Ramco Aviation Solution

Version 5.7.2

Enhancement Notification

Materials

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WHAT'S NEW IN STORAGE ADMINISTRATION?

Enhancement in Warehouse Planning Parameters screen

Reference: AHBF-1937

Background

Warehouse Planning Parameter facilitates definition of planning levels for stock replenishment in a Warehouse i.e., Min-Max or Reorder levels. To improve the effectivity of the screen following business requirements from different customers are addressed.

- To display current stock quantity including alternates
- To facilitate definition of planning parameters for parts that are newly inducted / missed
- To facilitate review of part exceptions where current stock is lesser than Min Qty / Reorder Level etc.
- Provision of links to view replenishment documents i.e., MR, PR and PO
- To change the Planning Type from Min-Max to Reorder Level at Warehouse

Change Details

A new option 'Allow Warehouse level Planning Type to be different from Part level Planning Type?' is added in the **Set Inventory Process Parameters** screen. The option can be set as "Yes" or "No". If the option is set as "Yes", planning parameter at the Warehouse level for a part can be defined as either Min-Max or Reorder Level irrespective of the Part level Planning Type defined. Currently, Planning Type for a Part needs to be same at Warehouse and Part Level.

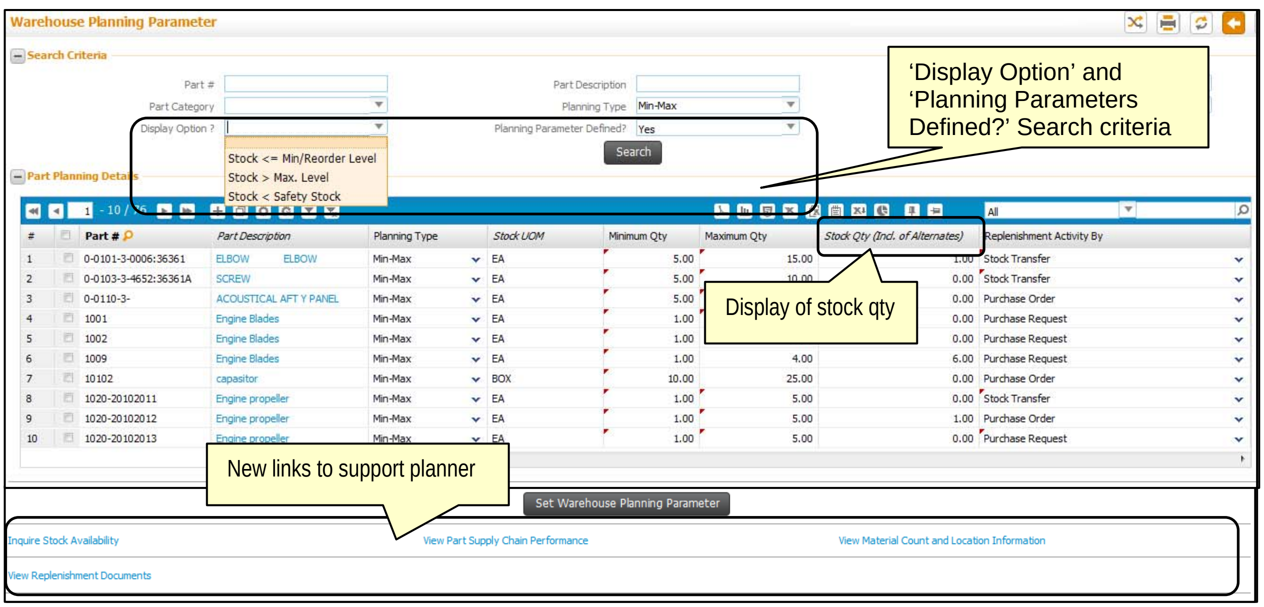
In the **Maintain Warehouse Planning Parameters** screen,

- A combo 'Display Option?' is added in the Search Criteria section. This combo will be loaded with the following values.
  - Stock<=Min./Reorder Level
  - Stock > Max. Level
  - Stock < Safety Stock
- A combo 'Planning Parameters Defined?' is added to retrieve the Parts based on the existence of Planning Parameter definition in the given Warehouse #.
- A column 'Stock Qty(Incl. of Alternates)' is added in the 'Part Planning Details' multiline and this column will display the sum of the Stock Qty of the given Part and it's alternate Parts in the given Warehouse.

- The non-editable field ‘Planning Type’ is modified into a combo and will be loaded with ‘Min-Max’ and ‘Reorder Level’.
  - o The user will be able to provide a Planning Type different from the value defined in the Part Administration business component, if the option ‘Allow Warehouse level Planning Type to be different from Part level Planning Type?’ is set as “Yes” in the Set Inventory Process Parameters screen
- Links are added under the multiline to launch the ‘Inquire Stock Availability’, ‘View Part Supply Chain Performance’ and ‘View Material Count and Location Information’ screens to supplement the Material Planner
- Link ‘View Replenishment Documents’ is provided to have a view of the Replenishment documents triggered for a Part in the given Warehouse

Similar changes are also made in the **View Warehouse Planning Parameters** screen.

Exhibit-I: Identifies the changes in the **Maintain Warehouse Planning Parameters** screen



To review replenishment documents for a part, after selecting the part from the multiline the link “View Replenishment Documents” needs to be clicked. Depending upon the value chosen for the field ‘Replenishment Activity By’ for the selected Part, the link will dynamically launch respective view screens as given below:

- Stock Transfer - Select Material Request screen under View Material Request activity
- Purchase Request - Select Purchase Request screen under View Purchase Request activity

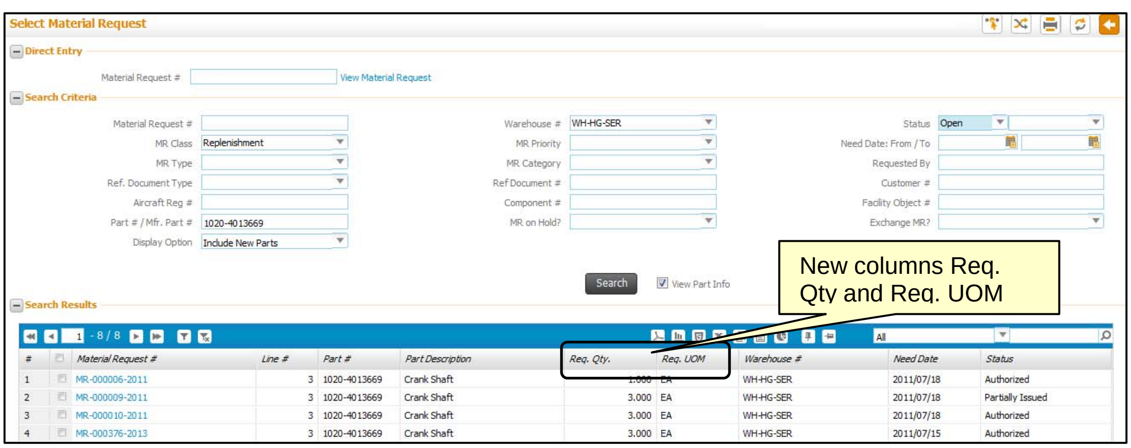
- Purchase Order - Select Purchase Order screen under View Purchase Order activity

The above view screens are enhanced such that it will automatically retrieve replenishment MR, PR or PO if available. In order to achieve this, these view screens have been enhanced as explained below.

In the **Select Material Request** screen of the View Material Request activity,

- New columns 'Req. Qty' and Req. UOM' are added in the 'Search Results' multiline and these columns will display the Requested Qty of the Part and the Requested UOM respectively, provided Search is made with the 'View Part Info' check-box selected.
- When this screen is launched from 'Maintain Warehouse Planning Parameters' or 'View Warehouse Planning Parameters' screen, search will be automatically triggered after defaulting the following Search Criteria
    - o Warehouse # - Warehouse in which Planning Parameter is defined
    - o Part # - Part for which Planning Parameter is defined
    - o Status – Open
    - o MR Class – Replenishment
    - o Need Date: From/To - Blank
    - o View Part Info (Check-Box) – Selected

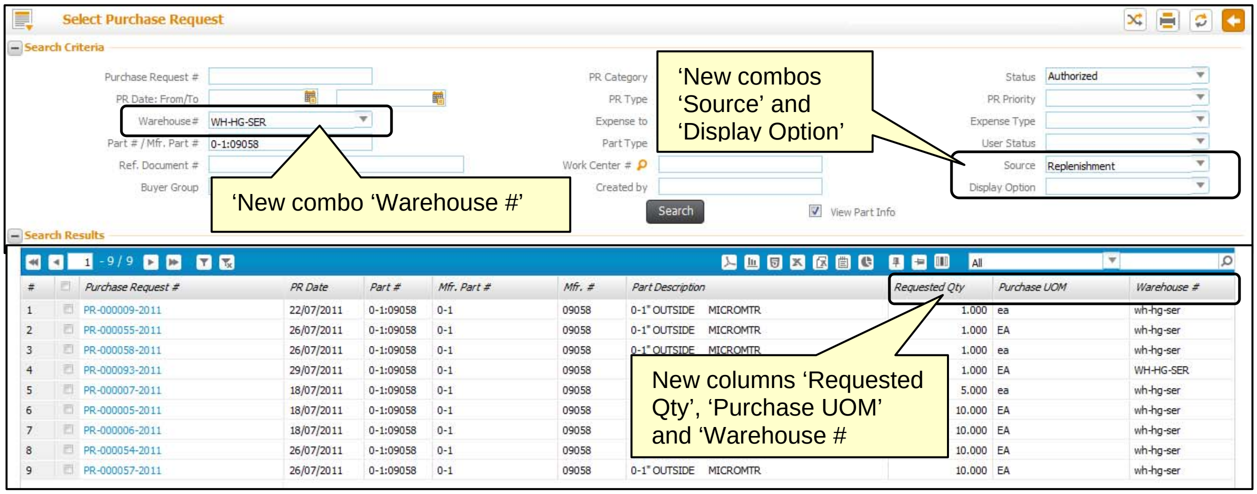
Exhibit-II: Identifies the changes in the **Select Material Request** screen



In the **Select Purchase Request** screen of the View Purchase Request activity,

- In the 'Search Criteria' section, the combos Warehouse #, Source and Display Option are added to retrieve the Purchase Requests
    - 'Source' combo will be loaded with the values identifying the trigger for the Purchase Request listed below, along with a blank value
        - Material Planning
        - Scrap
        - Replenishment
        - Direct
    - 'Display Option' combo will be loaded with the values identifying the current status of the PR with respect to Purchase document (i.e.) Purchase Order or Release Slip creation, along with a blank value
        - Uncovered PR
        - PR on Order
        - Open PR
- In the 'Search Results' multiline, columns are added to display the Requested Qty, Purchase UOM and Warehouse #
- When this screen is launched from 'Maintain Warehouse Planning Parameters' or 'View Warehouse Planning Parameters' screen, search will be automatically triggered after defaulting the following search criteria
    - Warehouse # - Warehouse in which Planning Parameter is defined
    - Part # - Part for which Planning Parameter is defined
    - Status – Authorized
    - PR Date: From/To - Blank
    - Source – Replenishment
    - View Part Info (Check-Box) – Selected

Exhibit-III: Identifies the changes in the **Select Purchase Request** screen



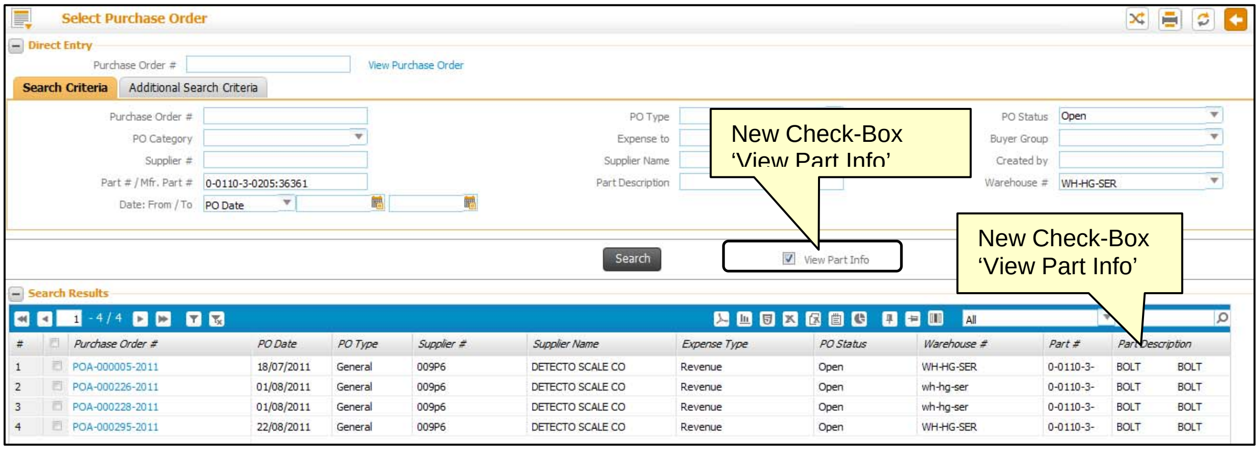
In the **Select Purchase Order** screen of the View Purchase Order activity,

- In the 'Search Criteria' section, a check-box 'View Part Info' is added to retrieve the details of the Ordered Part # along with the Purchase Order details
- In the 'Advanced Search Criteria' tab, a check-box 'Replenishment' is added to retrieve the Purchase Orders that are triggered for Replenishment purpose
- In the 'Search Results' multiline, the following columns to display the Part information are added
  - Part #
  - Part Description
  - Qty
  - UOM
  - Schedule Type
  - Earliest Due Date

  Note: These controls will be visible only if the 'Search' is made with 'View Part Info' check-box selected
- When this screen is launched from 'Maintain Warehouse Planning Parameters' or 'View Warehouse Planning Parameters' screen, search will be automatically triggered after defaulting the following search criteria
  - Warehouse # - Warehouse in which Planning Parameter is defined
  - Part # - Part for which Planning Parameter is defined
  - Date: From/To – Blank

- Replenishment (Check-Box) – Selected
- View Part Info (Check-Box) – Selected

Exhibit-IV: Identifies the changes in the **Select Purchase Order** screen



WHAT'S NEW IN LOGISTICS COMMON MASTER?

Ability to maintain separate priority codes for Maintenance and Materials transactions

Reference: AHBF-2901

Background

In order to facilitate seam less flow of priority code from one document to another, generated downstream in a business process, priority codes needs to be common across documents and functions. For example, priority of an execution document need to flow as the priority of the MR created against the execution document. Definition of separate distinct priority code for Maintenance and Materials transaction is not supported in R5.7. However, the requirement from one of the Operators is to maintain separate priority codes for Maintenance and Materials transaction.

Change Details

In order to address the specific need, a new set option 'Maintain separate Priority Codes for Materials and Maintenance?' is added under the Category "Priority Code" in **Set Inventory Process Parameter** activity under **Logistics Common Master** business component. The option can be set as "Yes" or "No". For all existing customers, migration script will be provided to set the option as "No" so that unified priority code can be maintained. Also, validation has been introduced to restrict changing the option from Yes to No or vice versa.

For specific customers, who would want to maintain separate priority code for Maintenance and Materials, script will be provided to set the value for the option as "Yes". Secondly, once the list of distinct priority codes are identified, Ramco will provide a script to update and maintain them separately. Once the priority codes are maintained separately, any change to existing priority code or addition of new priority code can done only through the scripts which will be provided based on request.

In the event where priority codes are maintained separately, priority code from one document will not flow to another. For example, when an MR is automatically generated during Maintenance Execution, MR priority will be set as "Normal" by default irrespective of the priority code of the corresponding Task. Similarly, when a PR is processed for an MR from Plan Material screen, MR priority will not be passed as PR priority i.e., PR priority will be blank.

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

WHAT'S NEW IN PURCHASE ORDER?

Ability to persist UOM Conversion Factor in PO and use the Conversion Factor to update Stock during Receipt

Reference: AHBF-80

Background

Purchase Order facilitates ordering parts in a Unit of Measure (UOM) different from the Stock UOM, if conversion factor is defined between these UOM. Conversion factor is used to update Due In Qty during PO authorization, square off Due In Qty during receipt and to calculate the Stock Qty during GI movement. Modification of conversion factor results in data corruption affecting Due In Qty and Stock Qty. Restricting the user from modifying conversion factor would be limiting as it is not possible to close all open PO. This feature is introduced to ensure that Conversion Factor available during authorization of PO is consistently used to update or square off Due In Qty and to calculate at the Stock Qty.

Change Details

With the introduction of the feature, conversion factor defined between Purchase UOM and Stock UOM will be saved in the PO document against the Part # and it will be used to,

- Update Due In Qty upon authorization of PO
- Square off Due In Qty upon PO amendment
- Square off Due In Qty during Receipt
- Calculation of Stock Qty during GI movement

Also, a new validation has been added to restrict changing the Stock UOM for a Part if the Part is available in an Open PO.

