamed as "Total – Pending Return Qty" and the sum of Pending Return Qty for the part and its alternates are displayed.

**Exhibit 1: Illustrates changes in View Material Count and Location Information Screen**

**Part Details**

Part # A16050-105      Stock UOM EA  
 Part Description STRUT AY-DRESSED SHOCK      Part Type Component  
 Part Control Type Serial Controlled      Part Category A/C PARTS

**Material Counts and Locations by Part Number**

#	Main / Alternate Part #	Loaned - Pending Return Qty	Loan Out Qty	Pending Return Qty	Issued - Not Attached Qty
1	A16050-105		0.00	0.00	1.00

**Summary Information**

#	Total Loaned - Pending Return Qty	Total Loan Out Qty	Total - Pending Return Qty	Total Issued - Not Attached Qty
1		0.00	0.00	1.00

 **Note**

- i. All main core parts (CWO main core) issued but yet to be returned will continue to be displayed under the 'In Shop Due Qty' column.
- ii. All parts with Issue Basis as 'Returnable' that has been issued against an Aircraft Exe. Ref. # and / or CWO # will continue to be displayed under the "Spares Due Qty." column i.e., no change in the existing logic.
- iii. Break up of quantity for the column "Pending Return Qty" will be provided in future releases.

## WHAT'S NEW IN MATERIAL REQUEST

### Ability to request parts for maintenance of a Facility Object

Reference: AHBE-1921

#### Background

Material Request is the document through which request for issuance of parts are placed with any Warehouse. A part can be issued for different reasons; maintenance of aircraft or component, for general maintenance of Facility Object / GSE etc.

While creating Material Request it is possible to specify Aircraft Reg. # or Component #, there is no provision to specify Facility Object #. Business need is to provide an ability to specify Facility Object # while requesting for parts for maintenance of the Facility Object.

#### Change Details

Facility Object # is added as an editable and help enabled field in **Create Material Request** and **Edit Material Request** screens. It is a non-mandatory field and user can specify Facility Object # while requesting parts for its maintenance. Validations are built in to ensure the Facility Object # if specified is valid and is in 'Active' status.

In the **Authorize Material Request** and **View Material Request** screens, Facility Object # is provided as a display only field.

In the **Select Material Request** screen under **View Material Request** activity, Facility Object # is provided as a drop down in the Search Criteria section, to facilitate user search for material request documents for the Facility Object #.

#### Exhibit 1: Identifies the changes in the Create Material Request screen

The screenshot displays the 'Create Material Request' interface. Key sections include:

- MR Details:** Contains fields for Material Request #, Need Date (27/06/2013), MR Class (Maintenance), Issue Option (Document Level), Remarks, Numbering Type (MR), Warehouse # (WH-HG-SER), MR Type (Planned), MR Category (NORMAL), Customer #, Status (Fresh), Warehouse Description (Hangar Services), MR Priority (Normal), User Status, and Customer Name.
- Copy Details:** A section for copying information.
- Additional Info:**
  - MR For:** Aircraft Reg #, Component #, Facility Object # (highlighted with a red box and containing 'TFAB-000027-2013'), Work Center # (ATL-104-05), Station #.
  - Ref. Doc. Info:** Ref. Document Type (Others), Ref. Document # (FWO-000075-2013), Requested by Emp. (01010), Requestor Name (Mary-Lynn Harney).
  - Other Info:** Account Usage (ADDITIONAL PARTS), Costing Usage (MATERIALS), Part Type, and a checked box for Hard Allocation Required.
- Part Details:** A table listing requested parts.

#	Requested Part #	Part Description	Reqd Qty	Reqd UOM	Stock Status	Preferred Condition	Request For	Require
1	115-313:SA251	0-1" OUTSIDE MICROMTR	1.00	EA	Accepted	New	Internal	Normal

**Exhibit 2: Identifies the changes in the Select Material Request (View Material Request) screen**

Select Material Request

Direct Entry

Material Request #  [View Material Request](#)

Search Criteria

Material Request #  Warehouse #  Status

MR Class Maintenance MR Priority Normal Need Date: From / To 27/05/2013 27/06/2013

MR Type  MR Category  Requested By

Ref. Document Type  Ref Document #  Customer #

Aircraft Reg #  Component #  Facility Object # TFAB-000027-2013

Part # / Mfr. Part #  MR on Hold?  Exchange MR?

Display Option Include New Parts

Search   View Part Info

Search Results

#	Material Request #	Line #	Part #	Mfr. Part #	Mfr. #	Part Description	Reason for Hold	Warehouse #	MR Class	MR Type
1	MR-000058-2013	1	115-313:SA251	115-313	SA251	0-1" OUTSIDE MICROMTR		WH-HG-SER	Maintenance	Planned
2	MR-000059-2013	1	0-20INCH:57163	0-20INCH	57163	GAUGE, 20" LONG BLOCK		WH-HG-SER	Maintenance	Planned
3	MR-000060-2013	1	PART_WSPACE	MFR_PART_WSPACE	36361	5" * ALL O8#1 RACK RACK		WH-HG-SER	Maintenance	Planned
4	MR-000061-2013	1	1008			Engine		WH-HG-SER	Maintenance	Planned
5	MR-000062-2013	1	015T1507-	015T1507-624	81205	#7 R/H SLAT		WH-HG-SER	Maintenance	Planned

**Exhibit 3: Identifies the changes in the View Material Request screen**

View Material Request

MR Details

MR Info

Material Request # MR-000170-2013 Status Authorized MR on Hold? No

Need Date 29/05/2013 Warehouse # WH-HG-SER Warehouse Description Hangar Services

MR Class Maintenance MR Type Unplanned MR Priority Normal

Issue Option Document Level User Status

Remarks Customer #

Exchange Info

Exchange Order # Exchange Entity Exch. MR for

Additional Info

MR For

Aircraft Reg # Component # Facility Object # ATL-104-05 Station #

Ref. Doc. Info

Ref. Document Type Others Ref Document # FWO-000023-2013 Requested by Emp. 01010 Requestor Name Mary-Lynn Harney

Other Info

Account Usage ADDITIONAL PARTS Costing Usage MATERIALS References Hard Allocation Required Yes

Part Details

#	Line #	Requested Part #	Mfr. Part #	Mfr. #	Part Description	Reqd Qty	Reqd UOM	Stock Status	Preferred Condition	Req.
1	1	015T1507-624	015T1507-624	81205	#7 R/H SLAT	1.00	EA	Owned		Inte

## Ability to Plan Material for MR raised in Offline System in Main Base (Online System)

Reference: AHBD-5785

### Background

Material Planning in Ramco application helps in planning the required quantities of a given material. The inventory planner ensures equilibrium between demand and supply of inventory in an organization. Material Planning becomes utmost important when part of an organization works in isolation i.e. through offline systems. With the release of offline field maintenance capabilities in Ramco Aviation Solution, managing unsatisfied material demand raised in Offline Base in the Main Base becomes imperative for efficient material planning without manual intervention.

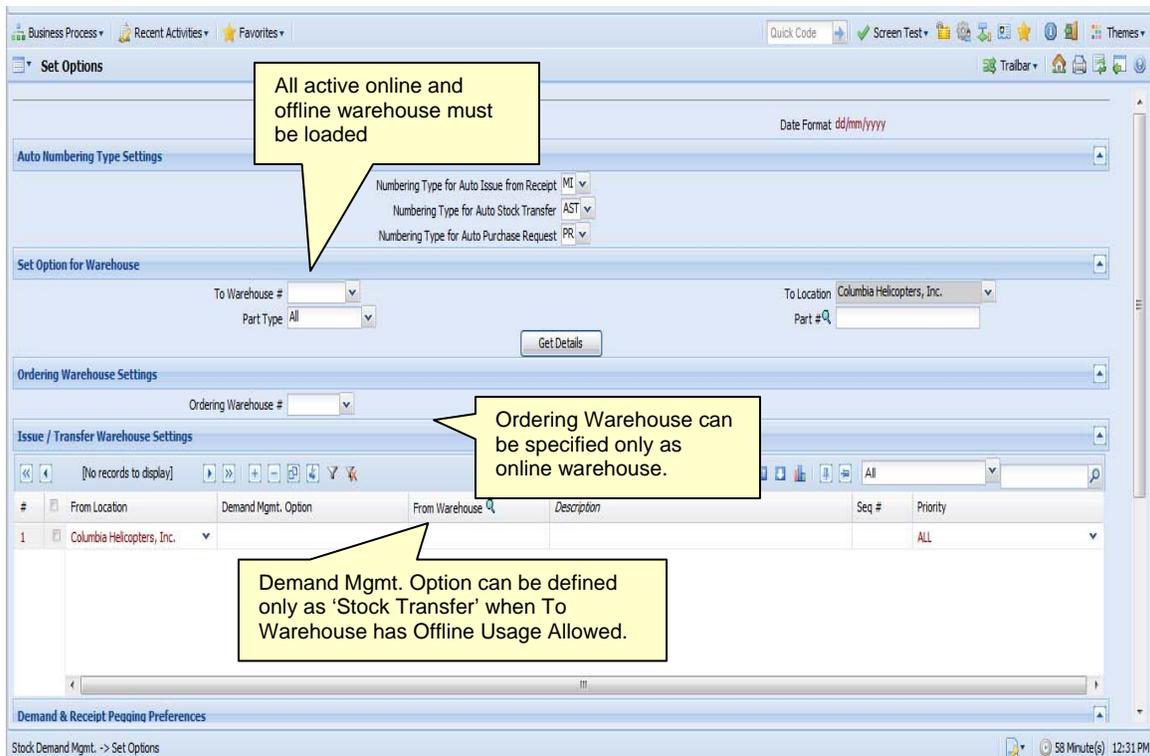
Currently, by virtue of data sync processes between Offline and Online Systems, unsatisfied material request raised in Offline System flows to the Main System. During the initial phase of development of Offline Field Maintenance system, the ability to initiate transfer or procurement of parts were restricted for these Offline Base MRs from the Main Base because of the complexities involved in managing entire material planning as the MR document could still be manipulated i.e., short closed etc., in the Offline System, and secondly the complexity involved in managing two-way data sync between Main Base and Field Base with respect to the same MR and its related documents i.e., Stock Transfer, Stock Transfer Issue, Purchase Request, Purchase Order etc. The imposed limitation have been addressed with this enhancement and Material Planner will be able to initiate transfer of parts as well facilitate procurement for Offline base material request.

### Change Details

**Stock Demand Management** business function that primarily manages unsatisfied demand and facilitates material planning is enhanced with the following changes,

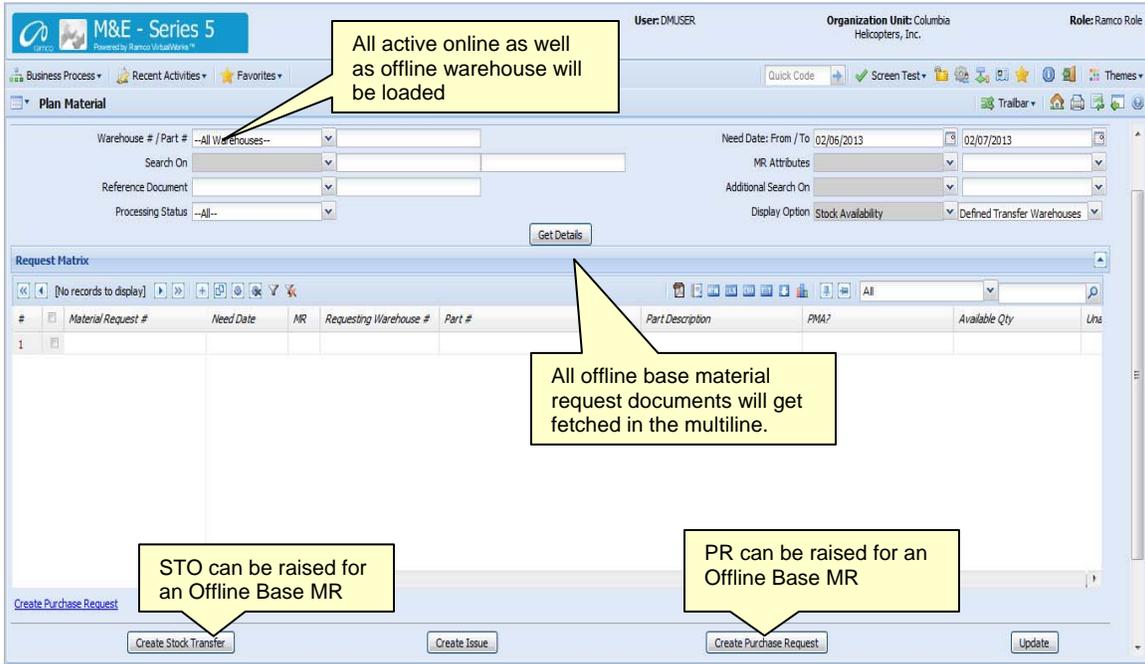
- i. Offline Warehouses are also loaded in the Warehouse # drop-down list box in Plan Material screen.
- ii. Unsatisfied Material Request generated in the Offline System are retrieved and displayed.
- iii. Initiating a Purchase Request and/or Stock Transfer is supported for Material Request generated in Offline System.
- iv. Offline Warehouse is allowed to participate in the demand management matrix with the Demand Mgmt. Option set as "Stock Transfer".
- v. Manual creation of PR against an Unsatisfied Offline Base MR is allowed.
- vi. Manual creation of STO against an Unsatisfied Offline Base MR is allowed.

## Impact in the Set Options screen under Stock Demand Management business component



- i. 'To Warehouse' drop-down list box will be loaded with all the warehouses in "Active" status, defined in the storage admin component organization-unit (OU) and for which Material Request Transaction has been set as allowed in Warehouse Master.
- ii. 'To Warehouse' drop-down list box will also load warehouses which can operate offline i.e., 'Allow Offline Usage' check box is selected though Material Request transaction is not mapped to the warehouse.
- iii. If 'Ordering Warehouse' is specified then for those warehouses offline usage must not be set as allowed in warehouse master i.e. Allow Offline Usage check box must not be selected for the warehouse # in interacting **Storage Administration** business component.
- iv. If offline usage is allowed for the warehouse selected in 'To Warehouse' then 'Demand Mgmt. Option' can be selected only as 'Stock Transfer' for all the warehouses in the multiline.

**Impact in the Plan Material screen under Stock Demand Management business component**

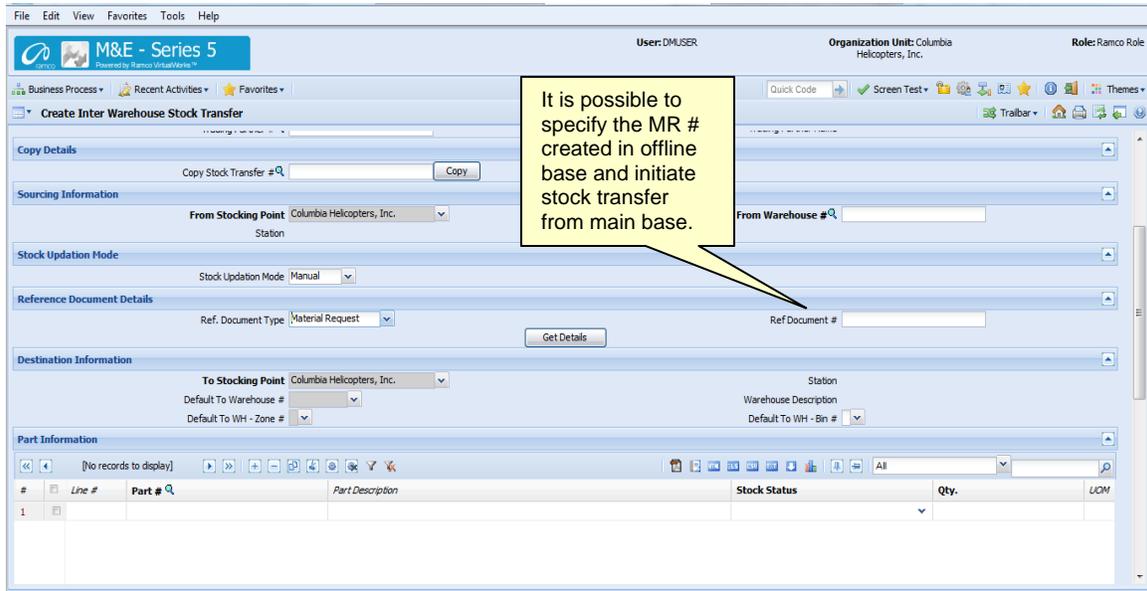


- i. Offline Warehouses will also be loaded in the Warehouse drop-down list box.
- ii. Based on Search parameters, offline base material request will also get fetched in multiline.
- iii. Material Planner can create Stock Transfer and/or Purchase Request for the offline base material request document.



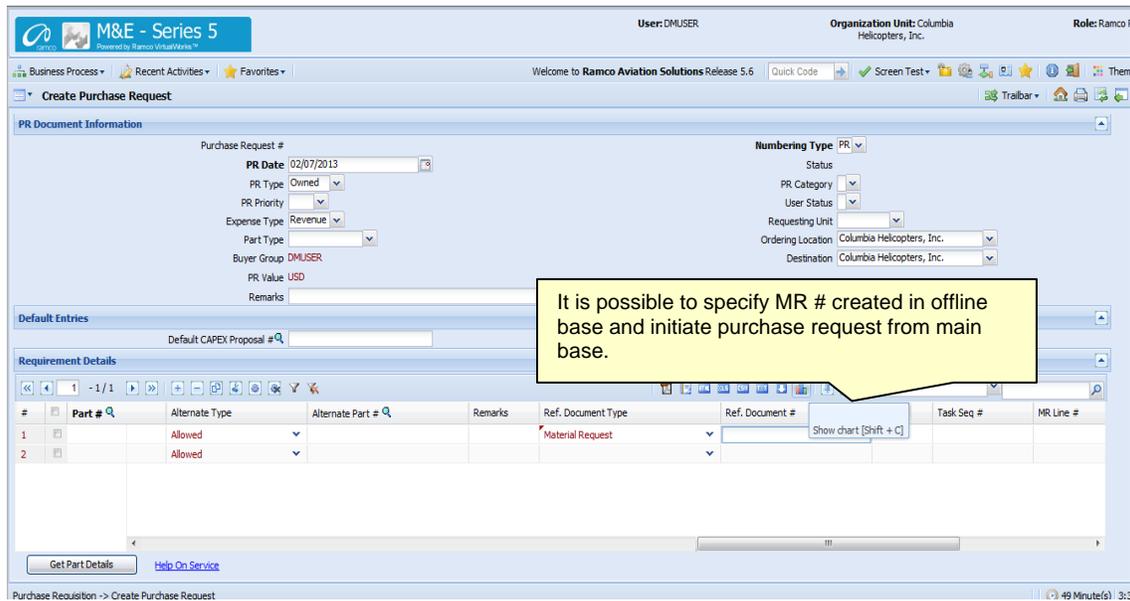
*Note: There will not be any restriction imposed in Offline System (Field Base) when the unsatisfied MR that had already flown to Main Base is short closed. It is possible that in Main Base, Material Planner could have initiated transfer or procurement of parts for the Offline Base MR. Only during subsequent data sync from Field Base to Main Base, the impact of short closure of the MR is managed. For Example, assume that a PR or STO has been created but it is not converted into a PO or parts are not issued. In this scenario, during data sync, PR and STO in Main Base will automatically be short closed i.e., similar to the way MR short closure is handled for any Main base MRs. Also, the MR that is short closed will be removed from the pending demand table. In case if parts are already issued and shipped or PO is released to the supplier then there will not be any impact except the MR being removed from Plan Material screen. The functionality has been built similar to the way how short closure of a Main Base MR is managed.*

### Impact in Create Inter WH Stock Transfer Screen



Existing validation that restricts providing an Offline Base MR as reference for transfer of parts from Main Base is removed.

### Impact in Create/Edit Purchase Request Screen



Existing validation that restricts providing an Offline Base MR as reference in a PR in Main Base is removed.

## Facility to allow only Replenishment MR to be created manually

Reference: AHBE-5037

### Background

Currently in Ramco Aviation Solution, Manual material requisition process supports three different MR Classes; General, Maintenance and Replenishment. These classes exist to support different business needs of various Airline/MRO organizations. Depending upon the need and organizational level processes that has been laid out, Mechanic and/or Inventory Controller raise a manual material request with appropriate MR Class.

While creating an MR from Material Request business component, user needs to manually select MR Class, system cannot restrict the user from selecting an incorrect value. For example, as an organizational level process, it is required that Manual MR is created only for stock replenishment. But user by mistake can select MR Class as General or Maintenance.

Currently, it is not possible to configure MR Class based on the organizations policy. In some customer implementations, procedural control through SOP are put in place or project specific validations are added through triggers etc.

In order to balance the conflicting business needs among customers of Ramco Aviation Solution, provision to configure MR Class applicable for a manual MR is provided.

### Change Details

To address the above requirement and facilitate configuring of the behavior changes based on business needs of different customers a new set option is provided. The option as explained below is added under the category “Material Request” in the **Set Inventory Process Parameters** activity in **Logistics Common Master** business component.

- i. MR Class allowed for manual Material Request
  - a. The option can take one of the following values; '0' for 'All' and '1' for 'General', '2' for 'Maintenance', '3' for 'Replenishment'. If the option is not defined exiting behavior of loading the MR Class drop down with the values General, Maintenance and Replenishment would continue. If a specific value is chosen then the particular MR Class alone will be loaded. For example, if the option is chosen as '3' then the MR Class will be loaded only with the value “Replenishment” in Create Material Request screen under Material Request business component.
  - b. The above option will also be influenced by another parameter 'Default MR Class for manual Material Request'. This option needs to be set in conjunction with the first option.

**Exhibit 1: Identifies the Option Settings added in the Set Inventory Process Parameters screen**

The screenshot shows the 'Set Inventory Process Parameters' screen for 'Material Request'. The interface includes a top navigation bar with 'Business Process: Procurement Management', 'User: DMUSER', 'Organization Unit: ABC Limited', and 'Role: ABC Role'. Below this is a search criteria section with a dropdown menu set to 'Material Request'. The main area displays a table of search results with columns for '#', 'Category', 'Parameter', and 'Permitted Value'. A callout box with the text 'Identifies the new option' points to the parameter 'MR Class allowed for manual Material Request' in row 5.

#	Category	Parameter	Permitted Value
1	Material Request	Default Issue Option for Material Request	Enter '1' for 'Document Level', '2' for 'Line Level'
2	Material Request	Default MR Class for manual Material Request	Enter '0' for 'Do not Default', '1' for 'General', '2' for 'Maintenance',
3	Material Request	Default Need Date for manual Material Request	Enter '0' for 'Do not Default', '1' for 'Current Date'
4	Material Request	Delivery date to be displayed for parts under procurement	Enter '1' for 'Due Date', '2' for 'Est. Arrival Date', '3' for 'Exp. Delive
5	Material Request	MR Class allowed for manual Material Request	Enter '0' for 'For All', '1' for 'General', '2' for 'Maintenance', '3'
6	Material Request	MR Need Date earlier than Current Date.	Enter '0' for 'Not Allowed', '1' for 'Allowed'
7	Material Request	Request For Defaulting Logic	Enter '1' for 'Internal', '2' for 'Customer', '3' for 'Internal & Custome
8			

## WHAT'S NEW IN GOODS INWARD?

### Facility to Generate Bar Code Label report for the Parts received

Reference: AHBE-2842

#### Background

Bar code label helps to identify parts, physically. During goods inward, it is required to print bar code label. The labels are kept along with the parts in the warehouse. Secondly, Bar code label should also display the Mfr. Lot #, which is the source lot, as unique internal lot # is generated when the part is moved / transferred, whereas the source Lot # doesn't change.

#### Change Details

A link to **Generate Part Barcode Label Report** is provided in the following screens.

- i. Manage Goods Receipt (Reports tab)
- ii. Inspect Parts (Reports tab)
- iii. Bin Parts

This link would launch the Bar Code Label report for the Parts that are received in the Goods Inward document.

In addition, the Display Option combo in the Reports tab is made to be loaded with a Blank value and a value 'Part Barcode Label' to facilitate retrieval of data for printing Part Tag, Bar Code, Routing Slip or Bar Code Label report.

#### Exhibit 1: Identifies the Generate Part Barcode Label link in the Reports tab

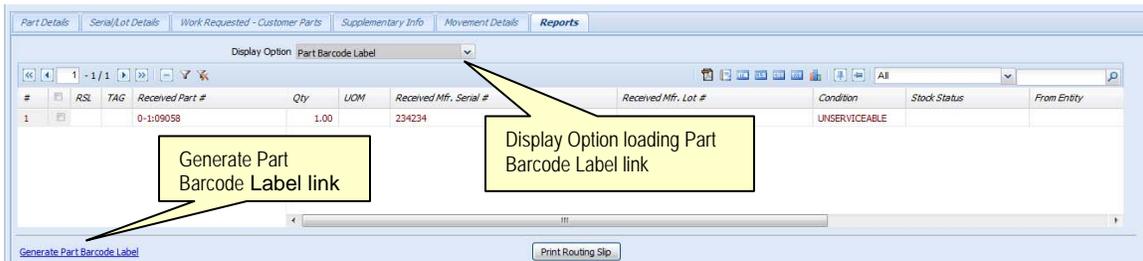


Exhibit 2: Identifies the Generate Part Barcode Label link in the Bin Parts screen

The screenshot shows the 'Bin Parts' application window. At the top, there are search criteria for 'Receiving Location' (DEN-HM), 'Receiving Warehouse #' (0123), and 'Search On' (Receipt #). Below this is a 'Default Details' section and a 'Binning Details' table. The table contains three rows of bin data. At the bottom left, a callout box points to a link labeled 'Generate Part Barcode Label'.

#	FACT	HAZ	Receipt #	Received Part #	Mfr. Part #	Qty	UOM	Stock Status	Condition	Warehouse #	Zone #	Bin #	Binning Comments
1	<input type="checkbox"/>	SRL	RGP0002182011	0-IINCHM4251	0-IINCH	1.000	EA	Owned	New	0123	01	1	
2	<input type="checkbox"/>	SRL	RGP0002182011	0-IINCHM4251	0-IINCH	1.000	EA	Owned	New	0123	01	1	
3	<input type="checkbox"/>	SRL	RGP0002182011	0-IINCHM4251	0-IINCH	1.000	EA	Owned	New	0123	01	1	
4	<input type="checkbox"/>												

## Intuitive Statuses

*Reference: AHBE-5550*

### Background

Receipts created through the Goods Inward process will remain in “Draft” status, until Serial/Lot details or Work Requested Details as applicable for the receipt/received parts is provided. Displaying the status as “Draft” does not provide the receiver a clear picture of the next/pending action for the Receipt document.

Business need is to display the Receipt Document and Part (Line) statuses more intuitive such that it would help the user understand the next action pending on the Receipt Document or the Received Part, similar to existing statuses like ‘Received-Pending Inspection’, ‘Accepted-Pending Movement’ etc.

### Change Details

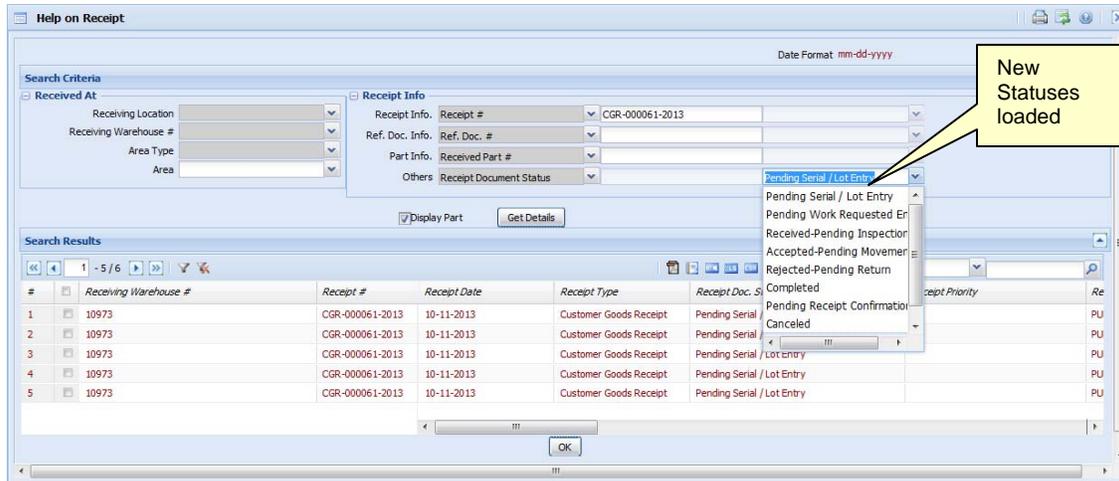
Receipt status ‘Draft’ is replaced with the statuses ‘Pending Serial/Lot Entry’ or ‘Pending Work Requested Entry’ depending upon the next action. Receipt status ‘Fresh’ is replaced with the status ‘Pending Receipt Confirmation’. In a similar way, Line Status is also enhanced to display the status as ‘Pending Serial/Lot Entry’, ‘Pending Work Requested Entry’, ‘Pending Receipt Confirmation’ etc. as per the next action applicable for the receipt line # i.e., Part.

With the introduction of this new feature, pending supplementary info data entry or quarantining of parts does not affect the Receipt Document or Line Status. The new status will continue to be one of ‘Pending Serial/Lot Entry’ or ‘Pending Work Requested Entry’ or ‘Pending Receipt Confirmation’. However, pending supplementary info data entry or quarantines awaiting resolution will continue to be displayed in the Other Info section of the Manage Goods Receipt screen.

The new statuses introduced will replace the existing statuses ‘Draft’ and ‘Fresh’ in the **Help on Receipt** screen. Secondly, various error messages available in the **Manage Goods Receipt** screen have been modified to reflect the new status.

As part of the enhancement, migration script to update the Receipt Line Status and Document Status of the Receipts that are currently in ‘Draft’ and ‘Fresh’ statuses is provided. This script shall update the Receipts with the modified statuses ‘Pending Serial/Lot Entry’ or ‘Pending Work Requested Entry’ or ‘Pending Receipt Confirmation’, as applicable.

**Exhibit 1: Identifies loading of the modified Receipt Statuses in the Help on Receipt screen**



## Ability to automatically navigate the user to respective Tab based on the Next Action

Reference: AHBE-4780

### Background

**Goods Inward** process has different tabs in a single screen to facilitate receiving of goods. This eases the work for the Receiving Clerk to a great extent. In order to make the process even more user-friendly, a new feature is provided to automatically navigate the User to the respective tab based on the Next/Pending action.

### Change Details

Two new set options are introduced under the category 'Goods Inward' in the **Set Inventory Process Parameters** screen to configure guided/automatic navigation in the **Manage Goods Receipt** and **Inspect Parts** screen. These options are,

- i. Guided Navigation in Manage Goods Receipt screen
- ii. Guided Navigation in Inspect Parts screen

The options can be set as 'Required' or 'Not Required'.

If it is set as 'Required', then user will automatically be navigated to the tab in which his/her action is pending depending on the following parameters,

- i. Receipt Document Status
- ii. Receipt Type (To show/hide the Work Requested tab)
- iii. Quarantine Information at Part or Serial/Lot or Work Requested Level
- iv. Supplementary Info flag
- v. Inspection Check-List flag

For example, upon creation of receipt where one or more part is serial/lot controlled, system will automatically navigate to the **Serial/Lot Details** tab and retrieve and display part information for which serial/lot needs to be provided. Earlier, after creating receipt, user needs to manually click on the Serial/Lot Details tab to provide serial/lot information. Similarly, for example, when user selects a receipt in 'Pending Serial/Lot Entry' or 'Pending Work Requested Entry' status and after entering the Receipt # when the Go button is pressed, system will automatically launch and default Serial/Lot Details tab or Work Requested tab as applicable.

Automatic/guided navigation is enabled in the following tasks.

**Manage Goods Receipt screen:**

- i. On Enter of Ref Doc #
- ii. On Enter of Receipt #
- iii. Click of Go button
- iv. Click of Record / Update Receipt button
- v. Click of Save button (Serial / Lot Details tab)
- vi. Click of Save button (Work Requested – Customer Parts tab)
- vii. Click of Confirm Receipt button

**Inspect Parts screen:**

- i. Page Launch
- ii. On Enter of Receipt #
- iii. On click of Record / Update Inspection button
- iv. Click of Save button (Supplementary Info tab)
- v. Click of Save button (Inspection Check List tab)
- vi. Click of Confirm Inspection button



**Note:**

- i. *If the option is set as 'Not required', then system will not automatically navigate to respective tabs, user need to do it manually.*
- ii. *If user quarantines a Part, at the Part Details or the Serial/Lot Details tab, the user will not be guided to the next tab as logically the next step would be resolve the quarantine and continue with receiving.*

Exhibit 2: Identifies the new option settings introduced in the Set Inventory Process Parameters screen

The screenshot shows the 'Set Inventory Process Parameters' window. At the top, it displays 'Date Format: mm-dd-yyyy' and 'Category: Goods Inward'. Below this is a search results table with the following columns: #, Category, Parameter, Permitted Value, Value, Status, and Error Message. A yellow callout box with the text 'New Option Settings' points to the 'Parameter' column.

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Goods Inward	Allocation required on	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
2	Goods Inward	Binning is a separate process	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
3	Goods Inward	Guided Navigation in Inspect Parts	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
4	Goods Inward	Guided Navigation in Manage Goods	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
5	Goods Inward	Receipt creation against invalid Re	Enter '0' for 'Not Allowed', '1' for 'Allowed'	1	Defined	
6	Goods Inward	Receiving Area for a Goods Receiving Warehouse	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
7	Goods Inward	Receiving Warehouse # different from Movement Warehouse #	Enter '0' for 'Not Allowed', '1' for 'Allowed'	1	Defined	
8	Goods Inward	Way Bill # for Ref. Document based Receipt	Enter '0' for 'Optional', '1' for 'Mandatory'	1	Defined	
9	Goods Inward	Zone/Bin info during parts movement from receiving/Insp. area	Enter '0' for 'Optional', '1' for 'Mandatory'	1	Defined	
10	Goods Inward	Zone/Bin info during receiving	Enter '0' for 'Optional', '1' for 'Mandatory'	0	Defined	

## Ability to update Inspection Information along with Confirmation of Receipt

Reference: AHBE-5329

### Background

Receiving of goods from a Supplier/Customer is a three staged process.

- i. Receiving
- ii. Inspection
- iii. Movement

There is a provision to automatically Move the Parts, for which Inspection is not required. But there is no provision to update inspection details automatically and user needs to manually enter inspection details.

However, as the case with some of the Operators, in small Field Bases there is only one person, who plays the role of Receiving Clerk, Inspector, and Mechanic etc. The part, certificate and other paper documents are physically verified and a receipt is created. Requiring the person to visit Inspect Parts screen after creating the receipt will be a redundant step in the process as verification etc. are already done.

Business need is to automatically update the inspection details instead of forcing the user to manually update it.

### Change Details

A check-box 'Update Inspection' has been added in the **Manage Goods Receipt** screen. This check-box will be enabled only for the users who have the access rights for the **Inspect Parts** screen of the Goods Inward business component.

Two new options; Default 'Update Inspection' check box and Default 'Move Parts' check box are added under the category 'Goods Inward' of the **Set Inventory Process Parameters** screen. If the option is chosen as 'Checked' then on click of 'Go' button, the 'Update Inspection' and / or 'Move Parts' check-box will be automatically checked. If the 'Confirm Receipt' button is clicked with the check-box 'Update Inspection' checked, then Inspection Details will be updated automatically and confirmed for the selected parts. Inspection Remarks will be saved as "Auto Update Inspection Info" if the Part is inspected by selecting the Update Inspection check-box.



*Note: If the Part selected for confirmation is a Component part, then the updation of inspection will happen only if the option setting 'Tech Records Update' in the **Set Inventory Process Parameters** screen is set as 'Optional' for the given Receipt Type. If the Inspection information is updated automatically for Component parts, the flag Records Update will always be set as 'Override'.*

Exhibit 3: Identifies the check-box added in the Manage Goods Receipt screen

The screenshot shows the 'Manage Goods Receipt' interface. At the top, there are tabs for 'Part Details', 'Serial/Lot Details', 'Supplementary Info', 'Movement Details', and 'Reports'. Below the tabs is a table with the following columns: #, , JNS, PCT, HAZ, STK, Received Part #, Pending Qty, Qty, UOM, No. of Lots, Comments, Part Description, Material Type, and Sto. The table contains five rows of data. Below the table are buttons for 'Get Storage Info...', 'Record/Update Receipt', 'Update Inspection', 'Move Parts', 'Confirm Receipt', and 'Cancel Receipt'. A yellow callout box with a speech bubble points to the 'Update Inspection' checkbox, containing the text: "Update Inspection' check-box".

#	<input type="checkbox"/>	JNS	PCT	HAZ	STK	Received Part #	Pending Qty	Qty	UOM	No. of Lots	Comments	Part Description	Material Type	Sto
1	<input type="checkbox"/>	Yes	SRL		Yes	0-1:50141		2.00	1.00	EA		0-1" OUTSIDE MICROMTR	Regular	Acc
2	<input type="checkbox"/>	Yes	SRL		Yes	1001		2.00	1.00	EA		Engine Blades	Regular	Acc
3	<input type="checkbox"/>	Yes	LOT		Yes	1020-3013669		2.00	1.00	EA	1	Glass Door	Regular	Acc
4	<input type="checkbox"/>	Yes	SRL		Yes	109300-10-01359		1.00	1.00	EA		YIR DRIVEN PUMP PUMP	Regular	Acc
5	<input type="checkbox"/>	Yes			Yes	AGE 13396:99167		1.00	1.00	EA		PIN DRIVER	Regular	Acc

## Ability to create and process Repair Receipt

*Reference: AHBE-5953*

### Background

The receiving process through **Goods Inward** business function facilitates receipt of goods against a Purchase Order, Release Slip and Customer Order. However, it does not support receipt of goods against a Repair Order. Repair Receipt is managed through a separate business component, **Goods Receipt**, wherein the user needs to visit multiple screens to complete the receipt. Though the underlying process for a PO based Receipt and RO based Receipt remains the same, user needs to visit two different business components to manage them. Moreover, if the same person/role who receives goods against a PO and RO, it becomes difficult to manage receipt when we look at the volumes of receipt on a given day.

With the introduction of this feature, Repair Receipt can also be created and processed using Manage Goods Receipt screen under Goods Inward business component, similar to the way PO based receipt is done.

### Change Details

Following changes are done to facilitate Goods Inward process manage receipt of parts against Repair Order.

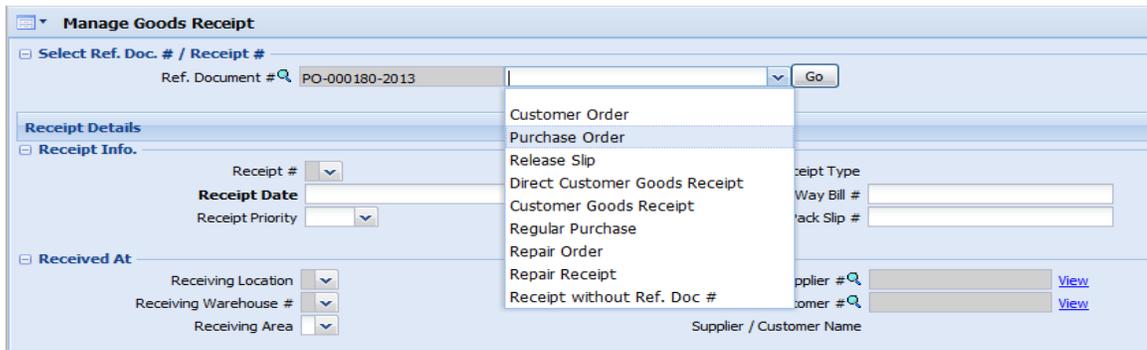
- i. Changes in Select Ref. Doc. # / Receipt # section
- ii. Changes in the Help screen to retrieve the Reference Documents
- iii. Option Settings under the Category "Goods Inward – Repair Receipt"
- iv. Addition of specific fields related to Repair Receipt in,
  - a. Manage Goods Receipt screen
  - b. Inspect Parts screen
  - c. Bin Parts screen
- v. Changes in the Status of Repair Receipt to suit the Goods Inward process
- vi. Changes in the process of Receiving / Inspection / Movement
- vii. Migration Scripts to migrate Repair Receipt from Goods Receipt to Goods Inward business component

**Changes in Select Ref. Doc # / Receipt # section:**

Currently, the 'Select Ref. Doc. # / Receipt #' section in **Goods Inward** comprises of two distinct controls 'Ref. Document #', 'Receipt #' to separate the mode in which the work is carried out (i.e.) Create mode or Edit mode.

This set-up is replaced with a single control 'Ref. Document #' which will serve as a control to retrieve both the Reference Documents against which Receipt could be recorded (viz. Purchase Order, Release Slip, Customer Order and Repair Order) and Receipts (viz. Regular Purchase, Customer Goods Receipt and Repair Receipt).In addition, the display only Receipt # field in the 'Receipt Info' section is modified to a drop-down that would be loaded with the values of the Receipts created against a given reference document (viz. Purchase Order or Release Slip or Repair Order or Customer Order), with the short code of the Receipt status concatenated with the Receipt #.