Ability to search PO based on Authorized Date in View PO screen

Reference: AHBF-1875

Background

As the case with any Operator/MRO, Purchase Order requires multiple levels of approval based on the Order Value. At times, approval of PO gets delayed and the PO document gets struck with different level of authorizers. This in turn delays the release of PO to the Supplier and thus affects delivery schedules.

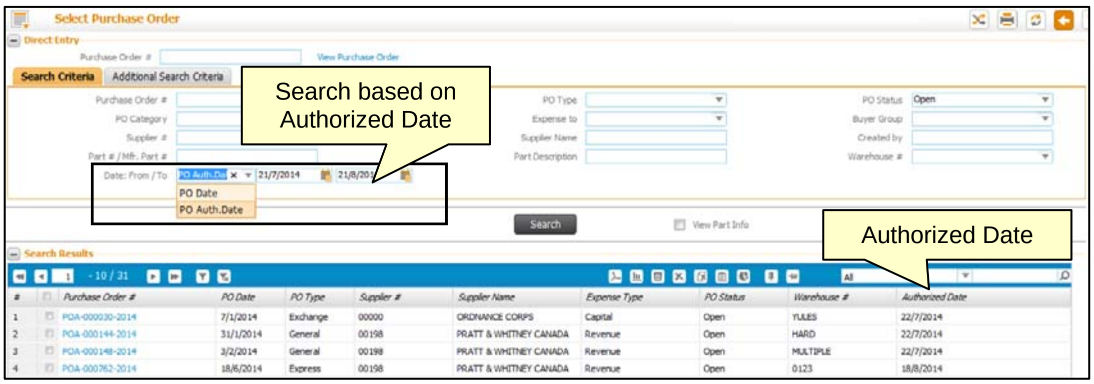
In the **Select Purchase Order** screen under **View Purchase Order** activity, PO Authorized Date needs to be displayed so that Buyer could review PO Authorized Date in conjunction with the PO Date. Also, an ability to search Purchase Orders based on Authorized Date is required.

Change Details

In the Search Results multiline of **Select Purchase Order** screen under **View Purchase Order** activity a new column “Authorized Date” is added. The latest Authorized Date of the PO will be displayed as applicable based on PO status. For Purchase Orders that are under authorization or under amendment post authorization, the column “Authorized Date” will be blank.

In order to facilitate search of PO based on authorized date, a new drop down “Date: From / To” is provided in the Search Criteria section. This drop down will be loaded with the values; PO Date and PO Auth. Date. If the value “PO Auth. Date” is chosen and Search button is clicked, then, system will retrieve those Purchase Orders that are authorized during the From and To Date range specified.

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



WHAT'S NEW IN REPAIR ORDER?

Ability to search RO based on Authorized Date in View RO screen

Reference: AHBF-1875

Background

As the case with any Operator, Repair Order requires multiple levels of approval based on Repair Quote. At times, approval of RO gets delayed and the RO document gets struck with different level of authorizers. This in turn delays the entire repair process thus affecting timely delivery of parts after repair.

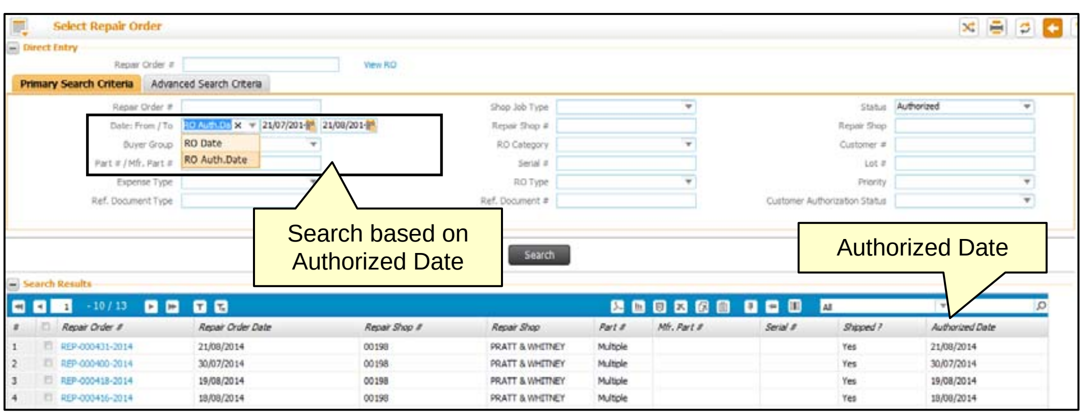
In the **Select Repair Order** screen under **View Repair Order** activity, RO Authorized Date needs to be displayed so that Repair Buyer / Administrator could review RO Authorized Date in conjunction with the RO Date. Also, an ability to search Repair Orders based on Authorized Date is required.

Change Details

In the Search Results multiline of **Select Repair Order** screen under **View Repair Order** activity a new column "Authorized Date" is added. The latest Authorized Date of the RO will be displayed as applicable based on RO status. For Repair Orders that are under authorization or under amendment post authorization, the column "Authorized Date" will be blank.

In order to facilitate search of RO based on authorized date, a new drop down "Date: From / To" is provided in the Primary Search Criteria section. This drop down will be loaded with the values; RO Date and RO Auth. Date. If the value "RO Auth. Date" is chosen and Search button is clicked, then, system will retrieve those Repair Orders that are authorized during the From and To Date range specified.

Exhibit VII: Identifies the changes in **Select Repair Order** screen under **View Repair Order** activity



Facility to identify and ship Spare Parts even after Shipment of Main Core for External Repair

Reference: AHBF-2145

Background

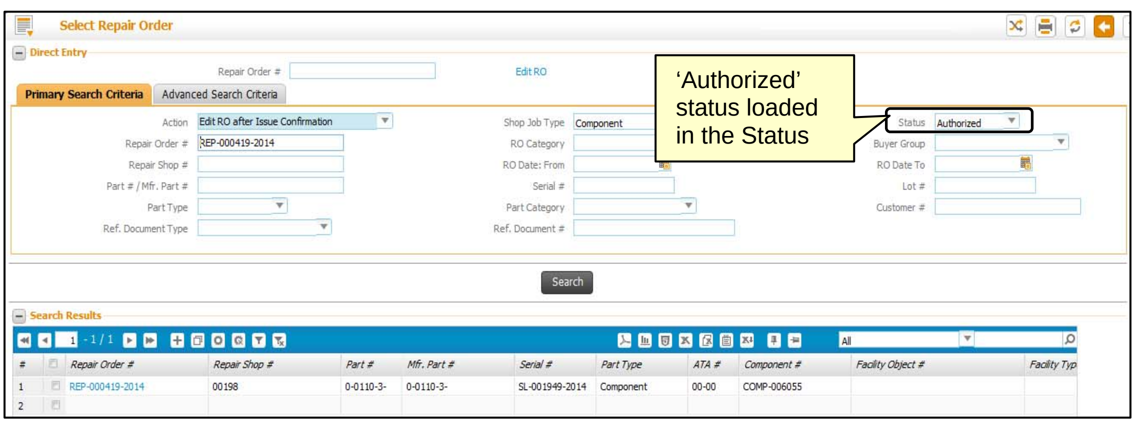
At times when spare parts required for Repair is not available with the Repair Agency or when there is a delay in procurement of spares which could affect repair lead time; Repair Agency will request the Operator/MRO to provide spares. Currently, spare parts need to be identified upfront along with the main core in the Repair Order and there is no provision to identify and ship spares parts once the main core is shipped to Repair Agency. Business need is to provide a capability to identify and ship spares at any stage in the RO process.

Change Details

A new set option ‘Allow shipment of Spares until receipt of Main Core Parts’ is added for the Category “Repair Order” in **Purchase Option Settings** screen under **Logistics Common Master** business component. The option can be set as “Yes” or “No”. If the option is set as “Yes”, Repair Order can be modified to identify spares even after shipment of main core.

In the **Select Repair Order** screen under **Edit Repair Order** activity, if the value in the Action drop down is selected as “Edit RO after Issue Confirmation”, the statuses ‘Amended’, ‘Confirmed’ and ‘Authorized’ will be loaded in addition to the existing values.

Exhibit VIII: Identifies the changes in **Edit Repair Order** entry screen



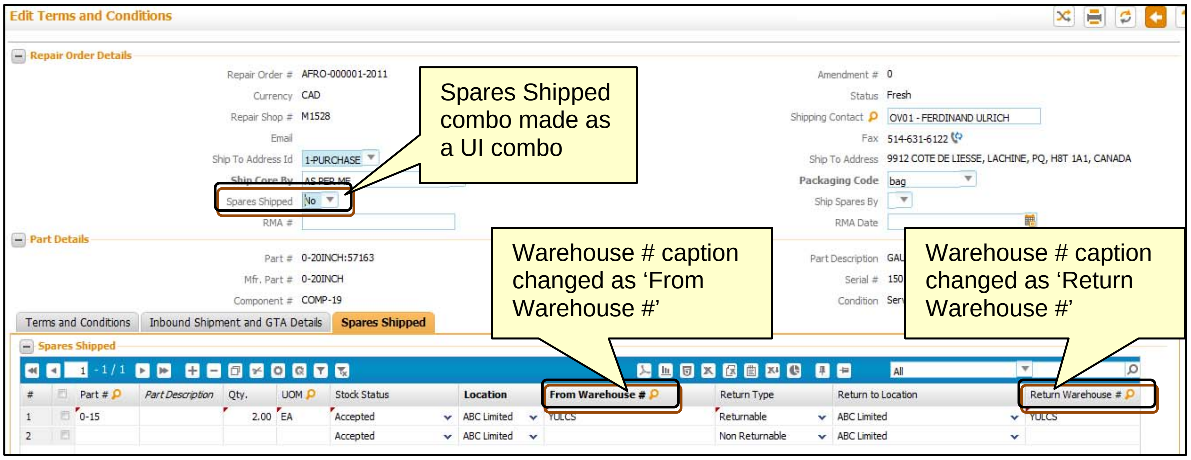
In the **Edit Repair Order** screen,

- The Spares drop down value will be allowed to be changed from “No” to “Yes” depending on the option set if main cores are not received against the Repair Order. Also, a notification message will be provided to the user if the ‘Spares’ is set as “Yes” to provide Spare Part details in the **Edit Terms and Conditions** screen.
- The Spares combo modification from “Yes” to “No” will be permitted only if the RO status is Draft or Fresh.

In the **Edit Terms and Conditions** screen,

- The ‘Spares Shipped’ combo will be enabled irrespective of Repair Order status. Also the combo is changed as a UI Combo.
    - If this combo is modified from “No” to “Yes” for a RO in status other than Draft or Fresh, it will be ensured that there are no receipts recorded for the main core part and that the option ‘Allow shipment of Spares until receipt of Main Core Parts’ is set as “Yes” in the **Logistics Common Master** business component.
    - If the ‘Spares Shipped’ combo is selected as “Yes”, then the following combos will be loaded.
        - ‘Ship Spares by’ in the Repair Order details section.
        - ‘Spares Return’, ‘Return Spares by’, ‘Shipping Payment’ and ‘Packaging Code’ in the ‘Inbound Shipment and GTA Details’ tab.
- The columns ‘Warehouse #’ in the ‘Spares Shipped’ tab is renamed as ‘From Warehouse #’ and ‘Return Warehouse #’
- A new column ‘Released for Shipping?’ is added in the ‘Spares Shipped’ tab
    - This column will display “Yes”, if the Spare part is already released for shipping and “No”, otherwise.
- On click of ‘Edit Terms and Conditions’ button, a notification will be provided to the user to release the repair order for shipping, if additional spare parts are added or spares are identified for the first time.
- If a Spare part is removed, then it will be ensured that there exists no stock issue for that Spare Part.
- Upon Release for Shipping, automatic Stock Issue for additional / new Spare Parts will be generated.

Exhibit IX: Identifies the changes in **Edit Terms and Conditions** screen



In the **Authorize Repair Order** screen, validation is added to restrict authorization of RO when the identified spare parts are not released for shipment.

Note:

✓ *Additional spare parts or new spare parts can be added through Edit RO route or during recording of Quotation or Amendment of RO Quotes using the Edit Terms and Conditions link.*

Ability to Record and Account Exchange Cost for a Piece Part Repair Order separately from the Repair Cost

Reference: AHBF-156

Background

Though Repair Order process supports 'Flat Exchange' and 'Exchange with Repair', Exchange Fee and Repair Cost can distinctly be provided only if the Shop Job Type is "Component". Similar feature needs to be supported for "Piece Part" Repair Order. Secondly, system should have a provision to account Exchange Fee and Repair Cost to different accounts. Currently, Exchange Fee and Repair Cost could be accounted to only one account.

Change Details

In order to facilitate entry of Exchange Fee and Repair Cost separately for Piece Part Repair Orders following changes are done.

In the **Record Quotes** screen,

- The “Total Cost” column in the Maint. Object Details multiline has been renamed as “Repair Cost”
- A new Editable column “Exchange Cost” is added next to the “Repair Cost” column
- The “Exchange Fee” field available in the Quotation Details section is removed

In the **Amend Quotes** screen,

- The “Total Cost” column in the Maint. Object Details multiline has been renamed as “Repair Cost”
- A new Editable column “Exchange Cost” is added next to the “Repair Cost” column in the Maint. Object Details multiline
- A new Display Only column “Invoiced?” is added next to the “Stock Status” column in the Maint. Object Details multiline
- The “Exchange Fee” field available in the Quotation Details section is removed

In the **View Quotes** screen,

- The “Total Cost” column in the Maint. Object Details multiline has been renamed as “Repair Cost”
- A new Display Only column “Exchange Cost” is added next to the “Repair Cost” column in the Maint. Object Details multiline
- A new Display Only column “Invoiced?” is added next to the “Stock Status” column in the Maint. Object Details multiline
- The “Exchange Fee” field available in the Quotation Details section is removed

Based on the RO Type and Exchange Type, system will appropriately enforce or restrict entry of Exchange Fee and / or Repair Cost.

Account Rule Definition

- Consumption Account Definition for Repair Order Event has been enhanced with option to capture Repair Cost and Exchange Cost under separate Account codes.

- Exchange Cost can be selected only for the events Repair Order and Repair Order for Non-Component. (Refer exhibit: III)

Repair Receipt / RO Accounting

Repair Receipt and RO Amendment Accounting has been enhanced to record the accounting as below,

- Repair Cost, BER Cost and Salvage Value will be accounted in the account code defined for the entity "Ext. Repair – Repair Cost"
- Exchange Cost will be accounted for the Account Code defined for the entity "Ext. Repair – Exchange Cost"

Ability to Amend Repair Cost post Invoicing

Reference: AHBF-156

Background

In the normal course of repair exchange, Exchange Fee quoted by the Repair Agency is recorded in the RO. Exchange Fee is invoiced and paid to the Repair Agency, post receipt of Exchange unit. It happens that, at a much later time, Repair Agency sends an invoice for Repair Cost of the unserviceable unit that was exchanged. Currently, there is no provision to amend the RO to record the Repair Cost. Also, to facilitate payment for Repair Cost a direct invoice needs to be processed which will not have Repair Order reference. Business need is to facilitate amendment of a Repair Order to allow recording of Repair Cost and facilitate payment through Order based Invoice.

Change Details

In the **Amend Quotes** screen, a string of cost elements that is already invoiced will be displayed under the "Invoiced?" column. For Example, if Invoice is raised for Repair Cost and Exchange Cost, the "Invoiced?" field will display "Repair Cost **|** Exchange Cost".

Following option settings have been added under the Category "Repair Order" in the **Purchase Option Settings** screen.

- Allow Cost Amendment of Invoiced RO.
    - If the option is set as 'Allowed', then the Cost Entity that is not yet Invoiced (as identified from the "Invoiced?" string) can be amended in the Amend Quotes screen.
    - If it is set as 'Not Allowed', then the any Cost Entity cannot be amended, if at least one of the Cost Entities is invoiced.

- Enforce additional Security for Cost Amendment of Invoiced RO
    - If the option is set as 'Allowed', then the Amendment of the Cost Entity that is not yet Invoiced shall be allowed only if the Role of the Login User has access to the "**Manage Cost Amendment of Invoiced RO"** activity.
    - If the option is set as 'Not Allowed', then the Amendment of the Cost Entity that is not yet invoiced will be allowed to all the Roles having access to Amend Quotes activity.

Note:

- ✓ *A new activity "**Manage Cost Amendment of Invoiced RO"** has been added under the Repair Order business component to configure specific roles who could amend a Cost Element on an already invoiced Repair Order.*

Exhibit-X: Identifies the changes in the **Record Quotes** screen

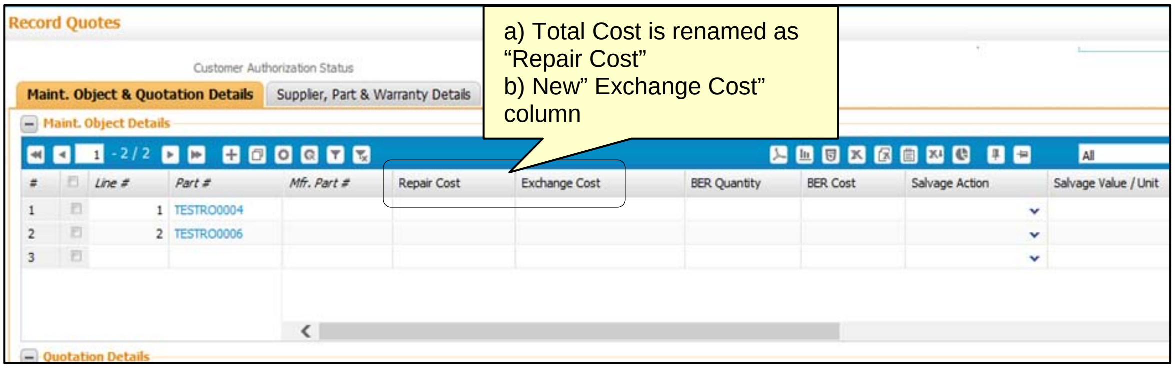


Exhibit-XI: Identifies the changes in the **Amend Quotes** screen

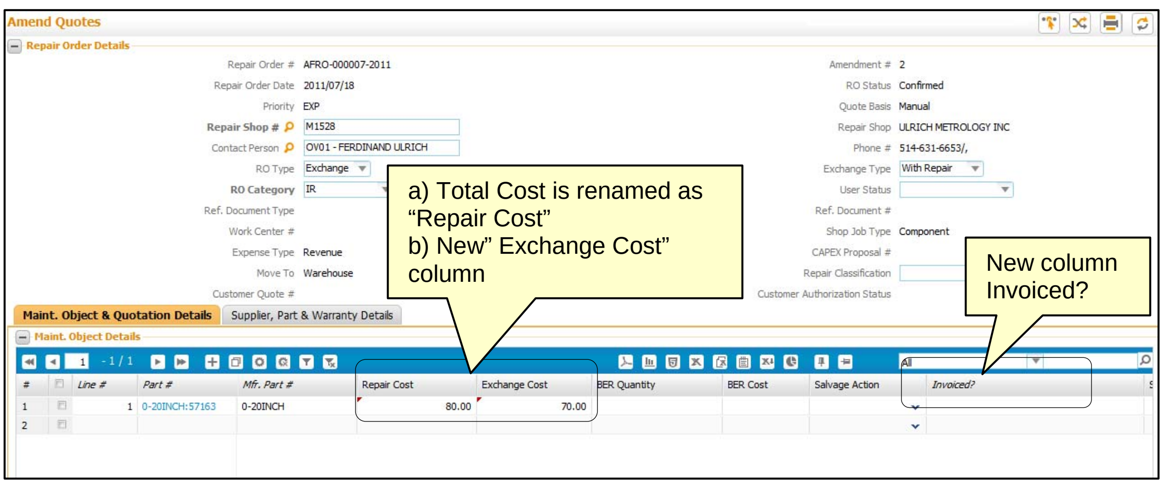
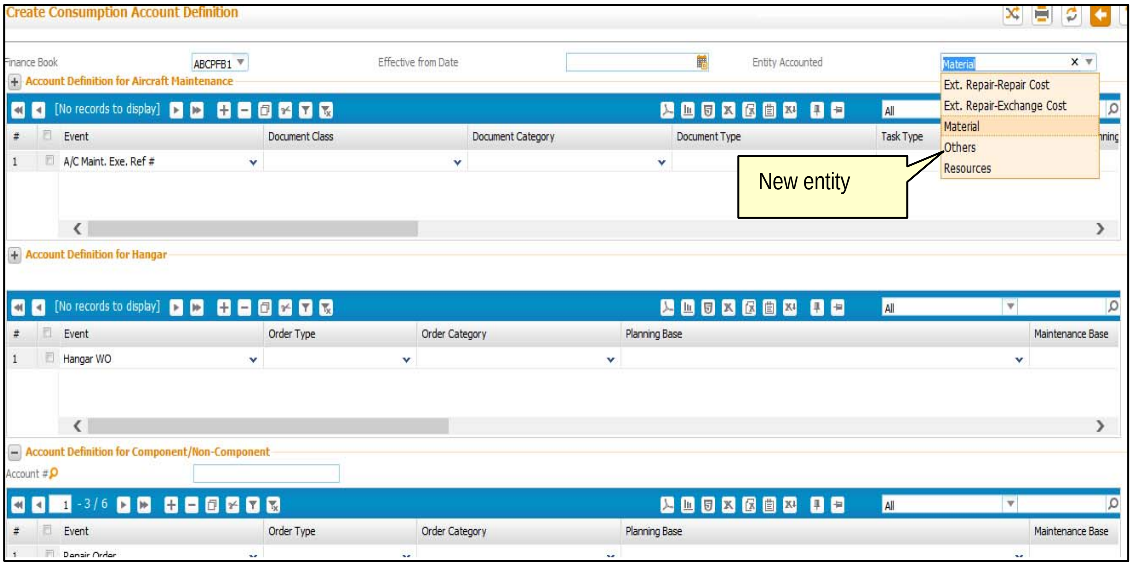


Exhibit-XII: Consumption Account Definition for Repair cost and Exchange Cost.



Ability to View Repair Cost History and Manage Repair Shop Correspondence

Reference: AHBF-156

Background

Link to **View Repair Cost History** screen needs to be provided from View Repair Order screen.

Also, link to Maintain Repair Shop Correspondence screen needs to be provided from the following screens,

- Edit Repair Order
- Amend Quotes
- View Repair Order

Change Details

In the **Edit Repair Order** screen, a link to launch the **Manage Repair Shop Correspondence** screen is provided.

In the Amend Quotes screen, a link to launch the Manage Repair Shop Correspondence screen is provided.

In the **View Repair Order** screen, the following links are provided,

- View Repair Cost History
- Manage Repair Shop Correspondence

Exhibit-XIII: Identifies the changes in the **Edit Repair Order** screen

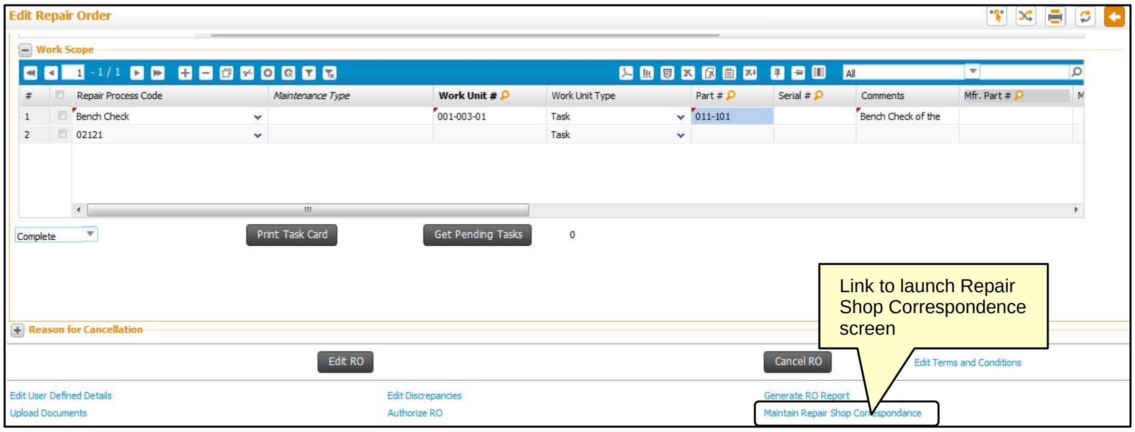


Exhibit-XIV: Identifies the changes in the **Amend Quotes** screen

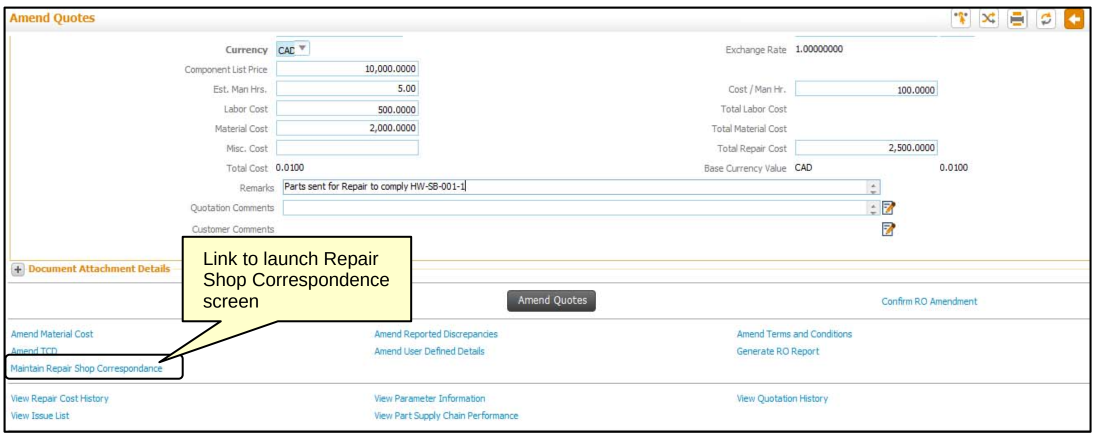
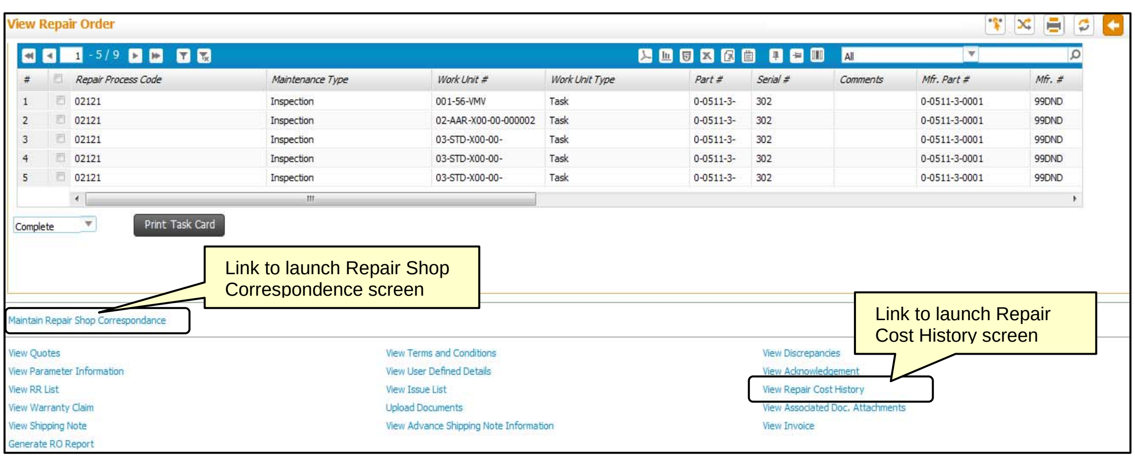


Exhibit-XV: Identifies the changes in the **View Repair Order** screen



WHAT'S NEW IN GOODS INWARD?

Ability to Reverse the Confirmation of a Receipt / Inspection

Reference: AHBF-368

Background

Goods Inward is a three stage process.

- Receiving
- Inspection
- Movement / Binning of Goods

In the Receiving sub-process Goods Receipt is created by providing Part / Serial – Lot details. Once the receipt is confirmed the parts are available for inspection. Once the parts are inspected and accepted, it is binned in the respective storage area in the receiving warehouse.

Currently, if any erroneous data entry is made during the Receiving or Inspection process, there is no means to correct it if Receiving or Inspection is confirmed respectively. This reduces the efficiency in the Goods Inward process. Business Requirement is to have an ability to Reverse the Confirmation of a Receipt and/or Inspection, to correct the receipt details.

Change Details

New options have been introduced in the **Set Inventory Process Parameters** screen under the category 'Goods Inward' to allow the Reversal of Confirmation of a Receipt and/or Inspection.

- Allow reversal of Receipt
- Allow reversal of Inspection

In the **Manage Goods Receipt** screen, a button 'Reverse Receipt' is added to support reversal of confirmation of a Receipt. In **Inspect Parts** screen, a button 'Reverse Inspection' is added to support reversal of confirmation of Inspection of a Receipt.

Reversal of Receipt is supported at Part Level, whereas Reversal of Inspection is supported at Part – Serial / Lot level.

When the Reverse Receipt button is clicked, the following will be made;

- Validation to ensure that the option 'Allow Reversal of Receipt' is set as 'Yes'
- Validation to ensure that the Part for which receipt is reversed is not Inspected or Moved to stock
- Reversal Instance will be generated and the Receipt details during reversal will be saved

- The Status of the Received Parts will be reverted back to 'Pending Receipt Confirmation' and based on the reversal of Part status, if all the Parts attain the status 'Pending Receipt Confirmation', the Receipt document will attain 'Pending Receipt Confirmation' status.
- The other updates made during the Confirmation of Receipt in the Vendor Rating, Reference Document (i.e.) Purchase Order or Repair Order or Customer Order, Modification made in the Issued Component when a Repair Receipt is made will be reverted.

When the Reverse Inspection button is clicked, the following will be made;

- Validation to ensure that the option 'Allow Reversal of Inspection' is set as 'Yes'
- Validation to ensure that the Part for which Inspection is reversed is not moved to stock
- Validation to ensure that the Part for which Inspection is reversed is not Invoiced or Capitalized
- Validation to ensure that the Parts received against document having a Customer Order reference is not reversed
- Validation to ensure that the Reference Document is not under the process of amendment
- Reversal Instance will be generated and the Receipt Details during reversal will be saved
- The Status of the Received Parts will be reverted back to 'Received Pending Inspection' and the document status will be managed as per the status of all the Received Parts
- The finance postings made for the accepted Qty in the receipt will be reversed
- Apart from the above, following update made during the Confirmation of Inspection will be reversed; Vendor Rating Update, Ref. Document Status Update, Reversal of Compliance if system had automatically updated compliance based on the option. However, PV update and Configuration build etc. done by the inspector will not be reversed and it needs to be manually corrected as required/applicable.

Accounting Impact

Reverse Receipt

- The finance postings if posted for the received Qty during Confirm Receipt for the line will be reversed.
  - For E.g.
    Supplier Suspense Pending Inspection a/c Dr
    Purchase Cost/Repair Cost a/c Cr

Reverse Inspection

- The finance postings posted for the accepted Qty during Confirm Inspection for the receipt line will be reversed.
  - For E.g.
    Supplier Suspense a/c Dr
    Purchase Cost/Repair Cost a/c Cr
- Reversal of Inspection will not be allowed once the part is invoiced, even though the Invoice is in Fresh Status.
- Reversal of Inspection will not be allowed once the Goods Inward document is capitalized, even though the Capitalization Voucher is in Fresh Status.
- View Account Balance break-up info will be reversed for the transit accounts (e.g. exchange Suspense, Stock Suspense, Supplier Suspense etc.,)

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

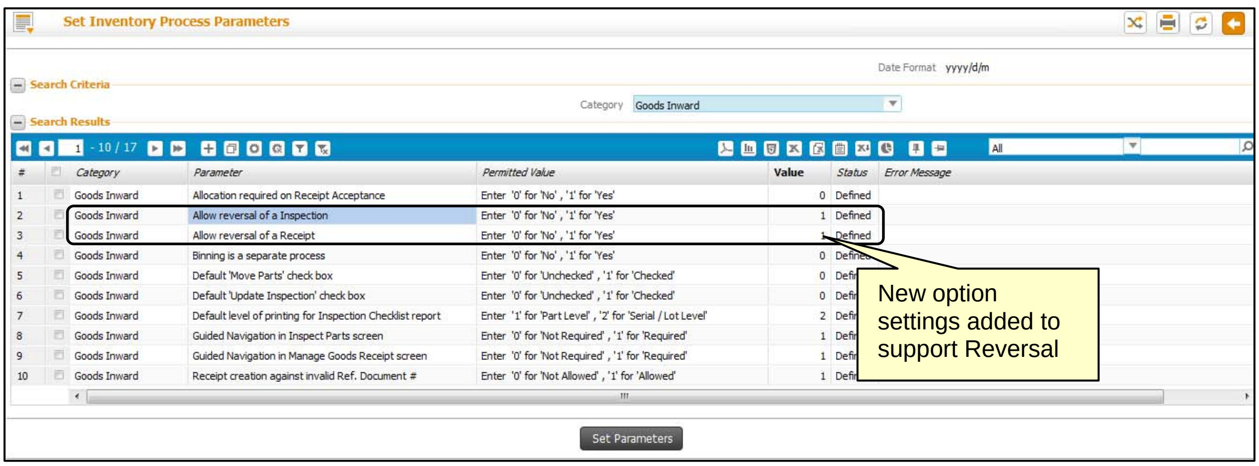


Exhibit XVII: Identifies the Reverse Receipt button in the **Manage Goods Receipt** screen