**Exhibit 1: Identifies the Select Ref. Doc. # / Receipt # section of Manage Goods Receipt screen**

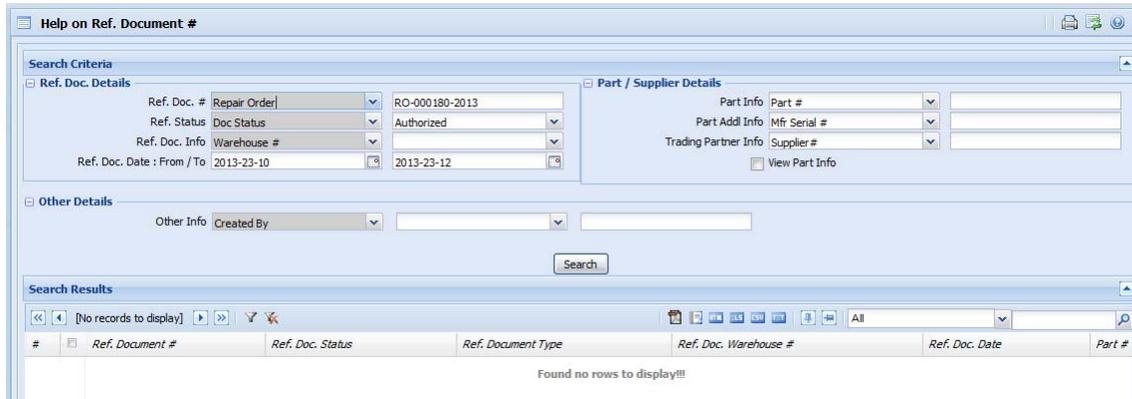


**Changes in the Help Screen to retrieve Reference Documents:**

The Help screen launched for the Ref. Document # control has been modified to support the retrieval of both the Reference Documents against which Receipt could be recorded and the Receipts. The Help screen for Ref. Document # has the following sections

- i. **Ref. Doc. Details** – Section with the Search Criteria related to the Document like Document Type, Document Date, Document Status, Warehouse #, Receiving Location, Priority, User Status and Category.
- ii. **Part / Supplier Details** – Section with the Search Criteria related to the Part and Trading Partner Information like Part #, Part Description, Mfr Serial #, Mfr Lot #, Serial #, Lot #, Component #, Supplier / Customer # and Name.
- iii. **Other Details** – Section comprising the Search Criteria like Document Created By, Part Category, Part Type, Part Classification, Primary Part Group, Way Bill #, Packing Slip #, Receiving Area, Inspection Area, Shipping Area, Scrap Area, Quarantined? and Quarantine Area.

**Exhibit 2: Identifies the new Help on Ref. Document # screen**



**Option settings under the category “Goods Inward – Repair Receipt”**

A new category “Goods Inward – Repair Receipt” is introduced in the **Set Inventory Process Parameters** screen of the Logistics Common Master business component and the option settings that are currently available in the **Purchase Option Settings** screen under the category “Repair Receipt” is added under this new category.

**Exhibit 3: Identifies the new option settings in Set Inventory Process Parameter screen**

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Goods Inward - Repair	Default Change Type for Part # / Serial # change	Enter '0' for 'Do not Default', '1' for 'Automatic'	1	Defined	
2	Goods Inward - Repair	Default Mfr. Lot #	Enter '0' for 'NO', '1' for 'Receipt #', '2' for 'Ref. Doc #'	1	Defined	
3	Goods Inward - Repair	Tech. Records update during Inspection	Enter '0' for 'Optional', '1' for 'Mandatory'	0	Defined	
4	Goods Inward - Repair	Update Change Basis for Component during inspection	Enter '0' for 'Not Allowed', '1' for 'Allowed'	1	Defined	
5	Goods Inward - Repair	Validate verified Tech. Records on Confirm Inspection	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
6	Goods Inward - Repair	Work Compliance Update	Enter '0' for 'Manual', '1' for 'Automatic'	1	Defined	
7						

**Addition of Repair Receipt related columns:**

In the **Manage Goods Receipt** screen, the following columns are added in different tabs.

- i. In the Part Details tab, the columns Core Return Option, Issued Mfr. Serial #, Issued Serial #, Issued Mfr. Lot #, Issued Lot # and BER are added.
- viii. In the Serial / Lot Details tab, the columns Change Type, Change Basis, Issued Part #, Issued Mfr. Serial #, Issued Serial #, Issued Mfr. Lot #, Issued Lot #, Issued Qty., Issued Component # and BER are added.
- ix. In the Movement Details tab, the column BER, To Stock Status, Work Order Type and Work Order # are added.

**Exhibit 4: Identifies the columns added in Part Details tab of Manage Goods Receipt screen**

The screenshot shows the 'Manage Goods Receipt' application window. The 'Part Details' tab is active, displaying a table with columns for receipt information. A yellow callout box points to the 'Received Part #', 'Ref. Doc. Part #', 'Issued Mfr. Serial #', 'Issued Serial #', 'Issued Mfr. Lot #', and 'Issued Lot #' columns, labeling them as 'New Repair Receipt Columns'.

#	NXT	INS	PCT	HAZ	STK	Received Part #	Ref. Doc. Part #	Issued Mfr. Serial #	Issued Serial #	Issued Mfr. Lot #	Issued Lot #	Unit Rate	Condition	Ref. Doc.
1	Mov					0108071:88308	0108071:88308	KS-S-84E6D5A9-E	KS-S-84E6D5A9-E				Overhauled	0123

**Exhibit 5: Identifies the columns added in Serial / Lot Details tab of Manage Goods Receipt screen**

**Manage Goods Receipt**

Select Ref. Doc. # / Receipt #  
 Ref. Document # ROR-000004-2013 Repair Receipt

**Receipt Details**

Receipt # ROR-000004-2013::P-MOV Receipt Type Repair Receipt Receipt Status Accepted-Pending Movement  
 Receipt Date 23/12/2013 Way Bill # ROR-000004-2013 Way Bill Date 24/12/2013  
 Receipt Priority Pack Slip # ROR-000004-2013 Pack Slip Date 24/12/2013

**Received At** Receiving Location MEM Receiving Warehouse # 0123 Receiving Area R1  
**Received From** Supplier # 00198 Customer # Supplier / Customer Name PRATT & WHITNEY CANADA  
**Ref. Doc. Info.** Ref. Doc. # REP-000007-2013 Ref. Doc. Type Repair Order Ref. Doc. Sub Type Normal

**Additional Details**

Part Details Serial/Lot Details Supplementary Info Movement Details Reports

Display Option All Line # - Serial / Lot # entered Receipt Line # Default Mfr. Lot #

#	PCT	SLF	CRT	Received Part #	Issued Part #	Issued Mfr. Serial #	Issued Serial #	Issued Component #	Component #	Issued Mfr. Lot #	Issued Lot #	Lot #	Issued Qty
1				0108071:88308	0108071:88308	KS-S-8#E6D5A9-E	KS-S-8#E6D5A9-E	A101209	A101209				1.00

In the **Inspect Parts** screen, the following columns are added in different tabs.

- i. In the **Part Details** tab, the columns Change Type, Change Basis, Issued Part #, Issued Mfr. Serial #, Issued Serial #, Issued Mfr. Lot #, Issued Lot #, Issued Component # and BER are added.
- ii. In the **Movement Details** tab, the column BER, To Stock Status, Work Order Type and Work Order # are added.
- iii. **Exhibit 6: Identifies the columns added in Part Details tab of Inspect Parts screen**

**Inspect Parts**

**Receipt Details**

Receipt # ROR-000004-2013 Receipt Type Repair Receipt Receipt Status Accepted-Pending Movement  
 Receipt Date 23/12/2013 Way Bill # Way Bill Date  
 Receipt Priority Pack Slip # Pack Slip Date

**Received At** Receiving Location MEM Receiving Warehouse # 0123 Receiving Area R1  
**Received From** Supplier # 00198 Customer # Supplier / Customer Name PRATT & WHITNEY CANADA  
**Ref. Doc. Info.** Ref. Doc. # REP-000007-2013 Ref. Doc. Type Repair Order Ref. Doc. Sub Type Normal

**Inspection Info**

**Additional Details**

Part Details Supplementary Info Inspection Check List Movement Details Reports

Display Option All Line # - Inspected Receipt Line #

#	INT	HAZ	SLF	CRT	ICL	PV	FRG	CFG	INS	Received Part #	Change Type	Change Basis	Operator #	Records Update?	Comments	Quar. Qty
1					NO				INS-	0108071:88308	Serial #	Modification		Override	Auto Update	

**Exhibit 7: Identifies the columns added in Movement Details tab of Inspect Parts (and Manage Goods Receipt) screen**

The screenshot displays the 'Inspect Parts' application window. The 'Movement Details' tab is active, showing a table with the following data:

#	HAZ	MID	Received Part #	Work Order Type	Work Order #	Work Center #	Material Request #	Stock Transfer #	Transfer to Warehou
1		NO	0108071:88308						

 *Note: The columns added in the Manage Goods Receipt and Inspect Parts screen shall be visible only if the Receipt Type is 'Repair Receipt'.*

In the **Bin Parts** screen, the column BER and To Stock Status are added.

**Exhibit 8: Identifies the columns added in Bin Parts screen**

The screenshot shows the 'Bin Parts' window with search criteria and a table of binning details. The search criteria include Receiving Location, Receiving Warehouse #, Search On (Receipt Type), and Repair Receipt. The table below shows the data for a single entry.

#	PCT	HAZ	Receipt #	Received Part #	Receiving Warehouse #	Receipt Type	BER	Receipt Line #	Line Status
1			ROR-00004-2013	0108071:88308	0123	REPAIR RECEIPT	No	1	Accepted

*Note: These columns added in the Manage Goods Receipt, Inspect Parts and Bin Parts screens shall retrieve the corresponding information from the Repair Order.*

*Changes in Repair Receipt status to suit Goods Inward process:*

*The current statuses of the Repair Receipt like Received, Receipt Frozen, Inspected, and Moved are replaced with the statuses analogous to them in the Goods Inward process like Pending Serial / Lot Entry, Pending Receipt Confirmation, Received – Pending Inspection, Accepted – Pending Movement, Accepted – Pending Binning, Rejected – Pending Return and Completed.*

**Changes in process of Receiving / Inspection / Movement for Repair Receipt:**

- i. The process of Recording / Modifying a Receipt, recording Serial / Lot details and Movement of Parts, all can be done in **Manage Goods Receipt** screen and
- ii. The process of Inspection of parts can be done in **Inspect Parts** screen of the Goods Inward business component.
- iii. The Confirmation of Receipt could be done at a Line Level
- iv. The Confirmation of Inspection could be done at Document Level
- v. The Movement of Parts could be done at Document Level

Apart from this, the Binning of Parts and the Quarantined Parts management could be done as a separate process by managing Repair Receipt in the Goods Inward process.

**Migration Scripts**

Migration script has been provided to achieve the following.

- i. To migrate the Common Categories available under the Category “Goods Receipt” to the Category “Goods Inward”
- ii. To migrate the Common User Statuses available under the User Status “Goods Receipt” to the User Status “Goods Inward”
- iii. To migrate the documents generated in the current Goods Receipt business component to the format suitable for the Goods Inward process
- iv. To disable the working in the Goods Receipt business component, once the documents are migrated to the new Goods Inward process

## Ability to receive a Modified part that is not defined as the Alternate for Issued part during Repair Receipt

*Reference: AHBE-9810*

### Background

Compliance of AD/SB during external repair on a Part could result in change of Part #. When a modified part is received after repair, system enforces the modified Part # to be defined as an alternate part to the original Part #. If the definition is not done, system restricts receiving a modified part through repair receipt.

However, there are business scenarios where the modified part is not an alternate to the original part. Hence, it is required to allow receipt of modified part though it is not defined as alternate to the original part.

### Change Details

In order to facilitate configuration of the feature based on business need of Airline/MRO organizations, a new set option "Validate Alternate Part definition for Modified Part #" is added under the category 'Goods Inward – Repair Receipt' in the Set Inventory Process Parameters activity in Logistic Common Master business component. The option can be set as "Yes" or "No".

If the option is set as "No", then, during receipt of a modified Part # after repair, system will not enforce the modified Part # to be defined as alternate to the original Part #. If the option is defined as "Yes", then, exiting logic would continue and the user should define the modified Part # as alternate to original Part #, prior to receiving.

Change in the logic has been handled in the following task buttons in Manage Goods

Receipt screen,

- i. Record / Update Receipt in Part Details tab
- ii. Save Serial / Lot Details in Serial / Lot Details tab.

Change in the logic has been handled in the following task buttons in Inspect Parts screen,

- i. Record / Update Receipt in Part Details tab



Note:

- i. Existing logic to define the received part as alternate to the issued part would continue if it is because of 'Exchange' with Repair Agency.
- ii. In the case of part modification, though the modified part need not be set as alternate to the original part based on option, validations are placed to ensure that Part Type, Part Control Type, Expense Type and UOM attribute of modified part is same as that of the original part.

**Exhibit 1: Identifies the option setting added in Set Inventory Process Parameter Screen**

The screenshot shows the 'Set Inventory Process Parameters' screen with search criteria set to 'Goods Inward - Repair Receipt'. The search results table is as follows:

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Goods Inward - Repair	Default Change Type for Part # / Serial # change	Enter '0' for 'Do not Default', '1' for 'Automatic'	1	Defined	
2	Goods Inward - Repair	Default Mfr. Lot #	Enter '0' for 'N0', '1' for 'Receipt #', 'Z' for 'Ref. Doc #'	1	Defined	
3	Goods Inward - Repair	Modification of Movement Type from 'Work Center'	Enter '0' for 'Not Allowed', '1' for 'Allowed'	0	Defined	
4	Goods Inward - Repair	Tech. Records update during Inspection	Enter '0' for 'Optional', '1' for 'Mandatory'	0	Defined	
5	Goods Inward - Repair	Update Change Basis for Component during inspection	Enter '0' for 'Not Allowed', '1' for 'Allowed'	1	Defined	
6	Goods Inward - Repair	Validate Alternate Part definition for Modified Part #?	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
7	Goods Inward - Repair	Validate verified Tech. Records on Confirm Inspection	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
8	Goods Inward - Repair	Work Compliance Update	Enter '0' for 'Manual', '1' for 'Automatic'	1	Defined	
9						

## Ability for the Inspector to modify the Manufacturer Serial #/Lot # during Inspection

*Reference: AHBE-9875*

### Background

The receipt of goods through the Goods Inward process in Ramco M&E involves three steps:

- i. Receiving (by a Receiving Clerk)
- ii. Inspection (by an Inspector)
- iii. Movement (by a Warehouse Clerk)

Currently, if the Manufacturer Serial #/Lot # for the received Part is identified and entered wrongly during the Receiving process, there is no way to correct it in the same receipt. The Inspector needs to reject the Parts in the receipt, just because the Manufacturer Serial #/Lot # is incorrect and the Receiving Clerk needs to create a New Receipt document for moving the Part to warehouse.

This being a time and effort consuming process, the Business Requirement is to facilitate the Inspector to modify the Manufacturer Serial #/Lot #, if found incorrect, thereby making the Receiving process even more efficient.

### Change Details

In order to facilitate the Inspector to modify the Manufacturer Serial #/Lot # for the received Part, the following changes have been made in the Inspect **Parts** screen of the Goods Inward business component.

- i. The current validation available to ensure that the Manufacturer Serial #/Lot # is not modified has been removed from the Inspect Parts task.
- ii. If the Receipt Type is "Regular Purchase", then the inspector would be able to modify the Manufacturer Serial #/Lot # of the received Part and the same shall be taken for the Movement process, once the Inspector confirms the Inspection.
- iii. If the Manufacturer Serial # is modified for the Component parts (that are new to the system) received, then the modified Manufacturer Serial # shall be updated in the Component record that is available for Inspection.

- iv. If the Receipt Type is 'Repair Receipt', then the inspector would be able to modify the Manufacturer Serial #/Lot # of the received Part, only if the Core Return Option is set in the Repair Order, as 'Serial # Change Allowed' or 'Part # and Serial # Change Allowed'.
- v. If the Manufacturer Serial # is modified for the Component parts (that are new to the system) received, then the modified Manufacturer Serial # shall be updated in the Component record that is available for Inspection.
- vi. If the Receipt Type is 'Customer Goods Receipt', then the Inspector would be able to modify the Manufacturer Serial #/Lot # of the received Part, only if there is no Customer Order reference available for that Part # - Manufacturer Serial #/Lot # combination.
- vii. In addition, a history is maintained for all the Manufacturer Serial #/Lot # changes and the Change Basis (applicable only for Repair Receipts) changes made by the Inspector.

## WHAT'S NEW IN LOAN / RENTAL RECEIPT?

### Ability to enforce Packing Slip & Way Bill based on Set option in Loan / Rental Receipt

Reference: AHBE-7546

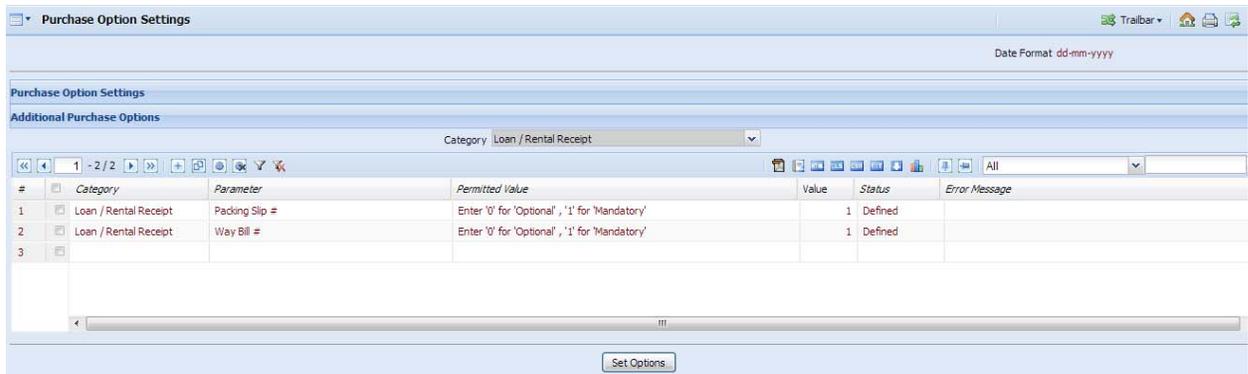
#### Background

Currently, system enforces entry of Packing Slip # and Way Bill # during Loan/Rental Receipt. However, requirement from few customers is to make these fields as non-mandatory because the information is not available or not relevant in few business scenarios.

#### Change Details

In order to facilitate configuration of the behavior change based on the need of different customers, two new set options are added under the Category 'Loan/Rental Receipt' in **Purchase Option Settings** activity in the **Logistic Common Master** business component. These options are "Packing Slip #" and "Way Bill #" and can either be set as "Mandatory" or "Optional". If it is set as "Optional" then entry of Packing Slip # and Way Bill # will not be enforced during Loan/Rental Receipt.

**Exhibit 1: Identifies the new set options "Packing Slip #" and "Way Bill #" added in Purchase Option settings activity.**



## WHAT'S NEW IN STOCK TRANSFER RECEIPT?

### Ability to print Bar Code Label report for the Parts received

Reference: AHBE-11264

#### Background

Currently, Ramco Aviation Solution does not support printing of Bar Code Label report for the Parts received through a Stock Transfer Receipt.

However, an ability to print the Bar Code Label receipt is required for the Stock transferred. In addition, the Bar Code Label report should display the Mfr. Lot # for the Lot Controlled Parts.

#### Change Details

In order to make the required features available, a link “Generate Part Barcode Label” has been added in the following screens of the Stock Receipt business component.

- i. Record Stock Transfer Receipt
- ii. View Stock Transfer Receipt

#### Exhibit 1: Identifies the link addition in the Record Stock Transfer Receipt screen

The screenshot displays the 'Record Stock Transfer Receipt' interface. At the top, there is a search bar for 'Stock Transfer Issue #' and a 'Get details' button. Below this, the 'Receipt Information' section is active, showing fields for 'Transfer Receipt #', 'Receipt Date' (07-05-2014), 'Receipt Warehouse #', 'User Status', 'Received By', 'Numbering Type' (SRC), 'Status', 'Receipt Category', 'Costing Usage', and 'Remarks'. The 'Trading Partner Information' section includes 'Trading Partner Type' and 'Trading Partner #'. The 'Default Values' section has 'Default Zone' and 'Default Bin'. The 'Attachments' section shows a 'File Name' field and a 'View File' button. At the bottom, there are three buttons: 'Record Transfer Receipt', 'Confirm Transfer Receipt', and 'Cancel Transfer Receipt'. A new link, 'Generate Part Barcode Label', is located at the bottom center of the screen.

## WHAT'S NEW IN STOCK RETURN

### Facility to search Maintenance and General Return documents for a Serial #

Reference: AHBE-3886

#### Background

Depending upon the type of maintenance activities on an Aircraft/Component, number of parts that are returned as Cores and/or Unused during or after maintenance activity will significantly vary. Timely accounting of return of parts is one of the primary activities of Logistics. Rotable which are serialized components has a special significance because of its high cost and more importantly the low inventory levels that are maintained. Inventory Controller needs an ability to view/review Return documents for a specific Serial #.

#### Change Details

A new control 'Mfr. Serial # / Serial #' has been added in the Search Criteria cluster in the entry screens of the following activities.

- i. Edit Return
- ii. Confirm Return
- iii. View Return

When user enters the Serial #, system retrieves all the return documents that match the specified Serial #. Wild card (\*) search is also supported.

#### Exhibit 1: Identifies the Mfr. Serial # / Serial # control added in Select Return screen under Edit Return activity.

The screenshot shows the 'Select Return' application window. At the top, there is a 'Direct Entry' section with a 'Return #' text box and an 'Edit Material Return' link. Below this is the 'Search Criteria' section, which contains several input fields and dropdown menus arranged in a grid:

- Return # (text box)
- Return Warehouse # (dropdown)
- Ref. Document Type (dropdown)
- Ref. Doc. Location (dropdown)
- Part # (text box)
- Return Type (dropdown)
- Return Category (dropdown)
- Return Basis (dropdown)
- Mfr. Serial # / Serial # (text box) - This field is highlighted by a yellow callout box with the text: "Mfr. Serial # / Serial # control is added in the Search Criteria cluster"
- Status (dropdown)
- User Status (dropdown)
- Trading Partner # (text box)
- Part Type (dropdown)

A 'Search' button is located at the bottom center of the search criteria section.

**Exhibit 2: Identifies the Mfr. Serial # / Serial # control added in Confirm Return screen**

The screenshot shows the 'Confirm Return' window. It features a 'Search Criteria' section with the following fields: Return # (text), Return Warehouse # (dropdown), Ref. Document Type (dropdown), Part # (text), Ref. Doc. Location (dropdown), Return Type (dropdown), Return Category (dropdown), Ref. Document # (text), Mfr. Serial # / Serial # (text), Return Basis (dropdown), User Status (dropdown), Return Basis (dropdown), Trading Partner # (text), and Part Type (dropdown). A 'Search' button is located below the fields. A yellow callout box points to the 'Mfr. Serial # / Serial #' field with the text: 'Mfr. Serial # / Serial # control is added in the Search Criteria cluster'.

**Exhibit 3: Identifies the Mfr. Serial # / Serial # control added in Select Return Document screen under View Return activity**

The screenshot shows the 'Select Return Document' window. It features a 'Direct Entry' section with a 'Return #' field and a 'View Material Return' link. Below it is a 'Search Criteria' section with the following fields: Return # (text), Return Warehouse # (dropdown), Ref. Document Type (dropdown), Part # (text), Return Type (dropdown), Return Category (dropdown), Ref. Document # (text), Return Basis (dropdown), Mfr. Serial # / Serial # (text), Status (dropdown), User Status (dropdown), Trading Partner # (text), and Part Type (dropdown). A 'Search' button is located below the fields. A yellow callout box points to the 'Mfr. Serial # / Serial #' field with the text: 'Mfr. Serial # / Serial # control is added in the Search Criteria cluster'.

## Ability to change part ownership during Unplanned Return

Reference: AHBE-9878

### Background

Aviation Industry is marked with complex supply chain and is characterized by dynamic relations with various suppliers and customers which effects part movement within and outside an organization. As result of the movement, part ownership as well changes between Operator/MRO, Supplier and Customer. To take account of these parts whose track of ownership is lost due to their continuous movement (exchange, lease, sale etc.,) over a period may require unplanned transactions to take it into stock when the parts are found in the vicinity with appropriate ownership. To cater to such business needs, Ramco application has Unplanned Return transactions. The business function is already capable of returning a Customer part as Operator/MRO owned part and vice versa. However, Business need is to enhance the capability to include Supplier ownership as well.

### Change Details

With the introduction this feature, user will be able to specify Supplier ownership for the parts that are returned through Unplanned Return transaction irrespective of the current ownership of the part i.e., Owned or Customer.



Note:

- i. *If the current ownership of the part is "Supplier" with Stock Status "PBH" then it cannot be returned as Owned/Customer.*
- ii. *Supplier ownership cannot be changed for a loaned part, if the Loan Order is not Closed.*
- iii. *Direct ownership change from one Supplier to another is restricted.*

## Ability to print Bar Code Label report for the Parts returned

*Reference: AHBE-11264*

### Background

Currently, Ramco Aviation Solution does not support printing of Bar Code Label report for the Parts received through a Stock Return (i.e.) General Return or Maintenance Return or Unplanned Return

However, an ability to print the Bar Code Label receipt is required for the Stock returned. In addition, the Bar Code Label report should display the Mfr. Lot # for the Lot Controlled Parts.

### Change Details

In order to make the required features available, a link "Generate Part Barcode Label" has been added in the following screens of the Stock Return business component.

- i. Issue Wise Return
- ii. Create General Return
- iii. Edit Return
- iv. View Return
- v. Create Unplanned Return
- vi. Edit Unplanned Return
- vii. View Unplanned Return

Exhibit 2: Identifies the link addition in the Edit Return screen

**Trading Partner Information**

**Part Information**

#	Line #	Issue Part #	Serial #	Lot #	Return Part #	Return Qty.	Return UOH	Return Stock Status	To Stock Status
1	1	10673HEPP3			10973HEPP3	2.00	EA	Accepted	Accepted
2									

**Other Details**

User Defined Detail - 1:

User Defined Detail - 2:

Remarks:

Returned By: 01001  Desmond Cesouze

**Attachments**

File Name:  [New File](#)

[Storage Information](#)

[Edit References](#)  
[Record Claim Compliance](#)  
[Generate Part Barcode Label](#)

[Update Component Condition](#)  
[Record Inspection Details](#)

[Confirm Return](#)  
[Generate Return Document Report](#)

## Ability to return a serviceable part without Certificate Information

*Reference: AHBE-11887*

### Background

Whenever a serviceable part is returned to the Inventory through Stock Return transaction certificate information needs to be provided for the returned parts. However, as the case with several operators, there are situations wherein the Mechanic / WH Clerk will not have the certificate information readily available for the parts that are returned. For example, components inducted using Aircraft Readiness Log. Business Need is to allow return of serviceable parts without certificate information which can be later updated using the Inspect / Re-certify Parts screen.

### Change Details

A new set option 'Certificate Information for Serviceable Parts' is added in the **Set Inventory Process Parameters** screen in the **Logistics Common Master** Business component under the category 'Stock Return'. The option can be set as either 'Mandatory (1)' or 'Non Mandatory (0)'.

If the option is not defined i.e., Blank, or is set as 'Mandatory' then certificate information needs to be entered for the serviceable parts returned if Certification Required flag is set as "Required" in **Maintain Planning Information** screen under **Part Administration** business component. If the option is set as 'Non-Mandatory', then, system will not enforce entry of certificate information for serviceable parts during return.

While returning parts via the **Record Part Consumption and Return** screen (launched from **Record Aircraft Maintenance Execution Details** or **Record Shop Execution Details**), system will not mandate Certificate Details. If the option is set as 'Non-Mandatory', then, return will be created in Fresh status. If the option is set as 'Mandatory', the return will be created in Draft status and the user can update the Certificate Details through Edit Return screen

**Exhibit 1: Identifies the new set option in the Set Inventory Process Parameter screen**

The screenshot shows the 'Set Inventory Process Parameters' window. The 'Search Criteria' section has 'Category' set to 'Stock Return'. The 'Search Results' section displays a table with the following data:

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Stock Return	Certificate information for Serviceable Parts	Enter '0' for 'Non-Mandatory', '1' for 'Mandatory'	1	Defined	
2	Stock Return	Mandate Lot # for Core Returns	Enter '0' for 'No', '1' for 'Yes'	0	Defined	
3	Stock Return	Return of Part - Serial # attached to an Aircraft / Component	Enter '0' for 'Not Allowed', '1' for 'Allowed for a Force Part CR'	1	Defined	
4						

*Note: Irrespective of the option setting certificate information will not be mandated in the following scenarios:*

- i. Return Warehouse is an Unserviceable Warehouse as defined in Material Inquiry Set Options activity in the Stock Maintenance business component*
- ii. Return Condition is 'Unserviceable' and 'Phase Out'*
- iii. Part is None Controlled*

## WHAT'S NEW IN STOCK ISSUE

### Link to Record Shipping Note screen from Confirm Issue screen

Reference: AHBE-5861

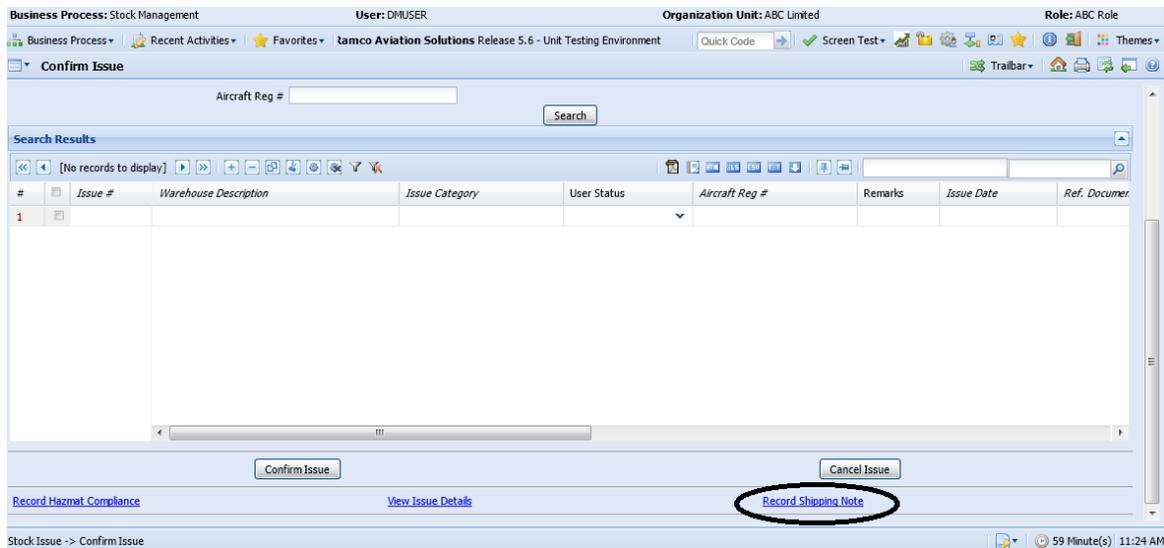
#### Background

In a main base warehouse, multiple roles manage the operations of warehouse. Parts that need to be shipped are moved to shipping area and Shipping Clerk takes care of shipping. This is not the case with a field base warehouse, which is mostly managed by one person. After confirmation of issue (stock transfer, loan, exchange etc.), in order to create shipping note, it is required to traverse to Record Shipping Note activity through the left pane. To address the usability issue for a field base operation, it is required to provide a link to Record Shipping Note screen from Confirm Issue screen.

#### Change Details

Link 'Record Shipping Note' is provided in **Confirm Issue** screen. This will eliminate the need to traverse to the left pane to create a shipping note after confirmation of issue to transfer stock etc. Please note, the link will not transfer the Issue # for creation of shipping note, but will help to avoid going to the left pane to reach Record Shipping Note screen. User need to note the Issue # and after launching the shipping note screen enter the Issue # to create shipping note.

#### Exhibit 1: Identifies the link 'Record Shipping Note' in Confirm Issue Screen



## **Ability to restrict confirmation of Issue when a component or its child is due for maintenance or retirement task compliance is recorded for any child components**

*Reference: AHBE-5871*

### **Background**

Typically, components in inventory that will become due for maintenance will be tracked and moved to unserviceable warehouse and routed for internal/external repair. If maintenance due is not tracked on time and the component is left in a serviceable warehouse, there is a possibility of the component being issued as spare for Aircraft/NHA maintenance. Issue of such component needs to be restricted. Secondly, as the case with certain operators, compliance of retirement task is recorded even though the component is attached with a parent. Issue of Component which has a child that is retired needs to be restricted.

### **Change Details**

During confirmation of a General or Maintenance Issue additional validations are added to restrict issuance of a component, when the component or any of its children is due for maintenance. In a similar way, issue is restricted with a validation, if retirement task compliance is recorded for anyone of the child components. However, if the condition of the component is 'Unserviceable' or if the component is issued as 'Main Core' the above validations will not be applied.

A new set option "Allow Issue of Serviceable Parts having Over-Due / Retirement Tasks?" is introduced in Common Master business component for all packages. This option can be set as "Allowed" or "Not Allowed". If the option is set as "Not Allowed" then



## WHAT'S NEW IN RECEIPT PEGGING?

### Ability to hard peg parts during receipt to the originating MR

*Reference: AHBE-73*

#### Background

Currently in Ramco Aviation Solution, at the time of goods receipt, received parts will be pegged to any open Material Request depending upon "MR Priority", "Need Date" etc. It is not necessary that the received parts pegged to the MR had triggered the procurement process through which the parts have been received.

Business need is to have the received parts pegged to the MR that had triggered the procurement process irrespective of whether other open MR with higher priority exists or not. Secondly, if procurement has already been initiated for a MR then it is not required to satisfy the MR with the excess quantities that could be available through receipt triggered by a different MR.

#### Change Details

A new set option "Prioritization of MR for receipt pegging" for the category "Stock Demand Management" is added in **Set Inventory Process Parameter** activity under **Logistics Common Master** Business Component. The option can take one of the following values: All MR, Originating MR followed by MR without PR or Originating MR followed by all other MR.

#### All MR

If the option is set as "All MR" or 'Blank' (not defined) , then during receipt, all other open material requests irrespective of whether the MR had triggered the procurement process or not will be considered and parts will be pegged to the MR which has the highest priority and earliest need date. Further, remaining quantities if available will move into stock. This is same as the existing logic.

#### Originating MR followed by MR without PR

If the option is set as "Originating MR followed by MR without PR", then during receipt, parts will be first pegged to the material request that had triggered the procurement process. After satisfying the triggering MR if there are remaining quantities, then all other open material requests which do not have a PR will be considered and parts will be pegged to the MR, which has the highest priority and earliest need date. After satisfying all such open MR if there are remaining quantities then it will be moved into stock.

### **Originating MR followed by all other MR**

If the option is set as “Originating MR followed by all other MR”, then during receipt, parts will be first pegged to the material request that had triggered the procurement process. After satisfying the triggering MR if there are remaining quantities, then all other open material requests irrespective of whether the MR has a PR or not will be considered and parts will be pegged to the MR which has the highest priority and earliest need date. Further remaining quantities if available will move into stock.



*Note: There is no change in the existing system behavior with respect to satisfying the material request that had triggered a stock transfer. During stock transfer receipt, after satisfying the material request that had triggered the stock transfer process, if there are remaining quantities, then based on the option set, parts can get pegged to MR with / without PR or to All MRs based on priority and earliest need date.*

## WHAT'S NEW IN MMD PRINTING?

### Ability to automatically print MMD report for Main Core Issue

Reference: AHBE-11074

#### Background

Currently, Ramco Aviation Solution has the capability to automatically generate issue document upon reservation of a part and print MMD to notify the Warehouse Clerk, regarding the parts that needs to be picked up and issued. However, in a scenario in which a Main Core part needs to be issued to the Work Center for against a Shop Work Order, Issue document is generated in Confirmed status, but MMD is not printed automatically.

Business need is to print the MMD report automatically for the Main Core issue document, though it is generated in Confirmed status.

#### Change Details

In order to facilitate automatic printing of MMD for a Main Core Issue document, an option setting 'Print MMD for Main Core Issue?' is added under the category 'Stock Management Report' in the Set Inventory Process Parameters activity.

If this option setting is set as '1 (Yes)', then an MMD document shall be printed automatically whenever a Main Core Issue happens to a Work Center.

As an exception to it, whenever the Unserviceable Main Core Part is moved from the Receiving Area to the Work Center directly during the Customer Goods Receipt

(Movement Type will be 'Repair'), then MMD will not be printed as 'Routing Slip', a document similar to MMD handles this scenario.

#### Exhibit 1: Identifies the option setting added in the Set Inventory Process Parameters activity

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Stock Management	Display Event # in MMD Report?	Enter: '0' for 'No', '1' for 'Yes'	1	Defined	
2	Stock Management	Display Part level Package Details in Shipping Note Report	Enter: '0' for 'No', '1' for 'Yes'	1	Defined	
3	Stock Management	Display Part level Remarks in Shipping Note Report	Enter: '0' for 'No', '1' for 'Yes'	1	Defined	
4	Stock Management	Print MMD for Main Core Issue?	Enter: '0' for 'No', '1' for 'Yes'	1	Defined	

## WHAT'S NEW IN MMD REPORT?

### Ability to display Event #, Customer / Supplier Name

Reference: AHBE-11170

#### Background

Currently, the MMD Report printed from Ramco Aviation Solution, displays the different information from the Issue document (against which MMD is printed) and the Request document which initiated the Issue.

Business need is to display the Event # (associated with the Customer Order / Shop Work Order #), Customer Name / Supplier Name, in addition to the current fields displayed.

#### Change Details

In order to facilitate display of Event #, an option setting “Display Event # in MMD Report?” is added under the category ‘Stock Management Report’ in the Set Inventory Process Parameters activity.

The permitted values for the option setting are ‘1 (Yes)’ or ‘0 (No)’. Based upon the value defined the ‘Event #’ will be visible in the MMD Report.

The display of Customer Name or Supplier Name will be governed by the display of the Customer # or Supplier #. If Customer # field is visible, then Customer Name will be visible too. Similarly, if Supplier # field is visible, then Supplier Name will be visible.

#### Exhibit 1: Identifies the option setting added in the Set Inventory Process Parameters activity

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Stock Management	Display Event # in MMD Report?	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
2	Stock Management	Display Part Level Package Details in Shipping Note Report	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
3	Stock Management	Display Part level Remarks in Shipping Note Report	Enter '0' for 'No', '1' for 'Yes'	1	Defined	
4	Stock Management	Print MMD for Main Core Issue?	Enter '0' for 'No', '1' for 'Yes'	0	Defined	
5	Stock Management	Print Supplier/ Customer Address info for Exchange, Loan,	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
6	Stock Management	Print Warehouse Address Info for Stock Transfer	Enter '0' for 'Not Required', '1' for 'Required'	1	Defined	
7						

## WHAT'S NEW IN SHIPPING NOTE?

### Ability to enforce RMA # in Shipping Note

*Reference: AHBE-10233*

#### Background

Typically, when an Operator/MRO Organization need to ship parts back to a Supplier or Customer, be it return of rejected goods, excess supplies etc., RMA # is obtained from respective Supplier or Customer before parts are shipped. However, system does not enforce entry of RMA # in Shipping Note and as a result the information is not passed to the Supplier or Customer through the Shipping Note Report which is sent along with the shipment. Business need is to enforce entry of RMA # in Shipping Note.

#### Change Details

To address the above requirement and facilitate configuring of the behavior changes based on business needs of different organizations new set options are introduced under the category "Shipping Note" in the **Set Inventory Process Parameters** activity in **Logistics Common Master** business component.

These options are as follows;

- i. RMA # for Receipt Based Shipping Note
- ii. RMA # for Issue Based Shipping Note
- iii. RMA # for Direct Shipping Note
- iv. RMA Date for RMA #

For each of the above option one of the following values can be set; Optional or Mandatory. If the option is set as Mandatory, then for all external shipments either based on Issue or Receipt, system will enforce entry of RMA #. RMA Date will be enforced if the option 'RMA Date for RMA #' is set as 'Mandatory'. For Direct Shipping Note created without reference to Issue or Receipt, entry of RMA # will be determined based on the option chosen for 'RMA # for Direct Shipping Note'.

**Exhibit 1: Identifies the new options added in the Set Inventory Process Parameters screen**

The screenshot shows the 'Set Inventory Process Parameters' application window. At the top, the title bar reads 'Set Inventory Process Parameters'. Below the title bar, there is a search criteria section with a dropdown menu set to 'Shipping Note'. The main area displays a table of search results for parameters related to shipping notes. The table has columns for '#', 'Category', 'Parameter', 'Permitted Value', 'Value', 'Status', and 'Error Message'. There are four rows of data, all with a status of 'Defined' and a value of '0'. A 'Set Parameters' button is located at the bottom of the window.

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Shipping Note	RMA # for Direct Shipping Note	Enter '0' for 'Optional', '1' for 'Mandatory'	0	Defined	
2	Shipping Note	RMA # for Issue Based Shipping Note	Enter '0' for 'Optional', '1' for 'Mandatory'	0	Defined	
3	Shipping Note	RMA # for Receipt Based Shipping Note	Enter '0' for 'Optional', '1' for 'Mandatory'	0	Defined	
4	Shipping Note	RMA Date for RMA #	Enter '0' for 'Optional', '1' for 'Mandatory'	0	Defined	

## WHAT'S NEW IN SHIPPING NOTE REPORT?

### Ability to display Part Level Remarks and Package Details

Reference: AHBE-11084

#### Background

Currently, the Shipping Note Report printed from Ramco Aviation Solution, displays the different information from the Shipping Note like Part #, Part Description, Ship to Address, RMA #, etc.

Business need is to display the Remarks and Package details provided for every Part in the Shipping Note Report along with the other details.

#### Change Details

In order to facilitate display of Part Level Remarks and Part Level Package Details, the following option settings are added under the category 'Stock Management Report' in the **Set Inventory Process Parameters** activity.

- i. Display Part level Remarks in Shipping Note Report
- ii. Display Part level Package Details in Shipping Note Report

The permitted values for both the option settings are '1 (Yes)' or '0 (No)'. Based upon the value defined the Part Level Remarks and/or the Part Level Package Details will be visible in the Shipping Note Report.

#### Exhibit 1: Identifies the option settings added in the Set Inventory Process Parameters activity

The screenshot shows the 'Set Inventory Process Parameters' application window. The 'Search Criteria' section is set to 'Category: Stock Management Report'. The 'Search Results' section displays a table with the following data:

#	Category	Parameter	Permitted Value	Value	Status	Error Message
1	Stock Management	Display Event # in RMD Report?	Enter '0' for 'No', '1' for 'Yes'		1 Defined	
2	Stock Management	Display Part level Package Details in Shipping Note Report	Enter '0' for 'No', '1' for 'Yes'		1 Defined	
3	Stock Management	Display Part level Remarks in Shipping Note Report	Enter '0' for 'No', '1' for 'Yes'		1 Defined	
4	Stock Management	Print RMD for Main Case Issue?	Enter '0' for 'No', '1' for 'Yes'		1 Defined	
5						

**Exhibit 2: Identifies the Shipping Note Report with the Part Level Remarks and Package Details**

Part Details						
SI #	Part # Part Description	Quantity UOM	Mfr.Serial # Mfr.Lot #	RMA # Date	Unit Cost Currency	Value
1	0-0440-4-0015:36361 PS9323 CARRIER	1.00 EA	SLQW1		\$0.48 CAD	\$0.48
Shipping Note Ref. Docs: Stock Transfer # :ATST-000007-2014, Issue # : ATI-000016-2014						
<div style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <p><b>Package Details :</b> Handle with care</p> <p><b>Remarks :</b> Shipment has been initiated on 03rd March. Billable Freight. Charge 10 USD.</p> </div>						

## WHAT'S NEW IN STOCK TRANSFER

### Facility to search stock transfer order based on specific serial or issue serial

*Reference: AHBE-3792*

#### Background

Transfer of stock from one warehouse to another is inevitable in Airline/MRO Operations spread across geographical locations. Parts are primarily transferred to ensure timely maintenance of Aircrafts/Components and to optimize inventory levels across locations. Among different parts, Rotable which are serialized components has a special significance in this industry because of its high cost and more importantly the low inventory levels which are maintained. Inventory Controller needs an ability to view/review Stock Transfers for a specific Serial #.

#### Change Details

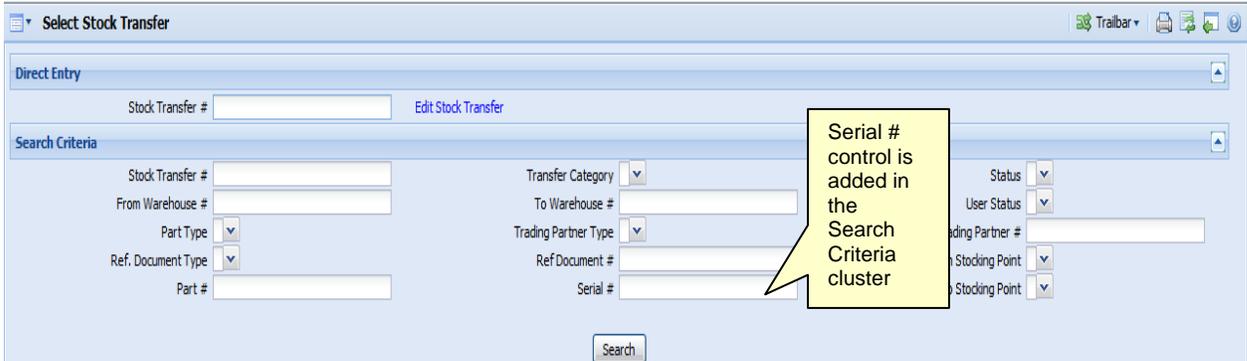
A new control 'Serial #' has been added in the Search Criteria cluster in entry screens of the following activities:

- i. Edit Inter Warehouse Stock Transfer
- ii. Authorize Inter Warehouse Stock Transfer
- iii. View Inter Warehouse Stock Transfer
- iv. Inquire Inter Warehouse Movement Status

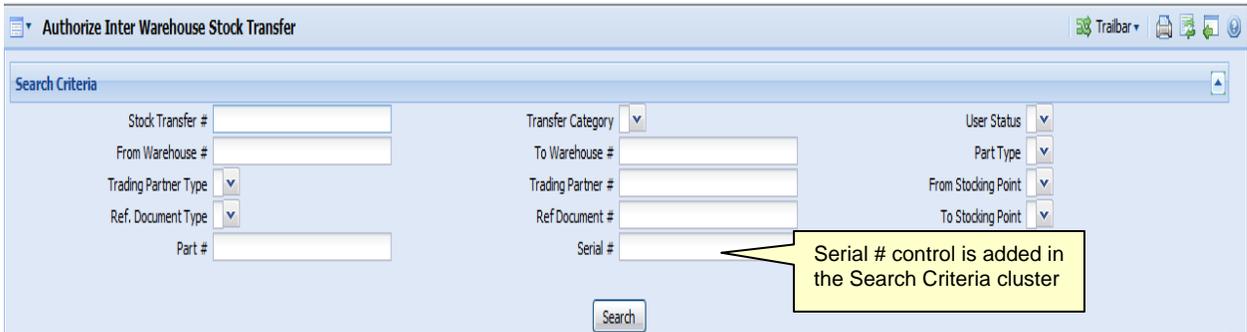
In Edit Inter Warehouse Stock Transfer entry screen and Authorize Inter Warehouse Stock Transfer screen, if the Serial # entered matches the Specific Serial # entered in the Stock Transfer Order then those documents will be retrieved. Wild card (\*) search is supported.

In View Inter Warehouse Stock Transfer entry screen and Inquire Inter Warehouse Movement Status screen, apart from the Specific Serial # entered in the Stock Transfer Order, those Serial # in the corresponding Stock Transfer Issue will also be considered. Here as well, wild card (\*) search is supported.

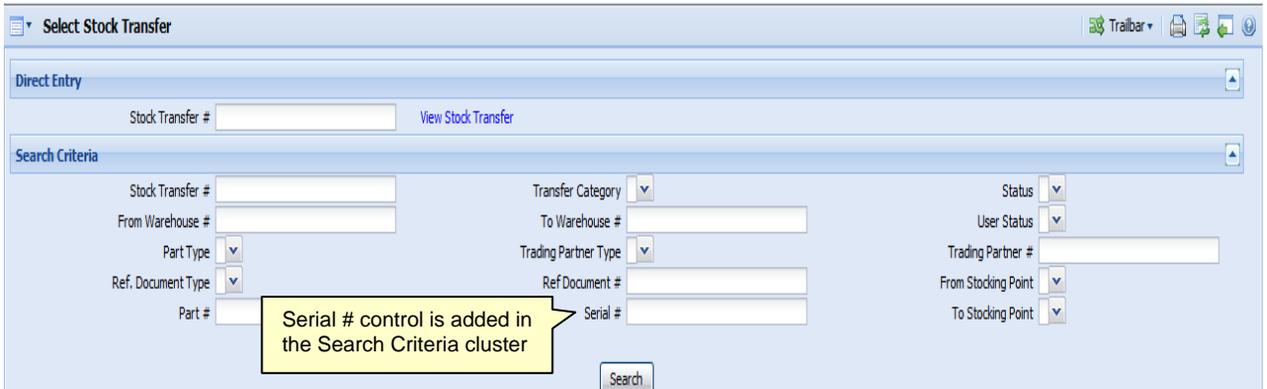
**Exhibit 1: Identifies the new control Serial # added in the Select Stock Transfer screen under Edit Inter Warehouse Stock Transfer activity**



**Exhibit 2: Identifies the new control Serial # added in the Authorize Inter Warehouse Stock Transfer screen**



**Exhibit 3: Identifies the new control Serial # added in the Select Stock Transfer screen of View Inter Warehouse Stock Transfer activity**



**Exhibit 4: Identifies the new control Serial # added in the Inquire Inter Warehouse Movement Status screen**

The screenshot shows a software interface titled "Inquire Inter Warehouse Movement Status". It features a "Direct Entry" section with a "Stock Transfer #" field and a "View Issue and Receipt Details" link. Below this is a "Search Criteria" section containing several input fields and dropdown menus: "From Warehouse #", "Part Type", "To Stoding Point", "Transfer Category", "To Warehouse #", "Trading Partner Type", "Serial #", "Status", "User Status", "Trading Partner #", and "From Stoding Point". A yellow callout box with a pointer to the "Serial #" field contains the text: "Serial # control is added in the Search Criteria cluster". A "Search" button is located at the bottom of the search criteria section.

## WHAT'S NEW IN STOCK TRANSFER?

### **Ability to consider unserviceable quantities during Inter Warehouse Stock Transfer**

*Reference: AHBE-9828*

#### **Background**

Currently, while creating an Inter Warehouse Stock Transfer, if specific condition is not chosen for the part, system excludes the Unserviceable quantities that are available in stock. In order to transfer Unserviceable quantities, user needs to manually select the Condition as "Unserviceable" in the Stock Transfer Order and initiate transfer. Business need is to consider entire quantities of the part available in stock in the warehouse irrespective of the part condition, if specific condition is not chosen. This feature will ease transfer of stocks between two unserviceable warehouses.

#### **Change Details**

Existing logic that excludes quantities in Unserviceable condition from being considered for stock transfer purposes if preferred condition not chosen is modified to include the Unserviceable quantities. However, existing logic would continue if the stock transfer is initiated with reference to satisfying a pending Material Request on a Serviceable warehouse.

## WHAT'S NEW IN STOCK CORRECTION?

### Facility to specify Reason for Correction in Stock Correction Document

*Reference: AHBE-3936*

#### Background

Maintaining inventory accurately is an important activity for Airline/MRO operations; so that disruptions to planned maintenance activities can be avoided and unwanted AOG because of part-not-available can be minimized. It is important to access the accuracy of inventory through regular Cycle Counting process and correct any discrepancy in stock as required through stock correction. Any adjustment to stock, be it quantity or value is managed through Stock Correction document. Today's business requires, Inventory Controller / WH Manager to choose appropriate codified reason for Stock Correction, so that, over a period in time it can be analyzed and corrective/preventive action as appropriate can be initiated.

Ability is required to specify the 'Reason' for Stock Correction. Secondly, Expiry Date needs to be made available in the Edit Serial/Lot Details screen to improve usability, particularly when new Serial/Lot is specified for shelf life parts i.e., during positive correction.

#### Change Details

To facilitate user organizations to specify the standard list of reasons that can be used during of stock correction, in the **Create Reason Code** and **Edit Reason Code** screens under **Logistics Common Master** business component, Stock Correction is introduced as a new value in the '**Reason Code Type**' drop down.

In the **Create Stock Correction** and **Edit Stock Correction** screens under **Stock Maintenance** business component, 'Reason for Correction' drop down column is added in the multiline. Secondly, a similar drop down has been provided in the **Edit Serial/Lot Details** screen. The new drop down will be loaded with reason code specified for the Reason Code Type "Stock Correction" in **Create Reason Code** activity.

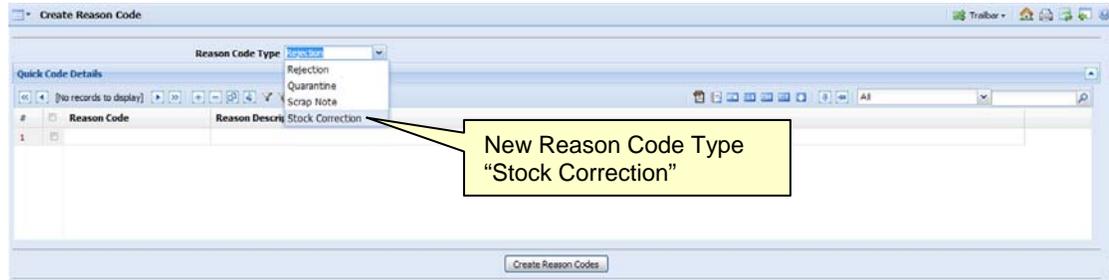
In order to have the system configured to enforce user to select 'Reason for Stock Correction' a new option is provided in the **Set Inventory Process Parameter** activity under **Logistics Common Master** business component. The new option is named as "Reason for Stock Correction". The option can be set as "Mandatory" or "Non-Mandatory". During stock correction, system will enforce user to select the "Reason for Correction" if the option is chosen as "Mandatory".

For Serial/Lot Controlled Part, in a scenario where data entry is mandatory in the Edit Serial/Lot Details screen, user can choose the value for 'Reason for Correction' at the Serial/Lot level, here selecting a Reason at the part level is optional. In case if user has not chosen a value for Reason at the part level, system will enforce user to provide it as the Serial/Lot level. It is possible to select different reasons for different Serial/Lot. On the

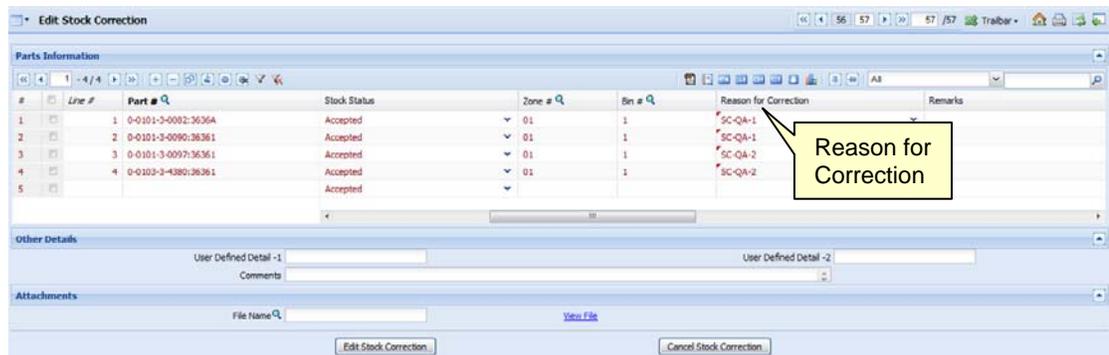
other hand, if a value is chosen at the part level then it will automatically be copied to the Serial/Lot if user has not chosen any value for the Serial/Lot.

Also, in Edit Serial/Lot Details screen and Edit Value Details screen, link to 'Authorize Stock Correction' has been provided to improve usability.

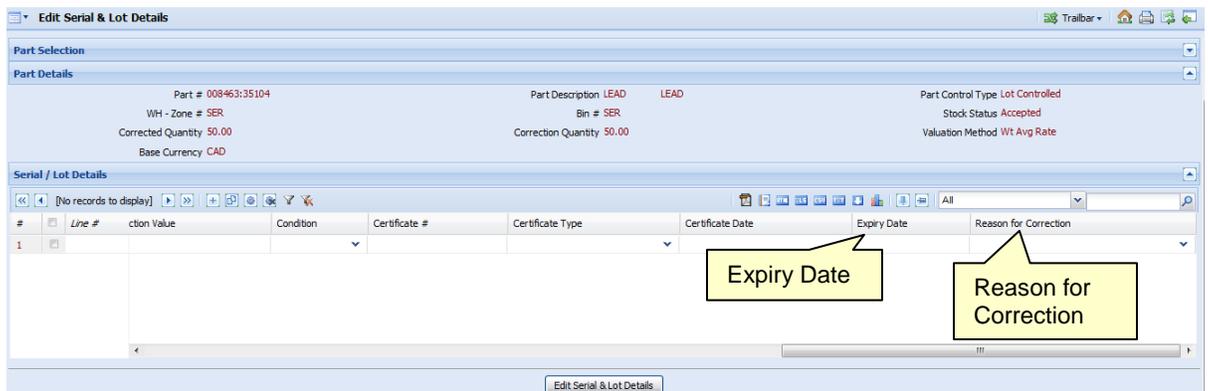
**Exhibit 1: Identifies the new Reason Code Type 'Stock Correction' added in Create Reason Code activity**



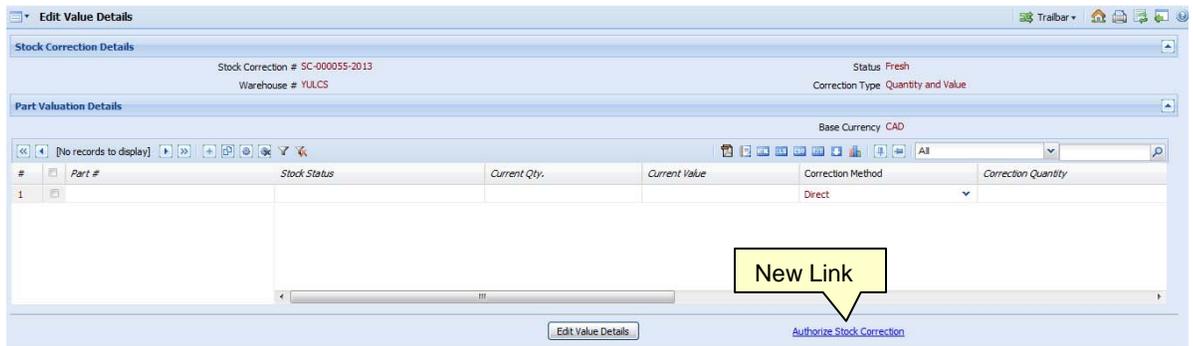
**Exhibit 2: Identifies the Reason for Stock Correction drop down added in Edit Stock Correction screen**



**Exhibit 3: Identifies the Reason for Stock Correction & Expiry Date column drop down added in Edit Serial/Lot Details screen**



**Exhibit 4: Identifies the link Authorize Stock Correction provided in Edit Value Details screen**



Apart from manually raising a stock correction, the system will automatically generate stock correction during Part Data Change or Adjusting Invoice Price Variance to stock. Since these documents are generated automatically for specific reasons, following system defined values are introduced as Reason code for Stock Correction.

- i. Part Data Change
- ii. Invoice Price Variance

The stock correction documents generated automatically for Data Change will have 'Part Data Change' updated as the Reason for Stock Correction and one generated to adjust price variance will have 'Invoice Price Variance' as reason.

## WHAT'S NEW IN STOCK MAINTENANCE?

### Ability to retrieve all Part – Serial / Lot Information in a given Warehouse

*Reference: AHBE-7699*

#### Background

Help on Serial # / Lot # Information screen facilitates user to identify correct Serial # / Lot # for a Part in the given Warehouse. However, in many Inventory and Maintenance transactions, user would like to see all the Serial/Lot available across parts in the Warehouse. For example, the Backflush process, in which the user will be interested to see the list of part - serial / lot that are consumed and required to be back flushed, instead of identifying Serial # by Serial # or Lot # by Lot # for each parts he/she had used. Business need is to enhance the capabilities of Help on Serial # / Lot # Information screen such that user is able to view all the serial / lot information for the parts in one instance. This feature will enhance usability to a great extent and prevent user visiting Serial / Lot help screen for each part # separately.

#### Change Details

In order to facilitate a comprehensive view of part – serial / lot availability in any warehouse, Warehouse # , Zone # and Bin # fields in Storage Information section are modified from display only to editable fields, such that user could enter or modify the Warehouse or provide Zone / Bin to refine the search.

Secondly, the controls in Search Criteria section have been modified giving users more options to customize the search results. Part #, Mfr. Part #, Mfr. # and Part Description fields have been made as editable fields, earlier these were display only fields. Stock Status has been modified from display only field to a drop down field and all the active stock status defined in User Defined Stock Status business component are loaded. In addition to it, Condition combo has also been added. In Search Results multiline, UOM column has been added.

Search logic has been modified to consider these changes and accordingly retrieve the matching Serial/Lot details. Please note, if Part # field is left blank, then based on other search parameters system will fetch results all the Part # - Serial # / Lot # information.



*Note: It is suggested to use a combination of search criteria with a Warehouse context always. Avoid doing a blank search across warehouses and parts.*

Exhibit 1: Identifies the enhancement in Serial # / Lot # Information screen

The screenshot shows the 'Serial # / Lot # Information' window. The 'Storage Information' section contains fields for Warehouse # (0123), WH - Zone #, and Bin #. The 'Search Criteria' section includes fields for Part #, Mfr. Part #, Mfr. #, Part Description, Stock Status, Condition, Expiry Date Till?, Shelf Life <=, Display Option (Within Warehouse), Trading Partner Type, Trading Partner #, Source Document #, Parameter (Not Applicable), Parameter Value: From, Parameter Value: To, and Manufacturer Serial #. A 'Get Details' button is located below the search criteria. The 'Search Results' section displays a table with columns for #, Lot #, Manufacturer Lot #, Part Serial #, Manufacturer Serial #, Part #, Q, Condition, Warehouse #, Bin #, and Trading Partner #. A yellow callout box points to the Warehouse #, Part #, and Condition fields, stating: 'Warehouse and Part level fields have been made as editable. Condition combo has been added.'

#	Lot #	Manufacturer Lot #	Part Serial #	Manufacturer Serial #	Part #	Q	Condition	Warehouse #	Bin #	Trading Partner #	
323			VC-002	VC-002	131H007511	1.00	EA	Serviceable	0123	01	1
324			VC-003	VC-003	131H007511	1.00	EA	Overhauled	0123	01	1
325			VC-004	VC-004	131H007511	1.00	EA	Overhauled	0123	01	1
326			vg1	vg1	EXP-1	1.00	EA	New	0123	01	1
327			vg2	vg2	EXP-1	1.00	EA	New	0123	01	1
328			vg3	vg3	EXP-1	1.00	EA	New	0123	01	1

## Ability to include consumption of PBH stock in View Part Supply Chain Performance screen

Reference: AHBE-7704

### Background

Part Supply Chain Performance screen facilitates review of various information for a Part; Sourcing, Purchase History, Repair History, Stock Availability, Open Orders, Pending Demands, Surplus Order Qty, Replenishment and Consumption information. Typically, Buyer reviews supply chain performance for a part before placing an order.

PBH contracts are gaining significance and are very common among Airline/MRO Operations. Ramco has an extensive framework to manage PBH parts. But, when it comes to review of consumption history a part, PBH stock is excluded. Business need is to include PBH stock while displaying the consumption information for a part.

### Change Details

Logic of determining the consumption information for the previous 12 month for a part in the **View Part Supply Chain Performance** screen is modified to include PBH stock in addition to Owned stock.

### Exhibit 1: Identifies Consumption info section of View Part Supply Chain Performance



## **Ability to view Part Name Plate for a specific Part # - Serial # / Lot #**

*Reference: AHBE-8145*

### **Background**

Information on a specific Part – Serial / Lot is spread out in different parts of the application based on the functional areas, transactions etc. This information can be viewed through respective screens like Inquire Stock Availability, View Component Record etc., provided under Stock Maintenance and Aircraft business components. Amongst several information pertaining to a specific Serial / Lot #, it is desired to have the following information logically grouped and displayed in one screen to facilitate quick review / decision making. These are Location (within and outside inventory), Ownership and Condition, Certificate, Expiry Date, Next Maintenance Due / Work Center #, Parameter Values, Remaining Life and sourcing information.

### **Change Details**

A new screen, **Part Name Plate** is introduced in the Stock Maintenance business component. This screen can be launched from the **Inquire Stock Availability** screen, where it is placed as a link in the Serial # and Lot # columns in the 'Search Results' multiline. The different sections of the Part Name Plate screen are discussed below.

### **Part Details**

This section displays the basic information of the Part # - Serial # / Lot # combination like Part #, Part Description, Mfr. Serial #, Serial #, Component #, ATA #, Condition, Ownership and Location. The Location of the Part # - Serial # / Lot # combination will be a string displaying the Last transaction that updated the unit and the current place where the unit is available. This could be a Warehouse or Work Center or Aircraft or NHA or a Trading Partner.

### **Basic Info**

This section displays the information like Mfr. Lot #, Lot #, Expiry Date, Value, Stock Status and Certificate details of the Part # - Serial # / Lot # combination. The Value will be displayed based on the Valuation Method of the Part.

### **Maintenance Info**

This section displays the Next Due At, which is the value of the date or the Flying Hours or Flying Cycles or any parameter at which the Part falls for maintenance; Work Center #, the default execution work center # defined for the Part in the Maintenance Information; Pref. Repair Agency #, the preferred Repair Agency for the Part as defined in the Maintenance Information; Parameter Values, the current Parameter values for the Part –

Serial combination; Remaining Life, the remaining value for the Life Parameter for the Component #.

**Sourcing Info**

This section displays the Source document and Last updated document details for the Part # - Serial # / Lot # combination in addition to the Scrap Note, if it is available for the unit.

**Links**

The links to view the Part – Serial / Lot Transaction History and a link to generate Tag report is provided in addition to the visibility of the information of the Part # – Serial # / Lot # combination.

**Exhibit 1: Identifies the link in the Serial # field in the Inquire Stock Availability screen**

#	Storage Location	Warehouse #	Part #	Mfr. Part #	Part Description	Serial #	Available Qty	UOM	Allocated Qty
25	DEN+HM	0123	<a href="#">324521</a>	0-001-368-0012R	STARTER ASSEMBLY	<a href="#">s4</a>	1.00	EA	
26	DEN+HM	0123	<a href="#">324521</a>	0-001-368-0012R	STARTER ASSEMBLY	<a href="#">s5</a>	1.00	EA	
27	BOMBAY	00123	<a href="#">333</a>	333	Chairs	<a href="#">SRLNO-000013-</a>	1.00	EA	
28	ATL-MMC	NEW	<a href="#">333</a>	333	Chairs	<a href="#">SRLNO-000020-</a>	1.00	EA	
29	ATL-MMC	NEW	<a href="#">333</a>	333	Chairs	<a href="#">SRLNO-000022-</a>	1.00	EA	
30	BOMBAY	00123	<a href="#">333</a>	333	Chairs	<a href="#">SRLNO-000021-</a>	1.00	EA	
31	BOMBAY	00123	<a href="#">333</a>	333	Chairs	<a href="#">SRLNO-000037-</a>	1.00	EA	
32	ATL-MMC	NEW	<a href="#">333</a>	333	Chairs	<a href="#">SRNO33000004-</a>	1.00	EA	
33	BOMBAY	00123	<a href="#">396800-12:59875</a>	396800-12	VBV GEAR MOTOR MOTOR	<a href="#">MSC-102</a>	1.00	EA	
34	YUL-CMC	YULCS	<a href="#">396800-10:59875</a>	396800-10	VBV GEAR MOTOR MOTOR	<a href="#">MSC-104</a>	1.00	EA	
35	YUL-CMC	YULCS	<a href="#">396800-10:59875</a>	396800-10	VBV GEAR MOTOR MOTOR	<a href="#">MSC-105</a>	1.00	EA	
36	YUL-CMC	YULCS	<a href="#">396800-10:59875</a>	396800-10	VBV GEAR MOTOR MOTOR	<a href="#">MSC-106</a>	1.00	EA	

**Exhibit 2: Identifies the Part Name Plate screen**

**Part Name Plate**

Part # 1020-20102012  
 Mfr. Serial # we342345  
 Component # AVION23  
 Location In Stock | YULCS ; DG ; D312F24  
 Ownership Owned

Description Engine propeller  
 Serial # we342345  
 ATA # 00-00  
 Condition

**Basic Info**  
 Mfr. Lot #  
 Lot #  
 Stock Status Owned

Expiry Date  
 Value 10000.00000000  
 Mfr. Part # 1020-20102012

Certificate Type 0130-3  
 Certificate # 06-11-2012 - Nov 6 2012  
 Mfr. # 0000

**Maintenance Info**  
 Next Due at  
 Work Center # 100-00  
 Pref. Repair Agency # 00060  
 Parameter Values  
 Remaining Life FH | 10000.00000000

**Sourcing Info**  
 Source Document # Unplanned Receipt | LPR-000017-2012  
 Source Order #  
 Last Transaction # Unplanned Receipt | LPR-000017-2012  
 Last Transacted by DMLSER  
 Scrap Note #

[View Serial / Lot Transaction History](#)      [Generate Tag Report](#)

## Ability to display purchase and repair TAT at the Part – Supplier level

Reference: AHBE-9770

### Background

The **Part Supply Chain Performance** screen facilitates review of various information of a part: Sourcing, Purchase History, Repair History, Stock Availability, Open Orders, Pending Demands, Surplus Order Qty, Replenishment and Consumption information. Typically, Buyer reviews the supply chain performance for a part before placing an order.

With respect to Sourcing information, this screen displays the various Sourcing options available for a Buyer for a given Part #. In addition to the details that are displayed currently, a provision is required to view the TAT (both for Purchases and Repair Services) so that a better timely procurement could be achieved. This TAT is required to be visible at the Part – Supplier level, so that the Supplier offering the Part with the best TAT, could be selected for placing the Order.

### Change Details

A new column 'TAT (Days)' is added in the sourcing info section of **View Part Supply Chain Performance** screen.

The value displayed in the new column is based on the following logic.

- i. If the Source For is 'Purchase', then the field shall display the average of the difference between Purchase Order / Release Slip authorization date and Receipt date (i.e.) PO / RS Authorization Date – Receipt Date, for the given supplier considering the Purchase Orders of type 'General', 'Express', 'Exchange', 'PBH' and 'PBH Exchange' and Release Slips, whose priority is not 'AOG'.
- ii. If the Source For is 'Repair', then the field will display the average of the difference between the latest Repair Order Issue Confirmation date and Receipt date for a given repair order (whose priority is not 'AOG') placed to the given Supplier / Repair Agency.

**Exhibit-I: Identifies TAT (days) for part- supplier combination in View Part Supply Chain Performance**

The screenshot shows the SAP 'Part Supply Chain Performance' window. On the left, the 'Part Info' section displays details for Part # 1001, including 'Engine Blades' and 'Component' type. The main table, titled 'Source Info', lists various sources with columns for Currency, Exchange Rate, Unit Cost, Quotation Cost, Contract?, and a newly added 'TAT (Days)' column. A yellow callout box points to the 'TAT (Days)' column with the text 'NEW COLUMN TAT(DAYS)'. The table shows four rows of data with TAT values of 0, 0, 1, and 0 days.

Source	Currency	Exchange Rate	Unit Cost (Base Cur.)	Quotation Cost	Quotation Cost (Base Cur.)	Contract?	TAT (Days)
1	ISD	16.00	1600.00 CAD			PBH	0
2	ISD	16.00	0.00 CAD			No	0
3	ISD	16.00	0.00 CAD			No	1
4	ISD	16.00	1600.00 CAD			No	0

## WHAT'S NEW IN STOCK MANAGEMENT?

### Ability to Queue Components Received for Tech Records Verification

*Reference: AHBE-7791*

#### Background

Tech Records Department in any Airline/MRO Organization is responsible for maintaining critical information pertaining to Components; Parameter Value, Maintenance Program, Task Compliance & Due Date/Values, Configuration etc. When parts are received, as part of inspection process, Inspector can update tech records information or override it. In case, if Inspector overrides entry of Tech Records information, Tech Records Department updates it later.

As the case with few organizations, where the operations are spread out with several bases and each base being managed by one or two persons, updating tech records information becomes an overhead during the receiving process. Business need from these organizations is to queue the components received, receipt wise, for Tech Records to review and update relevant information. Apart from Goods Receipt, new components could be inducted through several other inventory transactions like Loan/Rental Receipt, Unplanned Receipt, Maintenance/General Returns and Stock Corrections etc. From these transactions as well when a new component is inducted/received, it should be queued for Tech Records to verify and update relevant information.

#### Change Details

In **Storage Administration** business component a new transaction "Tech Records Queue - New Components" has been added under the **Warehouse – Transactions Allowed** screen. This can be set as applicable or not applicable for each Warehouse. If it is set as applicable, then during receipt of parts in the warehouse, if tech records information is not updated i.e., override, then the components received along with the receipt will be queued for tech records personnel to review and update using the new 'Review Records Update' screen under **Aircraft** business component.

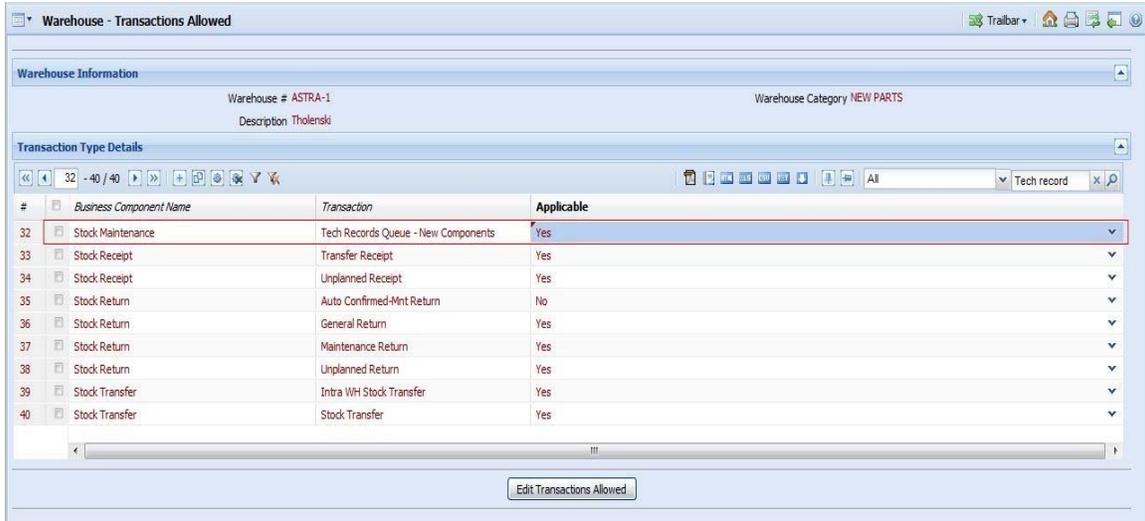
Apart from Goods Receipt & Repair Receipt following inventory transactions will also push information into Tech Records Queue; Unplanned Receipt, Maintenance Return, General Return and Issue Wise Return, Stock Correction, Part-Serial Change, Part Data Change, Create Facility Object and Loan Receipt.

Based on the transactions, following information as relevant will be passed: Part #, Mfr. Serial #, Serial #, Ref. Document Type (Transaction Type), Ref. Document # (Transaction #), Receiving Comments, Transaction Date, Records Update?, Warehouse #, Pack Slip #, Way Bill #, Certificate Type, Certificate #, Certificate Date, Trading Partner Type and Trading Partner #.

Secondly, a component that is queued for tech records update/verification, will not be allowed to be issued for maintenance of Aircraft or Component if the option "Allow Maintenance Issue of Component with pending Technical Records Update?" is set as

“Not Allowed” in the **Set Process Parameters** screen under **Define Process Entities** activity in **Common Master** business component.

**Exhibit 1: Identifies new transaction added in Warehouse–Transactions Allowed screen**



## WHAT'S NEW IN PHYSICAL INVENTORY AND CYCLE COUNT?

### Ability to Confirm Physical Inventory Count Results at the PI document level

*Reference: AHBE-4880*

#### Background

Physical Inventory count process normally is a once in a year activity, primarily done during year end closure (book closure for Financial Year) and is a statutory (auditing) requirement in most cases.

During physical inventory all the parts in warehouse will be counted and discrepancies are recorded and corrected. Depending on the size of the Warehouse, No of Aircrafts, Fleet Ageing and Service levels, number of parts in inventory in a warehouse might vary. Typically, the number of parts in a main warehouse will be much more than the ones in any field warehouse.

Physical Inventory having the potential to process several thousand parts depending on the size of the warehouse; it is required to have an ability to facilitate confirmation of Physical Inventory count results at the PI document level. The reason being, currently confirmation at the part level or for all parts results in performance issues and sometimes gives time out errors to the users, though technically the event is executed in the back end and transaction is confirmed successfully.

With the introduction of the feature to confirm Physical Inventory count results at PI document level, performance issue will be addressed. As well, it aligns with the business process, where typically counters enter the count results and Inventory Controller / Manager confirms the count results.

#### Change Details

In the **Select Physical Inventory Plan** screen under **Enter Physical Inventory Count Results** activity of the Physical Inventory & Cycle count business component, a button "Confirm Count Results" has been placed under the search results multiline.

User can select the PI document for which count results and entered and reviewed and click the "Confirm Count Results" button, which will process all the parts in the selected PI document and confirm the count results. Performance issues observed during confirmation of count results from Enter **Physical Inventory Count Results** screen is drastically reduced when the PI document is confirmed from **Select Physical Inventory Plan** screen.



*Note: In the **Select Physical Inventory Plan** screen, user will be allowed to select the PI document one at a time for confirmation to avoid performance issues.*

**Exhibit 1: Identifies the Confirm Count Results button on Select Physical Inventory Plan page under the Enter Physical Inventory Count Results.**

Direct Entry

PI Plan #  [Enter Count Results](#)

Search Criteria

PI Plan #  Tag #   
Plan Category  User Status   
Warehouse #  WH - Zone #   
Part #  Planned by

Search

Search Results

#	PI Plan #	Plan Description	Warehouse #	Warehouse Description	WH - Zone #	Zone Description	Plan Status
3	<a href="#">PIP-000108-2013</a>	QUAR-12	10973	10973			Confirmed
4	<a href="#">PIP-000109-2013</a>	ABAP-231	001245	Warehouse 1			Confirmed
5	<a href="#">PIP-000110-2013</a>	ANSP-3451	YULCS	Main Montreal store location CS Ban			Confirmed
6	<a href="#">PIP-000111-2013</a>	DCAP-2312	UNSV	Unserviceable			Confirmed

Confirm Count Results

Confirm Count Results button added

## **Ability to review Serial / Lot details for all parts in Physical Inventory**

*Reference: AHBE-11316*

### **Background**

It is imperative to systematically manage inventory so that parts are available in right quantity and at right place to avoid disruption of planned maintenance operations. One way of maintaining inventory is to access the stock situation regularly and correct any discrepancy in stock through processes like Cycle Counting and Physical Inventory. When Physical Inventory results are recorded user will need to review the serial / lot details for the counted / recounted results. Business need is facilitate serial / lot review rather than restricting it for parts where count / recount results are recorded as zero.

### **Change Details**

Existing validation that limit launch of Serial / Lot Details screen for review of serial / lot details for parts in PI with count / recount quantity recorded as zero is relaxed. This feature will thus facilitate user to review the Serial / Lot for all parts during PI counting / recounting.

## Ability to record cycle count & recount results at serial / lot level in a single screen

*Reference: AHBE-3985*

### Background

Cycle counting is the periodic counting of inventory throughout the year to systematically improve inventory accuracy. Accurate system on-hand quantities are essential for managing supply and demand, maintaining high service levels, and better maintenance planning.

Currently, to record cycle count / recount results, user's needs to visit multiple screens. Business need is to facilitate entry of count results at the serial / lot level and simplify the entire process. Secondly, a facility is required where reason for discrepancy can be identified for discrepant stocks.

### Change Details

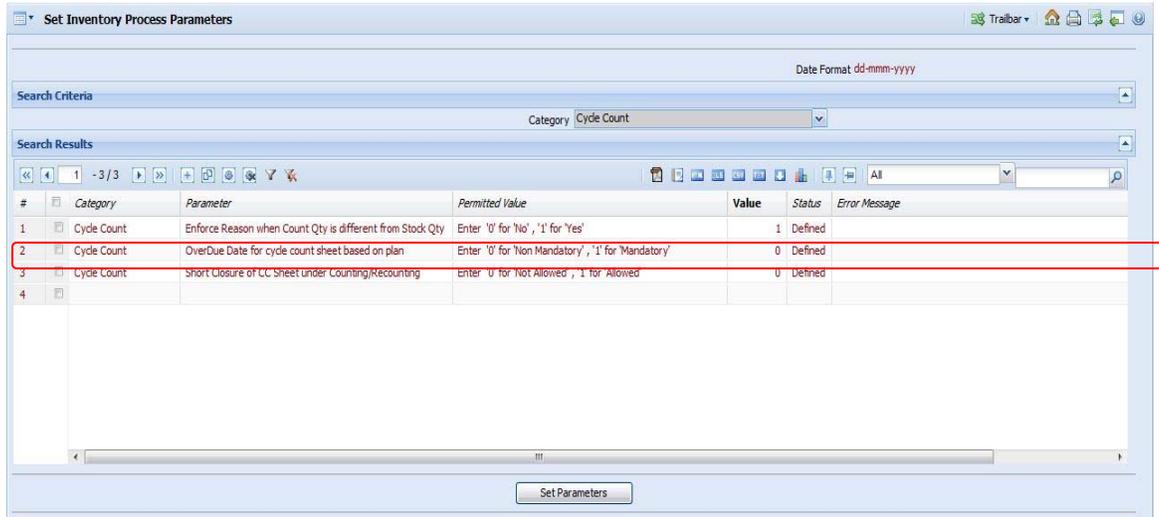
With the introduction of this new feature, the process of recording cycle count / recount results is simplified to the extent the entire process can be completed in a single screen. A comprehensive new screen is introduced where the results can be recorded at serial / lot level, new serial / lot can be specified apart from identifying new part and stock status. It is also possible to specify certificate information for the new serial / lot in the same screen apart from identifying the reason for discrepancy.

### Reason for Discrepancy

A new set option, 'Enforce Reason when Count Qty is different from Stock Qty' is added under the Category 'Cycle Count' in the **Set Inventory Process Parameter** screen under **Logistic Common Master** business component. The option can take one of the following values: Yes (1) or No (0).

If the option is set as 'Yes', then, user will be enforced to specify reason when count quantity does not match with the stock quantity. However, if the option set as 'No' or if it is not defined i.e., blank, user will not be enforced to specify reason for discrepant stock.