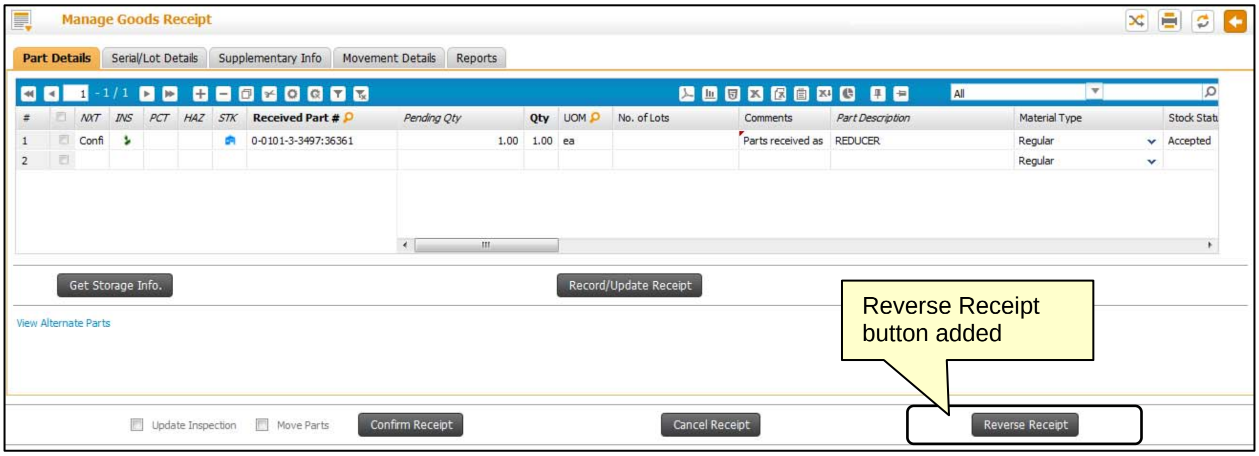
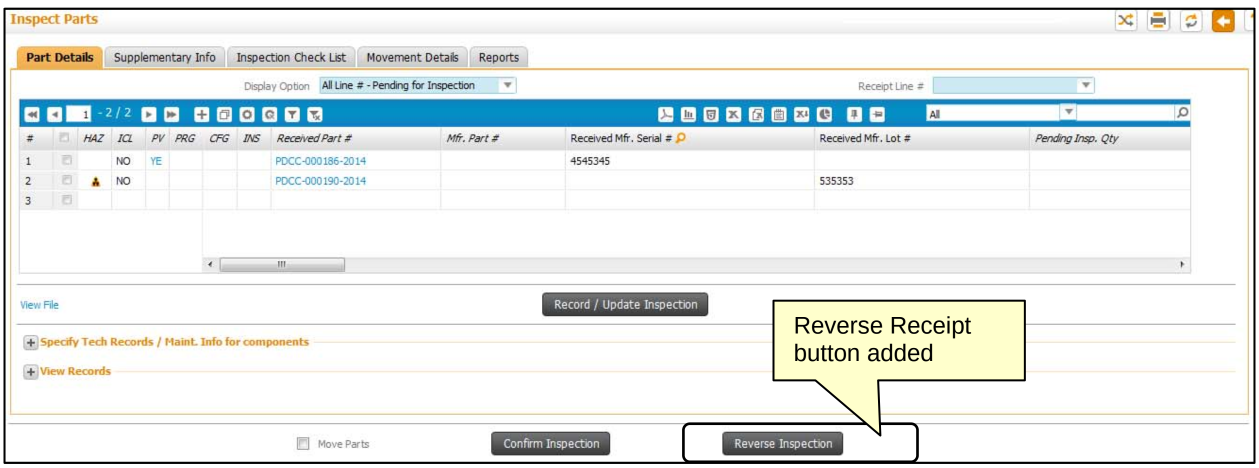


Exhibit XVIII: Identifies the Reverse Inspection button in the **Inspect Parts** screen



Ability to print MMD Report for received Parts

Reference: AHBF-809

Background

In order to facilitate Warehouse Personnel to move the parts received to the right Zone / Bin in the Warehouse, Material Movement Document (MMD) is required.

Change Details

In the Reports tab of **Manage Goods Receipt** screen and **Inspect Parts** screen following changes are done to facilitate printing of MMD report for the parts received.

- In the Display Option drop down a new value “MMD Report” is loaded.
- A new link “Generate MMD Report” is provided.

Once the Display Option is selected as “MMD Report”, all the parts in the receipt that are Moved with Movement Type “Binning” will be listed. As the case with few Operators/MRO, where Binning is configured as a separate step in the receiving process, those parts for which Movement is initiated will be listed. From the Reports tab, User can select specific records and print MMD using the link “Generate MMD Report”. If it needs to be printed with all the eligible parts then it is not required to select specific records in the multiline. Depending on the Warehouse(s) to which the received parts are moved, one or multiple MMD reports will get generated.

In addition to the above changes, a new link “Generate MMD Report” is also provided in the **Bin Parts** screen to facilitate MMD printing where Binning is configured as a separate step in the receiving process. In the Bin Parts screen, user always needs to select the record(s) for printing MMD from the multiline. When MMD is launched from Bin Parts screen, system will generate one or multiple reports based on Receipt # and Warehouse # grouping.

Exhibit XIX: Identifies the changes in Reports tab in **Manage Goods Receipt** screen

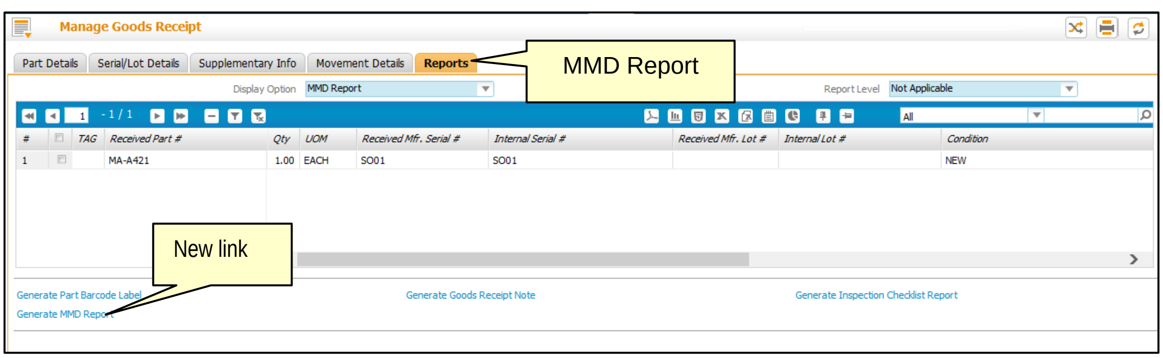
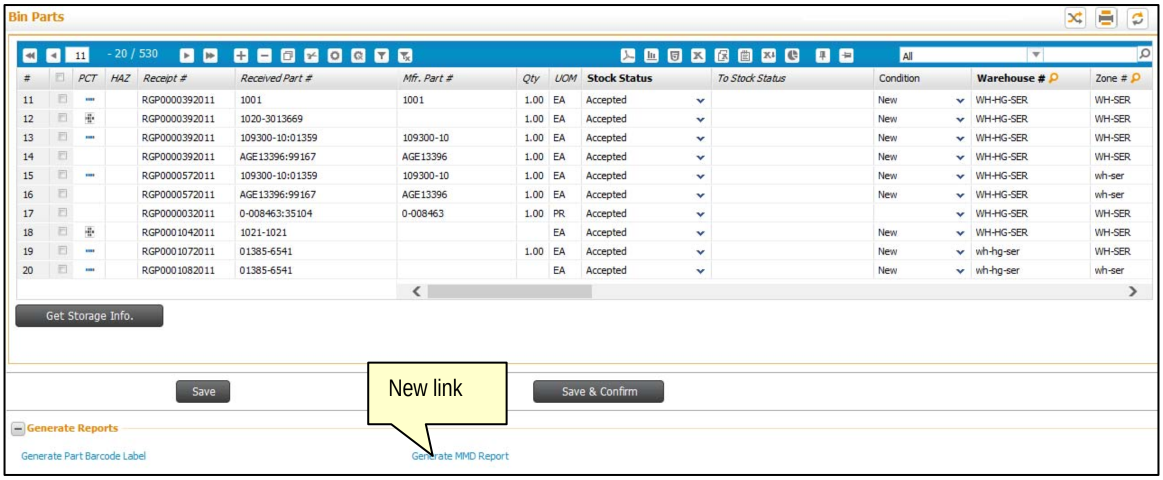


Exhibit XX: Identifies the changes in **Bin Parts** screen



Ability to restrict overriding Shelf Life check during receipt

Reference: AHBF-3681

Background

In an AOG or Work Stoppage situation for want of parts, it doesn't matter if the parts received do not meet the minimum shelf life requirement of the organization, as the parts will be issued for maintenance of Aircraft or Component and will rarely be moved to the shelf. In the earlier versions, prior to the release of the feature to override shelf life check, system will enforce those parts that do not meet the minimum shelf life requirement to be quarantined and rejected.

As different business scenarios evolve with different customers, the facility to override shelf life check was provided in Goods Inward where the person who receives the parts and / or Inspector who does the inspection can choose to override shelf life check as required depending on the business situation.

However, few Organizations wants stringent system control towards meeting the minimum shelf life requirement and expect system to restrict overriding shelf life check during receipt, which is addressed as part of this feature.

Change Details

A new set option "Override Minimum Shelf Life Check during Receipt" is added under the category "Goods Inward" in the **Set Inventory Process Parameters** screen of the **Logistics Common Master** business component. The option can set as "Allowed" or "Not Allowed".

In the Serial / Lot Details tab of **Manage Goods Receipt** screen and Part Details tab of **Inspect Parts** screen, based on the value set for the option "Override Minimum Shelf Life Check during Receipt" following changes are handled.

If the option is set as,

- **Not Allowed**: In the drop down column "Shelf Life Check?" the value "Override" will not be loaded. It will be defaulted with the value "Enforce" for Shelf Life parts. Since the value "Override" is not loaded it will not be possible to override shelf life check during the receiving process.

- **Allowed**: Existing system behavior would continue i.e., the drop down column "Shelf Life Check?" will be loaded with both "Override" and "Enforce". The option to override shelf life check will be available with the receiver / inspector.

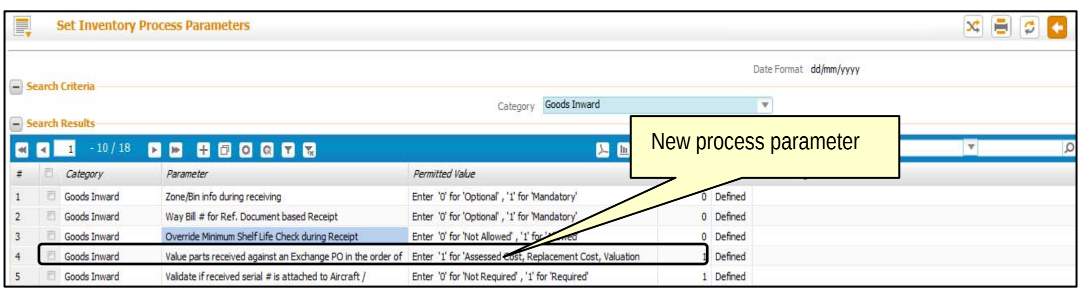
Note:

✓ *There will not be any impact on existing receipts that are in-progress which has a saved value for "Shelf Life Check?" field. The change will be applicable only for new receipts that will be created after introduction of this feature with appropriate option set.*

✓ *If the option is not set, system will consider it as "Allowed" by default.*

✓ *When "Shelf Life Check?" is chosen as "Override" and if the part does not have a remaining shelf life, then, system will enforce the condition to be chosen as "Unserviceable".*

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



Minor enhancements in Goods Inward

Reference: AHBF-78, AHBF-1682

Background

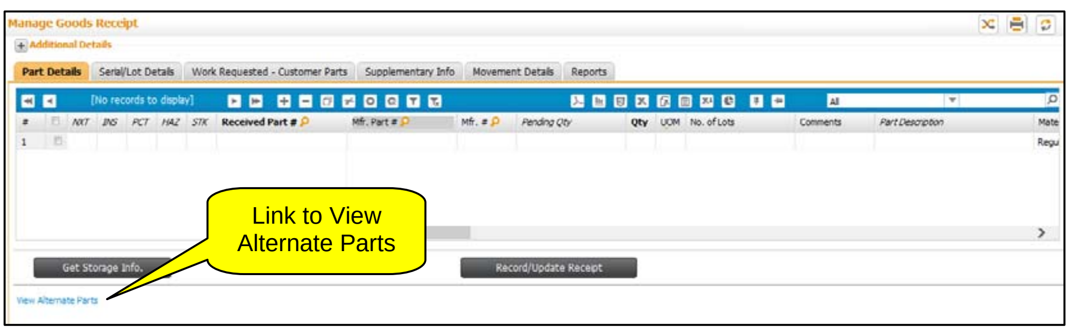
Following minor enhancements requested by various customers are addressed in Goods Inward business component.

- To provide a link to View Alternate Part Numbers
- To provide an easy access to links in Manage Goods Receipt screen by displaying them instead of keeping collapsed on screen launch
- To automatically default ordered part condition
- To display Eng. Doc. Applicability for the received Components
- To allow partial entry of Serial / Lot information and to support entry of additional Lot #
- To automatically default the Qty when there is only one Lot #
- To configure if it's required to mandate Parameter Value update if Compliance update has reset the Parameter Values

Change Details

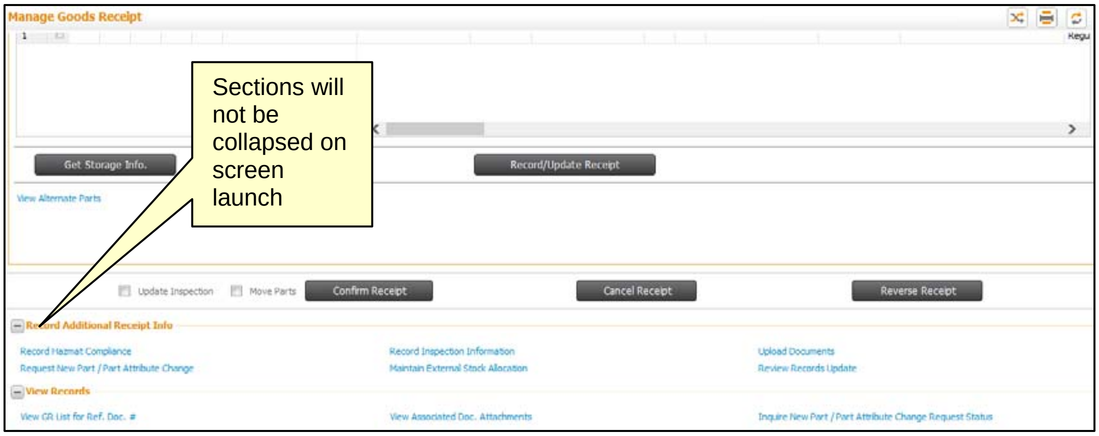
A new link "View Alternate Parts" is added in the part details tab of the Manage Goods Receipt Screen. This link can be accessed to view the alternate parts for an ordered part.

Exhibit XXII: Identifies the link added in the **Manage Goods Receipt** screen



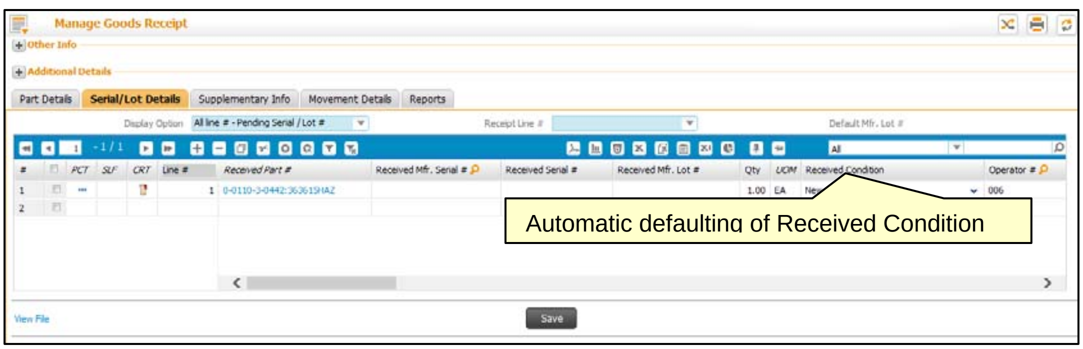
On launch of **Manage Goods Receipt** screen, sections 'Record Additional Receipt Info' and 'View Records' will default be expanded and displayed. In a similar way, on launch of **Inspect Parts** screen, the sections 'Record Additional Receipt Info' and 'View Documents' sections will be expanded and displayed.