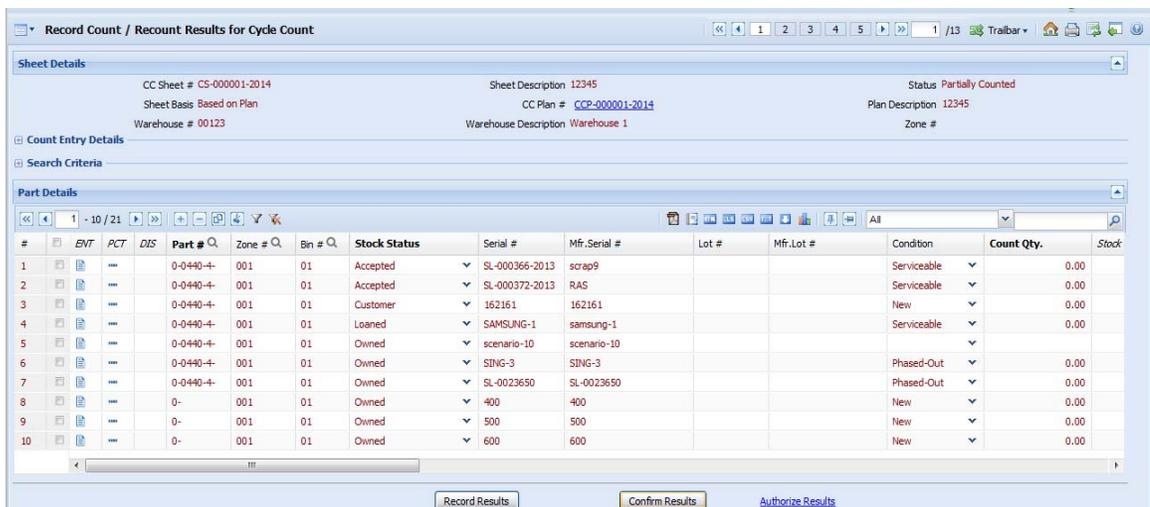
**Exhibit 1: Identifies the new set option in the Set Inventory Process Parameter screen**



**Record Count / Recount Result for Cycle Count**

In order to address the business need, single screen ‘**Record Count / Recount Result for Cycle Count**’ has been provided to record the cycle count results. This screen will serve as a common screen for Enter Count Results and Enter Recount Results entry screens.

**Exhibit 2: Identifies the new Record Count / Recount Result for Cycle Count screen**



The screen has been divided into four sections:

- i. Sheet Details: Displays information related to the CC Sheet for which count results are being recorded. The information includes CC Sheet #, Sheet Description, Status, CC Plan #, Warehouse #, Warehouse Description etc.
- ii. Count Entry Details: Conveys whether the details are recorded for count or recount results. It also displays the mode in which results will be entered through Count Results Entry Mode combo where the values 'All Stock' and 'Discrepant Stock' are loaded. The values in the combo are loaded depending upon option setting in Set Cycle Count Parameters business activity.
- iii. Search Criteria: Provides facility to the user to search for particular part or all the parts in particular Zone / Bin and record results for them.
- iv. Part Details: Displays all the relevant information for the part for which results need to be recorded. The Part Details multiline displays information such as Serial # / Lot #, Zone # / Bin #, Trading Partner information, Certificate Details etc.

### **Salient Features:**

#### **1) Optimized Screen:**

The '**Record Count / Recount Result for Cycle Count**' screen has been optimized in such a way that user will be able to perform following activities in a single screen:

- i. Record Count Results
- ii. Record Re-count Results
- iii. Identify Serial / Lot Details
- iv. Specify Certificate Information
- v. Record New Part / Stock Status

#### **2) Iconic Representation:**

In Part Details multiline different images are displayed for the records which characterize a particular record and help the user with better processing of the cycle count results especially when the number of records to process is voluminous.

Following are the columns in multiline displaying the images for the record:

- i. ENT: Displays the information whether the record in the multiline is an existing record retrieved based on the plan and stock availability or a new record manually added by the user. New Records are added when user identifies a new serial or new part while counting results.
  - a.  : symbolizes the record is an existing record.
  - b.  : symbolizes the record is a new record.
  
- ii. PCT: Displays the part control type of the part corresponding to a record
  - a.  : Denotes the part is 'Serial Controlled'.
  - b.  : Denotes the part is 'Lot Controlled'
  
- iii. DIS: Displays the information for the records having stock discrepancy. It will also be displayed when new part and new serial are added.
  - a.  : Denotes Stock Discrepancy.

### 3) Reason for Stock Discrepancy:

Provision has been given to specify Reason codes whenever there is stock discrepancy for particular records through 'Reason-Qty Mismatch' combo. This is essential from organizational perspective in keeping a track of the reason which leads to inventory mismatch and help them to operate better. The 'Reason-Qty Mismatch' combo loads all the active reason codes defined for the Reason Code Type "Stock Correction" in Create Reason Code activity under Logistics Common Master business component.



*Note: For a CC Line # to be processed it is required to update count results for all the Serial / Lot corresponding to the CC Line # if the count entry mode is "All Stock". For example, let us assume there are 10 serial # corresponding to Line # 1 in a CC Sheet which is 'Confirmed' status. Out of the 10 serial #, results for 5 Serial # have been recorded and confirmed. In this scenario the CC Sheet status will continue to remain in 'Confirmed' status. Only upon entry and confirmation of results of the remaining 5 serial #, status of the CC Sheet will get updated as Pending Recount, Counted, Closed etc. as applicable based on count discrepancy and options for recounting.*

### View Count / Recount Result for Cycle Count

A new screen 'View Count / Recount Result for Cycle Count' has been provided to view CC Sheet results in one screen. The screen is in sync with Record Count / Recount Result for Cycle Count Screen.

#	ENT	PCT	DIS	Part #	Zone #	Bin #	Stock Status	Serial #	Mfg. Serial #	Lot #	Mfg. Lot #	Condition	Count Qty.	Recount Qty
1			▲	A130H2000	01	01-1	Accepted	SL-001	SL-001			New		0.00
2				A130H2000	01	01-1	Accepted	SL-002	SL-002			Overhauled	1.00	
3				A130H2000	01	01-1	Accepted	SL-003	SL-003			Serviceable	1.00	
4				A130H2000	01	01-1	Accepted	SL-004	SL-004			Overhauled	1.00	
5				A130H2000	01	01-1	Accepted	SL-005	SL-005			New	1.00	
6			▲	A130H2000	01	01-1	Accepted		st-SL005			New	1.00	

## WHAT'S NEW IN PACK SLIP?

### Ability to enforce Reference Document # for Pack Slip

Reference: AHBE-9756

#### Background

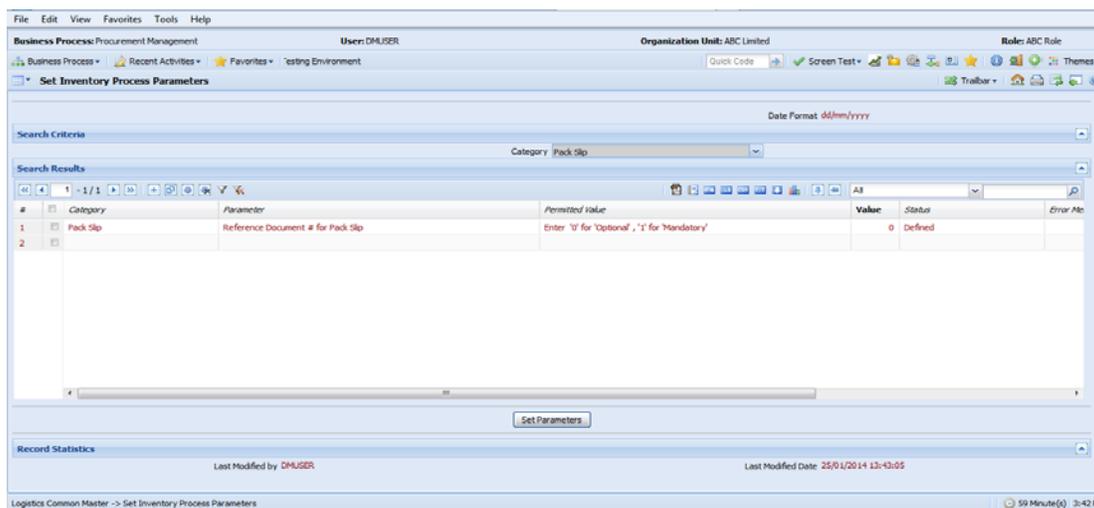
In Ramco Aviation Solution, sale of part is accomplished through Part Sale Pack Slip process. Customer PO # or Customer Order # based on which the Pack Slip is created needs to be entered as Reference Document # in Pack Slip for traceability and reporting. However, it is not mandatory to enter the Reference Document # in Pack Slip. Business need is to enforce entry of 'Reference Document #' in Part Sale Pack Slip so that it is printed in Pack Slip report which is sent along with the shipment to the Customer.

#### Change Details

New set option "Reference Document # for Pack Slip" for the category "Pack Slip" is added in **Set Inventory Process Parameter** activity under **Logistics Common Master Business Component**. The option can take one of the following values: Optional or Mandatory.

If the option is set as 'Mandatory', then, system will enforce user to enter Reference Document # in 'Create Pack Slip' and 'Edit Pack Slip' task buttons under respective **Create Pack Slip** and **Edit Pack Slip** activities. If it is set as 'Optional', then, current behavior would continue i.e., system will not enforce entry of Reference Document # in Pack Slip.

**Exhibit 1: Identifies the new option added in Set Inventory Process Parameters screen**



## WHAT'S NEW IN WORKSPACES ?

### Dashboard for managing Inventory Operations

*Reference: AHBE-6895*

#### Background

Aircrafts are strategically positioned in several Field Bases to provide better and cost effective services to end customers who are around the base. Though major maintenance of the Aircraft happens in Main Base, Field Base is responsible for day to day maintenance of the aircraft to keep it airworthy. Unlike Main Base, Field Bases have very few staffs. In most cases, it will be one person who will be managing it.

The responsibility of a Field Base Personnel does not limit to Aircraft maintenance, but, extends to managing the warehouse as well (i.e.) Request, Issue, Receive, Ship parts etc. It is evident that a Field Base Personnel needs to do several activities on a day to day basis and have them recorded in the organization's ERP system. Though, physically all the required activities are done, recording the same in the ERP system becomes cumbersome, because, it is required to visit different processes, activities and screens for entering the data. Mechanic frequently gets lost while working in the system because of complex navigation, lack of clarity on the next step etc.

Business need is to provide a dashboard to manage Inventory Operations, which would enlist the activities pending for action, in the Inventory stand point, (i.e.) Requests, Issues, Receipts, etc. that needs to be processed and in the Maintenance Stand point, (i.e.) Alerts on Parts that are due for Maintenance, Shelf Life Expiry and Tool Calibration.

#### Change Details

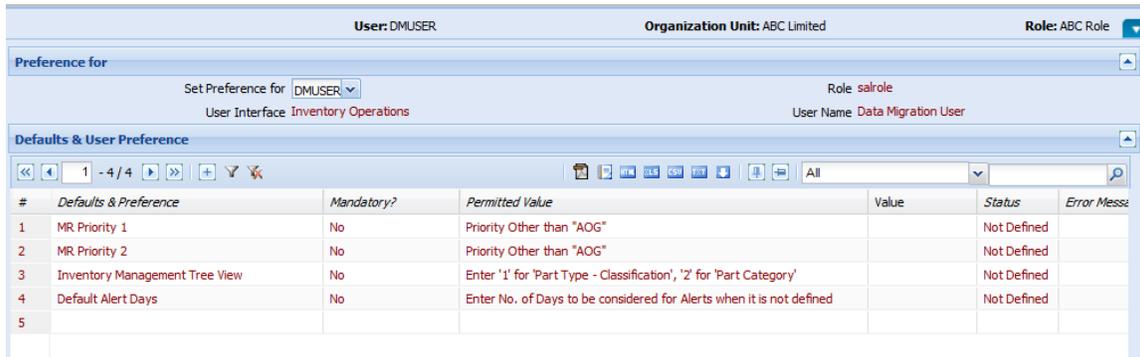
A New Screen, "**Manage Screen Defaults & Preferences**" has been developed to identify the parameters which govern the data displayed in the "**Inventory Operations**" Workspace.

#### Manage Screen Default & Preferences

This screen facilitates the User to set the Preference for a given User – Role – User Interface combination. This screen has got two sections which are

- i. Preference For
- ii. Defaults & User Preference

**Exhibit 1: Identifies the Manage Screen Defaults & Preferences screen**



1) **Preference For:** This section has the following controls, for whose combination is the Parameters listed in Defaults & User Preference section is defined.

- i. Set Preference For (User Name)
- ii. Role
- iii. User Interface (WorkSpace Name)

2) **Defaults & User Preference:** This section has the list of parameters identified (by system) for a given WorkSpace. In the case of the **'Inventory Operations WorkSpace'**, the lists of parameters identified are,

- i. MR Priority 1 (Request Priority other than AOG, that needs to be prioritized)
- ii. MR Priority 2 (Request Priority other than AOG, that needs to be prioritized)
- iii. Inventory Management Tree View (structure in which the Inventory Management Tree should be viewed i.e., whether at the Part Category level or at the Part Type – Classification level)
- iv. Default Alert Days (In case the Alert days is not defined, this parameter helps in identifying the Alert Period for the Part)

**Inventory Operations WorkSpace**

The Inventory Operations WorkSpace will be the landing page for the Field Base Personnel and this WorkSpace has got the following sections in it.

1) My Area

2) Issue & Return (Aircraft View)

- i. Transaction Wise Count
- ii. Tree Section
- iii. Document List Panel
- iv. Document Preview Panel
- v. Action Links
- vi. Quick Links
- vii. Chart

3) Inventory Management & Alerts Tab

- i. Count Display
- ii. Tree Section
- iii. Part List Panel & Part Level Action Links
- iv. Part Detailed Panel & Detailed Level Action Links

Exhibit 2: Identifies the Inventory Operations WorkSpace

The screenshot displays the 'Inventory Operations' workspace. At the top, there's a navigation bar with 'My Area: Storage Location | Warehouse | AKR-SER'. Below this, there are tabs for 'Issue & Return' and 'Inventory Management & Alerts'. A summary bar shows counts for 'All' (39), 'Request' (30), 'Issue' (05), and 'Return' (04). The main area is divided into several sections: 'Open' with a table of requests, 'Ageing' with a bar chart, 'Document Details' for a specific document, and a 'Part' table with columns for Part, Description, Qty, Stk Sts, Cond, Serial / Lot, and Sourcing Info. There are also 'Action Links' and 'Quick Links' on the right side.

Type	Document #	Need Date	Priority	Age	Status	Aircraft	Reference Details
Mr.	MR-0116834-2013	28-Mar-2013	ACG	2	Shipped	0706	AME-037872-20113
Mr.	MR-016826-2013	2-Apr-2013	EXP	4	Transfer Initiated	0706	AME-037872-20113
Mr.	MR-016818-2013	7-Apr-2013	NAM	6	Shipped	0706	

Part	Description	Qty	Stk Sts	Cond	Serial / Lot	Sourcing Info
254786752	Switch nose UP/DN	1 EA	Owned		SL7386663	STI-008734-2013
601R41300	House	1 EA	Owned		LOT-044787	STL-008734-2013
AS3217-146	Ring Retaining	6 EA	Owned		sl3898642	PO-008734-2013

My Area

This section displays the chosen Area for the login user to retrieve and display the corresponding details into the Inventory Operations WorkSpace. This section is

populated during the launch of the WorkSpace based on the value already chosen. If a specific Area is not selected it is possible to select it using the Edit icon provided.

**Exhibit 3: Identifies My Area section**



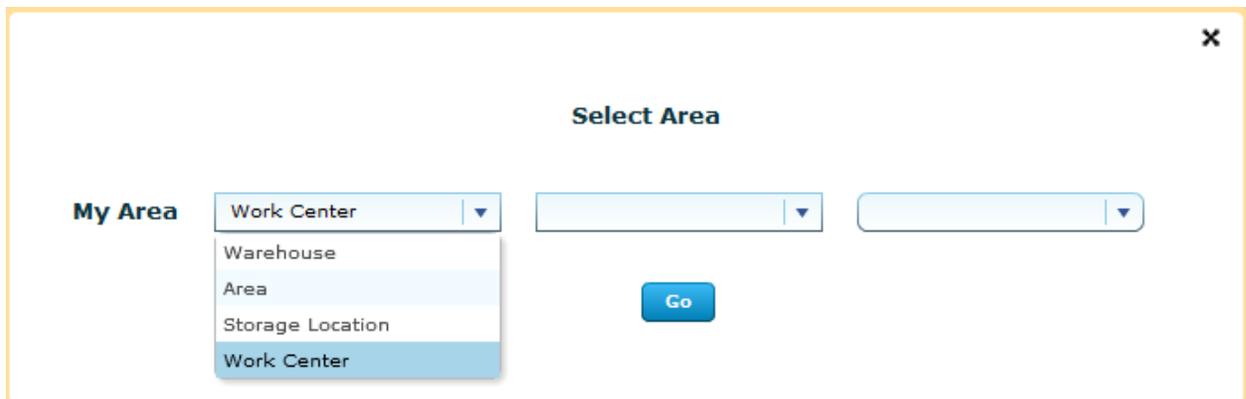
The parameters that govern the boundary of the Inventory Operations WorkSpace screen in My Area are:

- i. Work Center #
- ii. Warehouse #
- iii. Storage Location
- iv. Area

**Select or Modify "My Area"**

Click the "Edit Icon"  to set or modify My Area. On click of the icon following screen will be launched.

**Exhibit 4: Identifies Pop-up screen to select / modify My Area**



The pop-up screen has three drop downs. 1<sup>st</sup> drop down will be loaded with the following values; Work Center, Storage Location, Area and Warehouse depending upon user access rights to one or more Work Centers/Warehouse. It is mandatory to select a value. The 2<sup>nd</sup> drop down will be loaded based on the value chosen in the 1<sup>st</sup> drop down. For example, if “Warehouse” is chosen then the list of Warehouses mapped to the login user will be loaded in the 2<sup>nd</sup> drop down and user can select a particular warehouse to see the details. In the event where the user is mapped to more than one warehouses, a blank value will also be loaded and if user leaves the 2<sup>nd</sup> drop down as blank, information pertaining to all the warehouses will be displayed in the WorkSpace. The 3<sup>rd</sup> drop down will be loaded based on the value chosen in the 2<sup>nd</sup> drop down. For example, if Storage Location is selected in the 1<sup>st</sup> drop down then the 2<sup>nd</sup> one will be loaded with corresponding storage locations upon selection of a particular storage location the 3<sup>rd</sup> drop down will be loaded with the associated warehouses. Refer to the table below for more details.

**Exhibit 5: Identifies the logic of loading various drop downs in My Area pop-up screen**

<b>1<sup>st</sup> Drop Down</b>	<b>2<sup>nd</sup> Drop Down</b>	<b>3<sup>rd</sup> Drop Down</b>
<i>Work Center</i>	<i>Loaded with the list of Work Centers mapped to login user</i>	<i>Loaded with the list of Warehouse mapped to the Work Center chosen in 2<sup>nd</sup> drop down.</i>
<i>Storage Location</i>	<i>Loaded with the list of Storage Location mapped to login user, derived through Warehouse – Storage Location mapping</i>	<i>Loaded with the list of Warehouse mapped to the Storage Location chosen in 2<sup>nd</sup> drop down.</i>
<i>Area</i>	<i>Loaded with the list of Area identified for the warehouses mapped to the login user.</i>	<i>Loaded with the list of Warehouse mapped to the Area chosen in 2<sup>nd</sup> drop down.</i>
<i>Warehouse</i>	<i>Loaded with the list of Warehouse mapped to the login user</i>	<i>Loaded with the list of Zones identified for the Warehouse chosen in 2<sup>nd</sup> drop down. Note: Zone information is only used in the Inventory Management &amp; Alerts tab of the WorkSpace</i>



*Note: Values chosen for “My Area” determines the details that will be displayed in the WorkSpace.*

## Easy Launch

This section facilitates launch of various application screens for creation of receipt. User can enter a Purchase Order, Repair Order, Loan Order, Rental Order or a Stock Transfer Issue and press the “Go” button to create respective receipts. Depending upon the Document # entered, “Go” button will launch respective receiving screens to facilitate receipt creation.

### Exhibit 6: Identifies the Easy Launch section



The screenshot shows a horizontal navigation bar. On the left is a square icon with a diagonal line and the text "Easy Launch". To its right are two radio buttons: "Create" (which is selected) and "Edit / View" (which is disabled). Further right is a dropdown menu currently displaying "Receipt". To the right of the dropdown is a text input field labeled "Document #". On the far right of the bar is a blue button with the text "Go".

 *Note: Radio button “Edit/View” is disabled and will be enabled in the future release, once the feature is provided to modify or view receipt from the Workspace.*

## Issue & Return (Aircraft View)

### Background

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. Managing of a Warehouse refers to the processing of the Requests, Issues, Returns, etc. that are made in that Warehouse.

The Business Requirement is to have a single dashboard wherein the Field Base Personnel would be able to view all the pending transactions under each aircraft that is available in the Field Base, to have a better Warehouse Management.

### Change Details

A tab titled 'Issue & Return' has been provided in the **Inventory Operations** WorkSpace for the Field Base Personnel, to have a view on all the pending transactions (i.e.) Requests or Issues or Returns under each aircraft.

The different sections available in this tab that were earlier listed are detailed below.

### Exhibit 7: Identifies the Issue & Return Tab – Aircraft View in Inventory Operations WorkSpace

The screenshot displays the 'Issue & Return' interface. At the top, there are navigation tabs for 'Request' (30), 'Issue' (05), and 'Return' (04). Below this, a table lists 'Open' transactions with columns for Type, Document #, Need Date, Priority, Age, Status, Aircraft, and Reference Details. A bar chart on the right shows 'Ageing' data for four time periods: 0-05, 06-10, 10-15, and 16-20. The bottom section provides 'Document Details' for a specific document, including part numbers, descriptions, quantities, and sourcing information.

Type	Document #	Need Date	Priority	Age	Status	Aircraft	Reference Details
Mr.	MR-0116834-2013	28-Mar-2013	AOG	2	Shipped	0706	AME-037872-20113
Mr.	MR-0116826-2013	2-Apr-2013	EXP	4	Transfer Initiated	0706	AME-037872-20113
Mr.	MR-0116818-2013	7-Apr-2013	NAM	6	Shipped	0706	

Part	Description	Qty	Stk Sts	Cond	Serial / Lot	Sourcing Info
254786752	Switch nose UP/DN	1 EA	Owned		SL7398663	STI-008734-2013
601R41300	House	1 EA	Owned		LOT-044787	STI-008734-2013
AS3217-146	Ring Retaining	6 EA	Owned		sl3898642	PO-008734-2013

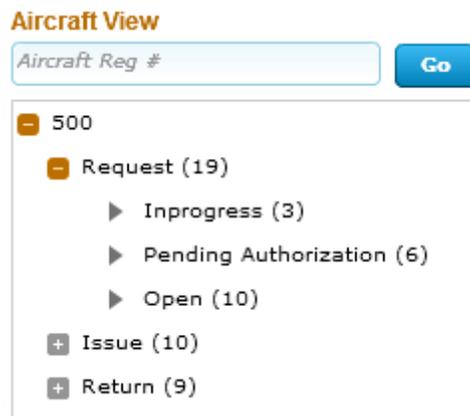
**Transaction Wise Count:** This section displays the count of Request, Issue and Return documents that are pending for action. Also, it displays the overall count of Request, Issue and Return.

**Exhibit 8: Identifies the Transaction Wise Count Display (Issue & Return – Aircraft View)**



**Tree Section:** This section displays the break-down for the count of Request or Issue or Return displayed in the Transaction Wise Count section, for a given Aircraft Reg #. The Count is further divided based upon the possible action that is pending on the document.

**Exhibit 9: Identifies the Tree Section (Issue & Return Tab – Aircraft View)**



The possible child nodes under each of the parent nodes (Request or Issue or Return) are given below.

- i. Request
  - a. In progress (Draft Material Requests)
  - b. Pending Authorization (Fresh Material Requests)
  - c. Open (Material Requests that are Authorized, but not Closed)
- ii. Issue
  - a. In progress (Draft Issue Documents)
  - b. Pending Confirmation (Fresh Issue Documents)
- iii. Return
  - a. In progress (Draft Return Documents)
  - b. Pending Confirmation (Fresh Return Documents)

In addition to the tree structure, this section provides the user with the capability to make a search for Aircraft Reg #, to work upon the transaction for that particular Aircraft Reg #.

- 1) **Document List Panel:** This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 10: Identifies the Document List Panel (Issue & Return Tab – Aircraft View)**

#	Type	Document #	Date	Priority	Due/Age	Status	Aircraft	References
1	MR	MR-003164-2013	07/09/2013	Normal	-3	Process MR	500	
2	MR	MR-003175-2013	09/09/2013	Normal	-1	Process MR	500	LC-000951-2013
3	MR	MR-003165-2013	11/09/2013	Normal	1	Process MR	500	

In addition, this section also provides the user an alternative way of traversal in the Workspace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Closed Material Requests; Confirmed Issues and Confirmed Returns. The Check-Box, 'Overdue', offers the user to fetch only those Issues or Requests that are Overdue (i.e.) Due Date is earlier than the current server date. The Overdue Check-box does not impact the Search for Returns.

The Pending Requests count displayed is the count of Material Requests, which are available in any of the Child node in the tree structure possible, for which the Priority is either AOG or MR Priority 1 or MR Priority 2 (as defined in the **Manage Screen Defaults & Preference** screen)

- 2) **Document Preview Panel:** This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel

**Exhibit 11: Identifies the Document Preview Panel (Issue & Return Tab – Aircraft View)**



- 3) **Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 12: Identifies the Document Preview Panel along with Action Links (Issue & Return Tab – Aircraft View)**



- 4) **Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

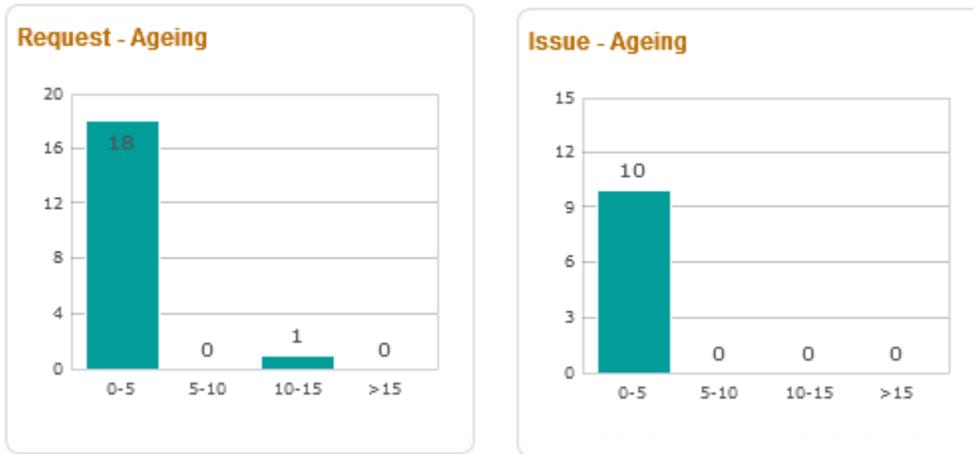
**Exhibit 13: Identifies the Quick Links section (Issue & Return Tab – Aircraft View)**



- 5) **Charts:** This section comprises of the Request or Issue Ageing charts that gets populated with the Count of Requests or Issues Vs the Due Days

Range. This section is populated with the respective chart on the click of the count displayed in Transaction Wise Count Section.

**Exhibit 14: Identifies the Charts section (Issue & Return Tab – Aircraft View)**



## Inventory Management & Alerts Tab

### Background

In addition to maintaining the Warehouse, the Field Base Personnel also needs to carry out the Maintenance of an Aircraft. In order to achieve this, it becomes vital for the Field Base Personnel to be alerted on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

The Business requirement is to provide ability for the Field Base Personnel to have an eye on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools), so that necessary action could be taken.

### Change Details

A tab titled 'Inventory Management & Alerts' has been provided in the **Inventory Operations** WorkSpace to have a view of the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

This tab alerts the user with the visibility of the inventoried parts that would be due for Maintenance or Shelf Life Expiry or Tools Calibration, along with the summary of the Parts available in the Serviceable and Unserviceable Warehouse # (at the Part Type – Classification or Part Category level, as defined in the Manage Screen Defaults & Preference screen).

The red color indicator in the tab denotes that there are parts that overdue for any of the activities mentioned above.

### Exhibit 15: Identifies the Inventory Management & Alerts Tab

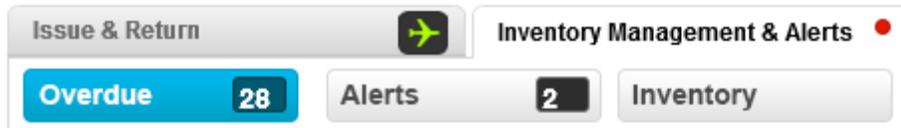
The screenshot displays the 'Inventory Management & Alerts' tab within the 'Inventory Operations' workspace. The interface is divided into several sections:

- Navigation Bar:** Shows 'My Area: Warehouse' with ID '00123'. It includes an 'Easy Launch' button and options for 'Create', 'Edit / View', and 'Receipt'.
- Issue & Return:** A sub-tab with 'Inventory Management & Alerts' highlighted in red, indicating overdue items. It shows 'Overdue' with a count of 9 and 'Alerts' with a count of 0.
- Warehouse Filter:** A dropdown menu set to '00123' with a 'Go' button.
- Overdue Table:** A table listing overdue parts with columns for #, Part #, Description, Stock Status, Qty, Flag, Due Days, and Warehouse #.
 

#	Part #	Description	Stock Status	Qty	Flag	Due Days	Warehouse #
1	0-0110-3-0442:3636	Acoustical AR Y Panel	Accepted	1 EA	🔔	-31	00123
2	0-0440-4-0005:36361	Mapoo AR Oven	Accepted	1 EA	🔔	-100	00123
3	0-0440-4-0005:36361	Mapoo AR Oven	Customer	1 EA	🔔	-164	00123
- Part Details:** A sidebar showing details for Part # '0-0110-3-0442:36361SHAZ'. It includes the description 'Acoustical AR Y Panel', Part Type 'Component', Warehouse '00123', and Quantity '1 EA'. The 'Due For' field is empty.
- Storage Details:** A table showing storage information for the selected part.
 

#	Zone/Bin	Qty	Serial/Lot	CND	Exp/Due Dt	Fac.Obj/Comp.	Ownership
1	001/01	1 EA	asdas	🔔	29/09/2013	COMP-001175	Owned
- Action Links:** Two columns of links are provided for each section. For the 'Overdue' table, links include 'Inspect / Re-Certify Parts', 'Route Unserviceable Compon...', 'Create Inter WH Transfer', and 'View Part Information'. For the 'Part Details' sidebar, links include 'Initialize Maint Program and U...', 'Update Component Condition', 'Record Part-Serial Change', 'Maintain Part Certificates', 'View Part - Serial / Lot History', and 'View Component Record'.

**Exhibit 16: Identifies the Count Display section (Inventory Management & Alerts Tab)**



- 1) **Tree Section:** This section displays the break-up for the count displayed in the Overdue or Alerts button. If the Inventory button is selected, this section displays the break-down of the Stock available in the Serviceable or Unserviceable Warehouse – Zone combination.

The child nodes for Overdue and Alerts buttons are:

- i. Shelf Life Expiry
- ii. Tool Calibration
- iii. Maintenance Due

If the Inventory Management Tree View is set as 'Part Type – Classification' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

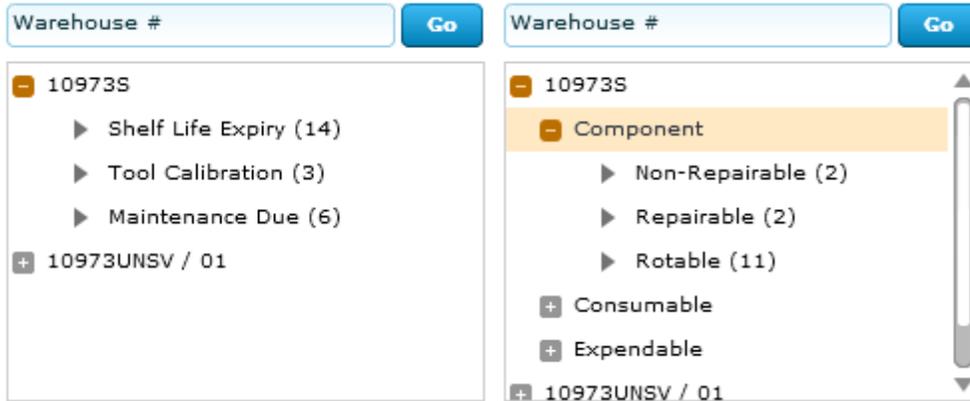
- i. Part Type 1 (Eg.) Component
  - a. Part Classification 1 (Eg.) Rotables
  - b. Part Classification 2 (Eg.) Repairable
- ii. Part Type 2
  - a. Part Classification 1
  - b. Part Classification 2

If the Inventory Management Tree View is set as 'Part Category' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

- a. Part Category 1 (Count)
- b. Part Category 2 (Count)

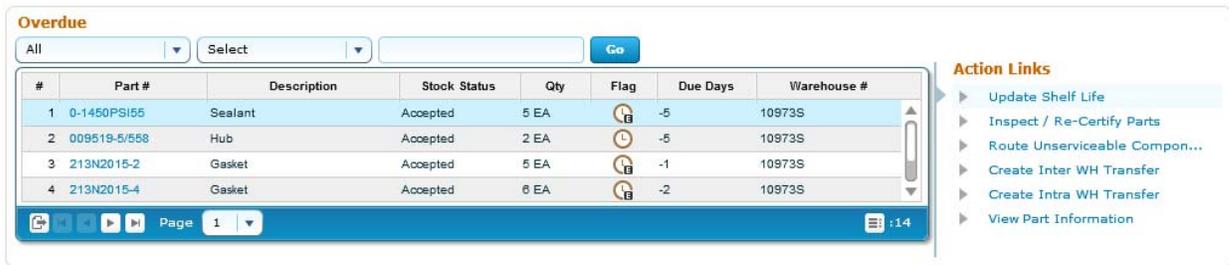
In addition, this section also provides the user with an ability to search for Parts in a specific Warehouse #.

**Exhibit 17: Identifies the Tree Section in Inventory Management & Alerts Tab**



1) **Part List Panel & Part Level Action Links:** This section displays the Part-Stock Status combination that forms the count displayed against the child node in the tree section. This section is populated by the click of the tree section’s child node. The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Stock Status combination.

**Exhibit 18: Identifies the Part List Panel & Part Level Action Links (Inventory Management & Alerts Tab)**



In addition, this section also has the ‘Direct Search’ capability similar to the other tab.

2) **Part Detailed Panel & Detailed Level Action Links:** This section displays the Part-Serial / Lot # combination that forms the count displayed against the Part – Stock Status combination in the multi-line of the Part List Panel under two sub-sections: Part Details and Storage Details. This section is populated by the click of the Part # in the multi-line of the Part List Panel. The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Serial # combination.

**Exhibit 19: Identifies the Part Detailed Panel & Detailed Level Action Links (Inventory Management & Alerts Tab)**

The screenshot displays a software interface for part management. It is divided into three main sections:

- Part Details:** Located on the left, it shows information for Part # 0-1450P3155, Description Sealant, Part Type Component, and Qty 5 EA.
- Storage Details:** A central table with columns for #, Zone/Bin, Qty, Serial/Lot, CND, Exp/Due Dt, Fac.Obj/Comp, and Ownership. It lists four items with serial numbers SL00301 through SL00305.
- Action Links:** A list of actions on the right, including Update Component Condition, Record Part-Serial Change, Maintain Part Certificates, View Part - Serial / Lot History, and View Component Record.

#	Zone/Bin	Qty	Serial/Lot	CND	Exp/Due Dt	Fac.Obj/Comp.	Ownership
1	03/3	1 EA	SL00301			AIR-3822	Owned
2	03/3	1 EA	SL00303			AIR-3824	Owned
3	03/3	1 EA	SL00304			AIR-3825	Owned
4	03/3	1 EA	SL00305			AIR-3826	Owned

## Dashboard for managing Inventory Operations

*Reference: AHBE-7243, AHBE-6955, AHBE-7649*

### Background

Aircrafts are strategically positioned in several Field Bases to provide better and cost effective services to end customers who are around the base. Though major maintenance of the Aircraft happens in Main Base, Field Base is responsible for day to day maintenance of the aircraft to keep it airworthy. Unlike Main Base, Field Bases have very few staffs. In most cases, it will be one person who will be managing it.

The responsibility of a Field Base Personnel does not limit to Aircraft maintenance, but, extends to managing the warehouse as well (i.e.) Request, Issue, Receive, Ship parts etc. It is evident that a Field Base Personnel needs to do several activities on a day to day basis and have them recorded in the organization's ERP system. Though, physically all the required activities are done, recording the same in the ERP system becomes cumbersome, because, it is required to visit different processes, activities and screens for entering the data. Mechanic frequently gets lost while working in the system because of complex navigation, lack of clarity on the next step etc.

Business need is to provide a dashboard to manage Inventory Operations, which would enlist the activities pending for action, in the Inventory stand point, (i.e.) Requests, Issues, Receipts, etc. that needs to be processed and in the Maintenance Stand point, (i.e.) Alerts on Parts that are due for Maintenance, Shelf Life Expiry and Tool Calibration.

### Change Details

A New Screen, "**Manage Screen Defaults & Preferences**" has been developed to identify the parameters which govern the data displayed in the "**Inventory Operations**" WorkSpace.

### Manage Screen Default & Preferences

This screen facilitates the User to set the Preference for a given User – Rolek – User Interface combination. This screen has got two sections which are

- i. Preference For
- ii. Defaults & User Preference

**Exhibit 1: Identifies the Manage Screen Defaults & Preferences screen**

#	Defaults & Preference	Mandatory?	Permitted Value	Value	Status	Error Message
1	MR Priority 1	No	Priority Other than "AOG"	Normal	Defined	
2	MR Priority 2	No	Priority Other than "AOG"	Expedite	Defined	
3	Inventory Management Tree View	No	Enter '1' for 'Part Type - Classification', '2' for 'Part Category'	1	Defined	
4	Default Alert Days	No	Enter No. of Days to be considered for Alerts when it is not defined	2	Defined	
5	Lead Time to Ship Exchange Core	No	Lead Time	30	Defined	

1) **Preference For:** This section has the following controls, for whose combination is the Parameters listed in Defaults & User Preference section is defined.

- iii. Set Preference For (User Name)
- iv. Role
- v. User Interface (WorkSpace Name)

2) **Defaults & User Preference:** This section has the list of parameters identified (by system) for a given WorkSpace. In the case of the **'Inventory Operations WorkSpace'**, the lists of parameters identified are,

- vi. MR Priority 1 (Request Priority other than AOG, that needs to be prioritized)
- vii. MR Priority 2 (Request Priority other than AOG, that needs to be prioritized)
- viii. Inventory Management Tree View (structure in which the Inventory Management Tree should be viewed i.e., whether at the Part Category level or at the Part Type – Classification level)
- ix. Default Alert Days (In case the Alert days is not defined, this parameter helps in identifying the Alert Period for the Part)
- x. Lead Time to Ship Exchange Core (Lead time for the shipping of the Core Part against an "Exchange" or "PBH Exchange" Purchase Order)

## Inventory Operations WorkSpace

The Inventory Operations WorkSpace will be the landing page for the Field Base Personnel and this WorkSpace has got the following panels in it.

- i. My Area & Easy Launch Panel
- ii. Inventory Operations Tab – External Receiving, Issue & Return, Transfer
  - a. Tree Panel
  - b. Document List Panel
  - c. Document Preview Panel
  - d. Action Links and Quick Links Panel
  - e. Charts Panel
- iii. Inventory Management & Alerts Tab
  - a. Count Display
  - b. Tree Section
  - c. Part List Panel & Part Level Action Links  
Part Details Panel & Detailed Level Action Links

**Exhibit 2: Identifies the Inventory Operations WorkSpace**

The screenshot displays the 'Inventory Operations' workspace. At the top, there's a navigation bar with 'My Area: Work Center' and 'YUL-100-00'. Below this, the 'Inventory Operations' tab is active, showing sub-tabs for 'External Receiving', 'Issue & Return', and 'Transfer'. The 'External Receiving' sub-tab is selected, displaying a 'Warehouse View' on the left with a tree structure for 'YULCS' and 'Goods Receipt (45)'. The main area shows a 'Goods Receipt' table with columns for #, Type, Document #, Date, Priority, Due/Age, Status, Aircraft, and References. A bar chart on the right shows counts for 'GR', 'RR', and 'CGR' across 'Dec 13' and 'Nov 13'. At the bottom, there are 'Document Details' and 'Part Details' panels. The 'Document Details' panel shows information for document 'RGP0002792011'. The 'Part Details' panel shows details for part '9821A' (Flaps). A right-hand panel contains 'Action Links' and 'Quick Links' such as 'Cancel Receipt', 'Edit Serial/Lot Details', 'View Purchase Order', and 'View Release Slip'.

### My Area & Easy Launch Panel

**My Area:** This section displays the Area of operation for the login user. The Area could be defined / modified by using the Edit icon provided. The documents shall be retrieved in the Workspace for processing based upon the defined Area.

### Exhibit 3: Identifies My Area section



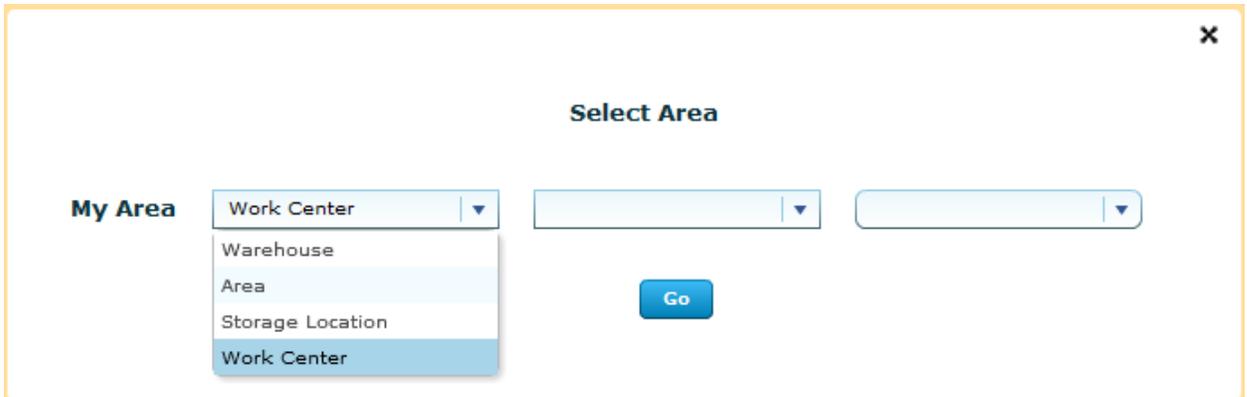
The different types of Areas that could be identified as My Area are:

- i. Work Center #
- ii. Warehouse #
- iii. Storage Location
- iv. Area

### Select or Modify "My Area"

Click the "Edit Icon"  to set or modify My Area. On click of the icon following screen will be launched.