Exhibit XXIII: Identifies the sections that will be expanded by default in **Manage Goods Receipt** screen



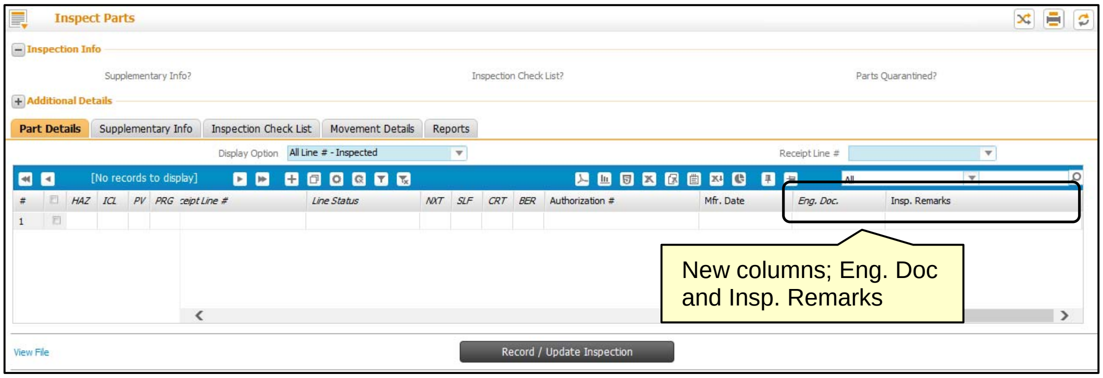
Whenever a Purchase Order or Release Slip based Receipt is recorded for a Serial / Lot controlled Part, Received Condition in the Serial / Lot Details tab of the **Manage Goods Receipt** screen will be automatically defaulted. In order to configure the behavior change a new set option 'Default Part Condition from Purchase Order/Release Slip during Receipt' has been introduced in the **Set Inventory Process Parameters** activity under **Logistics Common Master** business component. The option can be set as; Yes or No. The option needs to be set as "Yes" to default ordered part condition during receiving.

Exhibit XXIV: Identifies that Received Condition can be configured to be automatically defaulted in the Serial / Lot Details tab of **Manage Goods Receipt** screen



In order to display applicability of Eng. Docs for the Components under Inspection, in the **Inspect Parts** screen a new column 'Eng. Doc' has been added. Secondly, a new field 'Insp. Remarks' has been provided for the inspector to specify any remarks/observations during Inspection against respective Serial / Lots.

Exhibit XXV: Identifies the new columns added in **Inspect Parts** screen



Following change are made in Serial / Lot details tab in order to support partial entry of Serial / Lot information,

- **New column 'Line #'** has been provided in the multiline with an 'Enter Key' feature. User can enter Receipt Line # in a new row and press Enter key to retrieve the part details. This feature could be used to enter multiple Lot # matching the actual receipt without requiring changing the No. of Lots in Part Details tab.
- Existing validations that enforce entry of Serial / Lot details for all the quantities received will be relaxed. System will enforce user to enter the details only if any of the other fields in the **Serial / Lot Details** tab is entered. For example, if 10 Serial #s are received for a Part, user can enter five Serial # and related information and could still save the details against the receipt. At a later point in time remaining five Serial #s and its related information can be entered.
- In the **Serial / Lot Details** tab, when there is only Lot # received, system will automatically default the Lot Qty. It is no more required to manually enter the Lot Qty when it is one Lot. But if there are multiple Lots user need to manually enter the Qty against each Lot.

New options have been added in **Set Inventory Process Parameters** screen under the mentioned category to have the updation of Parameter Values for the Components received in Goods Inward, optional when Compliance update has reset the Parameter Values.

- Category: Goods Inward – Regular Purchase
  - Parameter: Mandate Parameter Value update post Compliance based Reset?
- Category: Goods Inward – Customer Goods Receipt
  - Parameter: Mandate Parameter Value update post Compliance based Reset?

- Category: Goods Inward – Repair Receipt
- Parameters:
    - Mandate Parameter Value update post Compliance based Reset?
    - Validate Parameter Value Entry for Normal Repairs, on Confirm Inspection

In the **Inspect Parts** screen of the Goods Inward business component, the validation enforcing the Parameter Value update will not be happening if Compliance update has reset the Parameter Value, provided the new option “Mandate Parameter Value update post Compliance based Reset?” is set as ‘No’ for the corresponding Receipt Type.

In addition, if the Receipt Type is ‘Repair Receipt’ and if the Received component is the same issued component or a modified component, then Parameter value entry will be mandatory, if alone ‘Validate Parameter Value Entry for Normal Repairs, on Confirm Inspection’ is set as ‘Required’.

WHAT'S NEW IN STOCK ISSUE?

Ability to automatically confirm General, Maintenance and Repair Order Issues

Reference: AHBF-1689

Background

Straight through processing initiative in Ramco Aviation Solution has been a hit with Customers. In the previous releases, automatic confirmation of Stock Transfer Issue and automatic processing of Repair Orders were facilitated. As part this enhancement, process automation framework has been extended to automatically confirm General, Maintenance and Repair Order issues.

With the introduction of this feature, it is no more required to confirm General, Maintenance and Repair Order issues, manually.

Change Details

In the **Set Warehouse Process Parameters** activity under **Storage Administration** business components, following warehouse level options are provided. These options typically depict the different scenario through which an Issue document could be automatically created. It facilitates to configure the different business scenario where the Issue document could be automatically confirmed.

- Confirmation of General Issue generated during Authorization of Material Request.
- Confirmation of General Issue generated during Receipt pegging to an Open MR.
- Confirmation of Maintenance Issue generated during Authorization of Material Request.
- Confirmation of Maintenance Issue generated during Receipt pegging to an Open MR.
- Confirmation of Repair Order Issue generated during Release of Repair Order for shipping.

These options can be set as "Manual" or "Automatic" as required for each warehouse.

Currently, in all of the above scenarios that are provided as configurable options, system automatically generates the Issue document in "Fresh" status leaving the confirmation step with the User. In a medium to large size operations, the no. of Issue documents generated on a given day in a main warehouse will be voluminous, requiring the warehouse clerk to spend much of his/her time with the system confirming the documents, manually. In a small scale operation or a field base that are typically managed by one person, though the no. of issue documents will be less, challenges will be different as one person needs to manage entire inventory operations.

If the option is set as “Automatic”, system will automatically confirm the issue documents generated in the respective scenarios. For example, if the option “Confirmation of Maintenance Issue generated during Authorization of Material Request” is set as “Automatic” for a particular Warehouse, then, whenever a Maintenance MR is processed requesting for parts from the Warehouse, system automatically generates and confirms the Maintenance Issue document. In a similar way, if the option "Confirmation of Repair Order Issue generated during Release of Repair Order for shipping” is set as “Automatic” for a Warehouse, then, upon release of Repair Order for shipping the parts either manually or automatically, system generates and confirms the Repair Order Issue document.

In all the above scenarios, if option is set as “Manual” for a Warehouse, Issue document will be generated in “Fresh” status i.e., existing behavior, and user need to manually confirm them.

Note:

- ✓ *If the option is not set for a Warehouse, system will consider it as “Manual” by default.*

In order to facilitate configuration of MMD printing in all the above mentioned scenarios, following new options are provided under the Category “Stock Management Reports” in the **Set Inventory Process Parameters** activity under the **Logistics Common Master** business component.

- Print MMD for General Issue generated in Confirmed status during Authorization of MR.
- Print MMD for General Issue generated in Confirmed status during Receipt pegging to and open MR.
- Print MMD for Maintenance Issue generated in Confirmed status during Authorization of MR.
- Print MMD for Maintenance Issue generated in Confirmed status during Receipt pegging to and open MR.
- Print MMD for Repair Order Issue generated in Confirmed status upon Release of Repair Order for shipping

These options can be set as “Required” or “Not required”.

If the option is set as ‘Required’, then, Material Movement Document (MMD) will get printed for issues generated in “Confirmed” status. If the option is set as “Not Required”, MMD will not be printed for Issue documents generated in “Confirmed” status.

Note:

- ✓ *If the option is not set, system will consider it as “Not Required” by default.*

Exhibit-XXVI: Identifies the options added in **Set Warehouse Process Parameters** screen

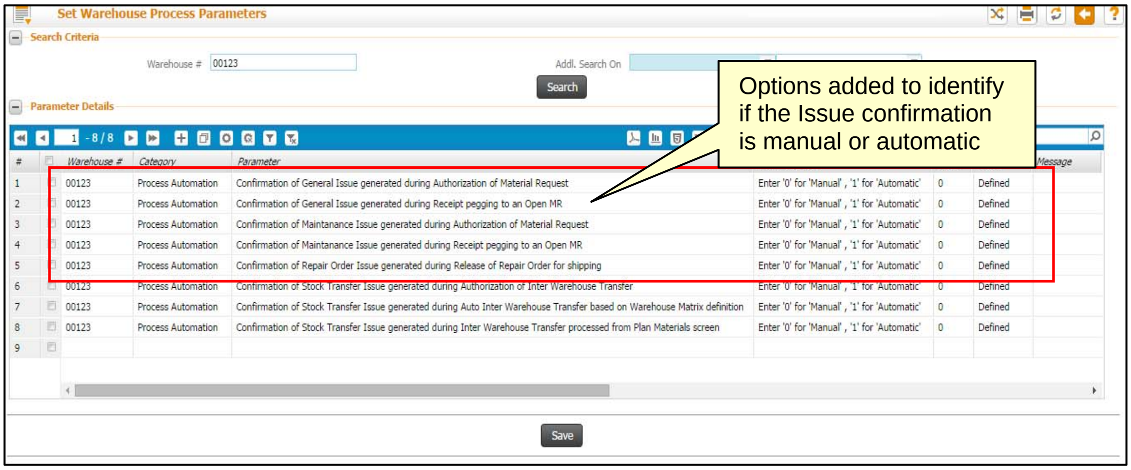
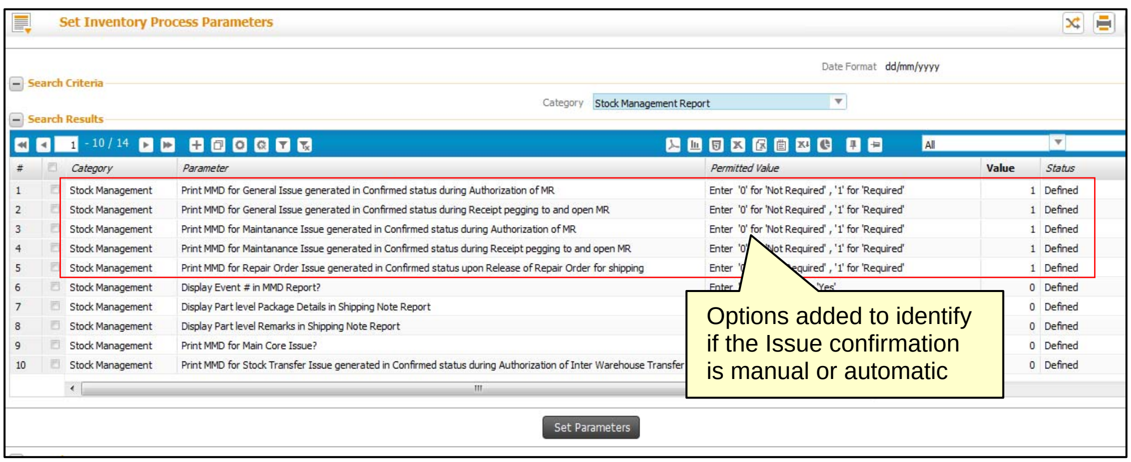


Exhibit-XXVII: Identifies the options added in **Set Inventory Process Parameters** screen



Ability to search Issue Documents based on Aircraft Maint. Exe. Ref. # / SWO # and Task

Reference: AHBF-1777

Background

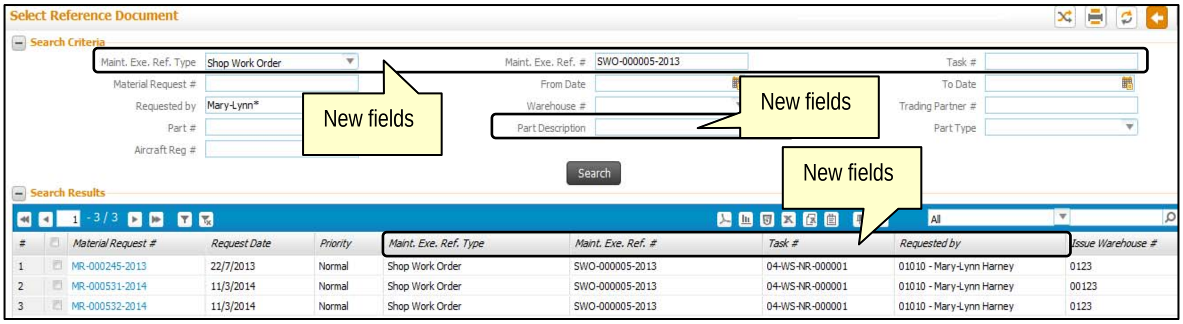
During Aircraft / Component maintenance one or several Material Requests will be raised to communicate the need for parts to perform the maintenance activities. MR could also be automatically raised for the parts associated with a task. Also, particularly in Line Maintenance Operations, Maintenance Supervisor / Mechanic would manually raise an MR. After raising MR, whenever parts are required Mechanic walks to the Warehouse to collect the parts. Warehouse Clerk could quickly issue the parts if the MR # is provided by the Mechanic. At times, Mechanic would not note the MR # but could provide the Work Order # and / or Task # for which parts are required. Business need is to facilitate Warehouse Clerk to search issue documents raised against an Aircraft Maint. Exe. Ref. # or Shop Work Order # (SWO) or a specific Task #.

Change Details

The **Select Reference Document** screen in the **Create Maintenance Issue** activity under the **Stock Issue** business component has been enhanced as follows,

- In the Search Criteria section
  - The field 'Ref. Document Type' is renamed as 'Maint. Exe. Ref. Type' and following values will be loaded in the drop down; A/C Maint. Exe. Ref. # and Shop Work Order
  - The field 'Ref. Document #' is renamed as 'Maint. Exe. Ref. #''
  - New fields 'Task #', 'Material Request #', 'Requested by' and 'Part Description' are added
- In the Search Results multiline,
  - The column 'Ref. Document # is renamed as 'Material Request #'
  - The column 'Ref. Document Type' is renamed as 'Maint. Exe. Ref. Type'
  - New columns 'Maint. Exe. Ref. #', 'Task #' and 'Requested by' are added
- Search Logic based on different fields
  - Search based on Maint Exe. Ref. # will retrieve MR corresponding to the AME / SWO reference provided.
  - Search based on 'Requested by' will retrieve MR raised by the given Employee Code or Employee Name.
  - Search based on the Task # and/or Part Description will retrieve the MR raised for the given Task # having the Parts with the given Part Description.
  - In the Search Results, the 'Requested by' will display the concatenation of the 'Requested by Employee Code and Employee Name'. For example, '00198 – Anderson, James'.

Exhibit XXVIII: Identifies the changes made in the **Select Reference Document** screen of **Create Maintenance Issue** activity



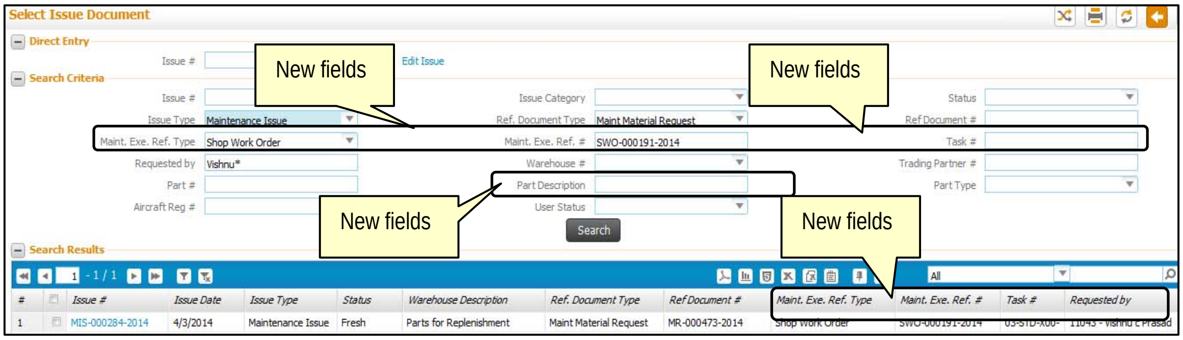
In the **Select Issue Document** screen in **Edit Issue** activity under the **Stock Issue** component following changes are made.

- In the Search Criteria section
  - o A new combo control 'Maint. Exe. Ref. Type' is added and this will be loaded with the values based on the Issue Type selected
    - If Issue Type is selected as 'Maintenance Issue' or 'Repair Order Issue' or 'Stock Transfer Issue', then the values loaded will be 'A/C Maint. Exe. Ref. #' and 'Shop Work Order'.
    - If Issue Type is selected as 'General Issue', the values loaded will be 'A/C Maint. Exe. Ref. #'.
    - For all other Issue Types, the drop down will not be loaded
  - o New controls 'Maint. Exe. Ref. #', 'Task #', 'Requested by' and 'Part Description' are added

- In the Search Results multiline
  - o New columns 'Maint. Exe. Ref. Type', 'Maint. Exe. Ref. #', 'Task #' and 'Requested by' are added

- Search Logic based on different fields
  - o Search based on Maint Exe. Ref. # will retrieve Issues created against documents like Material Request, Repair Order, Stock Transfer (with MR reference), with the corresponding AME / SWO reference.
  - o Search based on 'Requested by' will retrieve Issues generated against the documents raised by the given 'Employee Code' or 'Employee Name'
  - o Search based on the Task # and/or Part Description will retrieve issues raised for a document having the given Task # or having the Parts with the given Part Description
  - o In the Search Results, the 'Requested by' will display the concatenation of the 'Requested by Employee Code and Employee Name'. For example, '00198 – Anderson, James' and the other fields will display the respective information

Exhibit XXIX: Identifies the changes made in the **Select Issue Document** screen of **Edit Issue** activity



In the **Confirm Issue** screen under the **Stock Issue** component following changes are made.