### Exhibit 4: Identifies Pop-up screen to define My Area



The pop-up screen has three drop downs. 1<sup>st</sup> drop down will be loaded with the following values: Work Center, Storage Location, Area and Warehouse depending upon user access rights to one or more Work Centers/Warehouse. It is mandatory to select a value.

The 2<sup>nd</sup> drop down will be loaded based on the value chosen in the 1<sup>st</sup> drop down. For example, if the 1<sup>st</sup> drop down is selected as “Warehouse”, then the list of Warehouses mapped to the login user will be loaded in the 2<sup>nd</sup> drop down and user can select a particular warehouse as the Area of operation. In the event where the user is mapped to more than one warehouses, a blank value will also be loaded and if user leaves the 2<sup>nd</sup> drop down as blank, information pertaining to all the warehouses will be displayed in the WorkSpace. The 3<sup>rd</sup> drop down will be loaded based on the value chosen in the 2<sup>nd</sup> drop down. For example, if Storage Location is selected in the 1<sup>st</sup> drop down then the 2<sup>nd</sup> one will be loaded with corresponding storage locations upon selection of a particular storage location the 3<sup>rd</sup> drop down will be loaded with the associated warehouses. Refer to the table below for more details.

**Exhibit 5: Identifies the logic of loading various drop downs in My Area pop-up screen**

1 <sup>st</sup> Drop Down	2 <sup>nd</sup> Drop Down	3 <sup>rd</sup> Drop Down
Work Center	Loaded with the list of Work Centers mapped to login user	Loaded with the list of Warehouse mapped to the Work Center chosen in 2 <sup>nd</sup> drop down.
Storage Location	Loaded with the list of Storage Location mapped to login user, derived through Warehouse – Storage Location mapping	Loaded with the list of Warehouse mapped to the Storage Location chosen in 2 <sup>nd</sup> drop down.
Area	Loaded with the list of Area identified for the warehouses mapped to the login user.	Loaded with the list of Warehouse mapped to the Area chosen in 2 <sup>nd</sup> drop down.
Warehouse	Loaded with the list of Warehouse mapped to the login user	Loaded with the list of Zones identified for the Warehouse chosen in 2 <sup>nd</sup> drop down. <i>Note: Zone information is only used in the Inventory Management &amp; Alerts tab of the WorkSpace</i>

 *Note: Values chosen for “My Area” determines the details that will be displayed in the WorkSpace.*

**Easy Launch:** This section facilitates launch of various application screens for creation of receipt. User can enter a Purchase Order, Repair Order, Loan Order, Rental Order or a Stock Transfer Issue and press the “Go” button to create respective receipts.

Depending upon the Document # entered, "Go" button will launch respective receiving screens to facilitate receipt creation.

**Exhibit 6: Identifies the Easy Launch section**



The screenshot shows a horizontal navigation bar. On the left is an icon of a document with an arrow pointing up and right, followed by the text "Easy Launch" in orange. To the right are two radio buttons: the first is selected and labeled "Create", the second is unselected and labeled "Edit / View". Further right is a dropdown menu with "Receipt" selected and a downward arrow. To the right of the dropdown is a text input field with the placeholder text "Document #". On the far right is a blue button with the text "Go" in white.

 *Note: Radio button "Edit/View" is disabled and will be enabled in the future release, once the feature is provided to modify or view receipt from the WorkSpace.*

## External Receiving Summary

Reference: AHBE-7243

### Background (External Receiving Summary)

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. One of the primary activities in the management of Warehouse is the management of Receipts from External Agents (i.e.) Suppliers and Customers.

In order to achieve the effective management of the External Receipts (i.e.) Regular Purchases, Repair Receipts, Customer Goods Receipts and Loan / Rental Receipts, it is required that they need to be summarized in the WorkSpace, based upon the Receipt Type and the action that is pending on the respective document.

### Change Details (External Receiving Summary)

A button titled 'External Receiving' has been provided under the **Inventory Operations** tab, to enlist the different External Receipts that needs to be acted upon (i.e.) Goods Receipts or Repair Receipts or Customer GR or Loan Receipt or Rental Receipts under each Warehouse.

The different sections available in this tab are discussed below.

### Exhibit 7: Identifies the External Receiving section

The screenshot displays the 'External Receiving' interface. At the top, there are tabs for 'External Receiving', 'Issue & Return', and 'Transfer'. Below this, a 'Warehouse View' section shows a tree panel for 'YULCS' with sub-items: 'Goods Receipt (45)', 'Orders - Due for Receipt (6)', 'Draft (6)', and 'To be Confirmed (7)'. The main area features a 'Goods Receipt' table with columns: #, Type, Document #, Date, Priority, Due/Age, Status, Aircraft, and References. The table lists four entries. To the right of the table is a bar chart showing counts for 'GR', 'RR', and 'CGR' for 'Dec 13' and 'Nov 13'. Below the table are sections for 'Document Details' (showing document # RGP0002792011, date 2013-08-14, status Pending Serial /, type Regular Purchase, and references POA-000160-2013) and 'Part Details' (showing part # 9821A, description Flaps, qty 5 CL, stock status Owned, and source doc POA-000160-2013). On the far right, there are 'Action Links' and 'Quick Links' for Cancel Receipt, Edit Serial/Lot Details, View Purchase Order, and View Release Slip.

### Tree Panel (External Receiving Summary)

The Tree Panel comprises of the following controls.

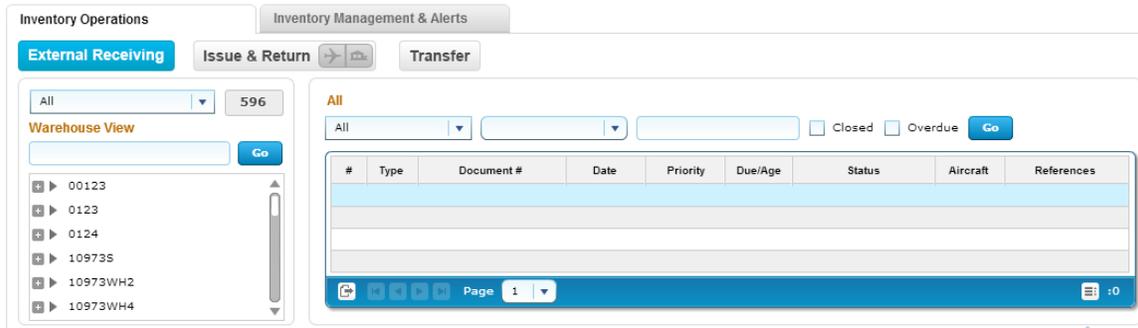
- i. Receipt Type wise Count Display
- ii. Warehouse specific Search

iii. Document Status wise Tree Display

**Receipt Type wise Count Display**

The Receipt Type drop-down will be loaded with the different External Receipt types (viz. Goods Receipt, Repair Receipt, Customer GR, Loan Receipt and Rental Receipt). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

**Exhibit 8: Identifies the Receipt Type wise Count Display (External Receiving summary)**

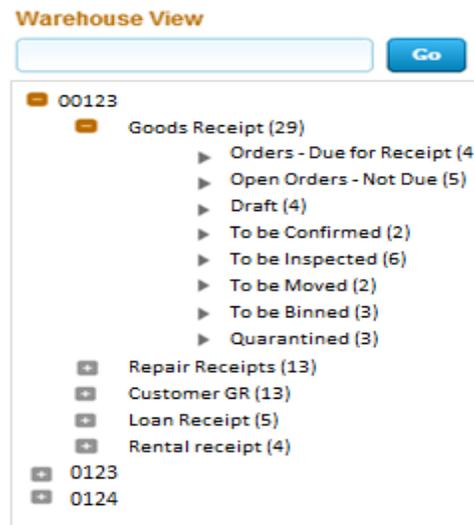


**Warehouse Specific Search**

This control helps in processing all the documents that are pending in a particular Warehouse. The interested Warehouse could be searched to have the tree formed with the documents pending in that Warehouse alone.

**Document Status wise Tree Display**

This section displays the break-down for the count displayed besides the Receipt Type drop down at Warehouse – Possible Action (derived based upon Document Status) level.

**Exhibit 9: Identifies the Tree Display (External Receiving summary)**

The possible child nodes under each of the parent nodes (Goods Receipt or Repair Receipt or Customer GR or Loan Receipt or Rental Receipt) are given below.

- i. Goods Receipt or Customer GR or Repair Receipt
  - a. Orders - Due for Receipt
  - b. Open Order – Not Due
  - c. Draft
  - d. To be Confirmed
  - e. To be Inspected
  - f. To be Moved
  - g. To be Binned
  - h. Quarantined
- ii. Loan Receipt or Rental Receipt
  - a. Orders - Due for Receipt
  - b. Open Order – Not Due
  - c. To be Confirmed
  - d. To be Inspected
  - e. Quarantined

## Document Status wise Tree Display - Sub Nodes Logic

### 1) Goods Receipt:

- i. Orders – Due for Receipt: Count of the Purchase Orders (other than the PO Type “Customer Goods”) and Release Slips which has at least one Part that is due for receipt in a given Warehouse, though the entire quantity should have been received prior to the current system date (as per the Earliest Due Date definition in Purchase Order)
- ii. Open Orders – Not Due: Count of the Purchase Orders (other than those of type “Customer Goods”) and Release Slips which has at least one Part that is due for receipt in a given Warehouse with the due date well above the current system date.

### 2) Repair Receipt

- i. Orders – Due for Receipt: Count of the Repair Orders, with the Repair Shop Shipping Date earlier than the current system date, in the given Return Warehouse #, for which there exists at least one Part due for receipt.
- ii. Open Orders – Not Due: Count of the Repair Orders, with the Repair Shop Shipping Date well above the current system date, in the given Return Warehouse #, for which there exists at least one Part due for receipt.

### 3) Customer GR:

- i. Orders – Due for Receipt: Count of the Purchase Orders of Type “Customer Goods” which has at least one Part that is due for receipt in a given Warehouse, though the entire quantity should have been received prior to the current system date (as per the Earliest Due Date definition in Purchase Order)
- ii. Open Orders – Not Due: Count of the Purchase Orders of Type “Customer Goods” which has at least one Part that is due for receipt in a given Warehouse with the due date well above the current system date.

### 4) Goods Receipt or Repair Receipt or Customer GR:

- i. Draft: Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as ‘Record Serial / Lot Detail’ for at least one Part.
- ii. To be confirmed: Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as ‘Confirm Receipt’ for at least one Part.
- iii. To be inspected: Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as ‘Inspect Part’ or ‘Confirm Inspection’, for at least one Part.
- iv. To be moved: Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as ‘Move Part’, for at least one Part.

- v. To be binned: Count of Receipts of the selected Receipt Type, in the given Movement Warehouse, with the line status as 'Accepted – Pending Binning' for at least one Part.
- vi. Quarantined: Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Resolve Quarantine', for at least one Part.

**5) Loan Receipt:**

- i. Orders – Due for Receipt: Count of Loan Orders (against which Loan Receipt is not recorded) in the given Warehouse # for which the Required Date is less than the current system date.
- ii. Open Orders – Not Due: Count of Loan Orders (against which Loan Receipt is not recorded) in the given Warehouse # for which the Required Date in the Loan Order is well above the current system date.

**6) Rental Receipt:**

- i. Orders – Due for Receipt: Count of Rental Orders (against which Rental Issue is confirmed, but Rental Receipt is not recorded), with the Due Days for Return lesser than zero.
- ii. Open Orders – Not Due: Count of Rental Orders (against which Rental Issue is confirmed, but Rental Receipt is not recorded), with the Due Days for return greater than zero.

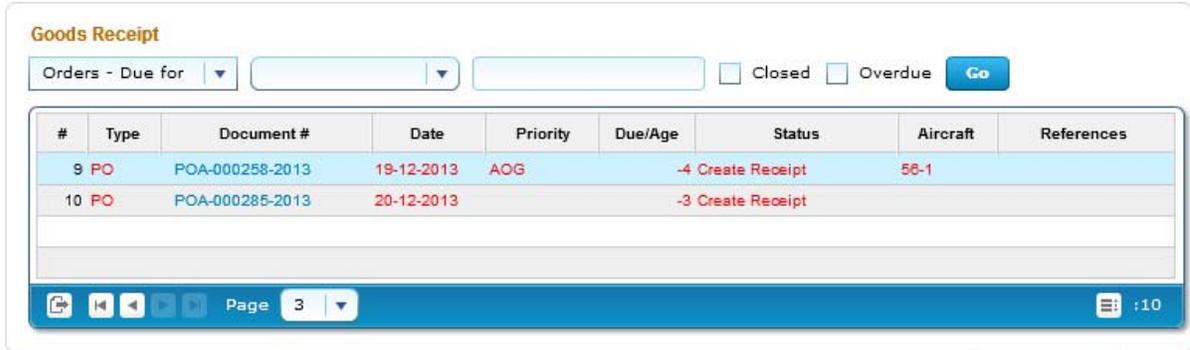
**7) Loan Receipt or Rental Receipt**

- i. To be inspected: Count of Loan Receipts in Received status, which requires the Inspection recording is mandatory and is due.
- ii. To be confirmed: Count of Loan Receipts in Received status against which Inspection recording is not due or mandatory.
- iii. Quarantined: Count of Loan Receipts in Received status where Quarantined Qty is not null.

**Document List Panel (External Receiving Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 10: Identifies the Document List Panel (External Receiving summary)**



In addition, this section also provides the user an alternative way of traversal in the WorkSpace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Closed or Short closed or cancelled documents of Purchase Order or Release Slip or Repair Order or Loan Order or Rental Order or Goods Receipt or Repair Receipt or Customer GR or Loan Receipt or Rental Receipt.

The Check-Box, 'Overdue', offers the user to fetch only those Purchase Orders or Repair Orders or Loan orders or Rental Orders that are Overdue (i.e.) Due Date is earlier than the current server date.

**Document Preview Panel (External Receiving Summary)**

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

**Exhibit 11: Identifies the Document Preview Panel (External Receiving summary)**



**Action Links and Quick Links Panel (External Receiving Summary)**

**Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 12: Identifies the Document Preview Panel along with Action Links (External Receiving summary)**



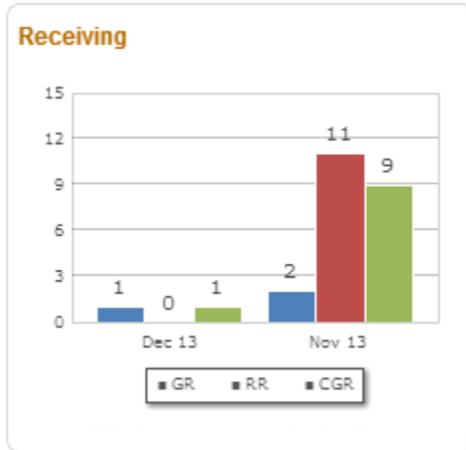
**Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

**Exhibit 13: Identifies the Quick Links section (External Receiving summary)**



**Charts Panel (External Receiving Summary):** This section comprises of the Receiving charts that get populated with the Count of Goods Receipt or Repair Receipt or Customer GR for the previous two months for the Warehouse # selected.

Exhibit 14: Identifies the Charts panel (External Receiving summary)



## Issue & Return Summary

Reference: AHBE-7649

### Background (Issue & Return Summary)

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. Managing of a Warehouse includes the processing of the Requests, Issues, Returns, etc. that are made in that Warehouse.

The business requirement is that Warehouse personnel should be equipped with the visibility of the count of the Requests, Issues or Returns at two levels.

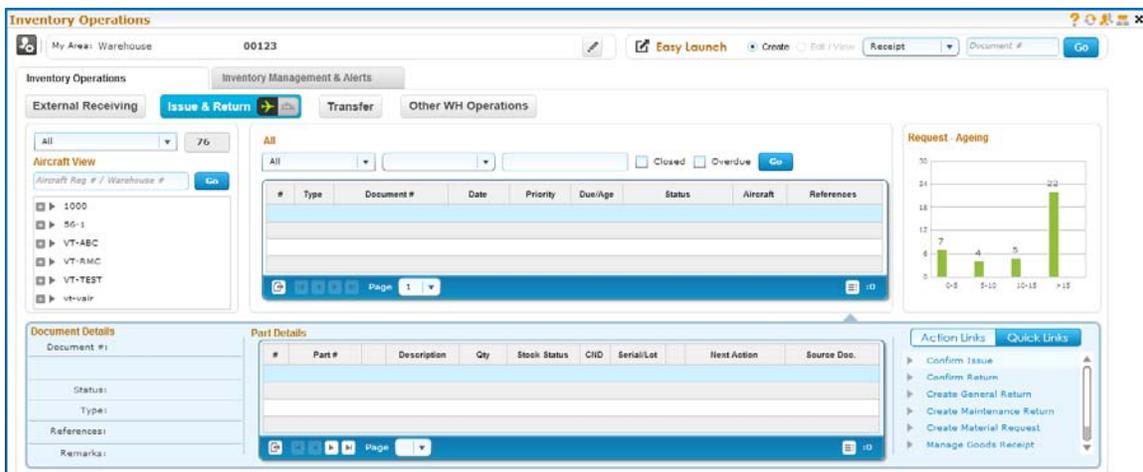
- i. Aircraft Level
- ii. Warehouse Level

### Change Details (Issue & Return Summary)

A tab titled 'Issue & Return' has been provided in the **Inventory Operations** WorkSpace for the Field Base Personnel, to have a view on all the pending transactions (i.e.) Requests or Issues or Returns under each Aircraft or Warehouse (based on the User selection near the caption 'Issue & Return')

The different sections available in this tab that were earlier listed are detailed below.

### Exhibit 15: Identifies the Issue & Return summary



### Tree Panel (Issue & Return Summary)

The Tree Panel comprises of the following controls.

- i. Document Type wise Count Display
- ii. Warehouse specific Search
- iii. Document Status wise Tree Display

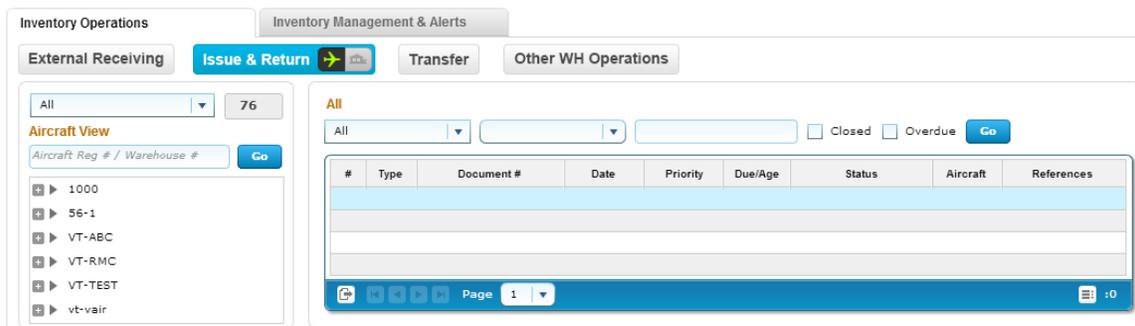
The Tree Panel is populated primarily based on the level at which the documents are required to be viewed (i.e.) Aircraft View or Warehouse View. The primary difference between these two views is that the Aircraft View will display only those Requests, Issues and Returns made with reference to a given Aircraft, thereby eliminating the Loan Issues, Rental Issues, Exchange Issues, etc.

However, the Warehouse View can be used to retrieve all types of issues that are to be made or that are made from a given Warehouse #.

### Document Type wise Count Display

The Document Type drop down will be loaded with the different documents that are applicable for processing in the given section (viz. Material Requests, Stock Issues and Stock Returns). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

### Exhibit 16: Identifies the Document Type wise Count Display (Issue & Return summary)



### Aircraft / Warehouse Specific Search

Based upon the mode of view (i.e.) Aircraft / Warehouse view, this control helps in retrieval of all the documents that are pending in a given Aircraft or Warehouse. The

interested Aircraft or Warehouse could be searched to have the tree formed with the documents pending in that Aircraft or Warehouse alone.

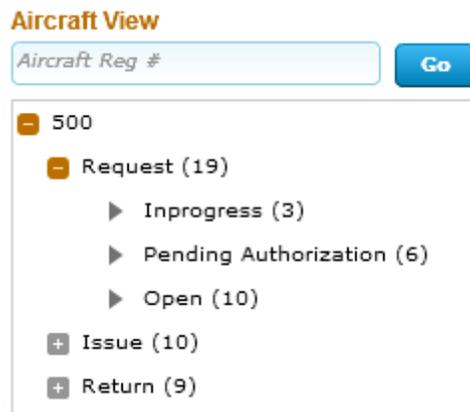
**Document Status wise Tree Display**

This section displays the break-down for the count displayed besides the Document Type drop down at Aircraft – Possible Action or Warehouse – Possible Action level, based upon the mode of view selected.

**Document Status wise Tree Display – Aircraft View**

If the mode of view is ‘Aircraft View’, then the Count of the documents (viz. Requests, Issues or Returns) shall be displayed as those that are doe for a given Aircraft Reg. # from the defined Area of User operation (i.e.) My Area definition.

**Exhibit 17: Identifies the Document Status wise Tree Display (Issue & Return summary – Aircraft View)**



The possible child nodes under each of the parent nodes (Request or Issue or Return) are given below.

- i. Request
  - a. In progress
  - b. Pending Authorization
  - c. Open
- ii. Issue
  - a. In progress
  - b. Pending Confirmation

- iii. Return
  - a. In progress
  - b. Pending Confirmation

#### **Document Status wise Tree Display - Sub Nodes Logic (Aircraft View)**

**Requests:**

***In progress***

Count of the Material Requests for a given Aircraft Reg # that are in Draft status.

***Pending Authorization:***

Count of the Material Requests for a given Aircraft Reg. # that are in Fresh status.

***Open:***

Count of the Material Requests for a given Aircraft Reg, # that are in Authorized status and is available in the sourcing cycle.

**Issues:**

***In progress***

Count of the Stock Issues against a given Aircraft Reg # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Issues against a given Aircraft Reg. # that are in Fresh status.

**Returns:**

***In progress***

Count of the Stock Returns against a given Aircraft Reg # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Returns against a given Aircraft Reg. # that are in Fresh status.

#### **Document Status wise Tree Display – Warehouse View**

If the mode of view is 'Warehouse View', then the Count of the documents (viz. Requests, Issues or Returns) shall be displayed as those that are due for a given Warehouse # from the defined Area of User operation (i.e.) My Area definition.

The different child nodes of the Tree display for the Warehouse View is discussed below.

**Exhibit 18: Identifies the Document Status wise Tree Display (Issue & Return summary – Warehouse View)**



The possible child nodes under each of the parent nodes (Request or Issue or Return) are given below.

- i. Request
  - a. In progress
  - b. Pending Authorization
  - c. Open
- ii. Issue
  - a. Orders Pending Issue - Due
  - b. In progress
  - c. Pending Confirmation
- iii. Return
  - a. In progress
- iv. Pending Confirmation

**Document Status wise Tree Display - Sub Nodes Logic (Warehouse View)**

**Requests:**

***In progress***

Count of the Material Requests for a given Warehouse # that are in Draft status.

***Pending Authorization:***

Count of the Material Requests for a given Warehouse # that are in Fresh status.

***Open:***

Count of the Material Requests for a given Warehouse # that are in Authorized status and is available in the sourcing cycle.

**Issues:**

**Orders Pending Issue – Due:**

Count of the Exchange or PBH Purchase Orders or Loan Orders or Rental Orders or Repair Orders or Stock Transfer Orders against which issue of Parts is pending as per the current system date, in a given Warehouse.

**In progress**

Count of the Stock Issues against a given Warehouse # that are in Draft status.

**Pending Confirmation:**

Count of the Stock Issues against a given Warehouse # that are in Fresh status.

**Returns:**

**In progress**

Count of the Stock Returns against a given Warehouse # that are in Draft status.

**Pending Confirmation:**

Count of the Stock Returns against a given Warehouse # that are in Fresh status.

**Document List Panel (Issue & Return Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 19: Identifies the Document List Panel (Issue & Return button summary)**

#	Type	Document #	Date	Priority	Due/Age	Status	Aircraft	References
1	MR	MR-003164-2013	07/09/2013	Normal	-3	Process MR	500	
2	MR	MR-003175-2013	09/09/2013	Normal	-1	Process MR	500	LC-000951-2013
3	MR	MR-003165-2013	11/09/2013	Normal	1	Process MR	500	

In addition, this section also provides the user an alternative way of traversal in the Workspace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Closed Material Requests; Confirmed Issues and Confirmed Returns.

The Check-Box, 'Overdue', offers the user to fetch only those Issues or Requests that are Overdue (i.e.) Due Date is earlier than the current server date. The Overdue Check-box does not impact the Search for Returns.

The Pending Requests count displayed is the count of Material Requests, which are available in any of the Child node in the tree structure possible, for which the Priority is either AOG or MR Priority 1 or MR Priority 2 (as defined in the **Manage Screen Defaults & Preference** screen)

### Document Preview Panel (Issue & Return Summary)

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

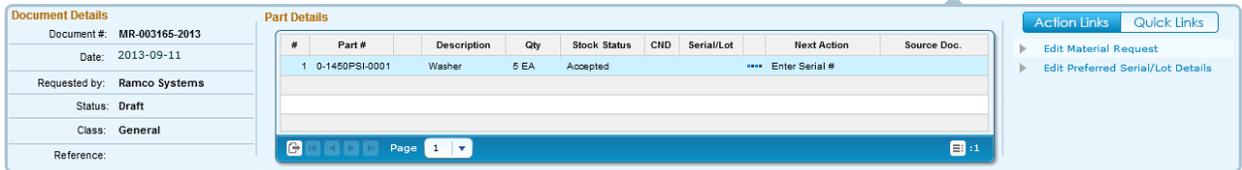
### Exhibit 20: Identifies the Document Preview Panel (Issue & Return summary)



### Action Links and Quick Links Panel (Issue & Return Summary)

**Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 21: Identifies the Document Preview Panel along with Action Links (Issue & Return button summary)**



**Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

**Exhibit 22: Identifies the Quick Links section (Issue & Return button summary)**



**Charts Panel (Issue & Return Summary)**

This section comprises of the Request or Issue Ageing charts that gets populated with the Count of Requests or Issues Vs the Due Days Range.

This section is populated with the respective chart on the click of the count displayed in Transaction Wise Count Section.



## Transfer Summary

Reference: AHBE-7649

### Background

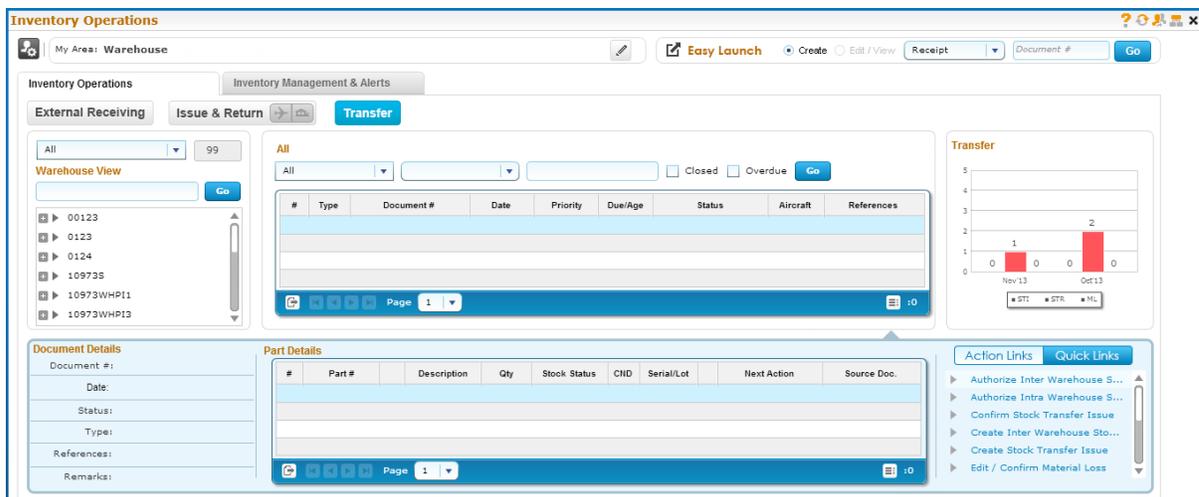
As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. Managing of a Warehouse includes the processing of the Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Stock transfer etc. that are made in that Warehouse.

The Business Requirement is to have a single dashboard wherein the Field Base Personnel would be able to have a summary of all the pending activities related to transfer of stock so that the Stock Transfer could be managed efficiently.

### Change Details

A button titled **'Transfer'** has been provided under the **Inventory Operations** tab for the Field Base Personnel, to have a view on all the pending stock transfer related transactions (i.e.) Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Stock transfer under each Warehouse.

**Exhibit 24: Identifies the Transfer summary in Inventory Operations WorkSpace**



### Tree Panel (Transfer Summary)

The Tree Panel comprises of the following controls.

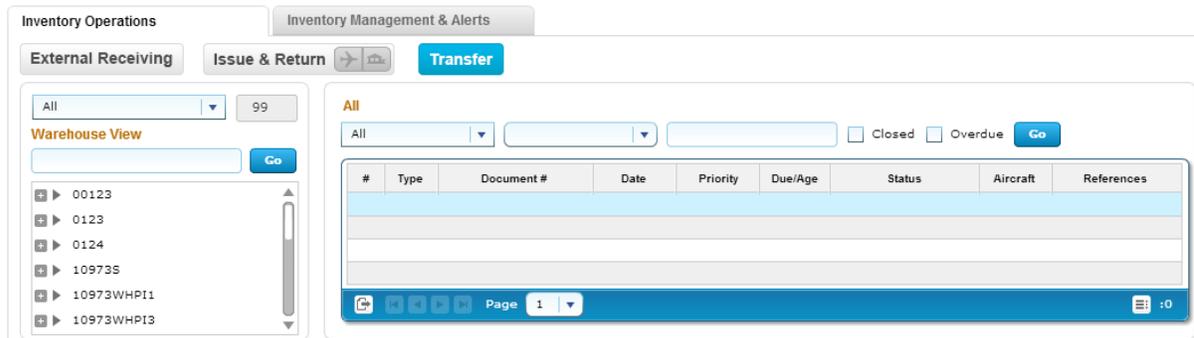
- i. Document Type wise Count Display

- ii. Warehouse specific Search
- iii. Document Status wise Tree Display

### Document Type wise Count Display

The Document Type drop down will be loaded with the different documents that are applicable for processing in the given section (viz. Transfer Issue, Transfer Receipt, Material Loss, Transfer Order and Intra Warehouse Stock Transfer). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

### Exhibit 25: Identifies the Document Type wise Count Display (Transfer summary)



### Warehouse Specific Search

This control helps in retrieval of all the stock transfer documents that are pending in a given Warehouse. The interested Warehouse could be searched to have the tree formed with the documents pending in that Warehouse alone.

### Document Status wise Tree Display

This section displays the break-down for the count displayed besides the Document Type drop down at Warehouse – Possible Action level.

**Exhibit 26: Identifies the Document Status wise Tree Display (Transfer summary)**

The possible child nodes under each of the parent nodes (Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer) are given below.

- i. Transfer Issue
  - a. Draft
  - b. Fresh
  - c. Orders
  - d. Open Order
- ii. Transfer Receipt
  - a. To be Confirmed
  - b. Orders pending for Receipt
- iii. Material Loss
  - a. To be Confirmed
- iv. Transfer Order
  - b. Draft
  - c. To be Authorized
- v. Intra Warehouse Transfer
  - a. Draft
  - b. To be Authorized

**Document Status wise Tree Display - Sub Nodes Logic**

**Transfer Issue:**

***Draft:***

Count of the Stock Transfer Issues in Draft status, for a given Warehouse.

***Fresh:***

Count of the Stock Transfer Issues in Fresh status, for a given Warehouse.

***Orders – Due for Issue:***

Count of the Stock Transfer orders created from a given Warehouse, that are in Authorized status with the Need Date less than or equal to the current system date (with Stock Transfer Issue not being recorded for at least one part).

***Orders – Not Due:***

Count of the Stock Transfer orders created from a given Warehouse that is in Authorized status with the Need Date greater than the current system date (with Stock Transfer Issue not being recorded for at least one part).

**Transfer Receipt:**

***To be confirmed:***

Count of the Stock Transfer Receipts that are in Fresh status, in the given Warehouse.

***Orders pending for Receipt:***

Count of the distinct Stock Transfer Orders (for a given To Warehouse #), against which the Stock Transfer Issue is in Confirmed status, but Stock Transfer Receipt is not recorded.

**Material Loss:**

***To be confirmed:***

Count of the Material Loss documents recorded against a Stock Transfer document for a given Warehouse # that are in Fresh status.

**Transfer Order:**

***Draft:***

Count of the Stock Transfer orders created from a given Warehouse that is in Draft status.

***To be authorized:***

Count of the Stock Transfer orders created from a given Warehouse that is in Fresh status.

**Intra Warehouse Transfer:**

***Draft:***

Count of Intra Warehouse Stock Transfer Orders created from a given Warehouse that is in Draft status.

***To be authorized:***

Count of the Intra Warehouse Stock Transfer orders created from a given Warehouse that are in Fresh status.

**Document List Panel (Transfer Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 27: Identifies the Document List Panel (Transfer)**

**Transfer Receipt**

To be Confirmed |  |   Closed  Overdue

#	Type	Document #	Date	Priority	Due/Age	Status	Aircraft	References
1	STR	SRC-000090-2013	20-12-2013	Normal	3	Confirm Receipt		STI-000037-2013/00...
2	STR	SRC-000084-2013	17-12-2013	Normal	6	Confirm Receipt		STI-000127-2013/00...

Page 1 |       :2

In addition, this section also provides the user an alternative way of traversal in the Workspace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Canceled or Closed or short closed documents for Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer.

The Check-Box, 'Overdue', offers the user to fetch only those Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer that are Overdue (i.e.) Due Date is earlier than the current server date.

**Document Preview Panel (Transfer Summary)**

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

**Exhibit 28: Identifies the Document Preview Panel (Transfer summary)**

The screenshot shows a software interface with two main sections: 'Document Details' on the left and 'Part Details' on the right. The 'Document Details' section contains the following information:

- Document #: SRC-000084-2013
- Date: 2013-12-17
- Status: Fresh
- Type: Stock Transfer Receipt
- References: STI-000127-2013
- Remarks:

The 'Part Details' section is a table with the following data:

#	Part #	Description	Qty	Stock Status	CND	Serial/Lot	Next Action	Source Doc.
1	10973MT3TEST	10973mt3test	1 EA	Owned	NEW	SL-000301:-	Record Hazmat Compli	ST-000176-2013
2	10973MT3TEST	10973mt3test	1 EA	Owned	NEW	SL-000302:-	Record Hazmat Compli	ST-000176-2013

At the bottom of the 'Part Details' section, there is a pagination control showing 'Page 1' and a list icon with ':2'.

**Action Links & Quick Links Panel (Transfer Summary)**

**Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 29: Identifies the Document Preview Panel along with Action Links (Transfer View)**

This screenshot is similar to Exhibit 28 but includes an 'Action Links' and 'Quick Links' panel on the right side. The 'Document Details' and 'Part Details' sections are identical to those in Exhibit 28. The 'Action Links' panel contains the following links:

- Record Hazmat Compliance
- Cancel Transfer Receipt
- Confirm Transfer Receipt
- Edit Stock Transfer Receipt
- View Inter Warehouse Stock Tr...
- View Stock Transfer Issue

The 'Quick Links' panel is currently empty.

**Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

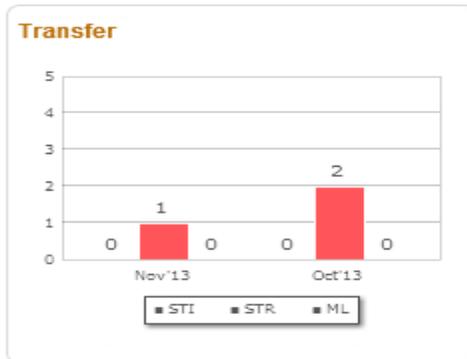
**Exhibit 30: Identifies the Quick Links section (Transfer summary)**



**Charts Panel (Transfer Summary)**

This section comprises of the Receiving charts that get populated with the Count of Transfer Issue or Transfer Receipt or Material Loss for the previous two months for the Warehouse # selected in my area.

**Exhibit 31: Identifies the Charts panel (Transfer summary)**



## Inventory Management & Alerts Tab

Reference: AHBE-7243

### Background

In addition to maintaining the Warehouse, the Field Base Personnel also needs to carry out the Maintenance of an Aircraft. In order to achieve this, it becomes vital for the Field Base Personnel to be alerted on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

The Business requirement is to provide ability for the Field Base Personnel to have an eye on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools), so that necessary action could be taken.

### Change Details

A tab titled 'Inventory Management & Alerts' has been provided in the **Inventory Operations** WorkSpace to have a view of the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

This tab alerts the user with the visibility of the inventoried parts that would be due for Maintenance or Shelf Life Expiry or Tools Calibration, along with the summary of the Parts available in the Serviceable and Unserviceable Warehouse # (at the Part Type – Classification or Part Category level, as defined in the Manage Screen Defaults & Preference screen).

The red color indicator in the tab denotes that there are parts that overdue for any of the activities mentioned above.

### Exhibit 32: Identifies the Inventory Management & Alerts Tab

The screenshot shows the 'Inventory Management & Alerts' tab in the 'Inventory Operations' workspace. The interface includes a navigation bar with 'Overdue' (9), 'Alerts' (0), and 'Inventory' tabs. A main table displays overdue parts with columns for Part #, Description, Stock Status, Qty, Flag, Due Days, and Warehouse #. Below this, there are sections for 'Part Details' and 'Storage Details' for a selected part, along with 'Action Links' for various maintenance and inventory actions.

#	Part #	Description	Stock Status	Qty	Flag	Due Days	Warehouse #
1	0-0110-3-0442:3836...	Acoustical AR Y Panel	Accepted	1 EA		-31	00123
2	0-0440-4-0005:38361	Mapoo AR Oven	Accepted	1 EA		-100	00123
3	0-0440-4-0005:38361	Mapoo AR Oven	Customer	1 EA		-164	00123

**Exhibit 33: Identifies the Count Display section (Inventory Management & Alerts Tab)**

**Tree Section:** This section displays the break-down for the count displayed in the Overdue or Alerts button. If the Inventory button is selected, this section displays the break-down of the Stock available in the Serviceable or Unserviceable Warehouse – Zone combination.

The child nodes for Overdue and Alerts buttons are:

- i. Shelf Life Expiry
- ii. Tool Calibration
- iii. Maintenance Due

If the Inventory Management Tree View is set as 'Part Type – Classification' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

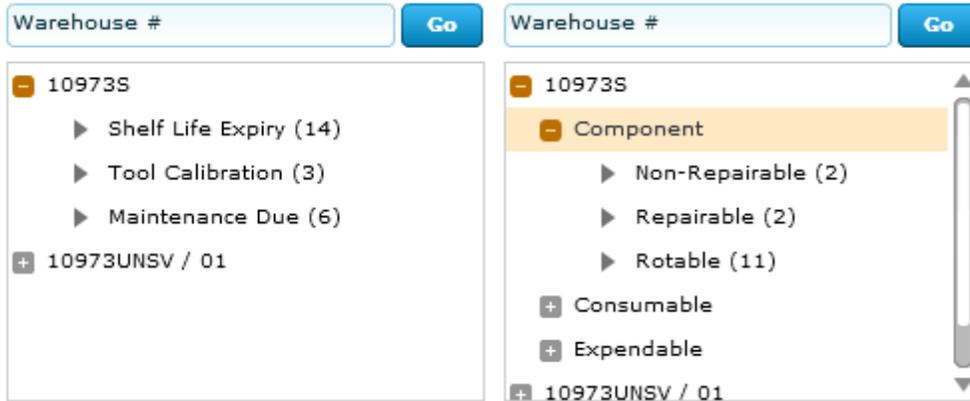
- i. Part Type 1 (Eg.) Component
  - a. Part Classification 1 (Eg.) Rotables
  - b. Part Classification 2 (Eg.) Repairable
- ii. Part Type 2
  - a. Part Classification1
  - b. Part Classification 2

If the Inventory Management Tree View is set as 'Part Category' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

- i. Part Category 1 (Count)
- ii. Part Category 2 (Count)

In addition, this section also provides the user with an ability to search for Parts in a specific Warehouse #.

**Exhibit 34: Identifies the Tree Section in Inventory Management & Alerts Tab**



**Part List Panel & Part Level Action Links:** This section displays the Part-Stock Status combination that forms the count displayed against the child node in the tree section.

This section is populated by the click of the tree section's child node.

The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Stock Status combination.

**Exhibit 35: Identifies the Part List Panel & Part Level Action Links (Inventory Management & Alerts Tab)**



In addition, this section also has the 'Direct Search' capability similar to the other tab.

**Part Detailed Panel & Detailed Level Action Links:** This section displays the Part-Serial / Lot # combination that forms the count displayed against the Part – Stock Status combination in the multi-line of the Part List Panel under two sub-sections: Part Details and Storage Details. This section is populated by the click of the Part # in the multi-line of the Part List Panel. The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Serial # combination.