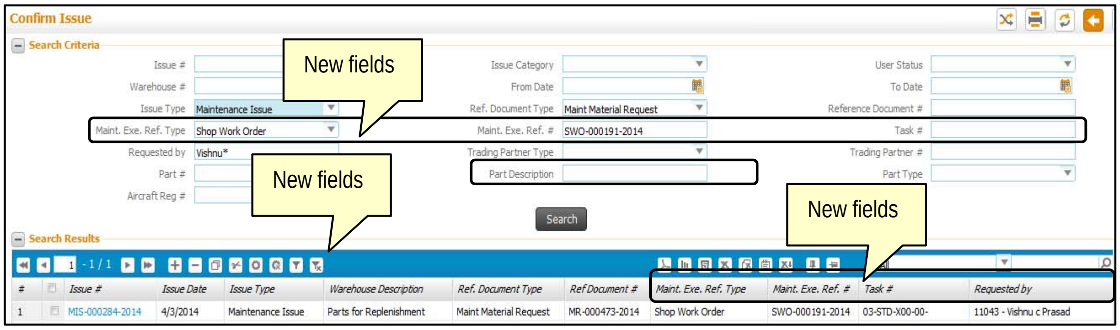
- In the Search Criteria section
  - A new combo control ‘Maint. Exe. Ref. Type’ is added and this will be loaded with the values based on the Issue Type selected
    - If Issue Type is selected as ‘Maintenance Issue’ or ‘Repair Order Issue’ or ‘Stock Transfer Issue’, then the values loaded will be ‘A/C Maint. Exe. Ref. #’ and ‘Shop Work Order’.
    - If Issue Type is selected as ‘General Issue’, the values loaded will be ‘A/C Maint. Exe. Ref. #’.
    - For all other Issue Types, the drop down will not be loaded.
  - New controls ‘Maint. Exe. Ref. #’, ‘Task #’, ‘Requested by’ and ‘Part Description’ are added

- In the Search Results multiline
  - New columns ‘Issue Type’, ‘Maint. Exe. Ref. Type’, ‘Maint. Exe. Ref. #’, ‘Task #’ and ‘Requested by’ are added

- Search Logic based on different fields
  - Search based on Maint Exe. Ref. # will retrieve Issues created against documents like Material Request, Repair Order, Stock Transfer (with MR reference), with the corresponding AME / SWO reference.
  - Search based on ‘Requested by’ will retrieve Issues generated against the documents raised by the given ‘Employee Code’ or ‘Employee Name’
  - Search based on the Task # and/or Part Description will retrieve issues raised for a document having the given Task # or having the Parts with the given Part Description

- In the Search Results, the ‘Requested by’ will display the concatenation of the ‘Requested by Employee Code and Employee Name’. For example, ‘00198 – Anderson, James’ and the other fields will display the respective information.

Exhibit XXX: Identifies the changes made in the **Confirm Issue** screen



In the **Select Issue Document** screen in **View Issue** activity under the **Stock Issue** component following changes are made.

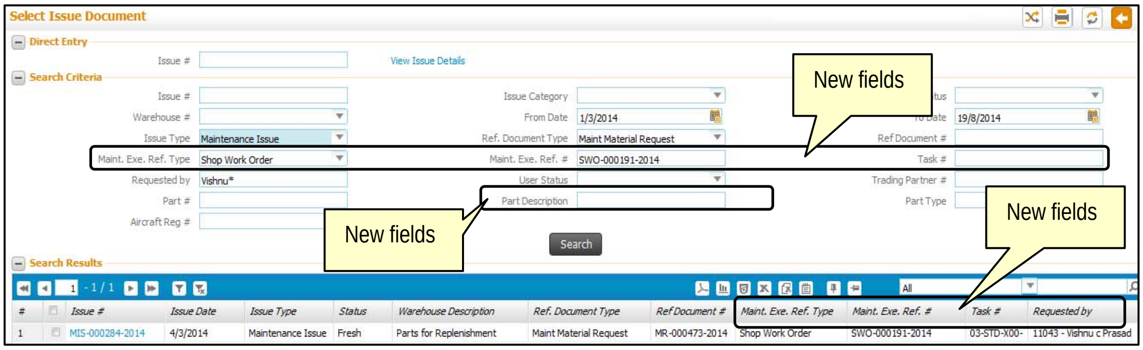
- In the Search Criteria section
  - A new combo control ‘Maint. Exe. Ref. Type’ is added and this will be loaded with the values based on the Issue Type selected
    - If Issue Type is selected as ‘Maintenance Issue’ or ‘Repair Order Issue’ or ‘Stock Transfer Issue’, then the values loaded will be ‘A/C Maint. Exe. Ref. #’, ‘Shop Work Order’ and blank.
    - If Issue Type is selected as ‘General Issue’, the values loaded will be ‘A/C Maint. Exe. Ref. #’.
    - For all other Issue Types the drop down will not be loaded
  - New controls ‘Maint. Exe. Ref. #’, ‘Task #’, ‘Requested by’ and ‘Part Description’ are added

- In the Search Results multiline
  - New columns ‘Maint. Exe. Ref. Type’, ‘Maint. Exe. Ref. #’, ‘Task #’ and ‘Requested by’ are added

- Search Logic based on different fields
  - Search based on Maint Exe. Ref. # will retrieve Issues created against documents like Material Request, Repair Order, Stock Transfer (with MR reference), with the corresponding AME / SWO reference.
  - Search based on ‘Requested by’ will retrieve Issues generated against the documents raised by the given ‘Employee Code’ or ‘Employee Name’
  - Search based on the Task # and/or Part Description will retrieve issues raised for a document having the given Task # or having the Parts with the given Part Description

- In the Search Results, the ‘Requested by’ will display the concatenation of the ‘Requested by Employee Code and Employee Name’. For example, ‘00198 – Anderson, James’ and the other fields will display the respective information

Exhibit XXXI: Identifies the changes made in the **Select Issue Document** screen of the **View Issue** activity



WHAT'S NEW IN SHIPPING NOTE?

Ability to display 'Reason for Rejection' in Shipping Note Report

Reference: AHBF-2507

Background

Parts received from Supplier could be rejected during the receiving process for various reasons like wrong shipment, damaged etc. Whenever parts are rejected, Buyer / QA notify the Supplier. Supplier could request to scarp or return the rejected parts. In most cases, when the parts need to be returned, Supplier provides the RMA No. Shipping Note is processed and the rejected parts are shipped along with the Shipping Note Report.

Business requirement is to display the reason for rejection in the Shipping Note Report, when rejected parts are shipped.

Change Details

A new set option "Display 'Reason for Rejection' in Shipping Note Report" is added under the category "Shipping Note" in the **Set Inventory Process Parameters** screen of the **Logistics Common Master** business component. The option can be set as "Yes" or "No".

In the Shipping Note Report, based on the value set for option "Display 'Reason for Rejection' in Shipping Note Report" following changes are handled.

If the option is set as,

- **Yes**: In Part Details section of the Shipping Note Report, a new field "Reason for Rejection" will be displayed for those shipping note processed to return rejected parts. The reason for rejection of the Part–Serial/Lot will be displayed as a concatenation of Reason Code – Reason Description.

- **No**: The "Reason for Rejection" will not be displayed in the Shipping Note Report.

Note:

- ✓ *If the option is not set, system will consider it as "No" by default.*
- ✓ *In scenario where parts are rejected at the Serial / Lot level but if Shipping Note is processed at the Part Level, reason for rejection will not be displayed though the option is set as "Yes".*

Exhibit XXXII: Identifies the new ‘Reason for Rejection’ field in the Shipping Note report

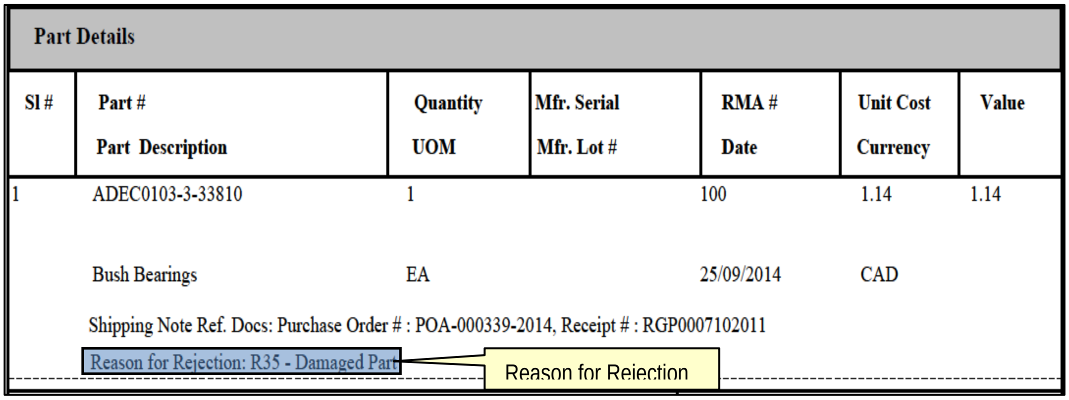
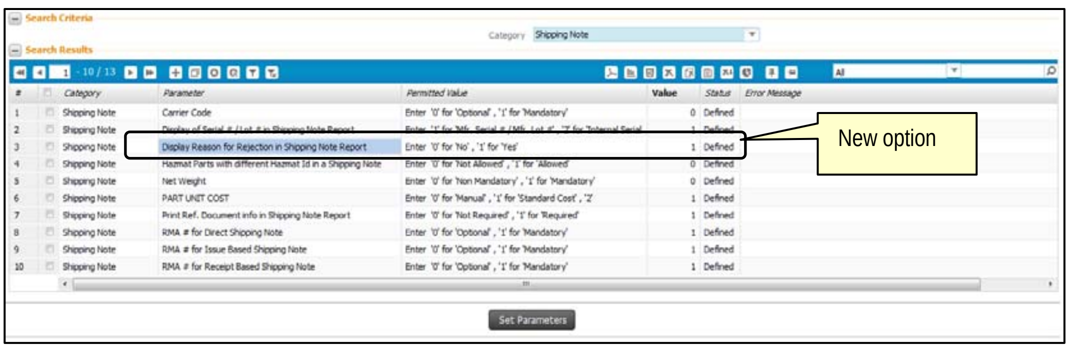


Exhibit XXXIII: Identifies the new option added in **Set Inventory Process Parameters** screen



WHAT'S NEW IN STOCK CONVERSION?

Ability to change Part Condition and Stock Status in Offline Operations

Reference: AHBF-2198

Background

One of the unique capabilities of Ramco Aviation Solution is the Offline Field System, which enables Maintenance and Logistics operations in a remove environment, where there is limited or no network connectivity.

To facilitate maintenance of Aircrafts in an offline Field Base, parts need to be transferred from the Main Base. At times, it happens that the parts received from Main Base are found to be damaged (in-transit damage) and offline user need to update the condition as Unserviceable. The parts are then transferred back to Main Base. Also, in scenarios where shelf life is expired, parts are mishandled etc.; there is a need to change the part condition, manually. Though Offline Field System has several capabilities to manage day-to-day operations, manual change of part condition is restricted.

This feature addresses the business need of offline operations to manually change the condition of parts using **Stock Conversion** business component.

Change Details

Offline version of **Stock Conversion** business component will be developed to facilitate changing the part condition for the parts in stock. In addition to changing part condition, changing Stock Status of parts will also be supported and can be configured if required. Following are addressed as part the enhancement.

Configurator

- Stock Conversion transaction is added in the "Permitted Transactions List" of offline operations. Numbering Type for Stock Conversion transaction needs to be defined for each offline area in the Document Numbering Class business component
- In the Configurator business component, additional validations are added in the "Evaluation" and "Release" tasks to ensure,
  - Numbering Type is defined for Stock Conversion transaction for the Offline Area.
  - There are no Stock Conversion documents in "Draft" or "Fresh" status in the Warehouse that is going offline. Open Stock Conversion documents should be canceled or confirmed, prior to release of the Warehouse for offline operations.
  - Stock Conversions created in Field Base will be extracted and loaded onto the Main Base during extract and load operations.

Stock Conversion

- A new set option "Permitted function in Stock Conversion" is added under a new category "Stock Conversion" in the **Set Warehouse Process Parameters** screen of the **Storage Administration** business component. The option can be set as "Condition Change", "Stock Status Change" or "Both" as required for each Warehouse. Based on the option set, Stock Status Change or Condition Change or both will be permitted in the warehouse. For example, if Stock Status Change needs to be restricted in an offline warehouse, then the option needs to be set as "Condition Change" for the warehouse. If the option is not set, system will consider it as "Both" by default.
- Warehouse combo in the **Create Stock Conversion** and **Edit Stock Conversion** screens will be loaded based on the area of operation i.e., Online or Offline. In offline operations, it will be loaded only with the corresponding offline warehouse. In Main Base, offline warehouses will not be loaded.
- Stock Conversion processed in any Field Base, that is loaded onto Main Base during data synchronization will not be allowed to be modified in the Main Base.

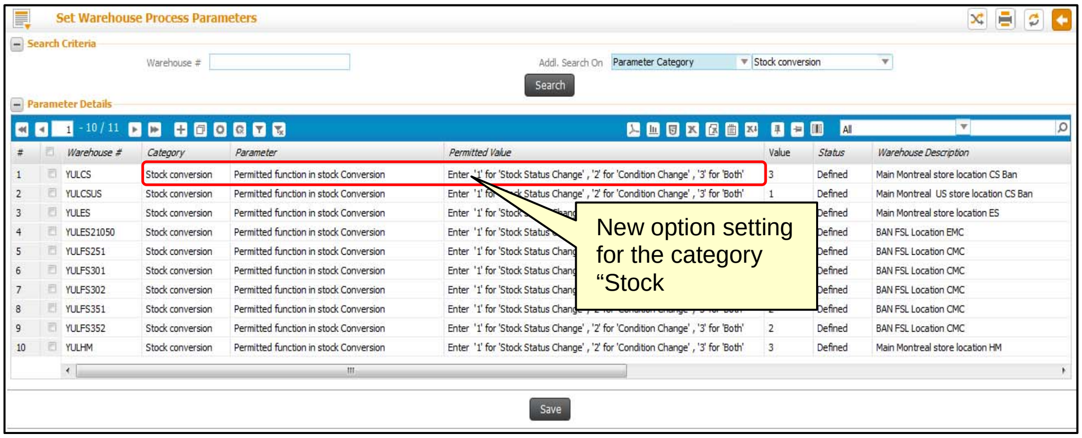
Part Data Change (PDC)

- When a PDC is initiated in Main Base to modify the "Part Control Type" or "Stockable" attribute of a Part, Stock Conversion documents in 'Draft' or 'Fresh' status for that Part pertaining to any offline area will not be considered as open transactions.
- During synchronization of a PDC on to an offline area, Stock Conversions documents in "Draft" or "Fresh" status for the Part in the offline area will be automatically cancelled.

Note:

- ✓ *Before rolling in the feature for offline operations, offline users' needs to be trained on using Stock Conversion functions in Ramco Aviation Solution.*
- ✓ *After defining Numbering Type for Stock Conversion for all Offline Area and setting the option as required at the Warehouse level, data needs to be extracted from the Main Base and released for loading onto all Field Bases.*

Exhibit XXXIV: *Identifies the option added in* ***Set Warehouse Process Parameters*** *screen*



Ability to configure access rights to change the part condition for specific roles

Reference: AHBF-3788

Background

Stock Conversion facilitates changing Stock Status and / or Condition for parts in Stock. Part Condition change through Stock Conversion is provided primarily to facilitate correction of data entry errors i.e., when a Part – Serial / Lot is moved into inventory with an incorrect condition. Also the feature eliminates the need to move the parts out of inventory and again receive/return it with the correct condition.

Currently, all the Users who have access to **Create Stock Conversion** or **Edit Stock Conversion** activities can change the Stock Status and Condition. However, as the case with few Organizations, condition change is a controlled activity and access needs to be provided to specific user/roles like Inspectors etc., as it could have regulatory implications, otherwise.

Change Details

A new set option "Enforce additional security to change Part Condition" is provided under the category "Stock Conversion" in the **Set Inventory Process Parameters** screen under **Logistics Common Master** business component. The option can be set as "All Parts", "Component" or "Not Required".

In organizations where only specific roles can change the part condition, the option needs to be set as "All Parts". In business practices where a User who has access to **Create Stock Conversion** or **Edit Stock Conversion** activities can change the part condition, the option needs to be set as "Not Required".

As part of the enhancement a new activity "Manage Condition Change for Non-component Parts" is provided under **Stock Conversion** business component. This activity is not a user activity and should not be configured to appear in the left pane. The activity is used to configure and control access to specific roles that can change the condition for non-component parts. User/role mapping to this activity needs to be done only when the above option is set as “All Parts”.

Validations are added in **Create Stock Conversion**, **Edit Stock Conversion** and **Edit Serial # / Lot # / Condition Details** screens based on the value set for the option “Enforce additional security to change Part Condition” as explained below.

If the option is set as,

- **All Parts**: User will be allowed to modify the part condition for a component part only if access rights are available to the activity **Update Component Condition** under **Aircraft** business component. In a similar way, part condition for a non-component part can be modified only if User has access rights to **Manage Condition Change for Non-Component Parts** activity under **Stock Conversion** business component.
- **Component:** User will be allowed to modify the part condition for a component part only if access rights are available to the activity **Update Component Condition** under **Aircraft** business component. However, system will not enforce any restriction on the User when the part condition for a non-component part is modified.
- **Not Required:** System will not enforce any restrictions on the User from modifying the condition of component or non-component parts.

Note:

✓ *If the option is not set, system will consider it as “Not Required” by default.*

Exhibit-XXXV: Identifies the option setting added in **Set Inventory Process Parameters** screen.

WHAT'S NEW IN STOCK MAINTENANCE?

New screen to View Material Count and Location Information

Reference: AHBF-811

Background

View Material Count and Location Information screen in the Stock Maintenance component is a powerful screen to know the count and location details of a given Part within and outside an organization including the Demands (Open MR Qty) and Due In (Open PO Qty). The screen is used by different roles; Buyer, Warehouse Administrator, Material Planner, Inventory Controller, Technical Records Administrator etc. Information under several entities (Shop Due, Third Party Repair, Quarantine, Spares Due, Intransit etc.) is displayed in the screen. However, the way information is rendered does not help in quick decision making process as related information is not logically grouped. In addition, the screen has a very long scroll, which makes it hard to use.

Business requirement is to address the usability issues of the screen by logically grouping the different entities displayed in addition to displaying the quantities under return with an easy drill down screen avoiding to and fro traversal across screens / entities.

Change Details

In order to address the business need, a new screen **Inquire Material Count and Location Information** is developed. The screen is positioned under Stock Maintenance business component and can be launched using the activity **Inquire Material Count and Location Information.** In order to view the break up details for different entities a new screen **View Qty Breakup Details** is provided.

Various entities are logically grouped as under,

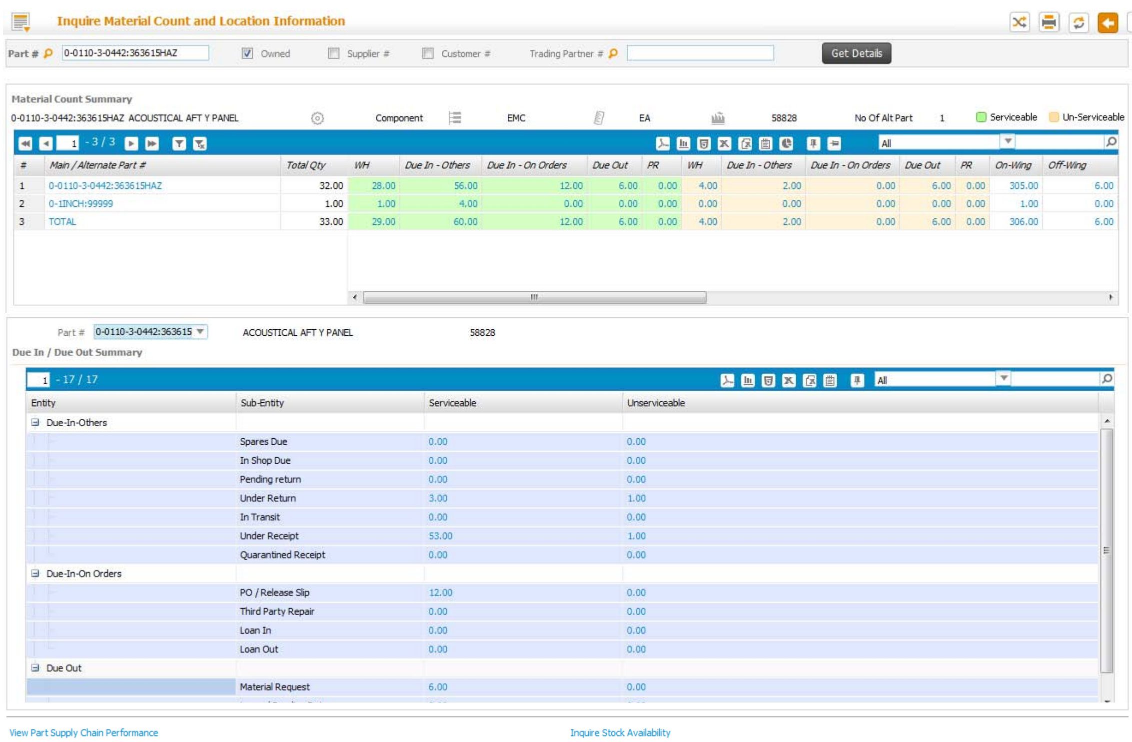
- Inquire Material Count and Location Information
    - Serviceable Qty
        - Warehouse
        - Due In – On Orders
        - Due In – Others
        - Due Out
        - Open PR
    - Unserviceable Qty
        - Warehouse
        - Due In – On Orders
        - Due In – Others
        - Due Out
        - Open PR
    - Others
        - On Wing, Off Wing, Issue – Not Attached Qty

Inquire Material Count and Location Information screen

The Inquire Material Count and Location Information screen has the following sections,

- Part Details
- Material Count Summary
- Due In / Due Out Summary

Exhibit-XXXVI: Identifies the new **Inquire Material Count and Location Information** screen



Part Details Section

Exhibit-XXXVII: Identifies the **Part**

This section acts as the Search Criteria section to retrieve the Part for which the Qty and Location information needs to be reviewed. The search can be made using the following attributes.

- Part #
- Ownership
- Trading Partner #

Details section

A new set option “Default Ownership check-box for Material Count and Location Inquiry” is added under the new category ‘Material Count and Location Information’ in the **Set Inventory Process Parameters** screen under **Logistics Common Master** business component. The set option can take one of the following values; Owned, Supplier, Customer or All. When the option is set as Owned, Supplier or Customer, corresponding check boxes will appear checked on launch of the screen. If the option is set as “All” then all the three check boxes will appear checked on launch of the screen.

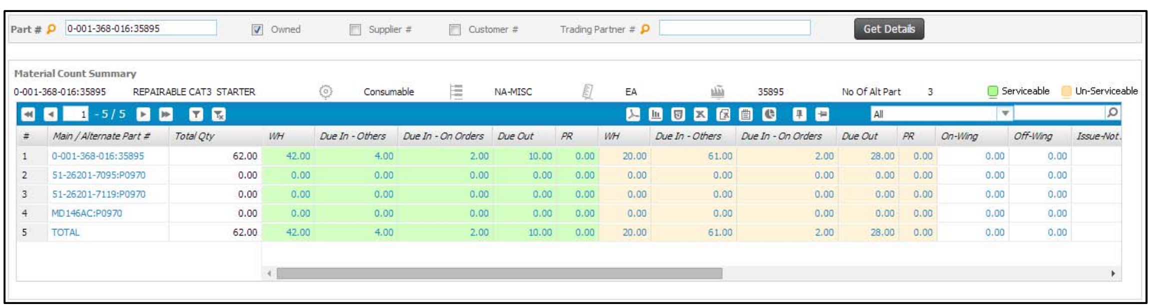
After entering the Part # when Get Details button is pressed, if specific Ownership is chosen then Quantities corresponding to the selected Ownership will only be considered and displayed. Also it is possible to enter specific Trading Partner # for Supplier or Customer Ownership to review the count and location details for the combination of Part # and Trading Partner #.

Material Count Summary This section displays the Part #, Part Description, Part Type, Part Category, Stock UOM, Mfr.# and No. of Alternate Parts. Also, the image legend for color code of multiline columns will be displayed.

Note:

- ✓ *Static images are used to represent Part Type, Part Category, Stock UOM and Mfr. # instead of Text Labels.*

Exhibit-XXXVIII: Identifies the **Material Count Summary** section



Significance of the Columns in multiline

- **Main / Alternative Part:**

  In the first row, the number identifying the part, for which the details are displayed. If any alternate part number is defined for the selected part, the alternate part numbers will be displayed in the subsequent multiline rows.

- **Total Qty:**

  This column will display the sum of the following Qtys; Serviceable WH Qty + Serviceable Due In-Others + Unserviceable WH Qty + Unserviceable Due In-Others

- **Serviceable WH:**

  This column will display the Serviceable qty of the part available in the Warehouse.

- **Serviceable Due In - Others:**

  Refer Due In / Due Out Summary Section

- **Serviceable Due In – On Orders:**

  Refer Due In / Due Out Summary Section

- **Serviceable Due Out:**

  Refer Due In / Due Out Summary Section

- **Serviceable PR:**

  This column will display the Qty of Parts available in Purchase Requests of 'Authorized' status with the Condition as 'New', 'New Surplus', 'Overhauled' or 'Serviceable', which is not covered under any PO / RS.

- **Unserviceable WH:**

  This column will display the Unserviceable Qty of the part available in the Warehouse.

- **Unserviceable Due In - Others:**

  Refer Due In / Due Out Summary Section

- **Unserviceable Due In – On Orders:**

  Refer Due In / Due Out Summary Section

- **Unserviceable Due Out:**

  Refer Due In / Due Out Summary Section

- **Unserviceable PR:**

  This column will display the Qty of Parts available in Purchase Requests of 'Authorized' status with the Condition as 'Unserviceable', which is not covered under any PO / RS.

- **Off-Wing Qty:**

  The count of active and mandatory position codes defined in an "Aircraft" in which the position Part # is not available.

- **On-Wing Qty:**

  The count of Part # attached to Aircraft.

- **<u>Issue-Not Attached Qty</u>:**

  The Qty of the Component Part that is issued to an AME/SWO, but is not attached to any Aircraft / NHA.

- **<u>Stock Value:</u>**

  The Value of Part available in Stock in Base Currency.

- **<u>Part Description:</u>**

  The Part Description for the given Part # as defined in Part master (i.e.) Part Administration.

- **<u>Mfr. Part #:</u>**

  The Mfr. Part # for the given Part as defined in Part master.

- **<u>Mfr. #:</u>**

  The Manufacturer Code for the given Part # as defined in Part master.

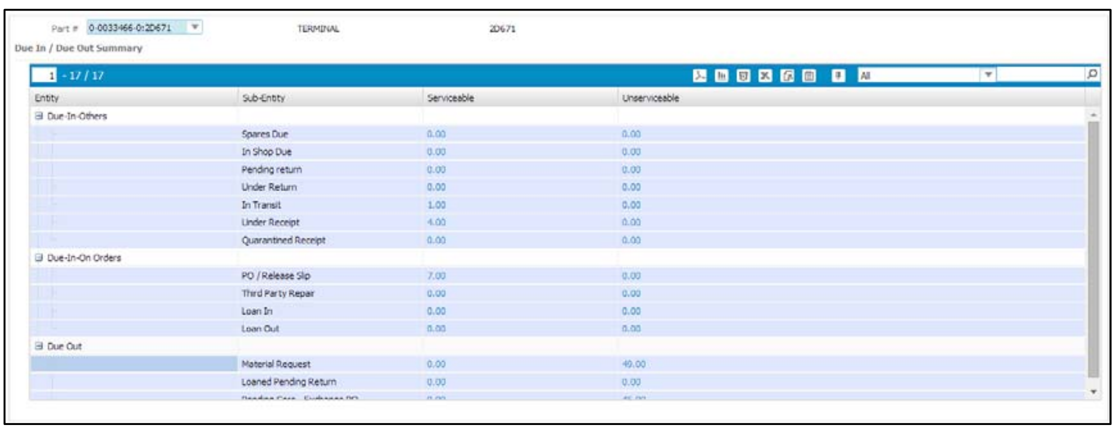
- **<u>Prime? </u>:**

  This field indicates if the Part # is a Prime Part or not. If it's a Prime Part, then this field will be displayed as 'Yes'

Due In / Due Out Summary:

This section displays sub–entity level breakup Qty for the following entities; Due In-On Orders, Due In-Others and Due Out. The combo in this section will be loaded with the Main Part # and its Alternate Part #s. The breakup will be displayed for the Part # selected in the combo. In addition, the combo will also have a value "All" loaded, to review sub-entity level breakup for the part including its alternates.

Exhibit-XXXIX: Identifies Due In / Due Out Summary Section



In order to facilitate grouping of sub-entity to a main entity based on organizational requirement, following options are provided.

- Display 'Spares Due' Sub-Entity under
- Display 'Pending Return' Sub-Entity under
- Display 'Under Return' Sub-Entity under
- Display 'In Transit' Sub-Entity under
- Display 'In Shop Due' Sub-Entity under
- Display 'Under Receipt' Sub-Entity under
- Display 'Quarantined Receipt' Sub-Entity under
- Display 'PO / Release Slip' Sub-Entity under
- Display 'Third Party Repair' Sub-Entity under
- Display 'Loan In' Sub-Entity under
- Display 'Loan Out' Sub-Entity under

These options can be set as "**Due In - Others**" or "**Due In - On Orders**".

Based on this definition, Qty under each of the Sub-Entity will be either counted under Due In – Others or Due In – On Orders. If the value is not defined for these options, then they will be considered under the Entities as mentioned below.

Significance of the Columns in Due In / Due Out Summary section

- **Serviceable Due In - Others:**

  This column will display the sum of Sub – Entities defined based on the option settings, which are defined under Category "Material Count and Location" in the **Set Inventory Process Parameters** activity. If it's not defined, then the Sub-Entities that will be taken for the count of Serviceable Due In – Others will be the sum of the following,

  - *Quarantine Receipt:*

    This column will display the Qty of Serviceable Parts quarantined against a Goods Receipt or Repair Receipt or Loan / Rental Receipt.

  - *Under Receipt:*

    This column will display the Qty of Serviceable parts available in the Goods Receipt or Repair Receipt or Loan / Rental Receipts that are in-progress.

  - *Spares Due:*

    This column will display the Qty of Serviceable Spare Parts (Parts with Issue Basis as 'Returnable') issued to an AME / SWO, for which Return is pending.

- *Pending Return:*

  This column will display the Qty of Serviceable Parts for which Maintenance Return is pending from AME / SWO.

- *Under Return:*

  This column will display the Qty of Serviceable Parts that are available in 'Draft' or 'Fresh' Return document.

- *In Transit:*

  This column will display the Qty of Serviceable Parts that are in-transit between two warehouses i.e., transferred from a warehouse and is yet to be received in another warehouse.

- **Serviceable Due In - On Orders:**

  This column will display the sum of Sub – Entities defined based on the option settings, which are defined under Category "Material Count and Location" in the **Set Inventory Process Parameters** activity. If it's not defined, then the Sub-Entities that will be taken for the count of Serviceable Due In – On Orders will be the sum of the following,

  - *PO / Release Slip:*

    This column will display the Qty of Serviceable Parts ordered in a Purchase Order or Release Slip yet to be received.

  - *Third Party Repair:*

    This column will display the Qty of Parts issued to a Repair Agency yet to be received.

  - *Loan In:*

    This column will display the Qty of the Parts that is pending to be received against an authorized Loan Order.

  - *Loan Out:*

    This column will display the Qty of Parts issued against a Rental Order, but is yet to be received.

- **Serviceable Due Out:**

  This column will display the sum of Material Request Qty and Loaned Pending Return Qty of Serviceable Parts.

  - *Material Request:*

    This column will display the Qty of Serviceable Parts requested against a Material Request, for which Issue of Parts is pending.

        - *Loaned Pending Return:*

          This column will display the Qty of the parts that are loaned but not yet returned to Supplier.

- **Unserviceable Due In - Others:**

  This column will display the sum of Sub – Entities defined based on the option settings, which are defined under Category "Material Count and Location" in the **Set Inventory Process Parameters** activity. If it's not defined, then the Sub-Entities that will be taken for the count of Unserviceable Due In – Others will be the sum of the following,

    - *Quarantine Receipt:*

      This column will display the Qty of Unserviceable parts Quarantined against the Goods Receipt or Repair Receipt or Loan / Rental Receipt.

    - *Under Receipt:*

      This column will display the Qty of Unserviceable parts available in the Goods Receipt or Repair Receipt or Loan / Rental Receipts that are in-progress.

    - *In Shop Due:*

      This column will display the Qty of the Main Core Parts issued to a SWO that is in-progress, for which Return is not yet confirmed.

    - *Pending Return:*

      This column will display the Qty of Unserviceable Parts for which Maintenance Return is pending from AME / SWO.

    - *Under Return:*

      This column will display the Qty of Unserviceable Parts that are available in 'Draft' or 'Fresh' Return document.

    - *In Transit:*

      This column will display the Qty of Unserviceable Parts that are in transit.

- **Unserviceable Due In – On Orders:**

  This column will display the sum of Sub – Entities defined based on the option settings, which are defined under Category "Material Count and Location" in the 'Set Inventory Process Parameters' activity. If it's not defined, then the Sub-Entities that will be taken for the count of Unserviceable Due In – On Orders are displayed below.