**Exhibit 36: Identifies the Part Detailed Panel & Detailed Level Action Links  
(Inventory Management & Alerts Tab)**

The screenshot displays a software interface with three main sections:

- Part Details:** Shows Part # 0-1450P5155, Description Sealant, Part Type Component, and Qty 5 EA.
- Storage Details:** A table with columns: #, Zone/Bin, Qty, Serial/Lot, CND, Exp/Due Dt, Fac.Obj/Comp, and Ownership. It lists four rows of inventory data.
- Action Links:** A list of actions including Update Component Condition, Record Part-Serial Change, Maintain Part Certificates, View Part - Serial / Lot History, and View Component Record.

#	Zone/Bin	Qty	Serial/Lot	CND	Exp/Due Dt	Fac.Obj/Comp	Ownership
1	03/3	1 EA	SL00301			AIR-3822	Owned
2	03/3	1 EA	SL00303			AIR-3824	Owned
3	03/3	1 EA	SL00304			AIR-3825	Owned
4	03/3	1 EA	SL00305			AIR-3826	Owned

## Dashboard for managing Inventory Operations

*Reference: AHBE-7243, AHBE-6955, AHBE-7649*

### Background

Aircrafts are strategically positioned in several Field Bases to provide better and cost effective services to end customers who are around the base. Though major maintenance of the Aircraft happens in Main Base, Field Base is responsible for day to day maintenance of the aircraft to keep it airworthy. Unlike Main Base, Field Bases have very few staffs. In most cases, it will be one person who will be managing it.

The responsibility of a Field Base Personnel does not limit to Aircraft maintenance, but, extends to managing the warehouse as well (i.e.) Request, Issue, Receive, Ship parts etc. It is evident that a Field Base Personnel needs to do several activities on a day to day basis and have them recorded in the organization's ERP system. Though, physically all the required activities are done, recording the same in the ERP system becomes cumbersome, because, it is required to visit different processes, activities and screens for entering the data. Mechanic frequently gets lost while working in the system because of complex navigation, lack of clarity on the next step etc.

Business need is to provide a dashboard to manage Inventory Operations, which would enlist the activities pending for action, in the Inventory stand point, (i.e.) Requests, Issues, Receipts, etc. that needs to be processed and in the Maintenance Stand point, (i.e.) Alerts on Parts that are due for Maintenance, Shelf Life Expiry and Tool Calibration.

### Change Details

A New Screen, "**Manage Screen Defaults & Preferences**" has been developed to identify the parameters which govern the data displayed in the "**Inventory Operations**" Workspace.

### Manage Screen Default & Preferences

This screen facilitates the User to set the Preference for a given User – Role – User Interface combination. This screen has got two sections which are

- i. Preference For
- ii. Defaults & User Preference

## Exhibit 1: Identifies the Manage Screen Defaults & Preferences screen

#	Defaults & Preference	Mandatory?	Permitted Value	Value	Status	Error Message
1	MR Priority 1	No	Priority Other than "AOG"	Normal	Defined	
2	MR Priority 2	No	Priority Other than "AOG"	Expedite	Defined	
3	Inventory Management Tree View	No	Enter '1' for 'Part Type - Classification', '2' for 'Part Category'	1	Defined	
4	Default Alert Days	No	Enter No. of Days to be considered for Alerts when it is not defined	2	Defined	
5	Lead Time to Ship Exchange Core	No	Lead Time	30	Defined	

### Preference For

This section has the following controls, for whose combination is the Parameters listed in Defaults & User Preference section is defined.

- i. Set Preference For (User Name)
- ii. Role
- iii. User Interface (WorkSpace Name)

### Defaults & User Preference

This section has the list of parameters identified (by system) for a given WorkSpace. In the case of the '**Inventory Operations WorkSpace**', the lists of parameters identified are,

- i. MR Priority 1 (Request Priority other than AOG, that needs to be prioritized)
- ii. MR Priority 2 (Request Priority other than AOG, that needs to be prioritized)
- iii. Inventory Management Tree View (structure in which the Inventory Management Tree should be viewed i.e., whether at the Part Category level or at the Part Type – Classification level)
- iv. Default Alert Days (In case the Alert days is not defined, this parameter helps in identifying the Alert Period for the Part)
- v. Lead Time to Ship Exchange Core (Lead time for the shipping of the Core Part against an "Exchange" or "PBH Exchange" Purchase Order)

### Inventory Operations WorkSpace

The Inventory Operations WorkSpace will be the landing page for the Field Base Personnel and this WorkSpace has got the following panels in it.

#### My Area & Easy Launch Panel

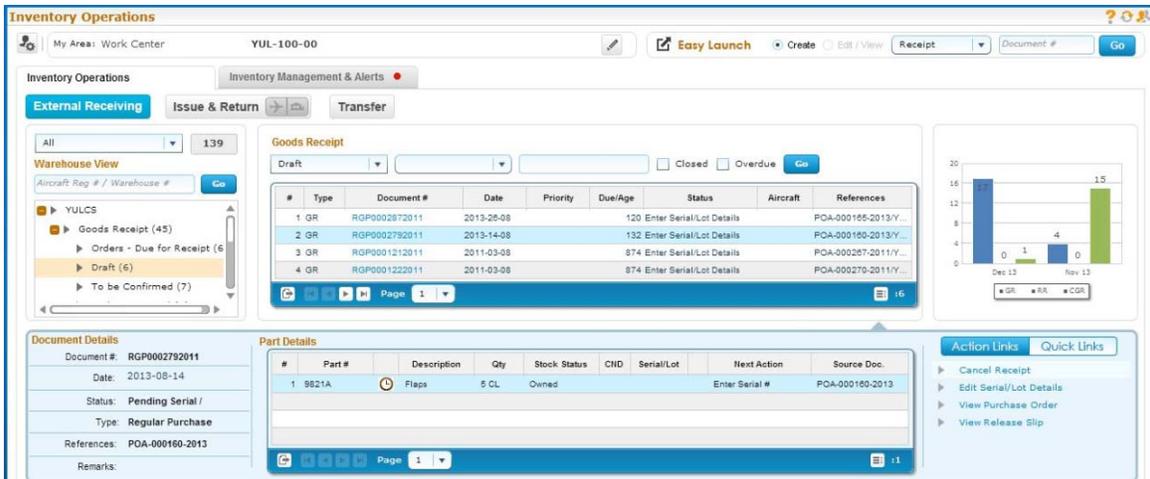
##### Inventory Operations Tab – External Receiving, Issue & Return, Transfer

- i. Tree Panel
- ii. Document List Panel
- iii. Document Preview Panel
- iv. Action Links and Quick Links Panel
- v. Charts Panel

##### Inventory Management & Alerts Tab

- i. Count Display
- ii. Tree Section
- iii. Part List Panel & Part Level Action Links
- iv. Part Details Panel & Detailed Level Action Links

Exhibit 2: Identifies the Inventory Operations WorkSpace



### My Area & Easy Launch Panel

**My Area:** This section displays the Area of operation for the login user. The Area could be defined / modified by using the Edit icon provided. The documents shall be retrieved in the WorkSpace for processing based upon the defined Area.

**Exhibit 3: Identifies My Area section**



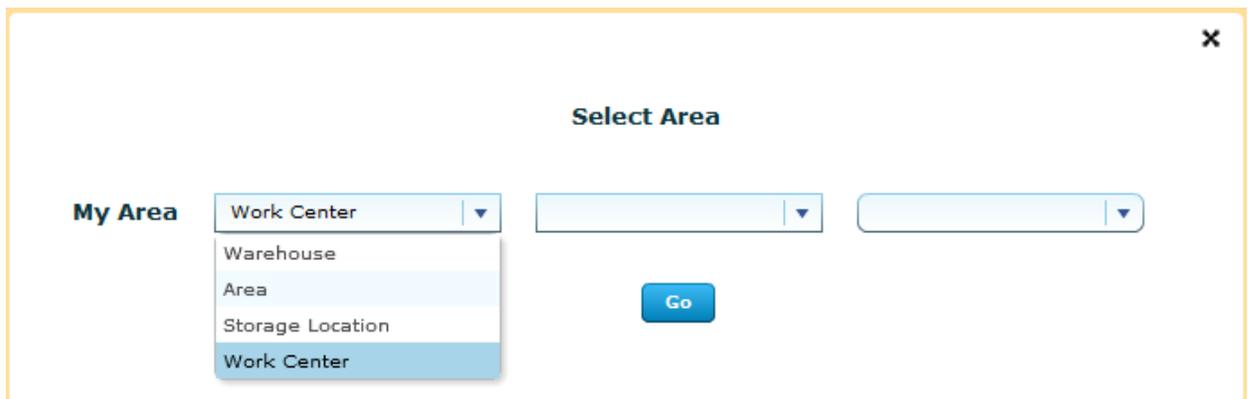
The different types of Areas that could be identified as My Area are:

- i. Work Center #
- ii. Warehouse #
- iii. Storage Location
- iv. Area

### Select or Modify "My Area"

Click the "Edit Icon"  to set or modify My Area. On click of the icon following screen will be launched.

**Exhibit 4: Identifies Pop-up screen to define My Area**



The pop-up screen has three drop downs. 1<sup>st</sup> drop down will be loaded with the following values: Work Center, Storage Location, Area and Warehouse depending upon user access rights to one or more Work Centers/Warehouse. It is mandatory to select a value.

The 2<sup>nd</sup> drop down will be loaded based on the value chosen in the 1<sup>st</sup> drop down. For example, if the 1<sup>st</sup> drop down is selected as “Warehouse”, then the list of Warehouses mapped to the login user will be loaded in the 2<sup>nd</sup> drop down and user can select a particular warehouse as the Area of operation. In the event where the user is mapped to more than one warehouses, a blank value will also be loaded and if user leaves the 2<sup>nd</sup> drop down as blank, information pertaining to all the warehouses will be displayed in the WorkSpace. The 3<sup>rd</sup> drop down will be loaded based on the value chosen in the 2<sup>nd</sup> drop down. For example, if Storage Location is selected in the 1<sup>st</sup> drop down then the 2<sup>nd</sup> one will be loaded with corresponding storage locations upon selection of a particular storage location the 3<sup>rd</sup> drop down will be loaded with the associated warehouses. Refer to the table below for more details.

**Exhibit 5: Identifies the logic of loading various drop downs in My Area pop-up screen**

<b>1<sup>st</sup> Drop Down</b>	<b>2<sup>nd</sup> Drop Down</b>	<b>3<sup>rd</sup> Drop Down</b>
<i>Work Center</i>	<i>Loaded with the list of Work Centers mapped to login user</i>	<i>Loaded with the list of Warehouse mapped to the Work Center chosen in 2<sup>nd</sup> drop down.</i>
<i>Storage Location</i>	<i>Loaded with the list of Storage Location mapped to login user, derived through Warehouse – Storage Location mapping</i>	<i>Loaded with the list of Warehouse mapped to the Storage Location chosen in 2<sup>nd</sup> drop down.</i>
<i>Area</i>	<i>Loaded with the list of Area identified for the warehouses mapped to the login user.</i>	<i>Loaded with the list of Warehouse mapped to the Area chosen in 2<sup>nd</sup> drop down.</i>
<i>Warehouse</i>	<i>Loaded with the list of Warehouse mapped to the login user</i>	<i>Loaded with the list of Zones identified for the Warehouse chosen in 2<sup>nd</sup> drop down. Note: Zone information is only used in the Inventory Management &amp; Alerts tab of the WorkSpace</i>

 *Note: Values chosen for “My Area” determines the details that will be displayed in the WorkSpace.*

**Easy Launch:** This section facilitates launch of various application screens for creation of receipt. User can enter a Purchase Order, Repair Order, Loan Order, Rental Order or

a Stock Transfer Issue and press the “Go” button to create respective receipts. Depending upon the Document # entered, “Go” button will launch respective receiving screens to facilitate receipt creation.

**Exhibit 6: Identifies the Easy Launch section**



*Note: Radio button “Edit/View” is disabled and will be enabled in the future release, once the feature is provided to modify or view receipt from the WorkSpace.*

**External Receiving Summary**

Reference: AHBE-7243

**Background (External Receiving Summary)**

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. One of the primary activities in the management of Warehouse is the management of Receipts from External Agents (i.e.) Suppliers and Customers.

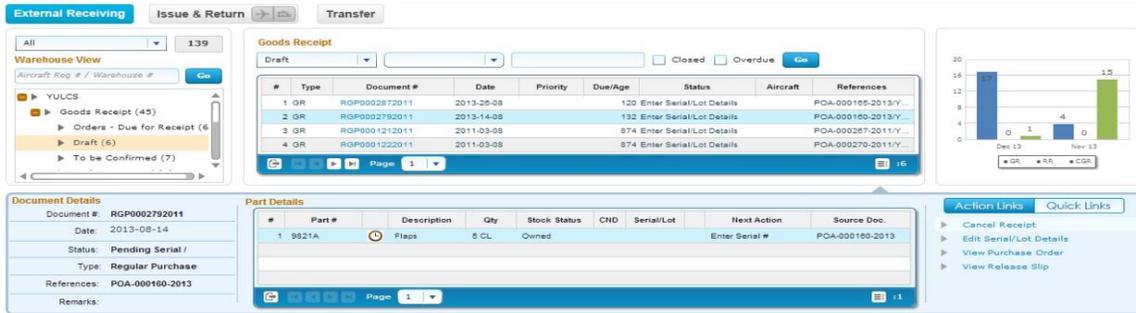
In order to achieve the effective management of the External Receipts (i.e.) Regular Purchases, Repair Receipts, Customer Goods Receipts and Loan / Rental Receipts, it is required that they need to be summarized in the WorkSpace, based upon the Receipt Type and the action that is pending on the respective document.

**Change Details (External Receiving Summary)**

A button titled ‘**External Receiving**’ has been provided under the **Inventory Operations** tab, to enlist the different External Receipts that needs to be acted upon (i.e.) Goods Receipts or Repair Receipts or Customer GR or Loan Receipt or Rental Receipts under each Warehouse.

The different sections available in this tab are discussed below.

**Exhibit 7: Identifies the External Receiving section**



**Tree Panel (External Receiving Summary)**

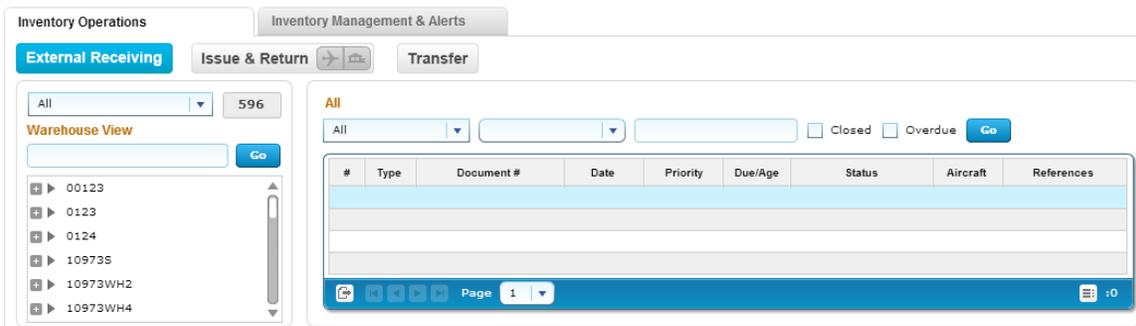
The Tree Panel comprises of the following controls.

- i. Receipt Type wise Count Display
- ii. Warehouse specific Search
- iii. Document Status wise Tree Display

**Receipt Type wise Count Display**

The Receipt Type drop-down will be loaded with the different External Receipt types (viz. Goods Receipt, Repair Receipt, Customer GR, Loan Receipt and Rental Receipt). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

**Exhibit 8: Identifies the Receipt Type wise Count Display (External Receiving summary)**



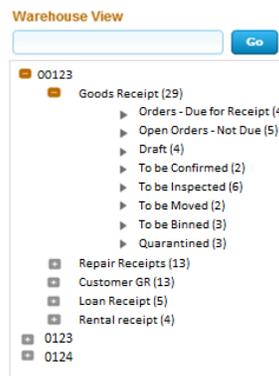
## Warehouse Specific Search

This control helps in processing all the documents that are pending in a particular Warehouse. The interested Warehouse could be searched to have the tree formed with the documents pending in that Warehouse alone.

## Document Status wise Tree Display

This section displays the break-down for the count displayed besides the Receipt Type drop down at Warehouse – Possible Action (derived based upon Document Status) level.

### Exhibit 9: Identifies the Tree Display (External Receiving summary)



The possible child nodes under each of the parent nodes (Goods Receipt or Repair Receipt or Customer GR or Loan Receipt or Rental Receipt) are given below.

- i. Goods Receipt or Customer GR or Repair Receipt
  - a. Orders - Due for Receipt
  - b. Open Order – Not Due
  - c. Draft
  - d. To be Confirmed
  - e. To be Inspected
  - f. To be Moved
  - g. To be Binned
  - h. Quarantined
  
- i. Loan Receipt or Rental Receipt
  - a. Orders - Due for Receipt
  - b. Open Order – Not Due

- c. To be Confirmed
- d. To be Inspected
- e. Quarantined

### Document Status wise Tree Display - Sub Nodes Logic

#### **Goods Receipt:**

##### ***Orders – Due for Receipt:***

Count of the Purchase Orders (other than the PO Type “Customer Goods”) and Release Slips which has at least one Part that is due for receipt in a given Warehouse, though the entire quantity should have been received prior to the current system date (as per the Earliest Due Date definition in Purchase Order)

##### ***Open Orders – Not Due:***

Count of the Purchase Orders (other than those of type “Customer Goods”) and Release Slips which has at least one Part that is due for receipt in a given Warehouse with the due date well above the current system date.

#### **Repair Receipt**

##### ***Orders – Due for Receipt:***

Count of the Repair Orders, with the Repair Shop Shipping Date earlier than the current system date, in the given Return Warehouse #, for which there exists at least one Part due for receipt.

##### ***Open Orders – Not Due:***

Count of the Repair Orders, with the Repair Shop Shipping Date well above the current system date, in the given Return Warehouse #, for which there exists at least one Part due for receipt.

#### **Customer GR:**

##### ***Orders – Due for Receipt:***

Count of the Purchase Orders of Type “Customer Goods” which has at least one Part that is due for receipt in a given Warehouse, though the entire quantity should have been received prior to the current system date (as per the Earliest Due Date definition in Purchase Order)

##### ***Open Orders – Not Due:***

Count of the Purchase Orders of Type “Customer Goods” which has at least one Part that is due for receipt in a given Warehouse with the due date well above the current system date.

**Goods Receipt or Repair Receipt or Customer GR:**

***Draft:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Record Serial / Lot Detail' for at least one Part.

***To be confirmed:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Confirm Receipt' for at least one Part.

***To be inspected:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Inspect Part' or 'Confirm Inspection', for at least one Part.

***To be moved:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Move Part', for at least one Part.

***To be binned:***

Count of Receipts of the selected Receipt Type, in the given Movement Warehouse, with the line status as 'Accepted – Pending Binning' for at least one Part.

***Quarantined:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Resolve Quarantine', for at least one Part.

**Loan Receipt:**

***Orders – Due for Receipt:***

Count of Loan Orders (against which Loan Receipt is not recorded) in the given Warehouse # for which the Required Date is less than the current system date.

***Open Orders – Not Due:***

Count of Loan Orders (against which Loan Receipt is not recorded) in the given Warehouse # for which the Required Date in the Loan Order is well above the current system date.

**Rental Receipt:**

***Orders – Due for Receipt:***

Count of Rental Orders (against which Rental Issue is confirmed, but Rental Receipt is not recorded), with the Due Days for Return lesser than zero.

***Open Orders – Not Due:***

Count of Rental Orders (against which Rental Issue is confirmed, but Rental Receipt is not recorded), with the Due Days for return greater than zero.

**Loan Receipt or Rental Receipt**

***To be inspected:***

Count of Loan Receipts in Received status, which requires the Inspection recording is mandatory and is due.

***To be confirmed:***

Count of Loan Receipts in Received status against which Inspection recording is not due or mandatory.

***Quarantined:***

Count of Loan Receipts in Received status where Quarantined Qty is not null.

**Document List Panel (External Receiving Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 10: Identifies the Document List Panel (External Receiving summary)**

#	Type	Document #	Date	Priority	Due/Age	Status	Aircraft	References
9	PO	POA-000258-2013	19-12-2013	AOG		-4 Create Receipt	58-1	
10	PO	POA-000285-2013	20-12-2013			-3 Create Receipt		

In addition, this section also provides the user an alternative way of traversal in the WorkSpace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Closed or Short closed or cancelled documents of Purchase Order or Release Slip or Repair Order or Loan Order or Rental Order or Goods Receipt or Repair Receipt or Customer GR or Loan Receipt or Rental Receipt.

The Check-Box, 'Overdue', offers the user to fetch only those Purchase Orders or Repair Orders or Loan orders or Rental Orders that are Overdue (i.e.) Due Date is earlier than the current server date.

**Document Preview Panel (External Receiving Summary)**

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

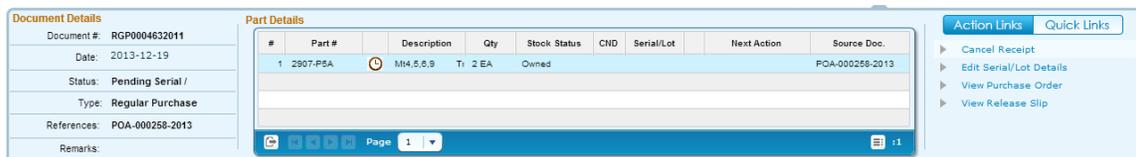
**Exhibit 11: Identifies the Document Preview Panel (External Receiving summary)**



**Action Links and Quick Links Panel (External Receiving Summary)**

- 1) Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 12: Identifies the Document Preview Panel along with Action Links (External Receiving summary)**



- 1) **Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

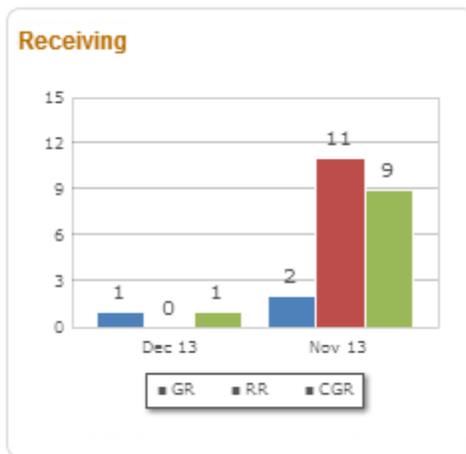
**Exhibit 13: Identifies the Quick Links section (External Receiving summary)**



**Charts Panel (External Receiving Summary)**

This section comprises of the Receiving charts that get populated with the Count of Goods Receipt or Repair Receipt or Customer GR for the previous two months for the Warehouse # selected.

**Exhibit 14: Identifies the Charts panel (External Receiving summary)**



## Issue & Return Summary

Reference: AHBE-7649

### Background (Issue & Return Summary)

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. Managing of a Warehouse includes the processing of the Requests, Issues, Returns, etc. that are made in that Warehouse.

The business requirement is that Warehouse personnel should be equipped with the visibility of the count of the Requests, Issues or Returns at two levels.

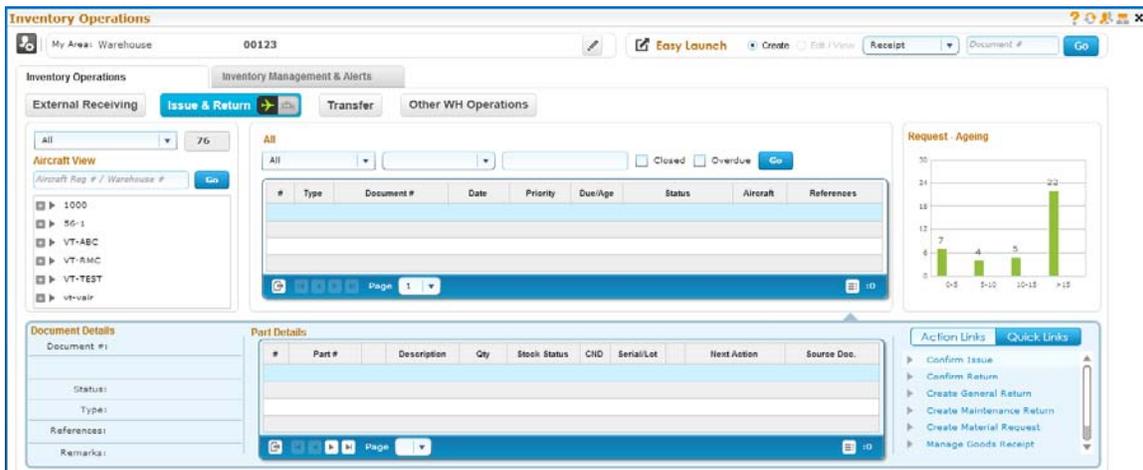
- i. Aircraft Level
- ii. Warehouse Level

### Change Details (Issue & Return Summary)

A tab titled 'Issue & Return' has been provided in the **Inventory Operations** WorkSpace for the Field Base Personnel, to have a view on all the pending transactions (i.e.) Requests or Issues or Returns under each Aircraft or Warehouse (based on the User selection near the caption 'Issue & Return')

The different sections available in this tab that were earlier listed are detailed below.

### Exhibit 15: Identifies the Issue & Return summary



### Tree Panel (Issue & Return Summary)

The Tree Panel comprises of the following controls.

- i. Document Type wise Count Display
- ii. Warehouse specific Search
- iii. Document Status wise Tree Display

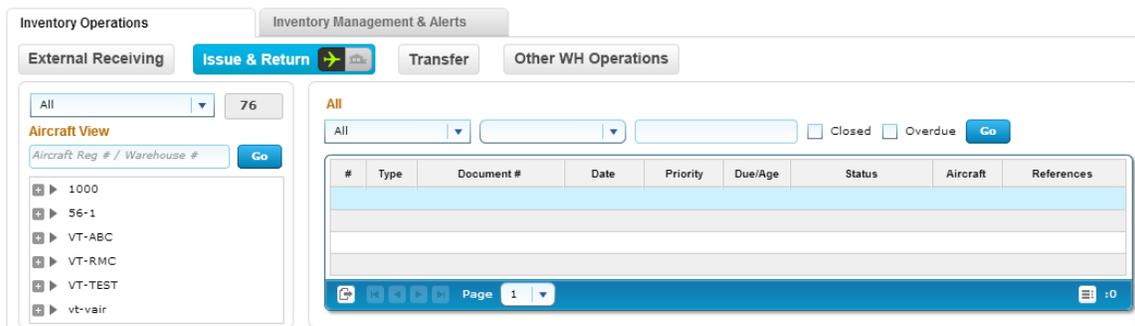
The Tree Panel is populated primarily based on the level at which the documents are required to be viewed (i.e.) Aircraft View or Warehouse View. The primary difference between these two views is that the Aircraft View will display only those Requests, Issues and Returns made with reference to a given Aircraft, thereby eliminating the Loan Issues, Rental Issues, Exchange Issues, etc.

However, the Warehouse View can be used to retrieve all types of issues that are to be made or that are made from a given Warehouse #.

### Document Type wise Count Display

The Document Type drop down will be loaded with the different documents that are applicable for processing in the given section (viz. Material Requests, Stock Issues and Stock Returns). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

### Exhibit 16: Identifies the Document Type wise Count Display (Issue & Return summary)



### Aircraft / Warehouse Specific Search

Based upon the mode of view (i.e.) Aircraft / Warehouse view, this control helps in retrieval of all the documents that are pending in a given Aircraft or Warehouse. The

interested Aircraft or Warehouse could be searched to have the tree formed with the documents pending in that Aircraft or Warehouse alone.

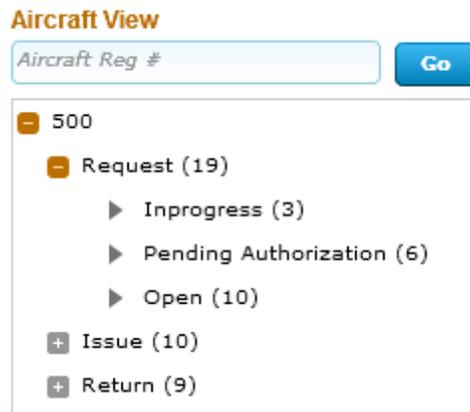
### Document Status wise Tree Display

This section displays the break-down for the count displayed besides the Document Type drop down at Aircraft – Possible Action or Warehouse – Possible Action level, based upon the mode of view selected.

### Document Status wise Tree Display – Aircraft View

If the mode of view is 'Aircraft View', then the Count of the documents (viz. Requests, Issues or Returns) shall be displayed as those that are due for a given Aircraft Reg. # from the defined Area of User operation (i.e.) My Area definition.

### Exhibit 17: Identifies the Document Status wise Tree Display (Issue & Return summary – Aircraft View)



The possible child nodes under each of the parent nodes (Request or Issue or Return) are given below.

- i. Request
  - a. In progress
  - b. Pending Authorization
  - c. Open
- ii. Issue
  - a. In progress
  - b. Pending Confirmation
- iii. Return
  - a. In progress
  - b. Pending Confirmation

### Document Status wise Tree Display - Sub Nodes Logic (Aircraft View)

**Requests:**

***In progress***

Count of the Material Requests for a given Aircraft Reg # that are in Draft status.

***Pending Authorization:***

Count of the Material Requests for a given Aircraft Reg. # that are in Fresh status.

***Open:***

Count of the Material Requests for a given Aircraft Reg, # that are in Authorized status and is available in the sourcing cycle.

**Issues:**

***In progress***

Count of the Stock Issues against a given Aircraft Reg # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Issues against a given Aircraft Reg. # that are in Fresh status.

**Returns:**

***In progress***

Count of the Stock Returns against a given Aircraft Reg # that are in Draft status.

***Pending Confirmation:***

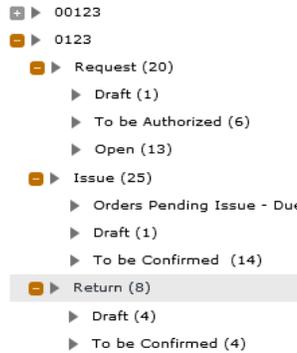
Count of the Stock Returns against a given Aircraft Reg. # that are in Fresh status.

### Document Status wise Tree Display – Warehouse View

If the mode of view is 'Warehouse View', then the Count of the documents (viz. Requests, Issues or Returns) shall be displayed as those that are due for a given Warehouse # from the defined Area of User operation (i.e.) My Area definition.

The different child nodes of the Tree display for the Warehouse View is discussed below.

**Exhibit 18: Identifies the Document Status wise Tree Display (Issue & Return summary – Warehouse View)**



The possible child nodes under each of the parent nodes (Request or Issue or Return) are given below.

- i. Request
  - a. In progress
  - b. Pending Authorization
  - c. Open
- ii. Issue
  - a. Orders Pending Issue - Due
  - b. In progress
  - c. Pending Confirmation
- iii. Return
  - d. In progress
  - e. Pending Confirmation

**Document Status wise Tree Display - Sub Nodes Logic (Warehouse View)**

**Requests:**

***In progress***

Count of the Material Requests for a given Warehouse # that are in Draft status.

***Pending Authorization:***

Count of the Material Requests for a given Warehouse # that are in Fresh status.

***Open:***

Count of the Material Requests for a given Warehouse # that are in Authorized status and is available in the sourcing cycle.

**Issues:**

***Orders Pending Issue – Due:***

Count of the Exchange or PBH Purchase Orders or Loan Orders or Rental Orders or Repair Orders or Stock Transfer Orders against which issue of Parts is pending as per the current system date, in a given Warehouse.

***In progress:***

Count of the Stock Issues against a given Warehouse # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Issues against a given Warehouse # that are in Fresh status.

**Returns:**

***In progress:***

Count of the Stock Returns against a given Warehouse # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Returns against a given Warehouse # that are in Fresh status.

**Document List Panel (Issue & Return Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 19: Identifies the Document List Panel (Issue & Return button summary)**

#	Type	Document #	Date	Priority	Due/Age	Status	Aircraft	References
1	MR	MR-003164-2013	07/09/2013	Normal	-3	Process MR	500	
2	MR	MR-003175-2013	09/09/2013	Normal	-1	Process MR	500	LC-000951-2013
3	MR	MR-003165-2013	11/09/2013	Normal	1	Process MR	500	

In addition, this section also provides the user an alternative way of traversal in the Workspace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Closed Material Requests; Confirmed Issues and Confirmed Returns.

The Check-Box, 'Overdue', offers the user to fetch only those Issues or Requests that are Overdue (i.e.) Due Date is earlier than the current server date. The Overdue Check-box does not impact the Search for Returns.

The Pending Requests count displayed is the count of Material Requests, which are available in any of the Child node in the tree structure possible, for which the Priority is either AOG or MR Priority 1 or MR Priority 2 (as defined in the **Manage Screen Defaults & Preference** screen)

**Document Preview Panel (Issue & Return Summary)**

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

**Exhibit 20: Identifies the Document Preview Panel (Issue & Return summary)**



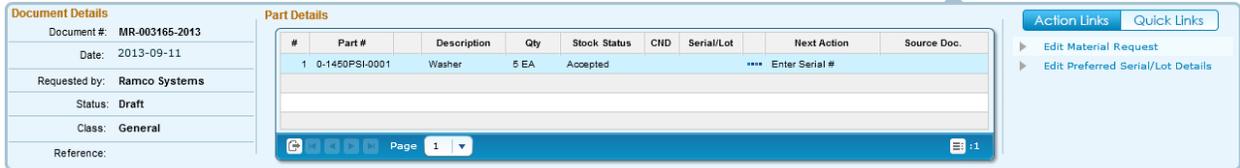
**Action Links and Quick Links Panel (Issue & Return Summary)**

**1) Action Links**

This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the

Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 21: Identifies the Document Preview Panel along with Action Links (Issue & Return button summary)**



**2) Quick Links**

This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

**Exhibit 22: Identifies the Quick Links section (Issue & Return button summary)**

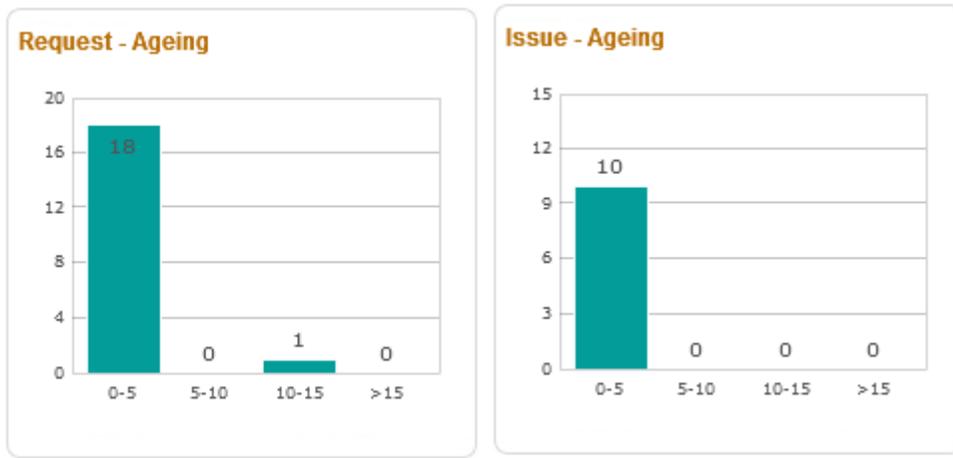


**Charts Panel (Issue & Return Summary)**

This section comprises of the Request or Issue Ageing charts that gets populated with the Count of Requests or Issues Vs the Due Days Range.

This section is populated with the respective chart on the click of the count displayed in Transaction Wise Count Section.

Exhibit 23: Identifies the Charts panel (Issue & Return button summary)



## Transfer Summary

Reference: AHBE-7649

### Background

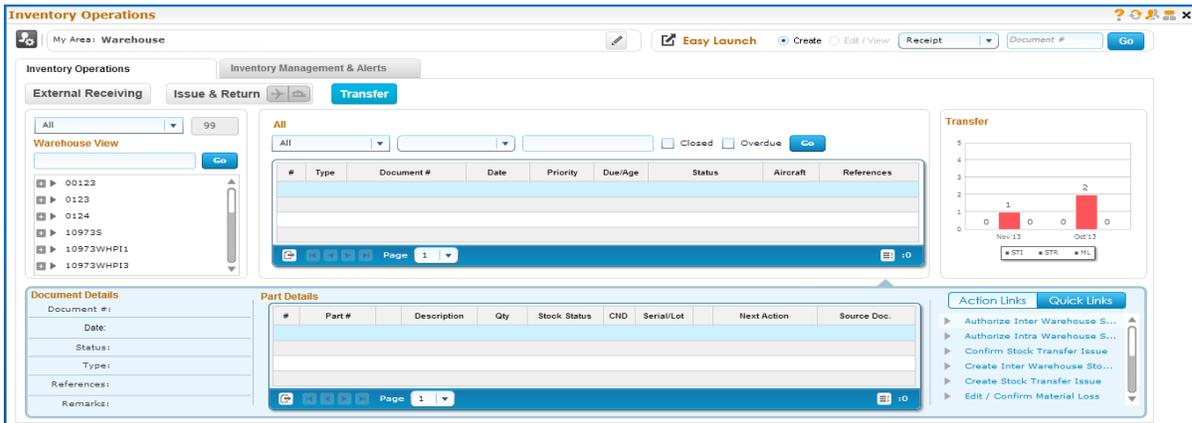
As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. Managing of a Warehouse includes the processing of the Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Stock transfer etc. that are made in that Warehouse.

The Business Requirement is to have a single dashboard wherein the Field Base Personnel would be able to have a summary of all the pending activities related to transfer of stock so that the Stock Transfer could be managed efficiently.

### Change Details

A button titled ‘**Transfer**’ has been provided under the **Inventory Operations** tab for the Field Base Personnel, to have a view on all the pending stock transfer related transactions (i.e.) Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Stock transfer under each Warehouse.

**Exhibit 24: Identifies the Transfer summary in Inventory Operations Workspace**



### Tree Panel (Transfer Summary)

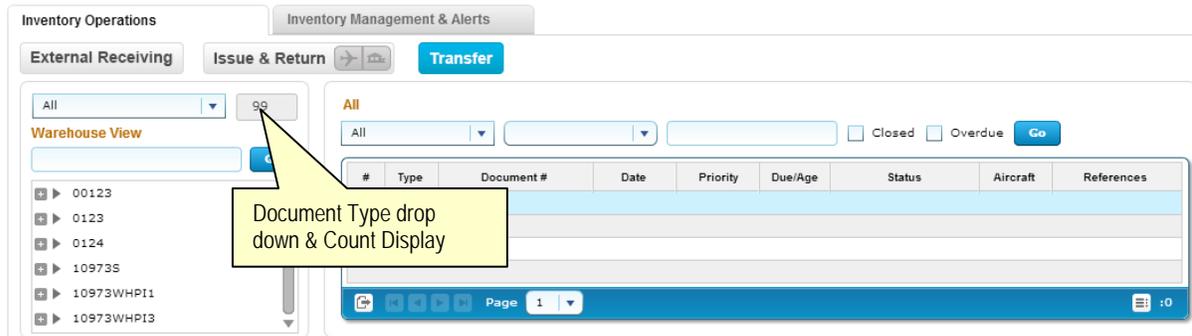
The Tree Panel comprises of the following controls.

- i. Document Type wise Count Display
- ii. Warehouse specific Search
- iii. Document Status wise Tree Display

### Document Type wise Count Display

The Document Type drop down will be loaded with the different documents that are applicable for processing in the given section (viz. Transfer Issue, Transfer Receipt, Material Loss, Transfer Order and Intra Warehouse Stock Transfer). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

**Exhibit 25: Identifies the Document Type wise Count Display (Transfer summary)**



### Warehouse Specific Search

This control helps in retrieval of all the stock transfer documents that are pending in a given Warehouse. The interested Warehouse could be searched to have the tree formed with the documents pending in that Warehouse alone.

### Document Status wise Tree Display

This section displays the break-down for the count displayed besides the Document Type drop down at Warehouse – Possible Action level.

**Exhibit 26: Identifies the Document Status wise Tree Display (Transfer summary)**



The possible child nodes under each of the parent nodes (Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer) are given below.

- i. Transfer Issue
  - a. Draft
  - b. Fresh
  - c. Orders
  - d. Open Order
  
- ii. Transfer Receipt
  - a. To be Confirmed
  - b. Orders pending for Receipt
  
- iii. Material Loss
  - a. To be Confirmed
  
- iv. Transfer Order
  - a. Draft
  - b. To be Authorized
  
- v. Intra Warehouse Transfer
  - a. Draft
  - b. To be Authorized

**Document Status wise Tree Display - Sub Nodes Logic**

**Transfer Issue:**

**Draft:**

Count of the Stock Transfer Issues in Draft status, for a given Warehouse.

**Fresh:**

Count of the Stock Transfer Issues in Fresh status, for a given Warehouse.

**Orders – Due for Issue:**

Count of the Stock Transfer orders created from a given Warehouse, that are in Authorized status with the Need Date less than or equal to the current system date (with Stock Transfer Issue not being recorded for at least one part).

***Orders – Not Due:***

Count of the Stock Transfer orders created from a given Warehouse that is in Authorized status with the Need Date greater than the current system date (with Stock Transfer Issue not being recorded for at least one part).

***Transfer Receipt:***

***To be confirmed:***

Count of the Stock Transfer Receipts that are in Fresh status, in the given Warehouse.

***Orders pending for Receipt:***

Count of the distinct Stock Transfer Orders (for a given To Warehouse #), against which the Stock Transfer Issue is in Confirmed status, but Stock Transfer Receipt is not recorded.

***Material Loss:***

***To be confirmed:***

Count of the Material Loss documents recorded against a Stock Transfer document for a given Warehouse # that are in Fresh status.

***Transfer Order:***

***Draft:***

Count of the Stock Transfer orders created from a given Warehouse that is in Draft status.

***To be authorized:***

Count of the Stock Transfer orders created from a given Warehouse that is in Fresh status.

***Intra Warehouse Transfer:***

***Draft:***

Count of Intra Warehouse Stock Transfer Orders created from a given Warehouse that is in Draft status.

***To be authorized:***

Count of the Intra Warehouse Stock Transfer orders created from a given Warehouse that are in Fresh status.

### Document List Panel (Transfer Summary)

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

#### Exhibit 27: Identifies the Document List Panel (Transfer)



In addition, this section also provides the user an alternative way of traversal in the WorkSpace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

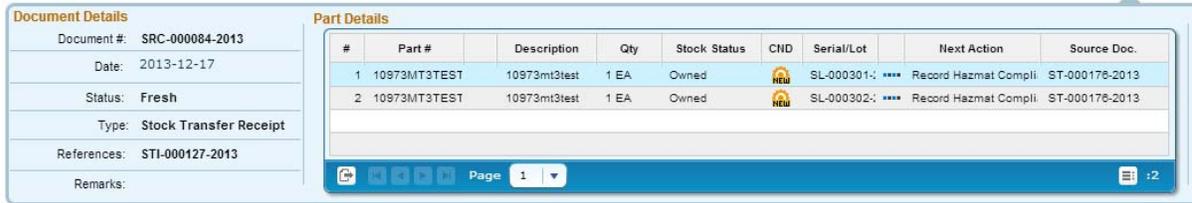
The Check-Box 'Closed', offers the user to fetch even the Canceled or Closed or short closed documents for Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer.

The Check-Box, 'Overdue', offers the user to fetch only those Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer that are Overdue (i.e.) Due Date is earlier than the current server date.

### Document Preview Panel (Transfer Summary)

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

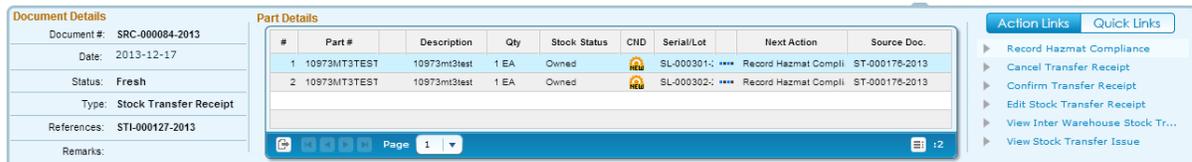
**Exhibit 28: Identifies the Document Preview Panel (Transfer summary)**



**Action Links & Quick Links Panel (Transfer Summary)**

- 1) Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit-29: Identifies the Document Preview Panel along with Action Links (Transfer View)**



- 2) Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

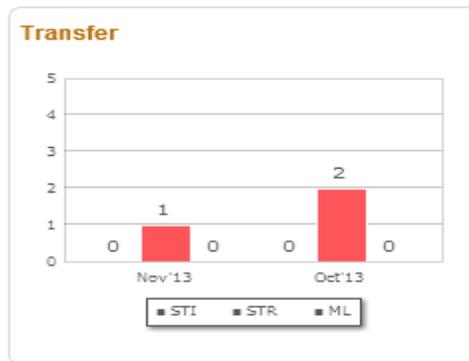
**Exhibit-30: Identifies the Quick Links section (Transfer summary)**



### Charts Panel (Transfer Summary)

This section comprises of the Receiving charts that get populated with the Count of Transfer Issue or Transfer Receipt or Material Loss for the previous two months for the Warehouse # selected in my area.

### Exhibit-31: Identifies the Charts panel (Transfer summary)



## Inventory Management & Alerts Tab

Reference: AHBE-7243

### Background

In addition to maintaining the Warehouse, the Field Base Personnel also needs to carry out the Maintenance of an Aircraft. In order to achieve this, it becomes vital for the Field Base Personnel to be alerted on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

The Business requirement is to provide ability for the Field Base Personnel to have an eye on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools), so that necessary action could be taken.

### Change Details

A tab titled 'Inventory Management & Alerts' has been provided in the **Inventory Operations** WorkSpace to have a view of the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

This tab alerts the user with the visibility of the inventoried parts that would be due for Maintenance or Shelf Life Expiry or Tools Calibration, along with the summary of the Parts available in the Serviceable and Unserviceable Warehouse # (at the Part Type – Classification or Part Category level, as defined in the Manage Screen Defaults & Preference screen).

The red color indicator in the tab denotes that there are parts that overdue for any of the activities mentioned above.

### Exhibit 32: Identifies the Inventory Management & Alerts Tab

The screenshot displays the 'Inventory Management & Alerts' tab within the 'Inventory Operations' workspace. The main area shows a table of overdue parts with the following data:

#	Part #	Description	Stock Status	Qty	Flag	Due Days	Warehouse #
1	0-0110-3-0442:3836	Acoustical AR Y Panel	Accepted	1 EA		-31	00123
2	0-0440-4-0005:38361	Mspoo AR	Oven Accepted	1 EA		-100	00123
3	0-0440-4-0005:38361	Mspoo AR	Oven Customer	1 EA		-164	00123

Below the main table, there are two detailed views:

- Part Details:** Shows information for Part # 0-0110-3-0442:383615HAZ, Description: Acoustical AR Y Panel, Part Type: Component, Warehouse: 00123, Qty: 1 EA, and Due For: [icon].
- Storage Details:** Shows information for Zone/Bin 001/01, Qty 1 EA, Serial/Lot asdes, CND [icon], Exp/Due Dt 29/09/2013, Fac.Obj/Comp. COMP:001175, and Ownership Owned.

The interface also includes navigation elements like 'Warehouse #', 'Overdue' count (9), 'Alerts' count (0), and 'Inventory' count, along with various action links and filters.

**Exhibit 33: Identifies the Count Display section (Inventory Management & Alerts Tab)**



- 1) **Tree Section:** This section displays the break-down for the count displayed in the Overdue or Alerts button. If the Inventory button is selected, this section displays the break-down of the Stock available in the Serviceable or Unserviceable Warehouse – Zone combination.

The child nodes for Overdue and Alerts buttons are:

- i. Shelf Life Expiry
- ii. Tool Calibration
- iii. Maintenance Due

If the Inventory Management Tree View is set as 'Part Type – Classification' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

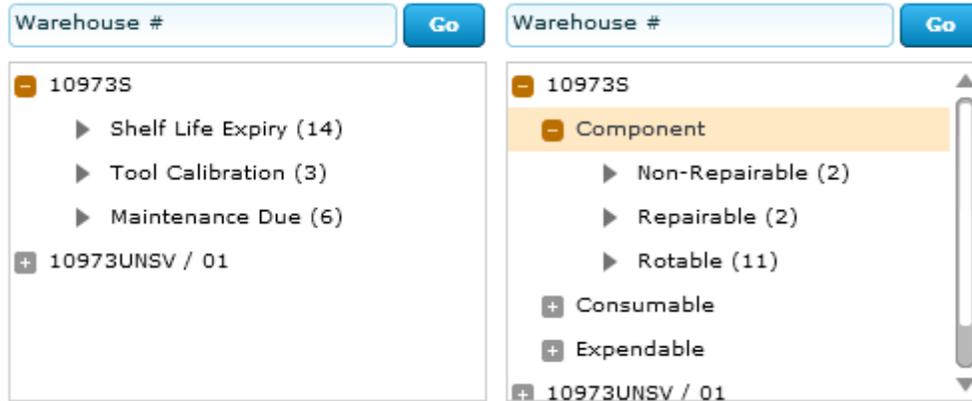
- i. Part Type 1 (Eg.) Component
  - a. Part Classification 1 (Eg.) Rotables
  - b. Part Classification 2 (Eg.) Repairable
- ii. Part Type 2
  - a. Part Classification 1
  - b. Part Classification 2

If the Inventory Management Tree View is set as 'Part Category' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

- i. Part Category 1 (Count)
- ii. Part Category 2 (Count)

In addition, this section also provides the user with an ability to search for Parts in a specific Warehouse #.

**Exhibit 34: Identifies the Tree Section in Inventory Management & Alerts Tab**



**2) Part List Panel & Part Level Action Links**

This section displays the Part-Stock Status combination that forms the count displayed against the child node in the tree section.

This section is populated by the click of the tree section's child node.

The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Stock Status combination.

**Exhibit 35: Identifies the Part List Panel & Part Level Action Links (Inventory Management & Alerts Tab)**



In addition, this section also has the 'Direct Search' capability similar to the other tab.

**3) Part Detailed Panel & Detailed Level Action Links:** This section displays the Part-Serial / Lot # combination that forms the count displayed against the Part – Stock Status combination in the multi-line of the Part List Panel under two sub-sections: Part Details and Storage Details. This section is populated by the click of the Part # in the multi-line of the Part List Panel. The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Serial # combination.

**Exhibit 36: Identifies the Part Detailed Panel & Detailed Level Action Links  
(Inventory Management & Alerts Tab)**

The screenshot displays a software interface with three main sections:

- Part Details:** Shows Part # 0-1450PSI55, Description Sealant, Part Type Component, Qty 5 EA, and Due For.
- Storage Details:** A table with columns: #, Zone/Bin, Qty, Serial/Lot, CND, Exp/Due Dt, Fac.Obj/Comp, and Ownership. It lists 4 rows of inventory data.
- Action Links:** A list of actions including Update Component Condition, Record Part-Serial Change, Maintain Part Certificates, View Part - Serial / Lot History, and View Component Record.

#	Zone/Bin	Qty	Serial/Lot	CND	Exp/Due Dt	Fac.Obj/Comp	Ownership
1	03/3	1 EA	SL00301			AIR-3822	Owned
2	03/3	1 EA	SL00303			AIR-3824	Owned
3	03/3	1 EA	SL00304			AIR-3825	Owned
4	03/3	1 EA	SL00305			AIR-3826	Owned

## Dashboard for managing Inventory Operations

*Reference: AHBE-7243, AHBE-6955, AHBE-7649*

### Background

Aircraft are strategically positioned in several Field Bases to provide better and cost effective services to end customers who are around the base. Though major maintenance of the Aircraft happens in Main Base, Field Base is responsible for day to day maintenance of the aircraft to keep it airworthy. Unlike Main Base, Field Bases have very few staffs. In most cases, it will be one person who will be managing it.

The responsibility of a Field Base Personnel does not limit to Aircraft maintenance, but, extends to managing the warehouse as well (i.e.) Request, Issue, Receive, Ship parts etc. It is evident that a Field Base Personnel needs to do several activities on a day to day basis and have them recorded in the organization's ERP system. Though, physically all the required activities are done, recording the same in the ERP system becomes cumbersome, because, it is required to visit different processes, activities and screens for entering the data. Mechanic frequently gets lost while working in the system because of complex navigation, lack of clarity on the next step etc.

Business need is to provide a dashboard to manage Inventory Operations, which would enlist the activities pending for action, in the Inventory stand point, (i.e.) Requests, Issues, Receipts, etc. that needs to be processed and in the Maintenance Stand point, (i.e.) Alerts on Parts that are due for Maintenance, Shelf Life Expiry and Tool Calibration.

### Change Details

A New Screen, "**Manage Screen Defaults & Preferences**" has been developed to identify the parameters which govern the data displayed in the "**Inventory Operations**" Workspace.

### Manage Screen Default & Preferences

This screen facilitates the User to set the Preference for a given User – Role – User Interface combination. This screen has got two sections which are

- i. Preference For
- ii. Defaults & User Preference

**Exhibit 1: Identifies the Manage Screen Defaults & Preferences screen**

#	Defaults & Preference	Mandatory?	Permitted Value	Value	Status	Error Message
1	MR Priority 1	No	Priority Other than "AOG"	Normal	Defined	
2	MR Priority 2	No	Priority Other than "AOG"	Expedite	Defined	
3	Inventory Management Tree View	No	Enter '1' for 'Part Type - Classification', '2' for 'Part Category'	1	Defined	
4	Default Alert Days	No	Enter No. of Days to be considered for Alerts when it is not defined	2	Defined	
5	Lead Time to Ship Exchange Core	No	Lead Time	30	Defined	

1) **Preference For:** This section has the following controls, for whose combination is the Parameters listed in Defaults & User Preference section is defined.

- i. Set Preference For (User Name)
- ii. Role
- iii. User Interface (WorkSpace Name)

2) **Defaults & User Preference:** This section has the list of parameters identified (by system) for a given WorkSpace. In the case of the **'Inventory Operations WorkSpace'**, the lists of parameters identified are,

- i. MR Priority 1 (Request Priority other than AOG, that needs to be prioritized)
- ii. MR Priority 2 (Request Priority other than AOG, that needs to be prioritized)
- iii. Inventory Management Tree View (structure in which the Inventory Management Tree should be viewed i.e., whether at the Part Category level or at the Part Type – Classification level)
- iv. Default Alert Days (In case the Alert days is not defined, this parameter helps in identifying the Alert Period for the Part)
- v. Lead Time to Ship Exchange Core (Lead time for the shipping of the Core Part against an "Exchange" or "PBH Exchange" Purchase Order)

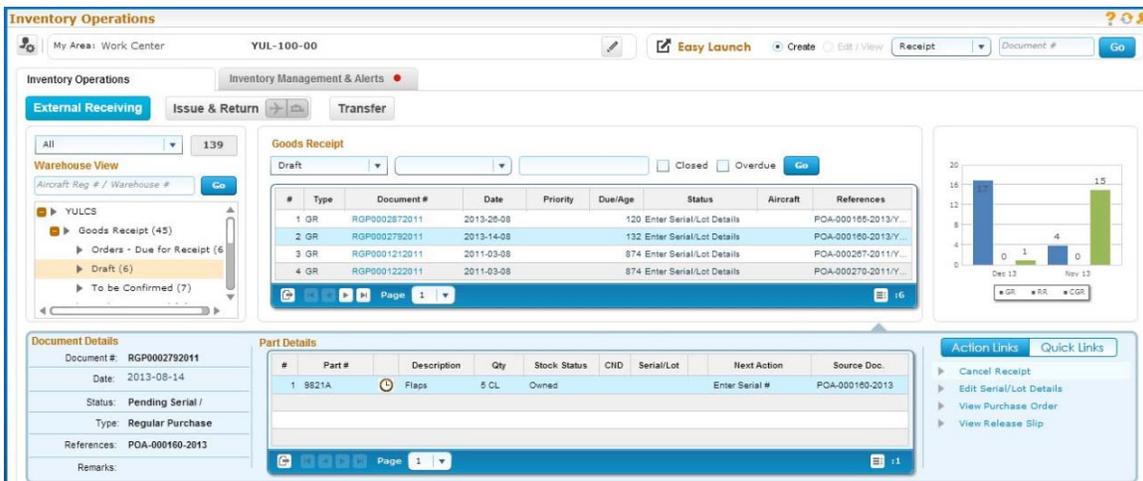
**Inventory Operations WorkSpace**

The Inventory Operations WorkSpace will be the landing page for the Field Base Personnel and this WorkSpace has got the following panels in it.

- i. My Area & Easy Launch Panel
- ii. Inventory Operations Tab – External Receiving, Issue & Return, Transfer
  - a. Tree Panel

- b. Document List Panel
- c. Document Preview Panel
- d. Action Links and Quick Links Panel
- e. Charts Panel
- iii. Inventory Management & Alerts Tab
  - a. Count Display
  - b. Tree Section
  - c. Part List Panel & Part Level Action Links
  - d. Part Details Panel & Detailed Level Action Links

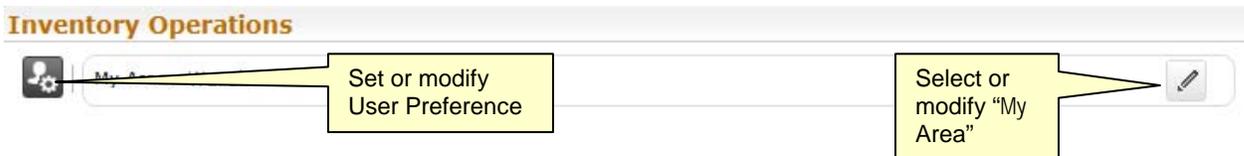
**Exhibit 2: Identifies the Inventory Operations WorkSpace**



**My Area & Easy Launch Panel**

- 1) **My Area:** This section displays the Area of operation for the login user. The Area could be defined / modified by using the Edit icon provided. The documents shall be retrieved in the WorkSpace for processing based upon the defined Area.

**Exhibit 3: Identifies My Area section**



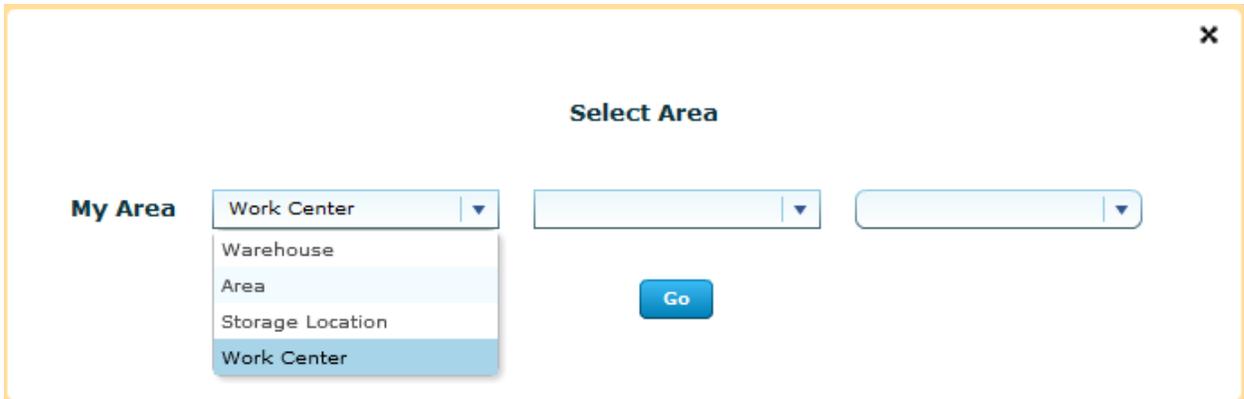
The different types of Areas that could be identified as My Area are:

- i. Work Center #
- ii. Warehouse #
- iii. Storage Location
- iv. Area

**Select or Modify “My Area”**

Click the “Edit Icon”  to set or modify My Area. On click of the icon following screen will be launched.

**Exhibit 4: Identifies Pop-up screen to define My Area**



The pop-up screen has three drop downs. 1<sup>st</sup> drop down will be loaded with the following values: Work Center, Storage Location, Area and Warehouse depending upon user access rights to one or more Work Centers/Warehouse. It is mandatory to select a value.

The 2<sup>nd</sup> drop down will be loaded based on the value chosen in the 1<sup>st</sup> drop down. For example, if the 1<sup>st</sup> drop down is selected as “Warehouse”, then the list of Warehouses mapped to the login user will be loaded in the 2<sup>nd</sup> drop down and user can select a particular warehouse as the Area of operation. In the event where the user is mapped to more than one warehouses, a blank value will also be loaded and if user leaves the 2<sup>nd</sup> drop down as blank, information pertaining to all the warehouses will be displayed in the WorkSpace. The 3<sup>rd</sup> drop down will be loaded based on the value chosen in the 2<sup>nd</sup> drop down. For example, if Storage Location is selected in the 1<sup>st</sup> drop down then the 2<sup>nd</sup> one will be loaded with corresponding storage locations upon selection of a particular storage location the 3<sup>rd</sup> drop down will be loaded with the associated warehouses. Refer to the table below for more details.

**Exhibit 5: Identifies the logic of loading various drop downs in My Area pop-up screen**

1 <sup>st</sup> Drop Down	2 <sup>nd</sup> Drop Down	3 <sup>rd</sup> Drop Down
Work Center	Loaded with the list of Work Centers mapped to login user	Loaded with the list of Warehouse mapped to the Work Center chosen in 2 <sup>nd</sup> drop down.
Storage Location	Loaded with the list of Storage Location mapped to login user, derived through Warehouse – Storage Location mapping	Loaded with the list of Warehouse mapped to the Storage Location chosen in 2 <sup>nd</sup> drop down.
Area	Loaded with the list of Area identified for the warehouses mapped to the login user.	Loaded with the list of Warehouse mapped to the Area chosen in 2 <sup>nd</sup> drop down.
Warehouse	Loaded with the list of Warehouse mapped to the login user	Loaded with the list of Zones identified for the Warehouse chosen in 2 <sup>nd</sup> drop down. <i>Note: Zone information is only used in the Inventory Management &amp; Alerts tab of the WorkSpace</i>

 *Note: Values chosen for “My Area” determines the details that will be displayed in the WorkSpace.*

- 2) **Easy Launch:** This section facilitates launch of various application screens for creation of receipt. User can enter a Purchase Order, Repair Order, Loan Order, Rental Order or a Stock Transfer Issue and press the “Go” button to create respective receipts. Depending upon the Document # entered, “Go” button will launch respective receiving screens to facilitate receipt creation.

**Exhibit 6: Identifies the Easy Launch section**



 *Note: Radio button “Edit/View” is disabled and will be enabled in the future release, once the feature is provided to modify or view receipt from the WorkSpace.*

## External Receiving Summary

Reference: AHBE-7243

### Background (External Receiving Summary)

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. One of the primary activities in the management of Warehouse is the management of Receipts from External Agents (i.e.) Suppliers and Customers.

In order to achieve the effective management of the External Receipts (i.e.) Regular Purchases, Repair Receipts, Customer Goods Receipts and Loan / Rental Receipts, it is required that they need to be summarized in the WorkSpace, based upon the Receipt Type and the action that is pending on the respective document.

### Change Details (External Receiving Summary)

A button titled 'External Receiving' has been provided under the **Inventory Operations** tab, to enlist the different External Receipts that needs to be acted upon (i.e.) Goods Receipts or Repair Receipts or Customer GR or Loan Receipt or Rental Receipts under each Warehouse.

The different sections available in this tab are discussed below.

### Exhibit 7: Identifies the External Receiving section

The screenshot displays the 'External Receiving' interface. At the top, there are tabs for 'External Receiving', 'Issue & Return', and 'Transfer'. The 'External Receiving' tab is active, showing a 'Warehouse View' section with a search bar and a list of warehouses. The 'Goods Receipt' section features a table with columns for #, Type, Document #, Date, Priority, Due/Age, Status, Aircraft, and References. Below the table are navigation controls and a page indicator. To the right, there is a bar chart showing counts for different receipt types. The 'Document Details' section provides information for a specific document, including its date, status, type, and references. The 'Part Details' section shows a table with columns for #, Part #, Description, Qty, Stock Status, CID, Serial/Lot, Next Action, and Source Doc. On the far right, there are 'Action Links' and 'Quick Links' for various actions like 'Cancel Receipt', 'Edit Serial/Lot Details', 'View Purchase Order', and 'View Release Slip'.

### Tree Panel (External Receiving Summary)

The Tree Panel comprises of the following controls.

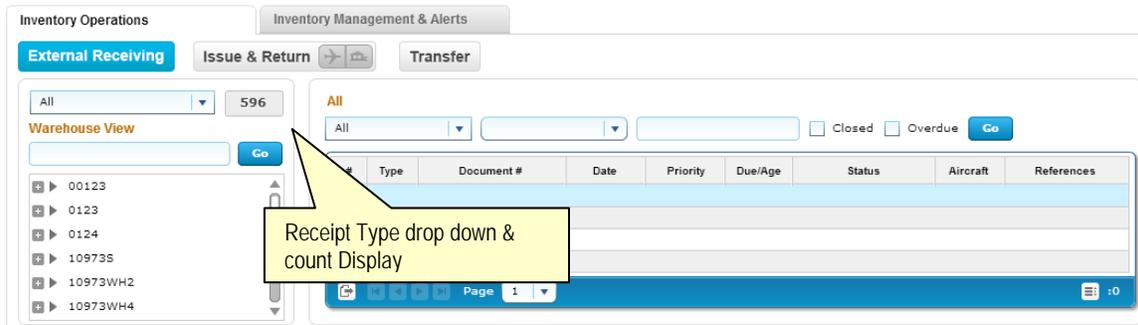
- i. Receipt Type wise Count Display
- ii. Warehouse specific Search

iii. Document Status wise Tree Display

**Receipt Type wise Count Display**

The Receipt Type drop-down will be loaded with the different External Receipt types (viz. Goods Receipt, Repair Receipt, Customer GR, Loan Receipt and Rental Receipt). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

**Exhibit 8: Identifies the Receipt Type wise Count Display (External Receiving summary)**



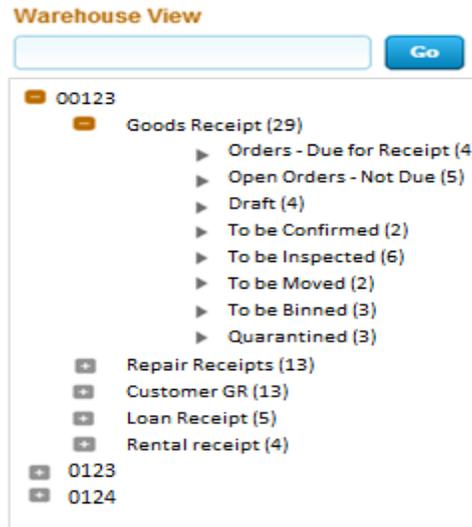
**Warehouse Specific Search**

This control helps in processing all the documents that are pending in a particular Warehouse. The interested Warehouse could be searched to have the tree formed with the documents pending in that Warehouse alone.

**Document Status wise Tree Display**

This section displays the break-down for the count displayed besides the Receipt Type drop down at Warehouse – Possible Action (derived based upon Document Status) level.

**Exhibit 9: Identifies the Tree Display (External Receiving summary)**



The possible child nodes under each of the parent nodes (Goods Receipt or Repair Receipt or Customer GR or Loan Receipt or Rental Receipt) are given below.

- i. Goods Receipt or Customer GR or Repair Receipt
  - a. Orders - Due for Receipt
  - b. Open Order – Not Due
  - c. Draft
  - d. To be Confirmed
  - e. To be Inspected
  - f. To be Moved
  - g. To be Binned
  - h. Quarantined
  
- ii. Loan Receipt or Rental Receipt
  - a. Orders - Due for Receipt
  - b. Open Order – Not Due
  - c. To be Confirmed
  - d. To be Inspected
  - e. Quarantined

**Document Status wise Tree Display - Sub Nodes Logic**

**Goods Receipt:**  
**Orders – Due for Receipt:**

Count of the Purchase Orders (other than the PO Type "Customer Goods") and Release Slips which has at least one Part that is due for receipt in a given Warehouse, though the entire quantity should have been received prior to the current system date (as per the Earliest Due Date definition in Purchase Order)

***Open Orders – Not Due:***

Count of the Purchase Orders (other than those of type "Customer Goods") and Release Slips which has at least one Part that is due for receipt in a given Warehouse with the due date well above the current system date.

***Repair Receipt***

***Orders – Due for Receipt:***

Count of the Repair Orders, with the Repair Shop Shipping Date earlier than the current system date, in the given Return Warehouse #, for which there exists at least one Part due for receipt.

***Open Orders – Not Due:***

Count of the Repair Orders, with the Repair Shop Shipping Date well above the current system date, in the given Return Warehouse #, for which there exists at least one Part due for receipt.

***Customer GR:***

***Orders – Due for Receipt:***

Count of the Purchase Orders of Type "Customer Goods" which has at least one Part that is due for receipt in a given Warehouse, though the entire quantity should have been received prior to the current system date (as per the Earliest Due Date definition in Purchase Order)

***Open Orders – Not Due:***

Count of the Purchase Orders of Type "Customer Goods" which has at least one Part that is due for receipt in a given Warehouse with the due date well above the current system date.

***Goods Receipt or Repair Receipt or Customer GR:***

***Draft:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Record Serial / Lot Detail' for at least one Part.

***To be confirmed:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Confirm Receipt' for at least one Part.

***To be inspected:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Inspect Part' or 'Confirm Inspection', for at least one Part.

***To be moved:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Move Part', for at least one Part.

***To be binned:***

Count of Receipts of the selected Receipt Type, in the given Movement Warehouse, with the line status as 'Accepted – Pending Binning' for at least one Part.

***Quarantined:***

Count of Receipts of the selected Receipt Type, in the given Receiving Warehouse, with the Next Action as 'Resolve Quarantine', for at least one Part.

**Loan Receipt:**

***Orders – Due for Receipt:***

Count of Loan Orders (against which Loan Receipt is not recorded) in the given Warehouse # for which the Required Date is less than the current system date.

***Open Orders – Not Due:***

Count of Loan Orders (against which Loan Receipt is not recorded) in the given Warehouse # for which the Required Date in the Loan Order is well above the current system date.

**Rental Receipt:**

***Orders – Due for Receipt:***

Count of Rental Orders (against which Rental Issue is confirmed, but Rental Receipt is not recorded), with the Due Days for Return lesser than zero.

***Open Orders – Not Due:***

Count of Rental Orders (against which Rental Issue is confirmed, but Rental Receipt is not recorded), with the Due Days for return greater than zero.

***Loan Receipt or Rental Receipt***

***To be inspected:***

Count of Loan Receipts in Received status, which requires the Inspection recording is mandatory and is due.

***To be confirmed:***

Count of Loan Receipts in Received status against which Inspection recording is not due or mandatory.

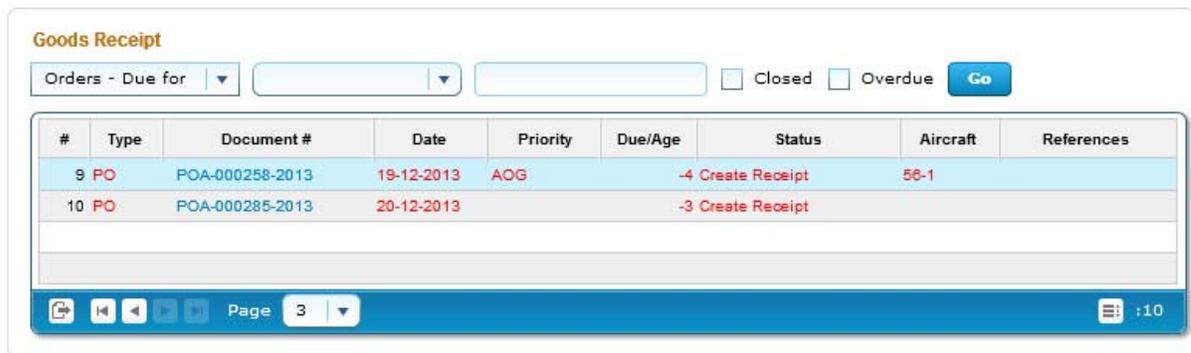
**Quarantined:**

Count of Loan Receipts in Received status where Quarantined Qty is not null.

**Document List Panel (External Receiving Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 10: Identifies the Document List Panel (External Receiving summary)**



In addition, this section also provides the user an alternative way of traversal in the Workspace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Closed or Short closed or cancelled documents of Purchase Order or Release Slip or Repair Order or Loan Order or Rental Order or Goods Receipt or Repair Receipt or Customer GR or Loan Receipt or Rental Receipt.

The Check-Box, 'Overdue', offers the user to fetch only those Purchase Orders or Repair Orders or Loan orders or Rental Orders that are Overdue (i.e.) Due Date is earlier than the current server date.

**Document Preview Panel (External Receiving Summary)**

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected

from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

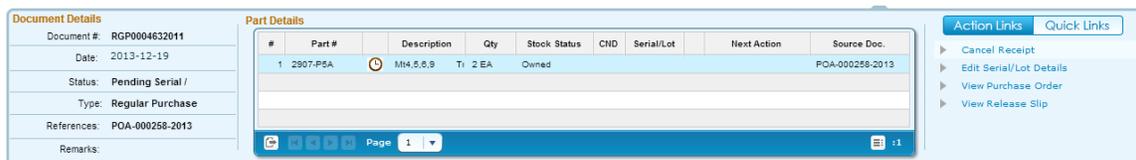
**Exhibit 11: Identifies the Document Preview Panel (External Receiving summary)**



**Action Links and Quick Links Panel (External Receiving Summary)**

- 1) **Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 12: Identifies the Document Preview Panel along with Action Links (External Receiving summary)**



- 2) **Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the WorkSpace.

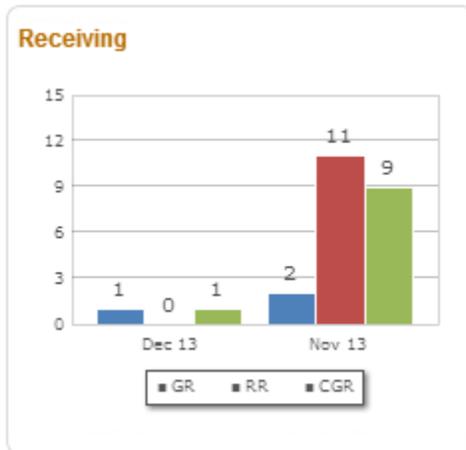
**Exhibit 13: Identifies the Quick Links section (External Receiving summary)**



**Charts Panel (External Receiving Summary)**

This section comprises of the Receiving charts that get populated with the Count of Goods Receipt or Repair Receipt or Customer GR for the previous two months for the Warehouse # selected.

**Exhibit 14: Identifies the Charts panel (External Receiving summary)**



## Issue & Return Summary

Reference: AHBE-7649

### Background (Issue & Return Summary)

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. Managing of a Warehouse includes the processing of the Requests, Issues, Returns, etc. that are made in that Warehouse.

The business requirement is that Warehouse personnel should be equipped with the visibility of the count of the Requests, Issues or Returns at two levels.

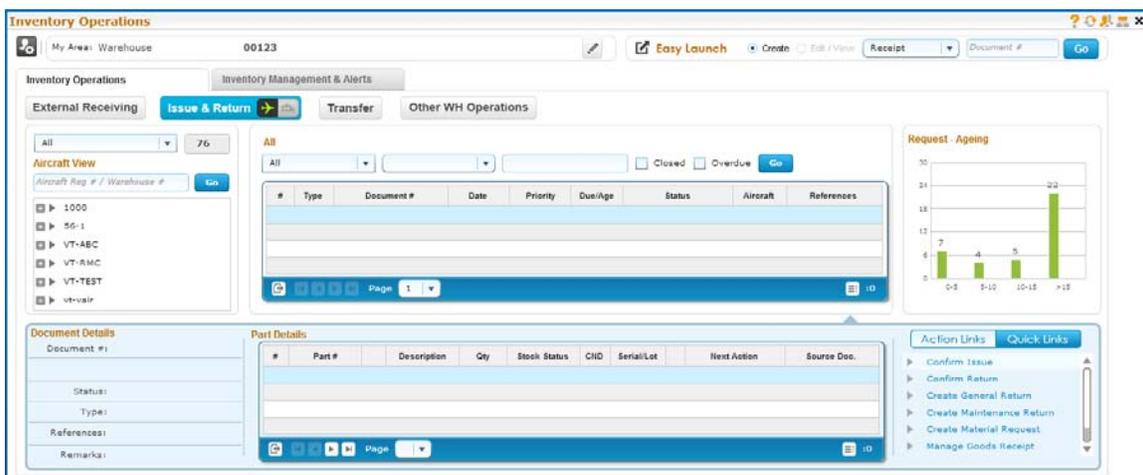
- i. Aircraft Level
- ii. Warehouse Level

### Change Details (Issue & Return Summary)

A tab titled 'Issue & Return' has been provided in the **Inventory Operations** WorkSpace for the Field Base Personnel, to have a view on all the pending transactions (i.e.) Requests or Issues or Returns under each Aircraft or Warehouse (based on the User selection near the caption 'Issue & Return')

The different sections available in this tab that were earlier listed are detailed below.

### Exhibit 15: Identifies the Issue & Return summary



### Tree Panel (Issue & Return Summary)

The Tree Panel comprises of the following controls.

- i. Document Type wise Count Display
- ii. Warehouse specific Search
- iii. Document Status wise Tree Display

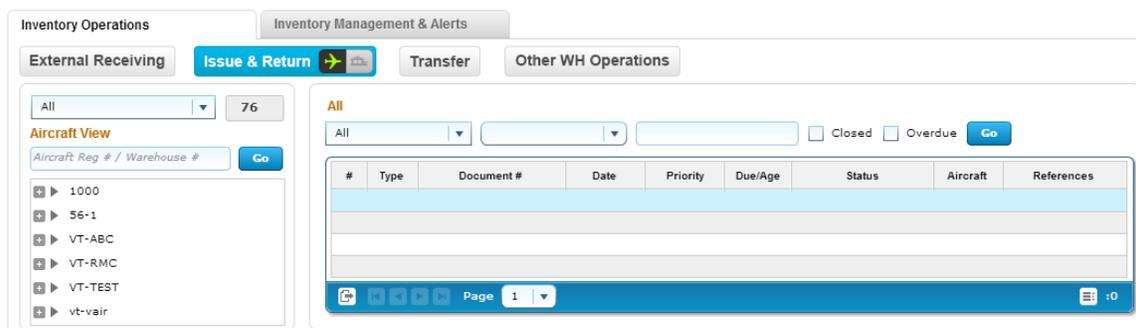
The Tree Panel is populated primarily based on the level at which the documents are required to be viewed (i.e.) Aircraft View or Warehouse View. The primary difference between these two views is that the Aircraft View will display only those Requests, Issues and Returns made with reference to a given Aircraft, thereby eliminating the Loan Issues, Rental Issues, Exchange Issues, etc.

However, the Warehouse View can be used to retrieve all types of issues that are to be made or that are made from a given Warehouse #.

### Document Type wise Count Display

The Document Type drop down will be loaded with the different documents that are applicable for processing in the given section (viz. Material Requests, Stock Issues and Stock Returns). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

### Exhibit 16: Identifies the Document Type wise Count Display (Issue & Return summary)



### Aircraft / Warehouse Specific Search

Based upon the mode of view (i.e.) Aircraft / Warehouse view, this control helps in retrieval of all the documents that are pending in a given Aircraft or Warehouse. The

interested Aircraft or Warehouse could be searched to have the tree formed with the documents pending in that Aircraft or Warehouse alone.

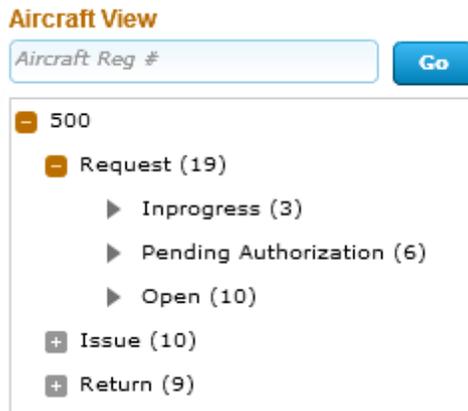
### Document Status wise Tree Display

This section displays the break-down for the count displayed besides the Document Type drop down at Aircraft – Possible Action or Warehouse – Possible Action level, based upon the mode of view selected.

### Document Status wise Tree Display – Aircraft View

If the mode of view is 'Aircraft View', then the Count of the documents (viz. Requests, Issues or Returns) shall be displayed as those that are due for a given Aircraft Reg. # from the defined Area of User operation (i.e.) My Area definition.

### Exhibit 17: Identifies the Document Status wise Tree Display (Issue & Return summary – Aircraft View)



The possible child nodes under each of the parent nodes (Request or Issue or Return) are given below.

- i. Request
  - a. In progress
  - b. Pending Authorization
  - c. Open
- ii. Issue
  - a. In progress
  - b. Pending Confirmation

- iii. Return
  - a. In progress
  - b. Pending Confirmation

### **Document Status wise Tree Display - Sub Nodes Logic (Aircraft View)**

**Requests:**

***In progress:***

Count of the Material Requests for a given Aircraft Reg # that are in Draft status.

***Pending Authorization:***

Count of the Material Requests for a given Aircraft Reg. # that are in Fresh status.

***Open:***

Count of the Material Requests for a given Aircraft Reg, # that are in Authorized status and is available in the sourcing cycle.

***Issues:***

***In progress:***

Count of the Stock Issues against a given Aircraft Reg # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Issues against a given Aircraft Reg. # that are in Fresh status.

**Returns:**

***In progress:***

Count of the Stock Returns against a given Aircraft Reg # that are in Draft status.

***Pending Confirmation:***

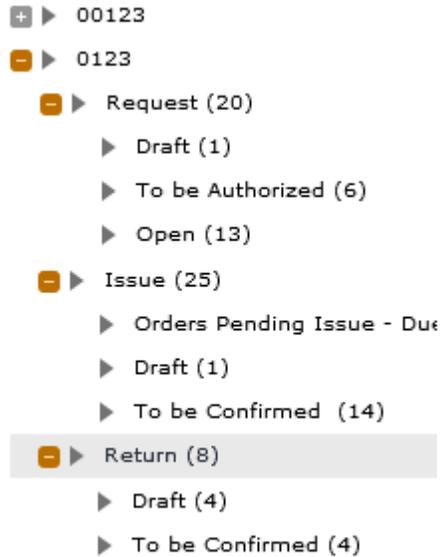
Count of the Stock Returns against a given Aircraft Reg. # that are in Fresh status.

### **Document Status wise Tree Display – Warehouse View**

If the mode of view is 'Warehouse View', then the Count of the documents (viz. Requests, Issues or Returns) shall be displayed as those that are due for a given Warehouse # from the defined Area of User operation (i.e.) My Area definition.

The different child nodes of the Tree display for the Warehouse View is discussed below.

**Exhibit 18: Identifies the Document Status wise Tree Display (Issue & Return summary – Warehouse View)**



The possible child nodes under each of the parent nodes (Request or Issue or Return) are given below.

- i. Request
  - c. In progress
  - d. Pending Authorization
  - e. Open
- ii. Issue
  - a. Orders Pending Issue - Due
  - b. In progress
  - c. Pending Confirmation
- iii. Return
  - a. In progress
  - b. Pending Confirmation

**Document Status wise Tree Display - Sub Nodes Logic (Warehouse View)**

**Requests:**

**In progress:**

Count of the Material Requests for a given Warehouse # that are in Draft status.

***Pending Authorization:***

Count of the Material Requests for a given Warehouse # that are in Fresh status.

***Open:***

Count of the Material Requests for a given Warehouse # that are in Authorized status and is available in the sourcing cycle.

**Issues:**

***Orders Pending Issue – Due:***

Count of the Exchange or PBH Purchase Orders or Loan Orders or Rental Orders or Repair Orders or Stock Transfer Orders against which issue of Parts is pending as per the current system date, in a given Warehouse.

***In progress:***

Count of the Stock Issues against a given Warehouse # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Issues against a given Warehouse # that are in Fresh status.

**Returns:**

***In progress:***

Count of the Stock Returns against a given Warehouse # that are in Draft status.

***Pending Confirmation:***

Count of the Stock Returns against a given Warehouse # that are in Fresh status.

**Document List Panel (Issue & Return Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 19: Identifies the Document List Panel (Issue & Return button summary)**

The screenshot shows a web interface for viewing Material Requests. At the top, there is a 'Request' header and a 'Priority Requests 18' badge. Below the header are search filters: a dropdown menu set to 'All', two empty search input fields, and checkboxes for 'Closed' and 'Overdue', followed by a 'Go' button. The main content is a table with the following data:

#	Type	Document #	Date	Priority	Due/Age	Status	Aircraft	References
1	MR	MR-003164-2013	07/09/2013	Normal	-3	Process MR	500	
2	MR	MR-003175-2013	09/09/2013	Normal	-1	Process MR	500	LC-000951-2013
3	MR	MR-003165-2013	11/09/2013	Normal	1	Process MR	500	

At the bottom of the table, there is a pagination bar showing 'Page 1' and a list icon with the number '3'.

In addition, this section also provides the user an alternative way of traversal in the WorkSpace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

The Check-Box 'Closed', offers the user to fetch even the Closed Material Requests; Confirmed Issues and Confirmed Returns.

The Check-Box, 'Overdue', offers the user to fetch only those Issues or Requests that are Overdue (i.e.) Due Date is earlier than the current server date. The Overdue Check-box does not impact the Search for Returns.

The Pending Requests count displayed is the count of Material Requests, which are available in any of the Child node in the tree structure possible, for which the Priority is either AOG or MR Priority 1 or MR Priority 2 (as defined in the **Manage Screen Defaults & Preference** screen)

**Document Preview Panel (Issue & Return Summary)**

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

**Exhibit 20: Identifies the Document Preview Panel (Issue & Return summary)**



**Action Links and Quick Links Panel (Issue & Return Summary)**

- 1) **Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 21: Identifies the Document Preview Panel along with Action Links (Issue & Return button summary)**



- 2) **Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the Workspace.

**Exhibit 22: Identifies the Quick Links section (Issue & Return button summary)**

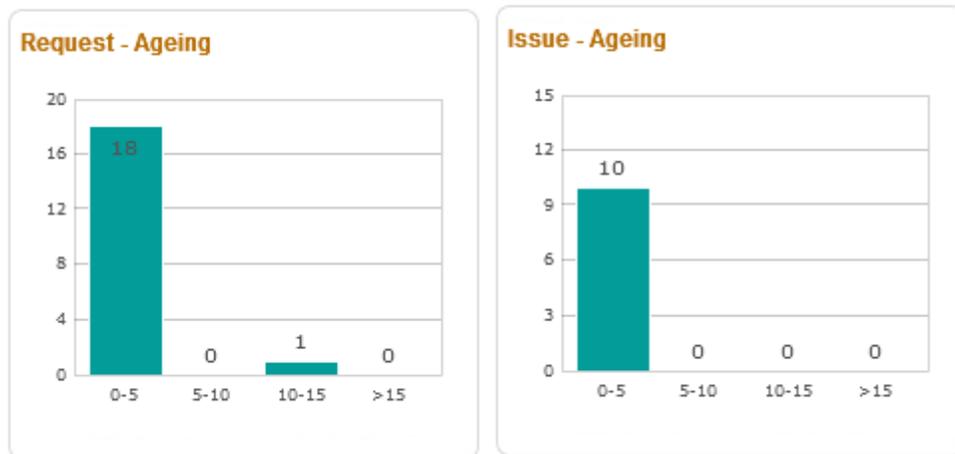


### Charts Panel (Issue & Return Summary)

This section comprises of the Request or Issue Ageing charts that gets populated with the Count of Requests or Issues Vs the Due Days Range.

This section is populated with the respective chart on the click of the count displayed in Transaction Wise Count Section.

#### Exhibit 23: Identifies the Charts panel (Issue & Return button summary)



### Transfer Summary

Reference: AHBE-7649

#### Background

As mentioned earlier, it is the responsibility of a Field Base Personnel to manage the Warehouse, in addition to the Aircraft Maintenance activities. Managing of a Warehouse includes the processing of the Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Stock transfer etc. that are made in that Warehouse.

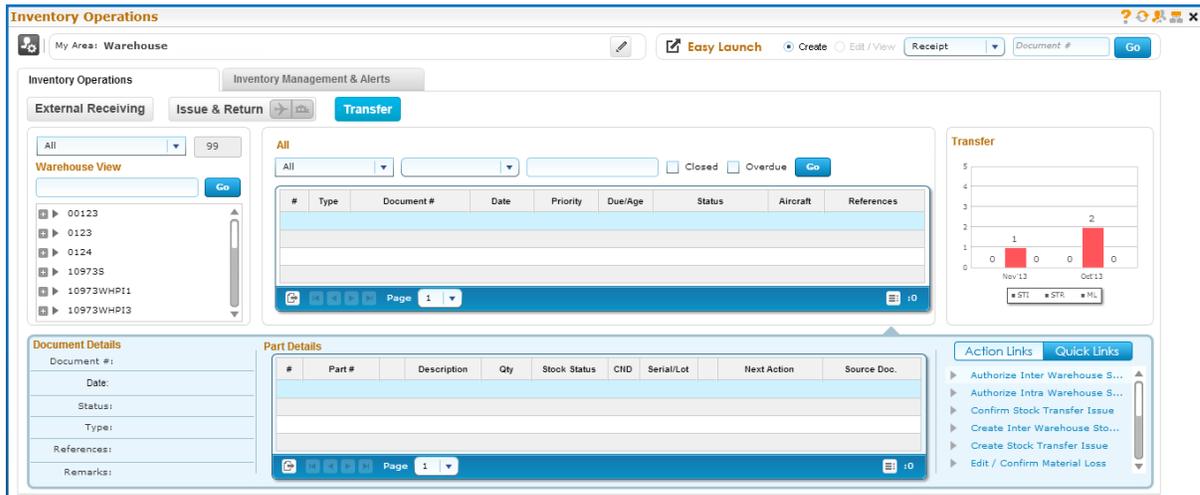
The Business Requirement is to have a single dashboard wherein the Field Base Personnel would be able to have a summary of all the pending activities related to transfer of stock so that the Stock Transfer could be managed efficiently.

#### Change Details

A button titled 'Transfer' has been provided under the **Inventory Operations** tab for the Field Base Personnel, to have a view on all the pending stock transfer related

transactions (i.e.) Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Stock transfer under each Warehouse.

**Exhibit 24: Identifies the Transfer summary in Inventory Operations WorkSpace**



**Tree Panel (Transfer Summary)**

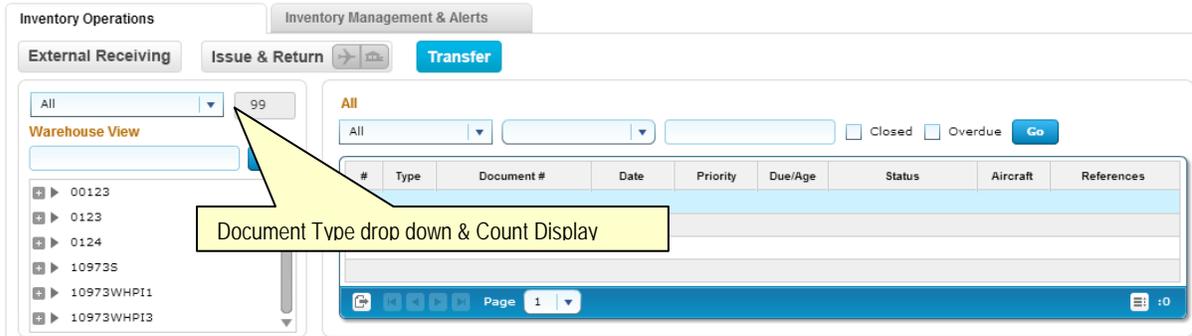
The Tree Panel comprises of the following controls.

- i. Document Type wise Count Display
- ii. Warehouse specific Search
- iii. Document Status wise Tree Display

**Document Type wise Count Display**

The Document Type drop down will be loaded with the different documents that are applicable for processing in the given section (viz. Transfer Issue, Transfer Receipt, Material Loss, Transfer Order and Intra Warehouse Stock Transfer). The count of the documents that are pending for action shall be displayed on the selection of a value from the drop-down.

**Exhibit 25: Identifies the Document Type wise Count Display (Transfer summary)**



### Warehouse Specific Search

This control helps in retrieval of all the stock transfer documents that are pending in a given Warehouse. The interested Warehouse could be searched to have the tree formed with the documents pending in that Warehouse alone.

### Document Status wise Tree Display

This section displays the break-down for the count displayed besides the Document Type drop down at Warehouse – Possible Action level.

**Exhibit 26: Identifies the Document Status wise Tree Display (Transfer summary)**



The possible child nodes under each of the parent nodes (Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer) are given below.

- a. Transfer Issue
  - a. Draft
  - b. Fresh
  - c. Orders
  - d. Open Order
- b. Transfer Receipt
  - a. To be Confirmed
  - b. Orders pending for Receipt
- c. Material Loss
  - a. To be Confirmed
- d. Transfer Order
  - a. Draft
  - b. To be Authorized
- e. Intra Warehouse Transfer
  - a. Draft
  - b. To be Authorized

**Document Status wise Tree Display - Sub Nodes Logic**

**Transfer Issue:**

**Draft:**

Count of the Stock Transfer Issues in Draft status, for a given Warehouse.

**Fresh:**

Count of the Stock Transfer Issues in Fresh status, for a given Warehouse.

**Orders – Due for Issue:**

Count of the Stock Transfer orders created from a given Warehouse, that are in Authorized status with the Need Date less than or equal to the current system date (with Stock Transfer Issue not being recorded for at least one part).

**Orders – Not Due:**

Count of the Stock Transfer orders created from a given Warehouse that is in Authorized status with the Need Date greater than the current system date (with Stock Transfer Issue not being recorded for at least one part).

**Transfer Receipt:**

***To be confirmed:***

Count of the Stock Transfer Receipts that are in Fresh status, in the given Warehouse.

***Orders pending for Receipt:***

Count of the distinct Stock Transfer Orders (for a given To Warehouse #), against which the Stock Transfer Issue is in Confirmed status, but Stock Transfer Receipt is not recorded.

**Material Loss:**

***To be confirmed:***

Count of the Material Loss documents recorded against a Stock Transfer document for a given Warehouse # that are in Fresh status.

**Transfer Order:**

***Draft:***

Count of the Stock Transfer orders created from a given Warehouse that is in Draft status.

***To be authorized:***

Count of the Stock Transfer orders created from a given Warehouse that is in Fresh status.

**Intra Warehouse Transfer:**

***Draft:***

Count of Intra Warehouse Stock Transfer Orders created from a given Warehouse that is in Draft status.

***To be authorized:***

Count of the Intra Warehouse Stock Transfer orders created from a given Warehouse that are in Fresh status.

**Document List Panel (Transfer Summary)**

This section shows the key information of the documents contributing to the count of a given child node of the tree section. This section is populated on the click of the child node of the tree section.

**Exhibit 27: Identifies the Document List Panel (Transfer)**



In addition, this section also provides the user an alternative way of traversal in the Workspace, 'Direct Search'. By this 'Direct Search', the user need not take the tree section route to view the Document List Panel. Instead, directly, the drop-downs available over the multi-line can be used to select desired Search Criteria to view the Document List.

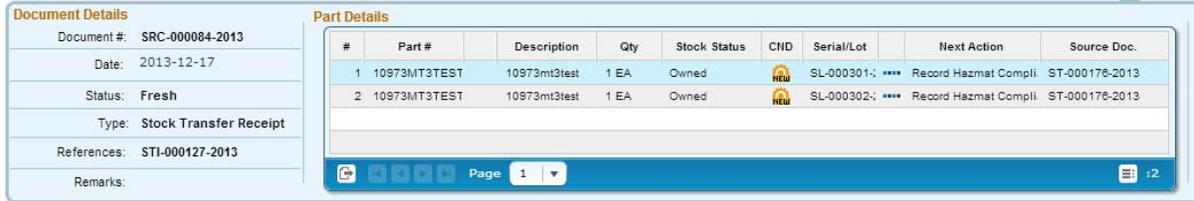
The Check-Box 'Closed', offers the user to fetch even the Canceled or Closed or short closed documents for Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer.

The Check-Box, 'Overdue', offers the user to fetch only those Transfer Issue or Transfer Receipt or Material Loss or Transfer Order or Intra Warehouse Transfer that are Overdue (i.e.) Due Date is earlier than the current server date.

**Document Preview Panel (Transfer Summary)**

This section has two sub-sections: Document Details and Part Details, to enlist the document level and the Part level details of the Document that is selected from the Document List Panel multi-line. This section is populated with the data on the click of the Document # in the Document List panel.

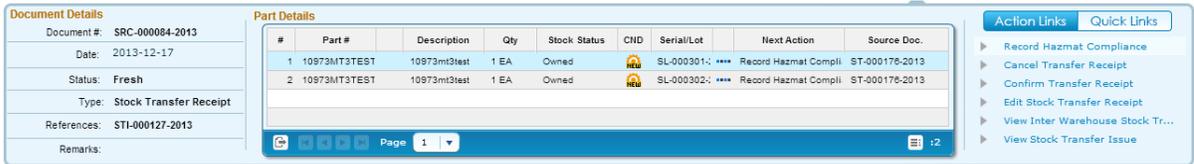
**Exhibit 28: Identifies the Document Preview Panel (Transfer summary)**



**Action Links & Quick Links Panel (Transfer Summary)**

- 1) **Action Links:** This section comprises of the next possible action links for a given document based upon the Next Action displayed in the Next Action column of the Document Preview Panel. This section is populated along with the Document Preview Panel on click of the Document # in the Document List Panel.

**Exhibit 28: Identifies the Document Preview Panel along with Action Links (Transfer View)**



- 2) **Quick Links:** This section comprises of links to all the possible routine activities of a Line Base Personnel. This section is populated on the launch of the Workspace.

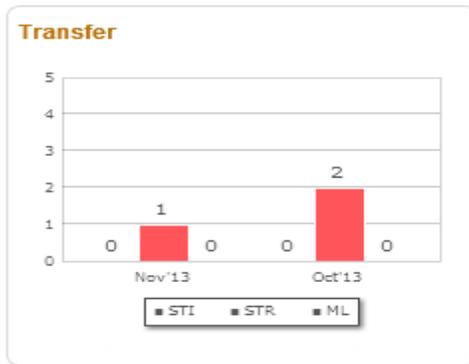
**Exhibit 29: Identifies the Quick Links section (Transfer summary)**



**Charts Panel (Transfer Summary)**

This section comprises of the Receiving charts that get populated with the Count of Transfer Issue or Transfer Receipt or Material Loss for the previous two months for the Warehouse # selected in my area.

**Exhibit 30: Identifies the Charts panel (Transfer summary)**



## Inventory Management & Alerts Tab

Reference: AHBE-7243

### Background

In addition to maintaining the Warehouse, the Field Base Personnel also needs to carry out the Maintenance of an Aircraft. In order to achieve this, it becomes vital for the Field Base Personnel to be alerted on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

The Business requirement is to provide ability for the Field Base Personnel to have an eye on the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools), so that necessary action could be taken.

### Change Details

A tab titled 'Inventory Management & Alerts' has been provided in the **Inventory Operations** WorkSpace to have a view of the Parts that would be due for Maintenance or Shelf Life Expiry or Calibration (in case of Tools).

This tab alerts the user with the visibility of the inventoried parts that would be due for Maintenance or Shelf Life Expiry or Tools Calibration, along with the summary of the Parts available in the Serviceable and Unserviceable Warehouse # (at the Part Type – Classification or Part Category level, as defined in the Manage Screen Defaults & Preference screen).

The red color indicator in the tab denotes that there are parts that overdue for any of the activities mentioned above.

### Exhibit 31: Identifies the Inventory Management & Alerts Tab

The screenshot displays the 'Inventory Management & Alerts' tab within the 'Inventory Operations' workspace. The interface includes a navigation bar at the top with 'Inventory Management & Alerts' highlighted in red. Below the navigation bar, there are several sections:

- Overdue:** A table showing parts that are overdue. The table has columns for #, Part #, Description, Stock Status, Qty, Flag, Due Days, and Warehouse #. There are 3 rows of data.
- Part Details:** A section showing details for a specific part, including Part #, Description, Part Type, Qty, and Due For.
- Storage Details:** A table showing storage information for the selected part, including #, Zone/Bin, Qty, Serial/Lot, CND, Exp/Due Dt, Fac. Obj/Comp, and Ownership.

The 'Overdue' table data is as follows:

#	Part #	Description	Stock Status	Qty	Flag	Due Days	Warehouse #
1	0-0110-3-0442:3636...	Acoustical AR Y Panel	Accepted	1 EA		-31	00123
2	0-0440-4-0005:36361	Mappoo AR Oven	Accepted	1 EA		-100	00123
3	0-0440-4-0005:36361	Mappoo AR Oven	Customer	1 EA		-104	00123

The 'Part Details' section shows:

- Part #: 0-0110-3-0442:363615HAZ
- Description: Acoustical Aft Y Panel
- Part Type: Component
- Qty: 1 EA
- Due For: [Icon]

The 'Storage Details' table data is as follows:

#	Zone/Bin	Qty	Serial/Lot	CND	Exp/Due Dt	Fac. Obj/Comp	Ownership
1	001/01	1 EA	asdas		28/09/2013	COMP-001175	Owned

**Exhibit 32: Identifies the Count Display section (Inventory Management & Alerts Tab)**

- 3) **Tree Section:** This section displays the break-down for the count displayed in the Overdue or Alerts button. If the Inventory button is selected, this section displays the break-down of the Stock available in the Serviceable or Unserviceable Warehouse – Zone combination.

The child nodes for Overdue and Alerts buttons are:

- i. Shelf Life Expiry
- ii. Tool Calibration
- iii. Maintenance Due

If the Inventory Management Tree View is set as 'Part Type – Classification' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

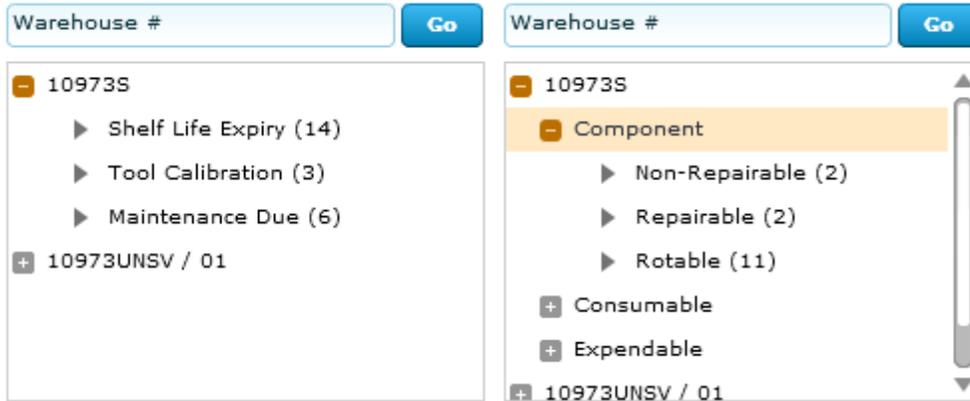
- i. Part Type 1 (Eg.) Component
  - a. Part Classification 1 (Eg.) Rotables
  - b. Part Classification 2 (Eg.) Repairable
- ii. Part Type 2
  - c. Part Classification 1
  - d. Part Classification 2

If the Inventory Management Tree View is set as 'Part Category' in the Manage Screen Defaults & Preference screen, then the child nodes for Inventory button will be:

- i. Part Category 1 (Count)
- ii. Part Category 2 (Count)

In addition, this section also provides the user with an ability to search for Parts in a specific Warehouse #.

**Exhibit 33: Identifies the Tree Section in Inventory Management & Alerts Tab**



- 4) **Part List Panel & Part Level Action Links:** This section displays the Part-Stock Status combination that forms the count displayed against the child node in the tree section.

This section is populated by the click of the tree section's child node.

The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Stock Status combination.

**Exhibit 34: Identifies the Part List Panel & Part Level Action Links (Inventory Management & Alerts Tab)**



In addition, this section also has the 'Direct Search' capability similar to the other tab.

- 5) **Part Detailed Panel & Detailed Level Action Links:** This section displays the Part-Serial / Lot # combination that forms the count displayed against the Part – Stock Status combination in the multi-line of the Part List Panel under two sub-sections: Part Details and Storage Details. This section is populated by the click of the Part # in the multi-line of the Part List Panel. The Action Links displayed are the links to the application screens for the list of identified actions possible for the Part-Serial # combination.

**Exhibit 35: Identifies the Part Detailed Panel & Detailed Level Action Links (Inventory Management & Alerts Tab)**

The screenshot displays a software interface with three main sections:

- Part Details:** Shows information for Part # 0-1450P3155, Description Sealant, Part Type Component, 10973S, Qty 5 EA, and Due For.
- Storage Details:** A table with columns: #, Zone/Bin, Qty, Serial/Lot, CND, Exp/Due Dt, Fac.Obj/Comp, and Ownership. It lists 4 items with serial numbers SL00301 through SL00305.
- Action Links:** A list of actions including Update Component Condition, Record Part-Serial Change, Maintain Part Certificates, View Part - Serial / Lot History, and View Component Record.

#	Zone/Bin	Qty	Serial/Lot	CND	Exp/Due Dt	Fac.Obj/Comp	Ownership
1	03/3	1 EA	SL00301			AIR-3822	Owned
2	03/3	1 EA	SL00303			AIR-3824	Owned
3	03/3	1 EA	SL00304			AIR-3825	Owned
4	03/3	1 EA	SL00305			AIR-3826	Owned

## Ability to launch Receipt Documents in Edit/View Mode

*Reference: AHBE-11205*

### Background

Inventory Operations WorkSpace released earlier is continuously improvised and tuned based on the feedback from several customers. Though the novel idea of using the WorkSpace as launch pad to create various receipts is widely appreciated, provision is required to use the launch pad (Easy Launch) for editing and viewing various receipts.

### Change Details

Edit/View radio button is enabled in the Easy Launch panel. Once the radio button is selected user can enter the Receipt document and click the Go button. This action will launch the respective Edit/View screen based on the Document Type and the Document Status and also based on user access rights for respective Edit / View Receipt activities. For example, if user enters a Stock Transfer Receipt which is in "Confirmed" status, on click of Go button, View Stock Transfer Receipt screen will be launched. Similarly, if user enters a Loan/Rental Receipt which is in "Received" status, Edit Loan/Rental Receipt screen will be launched.

## Link to Short Close MR Screen

### Background

Inventory Operations WorkSpace supports review of open Material Request documents in both Aircraft view as well Warehouse view. Business requirement is to provide a link to Short Close open Material Request from the WorkSpace.

### Change Details

In order to facilitate Short Closure of Material Request from Workspace, following Changes have been done.

- i. An Action link "Short Close Material Request" is added. Visibility of the link for the Material Requests in 'Authorized', 'Partially Issued' and 'Partially Received' status will be based on the following logic.
  - a. For Material Requests generated from AME / SWO and for those manual Material Requests pegged to an AME, the link will be visible only if the login user has access rights to the '**Short Close AME/SWO Material Request**' activity defined under Material Request business component and also the set option "Allow Manual Short Closure of Material Request from Material Request Business Component" is set as "Yes" for the corresponding Package Type / SWO Type of AME / SWO referenced in the MR
  - b. For other Material Requests, this link will be visible if the login user has access rights to 'Short Close Material Request' activity under Material Request business component.
- ii. In the Quick link section the link "Short Close Material Request" is added will be displayed always if login user has access rights to the activity.

## **Ability to refresh Inventory Management & Alert tab**

### **Background**

Currently, the modification of My Area refreshes the data in the Inventory Operations tab. Business need is to facilitate a similar refresh capability in Inventory Management & Alerts tab.

### **Change Details**

A new capability to refresh the data in Inventory Management & Alerts tab based on change in My Area is provided.

## Alert on selection of My Area

### Background

Currently, if My Area is not defined, typically during the launch of the WorkSpace for first time by a user, system tries to retrieve the data pertaining to all the Warehouses mapped to the user. Business requirement is to notify the user to select an Area rather than trying to retrieve all possible information.

### Change Details

For a user and role combination, if My Area is not defined, then, a text **“Please select My Area”** in red will be displayed in the My Area section.



**Exhibit 1: Identifies the Edit/View mode in Easy Launch panel**

**Exhibit 2: Identifies the “Short Close Material Request” Link in Quick Links Section under Inventory Operations Workspace**

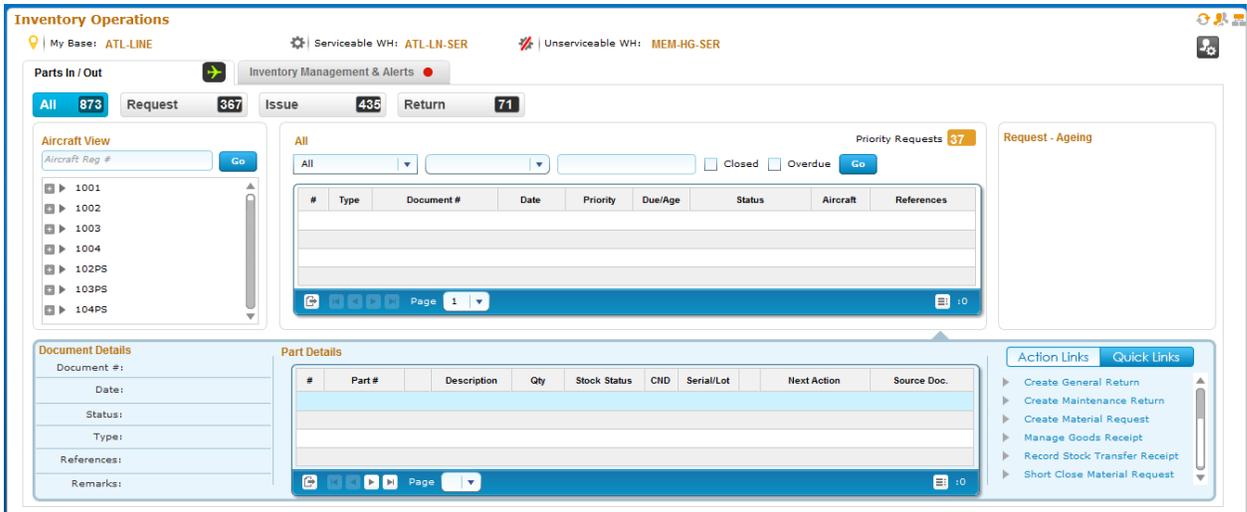


Exhibit 3: Identifies the “Short Close Material Request” Link in Action Links Section under Inventory Operations Workspace

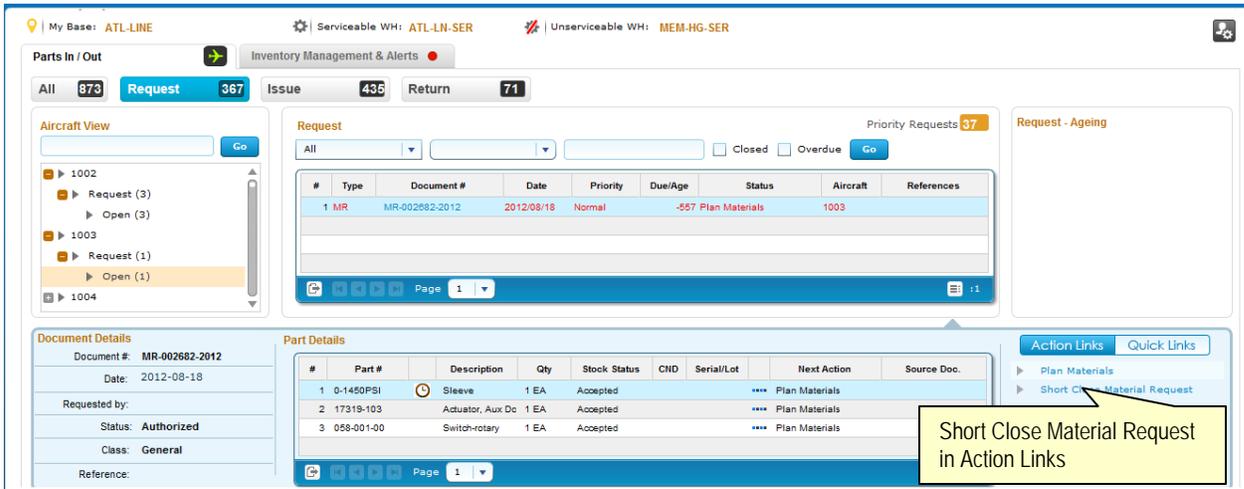
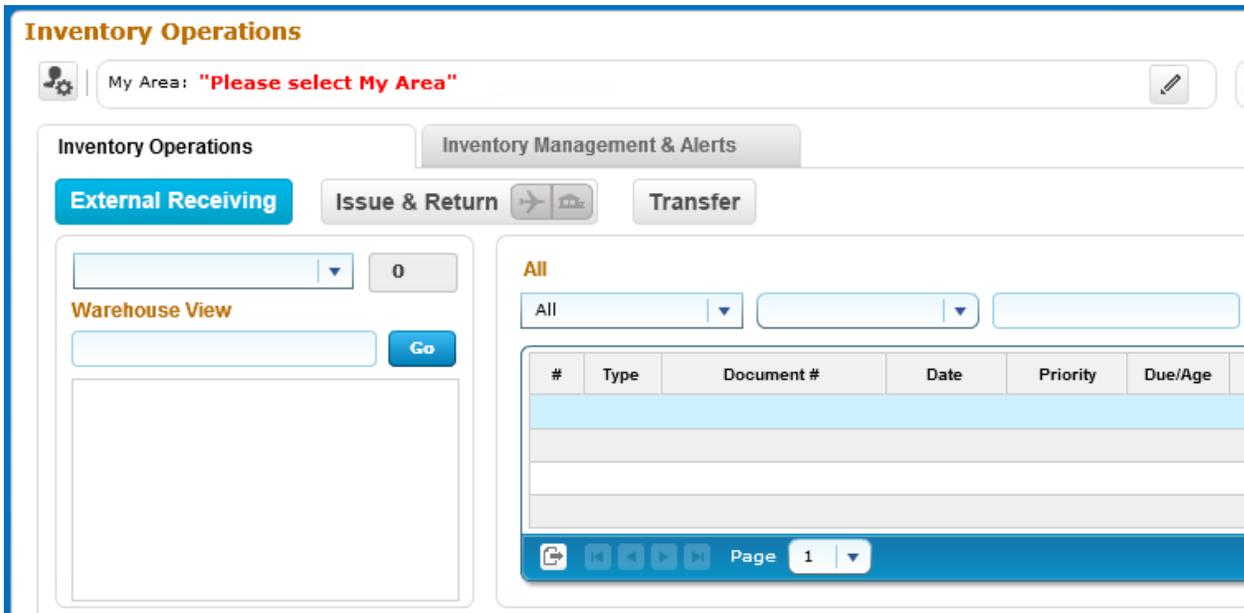


Exhibit 4: Identifies the message displayed if My Area is not chosen



## Ability to display Replenishment & Planning Information

*Reference: AHBE-11980*

### Background

In addition to carrying out the Maintenance of an Aircraft, the Field Base Personnel also needs to carry out Planning & Replenishment activity to review Inventory levels in Warehouse to avoid stock out situation. In order to achieve this, it becomes vital for the Field Base Personnel to be alerted on the Parts, which are having planning exceptions.

Business requirement is to display the parts with planning exception, so that necessary action could be taken. Also, visibility of the Allocated Qty of a Part in a given Warehouse is required.

### Change Details

In the Inventory Management & Alerts tab, under the “Inventory” button, a new value “**Serviceable – Plan Info**” is added in the first drop-down of the Document List panel. In addition to this, in the Document List panel multiline new columns MN/RL, MX/RQ, RPQ and Planning Type Image (Caption less column) will be displayed. Since planning exceptions are not specific to a Stock Status, existing column Stock Status is hidden. Planning information for the combination of Part – Warehouse will be displayed. For example, if Minimum Qty is defined as 5 in Warehouse Planning parameter for the Part – Warehouse Combination then MN/RL column in the Document list panel multiline will display 5 for the Part under the Warehouse that is selected in the My area. When the value in the first drop-down is selected as ‘All’ or ‘Serviceable WH’ or ‘Unserviceable WH’, then the column ‘Stock Status’ will be made visible and the new columns added will be hidden i.e., general inventory review mode.

Also, a new check box ‘Exception’ is provided before ‘GO’ button to facilitate the retrieval of Planning Exception documents. (i.e., Minimum Quantity/Reorder Level defined is greater than the Quantity available in the Stock and Replenished Qty).

A new field Replenish by is added in the Part Details section of the Document Preview panel to display the defined mode of stock replenishment for the part. Action links to Create Purchase Request and Create Purchase Order are provided for the user to initiate manual replenishment based on the current stock levels. However the PR or PO created will not be directly linked / reflected in the RPQ (Replenishment Qty) as it is manually initiated.

## Enhancement Notification

To display allocated quantity, a new column "Alloc. Qty" is added in the Document List Panel multiline. This new column will be available in planning exception mode as well for a general inventory mode.

**Exhibit 2: Identifies the changes made in Inventory Management & Alerts tab to display Planning Info.**

The screenshot displays the 'Inventory Management & Alerts' interface. The main section is titled 'Inventory' and shows a table with the following columns: #, Part #, Description, Qty, Alloc. Qty, Warehouse #, MN / RL, MX / RQ, and RPQ. The table contains four rows of inventory items. A callout box points to a new checkbox labeled 'Exception' in the top right of the table area. Another callout points to a dropdown menu labeled 'Serviceable - Plan' in the top left of the table area. A third callout points to the 'MN / RL', 'MX / RQ', and 'RPQ' columns. The interface also includes a 'Part Details' panel on the left and an 'Action Links' panel on the right.

#	Part #	Description	Qty	Alloc. Qty	Warehouse #	MN / RL	MX / RQ	RPQ
1	311179-03.0L...	Part	10 EA	5	00123	12	30	0
2	6484875	Clamp	0 EA	0	00123	20	10	6
3	879990	Antenna	0 EA	0	00123	3	6	0
4	RE-1-PR-ALT	Re-1-pr	5 EA	0	00123	5	5	5

Annotations in the image:

- New check box 'Exception' has added.
- New Combo Value 'Serviceable - Plan Info' has added.
- New Column MN/RL, MX/RQ, RPQ has

## WHAT'S NEW IN ADVANCED REPORTING & INTELLIGENCE (ARI)?

### Ability to Inquire Stock based on Part, Storage and Stock attributes

Reference: AHBE-6820

#### Background

As the case with several Operator/MRO, for various business reasons and reporting requirements stock needs be inquired with different search criteria. Business need is to provide a facility where each organization can configure Stock Inquiry report based on different attributes related to Part, Warehouse and Stock.

#### Change Details

A new report 'Stock Inquiry' is provided as part of Advanced Reporting & Intelligence (ARI) capability which can be configured as per the business/reporting needs of different organizations for different roles or users.

Following are the list of Input & Output fields that are available for the report.

Input / Output	Fields
Input	<p><b>Warehouse Info:</b> Storage Location, Station, Warehouse #, Warehouse Category, Zone #, Bin #.</p> <p><b>Part Info:</b> Part #, Part Description, Mfr. Part #, Prime Part #, Part Type, Part Category, Planning Type, Primary Part Group, Part Account Group, Primary Aircraft Model #, Part Classification, LLP?, PMA?, Component Type, Valuation Method, Expensing Policy, ABC Class, FSN Class, Reference Status and Planning Status</p> <p><b>Stock Info:</b> Serial #, Mfr. Serial #, Lot #, Mfr. Lot #, Component #, Stock Status, Condition, Expiry Date, Asset Id, Tag, Deviated Part?, SOS Quar?, Trading Partner Type, Trading Partner #, Trading Partner Name and Offline Area #.</p>
Output	Warehouse #, Zone #, Bin #, Part #, Part Description, Serial #, Mfr. Serial #, Lot #, Mfr. Lot #, Available Qty, Allocated Qty, Total Qty, Rate, Value, Currency, Stock Status, Condition, Component #, Expiry Date, Asset Id, Tag, Deviated Part?, SOS Quar?, Available in

Input / Output	Fields
	Kit, Source Document Type, Source Document #, Last Updated Document Type, Last Updated Document #, Trading Partner Type, Trading Partner #, Trading Partner Name, Certificate Type, Certificate #, Certificate Date, Mfr. Part #, Prime Part #, Part Type, Part Category, Part Control Type, Standard Cost, Planning Type, Expense Type, Issue Basis, Primary Part Group, Part Account Group, Primary Aircraft Model #, Part Classification, LLP?, PMA?, Component Type, Replacement Type, ATA #, Valuation Method, Expensing Policy, Adjust Actual Cost, ABC Class, FSN Class, Hazardous?, Preferred Supplier, Standard Purchase Price, Purchase UOM, Standard Sales Price, Sales UOM, Reference Status, Planning Status, Storage Location, Station, Warehouse Description, Warehouse Category and Offline Area #.

## WHAT'S NEW IN FACILITY MANAGEMENT?

### Ability to restrict induction of non-serialized part as Facility Object

*Reference: AHBE-13698*

#### Background

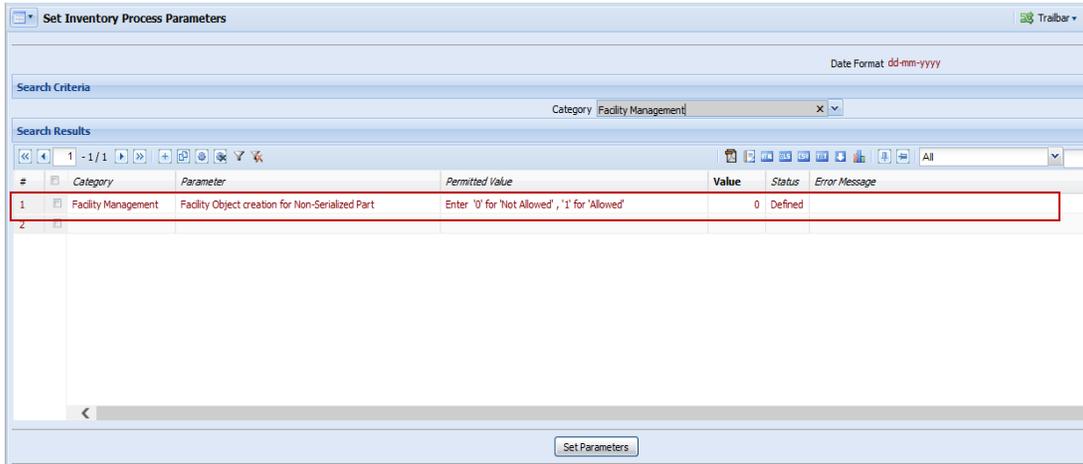
Ramco Aviation Solution facilitates induction of a serialized or non-serialized part as a Facility Object. However, business need from few Operators is to restrict induction of non-serialized parts as Facility Objects in a Tool Crib, as better traceability of tool will be established only when it serialized.

#### Change Details

A new set option "Facility Object creation for Non-Serialized Part" has been introduced under the category 'Facility Management' in **Set Inventory Process Parameters** activity in **Logistic Common Master** business component. This option can be set as "Allowed" or "Not Allowed".

If the option is set as "Not Allowed", then system will restrict creation of Facility Object for non-serialized parts. If the option is defined as "Allowed", then existing logic would continue where creation of Facility Object will be allowed for both serialized & non-serialized parts. Also the Search logic in Create Facility Object screen has been modified not to retrieve non-serialized parts matching the search criteria if the option is set as "Not Allowed".

**Exhibit-I:** *Identifies the new option added in **Set Inventory Process Parameter** screen.*



## WHAT'S NEW IN KIT MANAGEMENT?

### Ability to default shortage Part - Quantities to create Replenishment MR

Reference: AHBE-13373

#### Background

Kit Management process has an ability to inquire availability of parts in a warehouse to build kit. Against the specified no. kit what user intends to build, system suggests based on the available qty, the actual no. of kits that can be built as well details the shortage part quantities. However, there is no provision to initiate a replenishment MR for the shortage part quantities and user is expected to manually enter part and qty and create a replenishment MR. Business need is to automatically transfer the identified shortage part quantities from Inquire Stock Availability to Kit screen to Create Material Request screen to avoid data entry mistakes and facilitate quick processing.

#### Change Details

To address the business need, when user clicks the link Create Material Request from **Inquire Stock Availability** screen, all the shortage part – quantities that are selected by the user from the multiline will be transferred to Part Details multiline in **Create Material Request** screen, totally eliminating the need for the user to manually enter the part and quantity information.

In addition to the above change, following defaults are managed in Create Material Request screen to improve usability,

- **MR Class** – This drop down will be defaulted with the value “Replenishment”.
- **MR Type** – This drop down will be defaulted with the value “For Stock”.

- **Remarks** – It will be defaulted with the text “*Requisition for Build Kit: <Kit Part>*”.
- **Stock Status & Request For** – These drop downs in the multiline will be defaulted with the Kit Part Stock Status and Ownership chosen in the Inquire Stock Availability to Kit screen.

**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](http://www.ramco.com)