    - *PO / Release Slip:*

      This column will display the Qty of Unserviceable Parts ordered in a Purchase Order or Release Slip

- *Third Party Repair:*

  This column will display the Unserviceable Parts that has been issued to a Repair Shop in a Repair Order but yet to be received.

- **Unserviceable Due Out:**

  This column will display the sum of Material Request Qty and Pending Core – Exch. PO Qty of Unserviceable Parts.

  - *Material Request:*

    This column will display the Qty of Unserviceable Parts requested against a Material Request, for which Issue of Parts is pending.

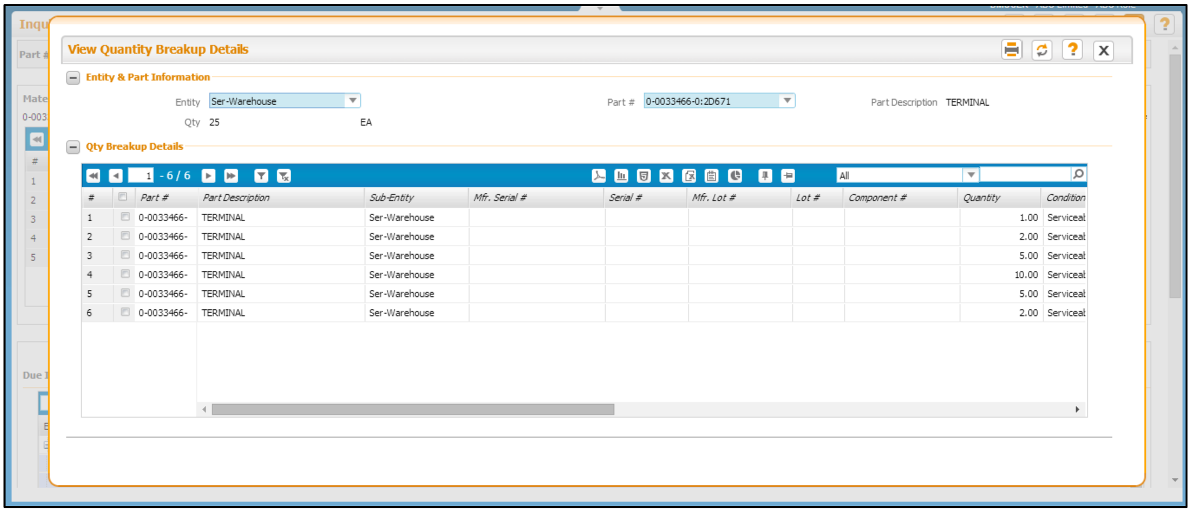
  - *Pending Core – Exch. PO:*

    This column will display the Qty of Unserviceable Core Part that is pending to be issued against an Exchange or PBH Exchange PO.

View Qty Breakup Details

This screen will be launched on click of any Qty data hyperlink from Inquire Material Count and Location Information screen. On launch it will retrieve and display detailed breakup along with transaction level information. In this screen two drop downs i.e., Entity and Part # enabled with an UI task is provided. User could use the drop down to select appropriate entity or sub-entity and / or part # to see the breakup details. It is not required to traverse back to the main screen to select an entity or sub-entity to review the breakup details. With this feature to and fro traversal between the main and breakup details screen can be completely avoided.

Exhibit-XXXX: Identifies the **View Qty Breakup Details** screen.



Map View in Inquire Material Count and Location Information screen

Reference: AHBF-3623

Background

Inquire Material Count and Location Information screen under Stock Maintenance business component is further enhanced providing a map view representing different warehouses in the user organization. Also, existing link to **View Material Count and Location Information** screen from different other screens in the application is replaced with the link to **Inquire Material Count and Location Information** screen.

Note:

- ✓ *Kindly refer to enhancement notification "Trn-Bsg-Enh-Inquire Material Count and Location Information-AHBF-811" for more details on Inquire Material Count & Location Information screen.*

Change Details

Two new parameters "Latitude" and "Longitude" are added under the category "Geographic Coordinate" in the **Set Warehouse Process Parameters** screen under **Logistics Common Master** business component.

In the **Inquire Material Count and Location Information** screen, a new map section "Warehouse Qty Summary" is added to show different warehouses in the Organization where stock is available for the Part #. Warehouse will be represented as pointers in the map based on its Latitude and Longitude. On click of the pointer, a popup appears displaying the Warehouse #, Total Available Qty, Serviceable Qty and Unserviceable Qty.

The link to launch the **View Material Count and Location Information** in the following screens is modified to launch the **Inquire Material Count and Location Information** screen.

- Stock Maintenance
  - Inquire Stock Availability
  - Part – Serial # / Lot # Transaction History
- Stock Demand Management
  - Plan Materials
- Storage Administration
  - Maintain Warehouse Planning Parameters
  - View Warehouse Planning Parameters
- Inventory Operations WorkSpace

Note:

- ✓ *Latitude and Longitude for each Warehouse needs to be specified in decimal format.*
- ✓ *If there is more than one warehouse available in the same location i.e., having similar latitude and longitude values, then, it is suggested to define them with at least one decimal difference for better map representation. For example, if the latitude and longitude of WH1 and WH2 are same i.e., 42.2 and -83.2. Then for WH 1 it can be defined as 42.2 & -83.2 and for WH 2 it could be defined as 42.3 and -83.3.*
- ✓ *Map will be displayed only if the client machine (lap top, desktop etc.) has internet connection.*
- ✓ *Link to old **View Material Count and Location Information** screen has been removed from different other screens in the application and it's replaced with link to the new screen.*
- ✓ *It is recommended to use the new screen **Inquire Material Count and Location Information** for review instead of the old **View Material Count and Location Information** screen as the old activity/screen will be de-supported in future.*

Exhibit XXXXI: Identifies the **Map in Inquire Material Count and Location Information** screen

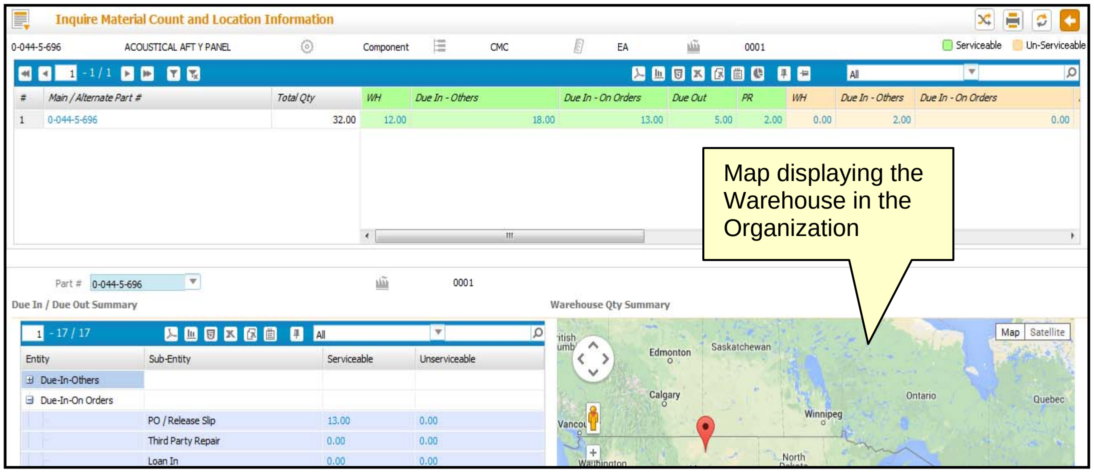


Exhibit XXXXII: Identifies the **Map section in Inquire Material Count and Location Information** screen

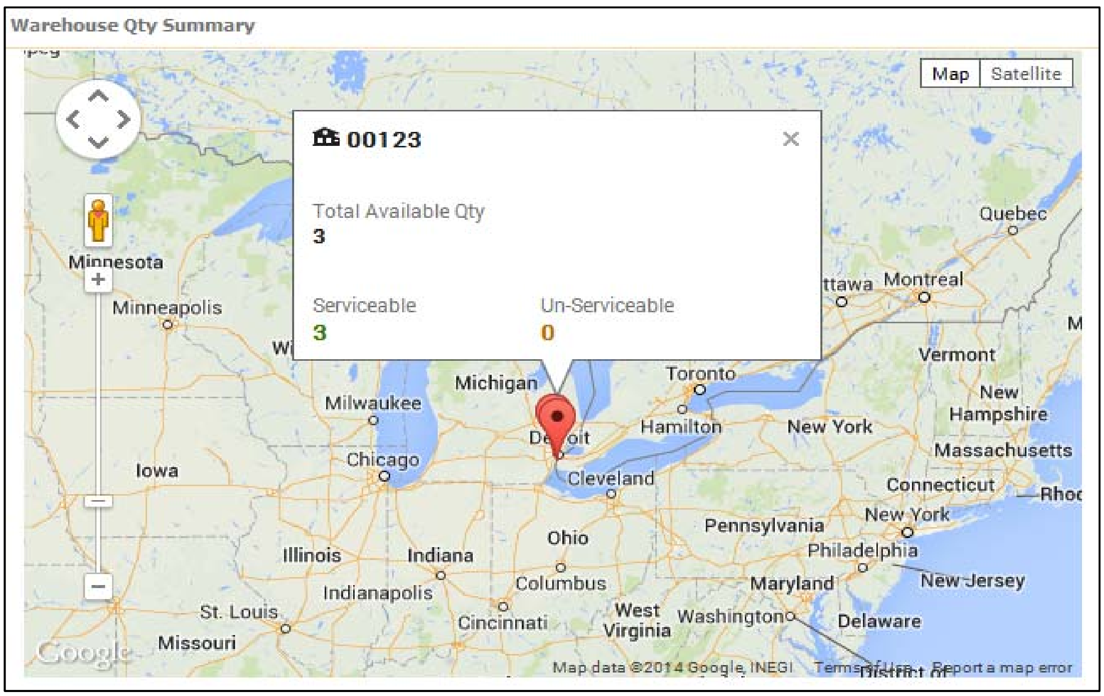


Exhibit XXXXIII: Identifies the new link to Inquire Material Count and Location Information screen from **Inquire Stock Availability** screen

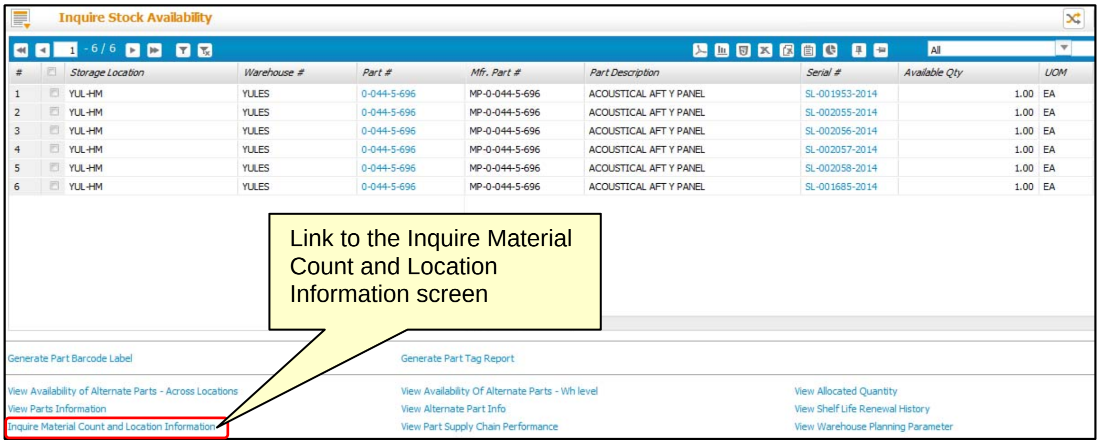


Exhibit XXXXIV: Identifies the new link to Inquire Material Count and Location Information screen from **Plan Materials** screen

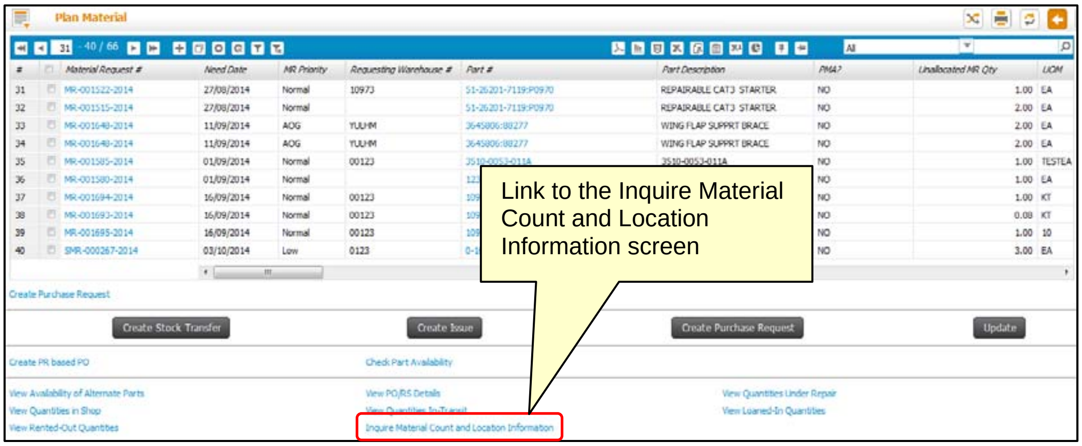
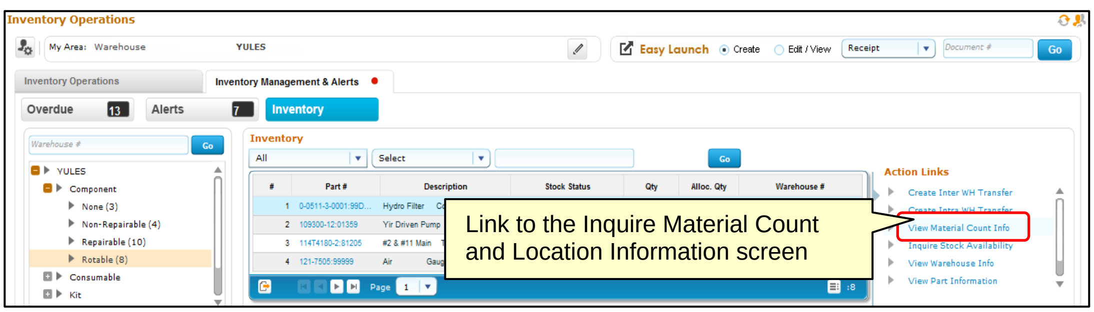


Exhibit XXXXV: Identifies the new link to Inquire Material Count and Location Information screen from **Inventory Operations** WorkSpace



WHAT'S NEW IN PHYSICAL INVENTORY AND CYCLE COUNT?

Facility to include a serial controlled part from CC Plan to CC Sheet even if all the Serial # are transferred and received in another Warehouse

Reference: AHBF-867

Background

Cycle Count Plan can be used as perpetual plan to facilitate repeated counting of parts identified over the year. Once a CC Plan is created, Parts needs to be associated to the plan prior to authorization. CC Plan then can be used to create CC Sheets to facilitate counting. It can happen that the parts available during CC Plan creation could be transferred and moved to other warehouses over the period in time. As a result, when CC Sheet is created, with the option to include zero qty parts, Serial controlled parts that are transferred and received in other warehouses will not be listed. Business need is to retrieve and display the serial controlled part from the plan even if the quantities are transferred and received in other warehouses.

Change Details

Currently, retrieval of Parts into a CC Sheet is based on the availability of stock in the CC Warehouse and the option chosen to include / exclude zero qty parts. When a serial controlled part is transferred and received in another warehouse, the stock records get updated with the new warehouse for the serial #s and as a result the part does not get pulled into CC Sheet. This is not the case with Lot or None controlled parts, as new stock records will be created in the warehouse where the parts are received after transfer.

The logic to retrieve a serial controlled part from CC Plan to CC Sheet is modified as below,

- If Qty is available in stock for that Part, then same will be retrieved from stock records.
- If Qty is not available in the CC Warehouse but if there are entries in stock records with zero qty, then the part will be retrieved, if the option chosen is to include zero qty parts during CC Sheet creation.
- If Qty is not available in CC Warehouse and also there are no entries in the stock records then history of stock records will be looked at to retrieve the part, if the option chosen is to include zero qty parts during CC Sheet creation.

Note:

There are exceptions in retrieving the parts from the CC Plan to CC Sheet or from CC Sheet to Count Results.

- ✓ *Part # is modified for all the existing Serial #s post creation of CC Plan / Sheet.*
- ✓ *Stock Status is modified for all the quantities of the Part in a CC Sheet.*
- ✓ *Part Data Change is done to modify the part control type for the Part after creation of CC Plan / Sheet.*

What's new in Facility Management?

Ability to display the Work Center specified during Issue of Tool in the Return Tools screen

Reference: AHBF-2509

Background

As the case with any Airline / MRO Operations, tools are administered by one or more Tool Cribs. A mechanic, who is in need of a tool to perform maintenance activities on an Aircraft or Component, collects the tool from the Tool Crib. Tool is returned once the maintenance activities are completed or by the end of the day / shift.

Issue Tools screen under **Facility Management** business component facilitates recording of issuance of tools. While issuing a tool, Employee # of the Mechanic is recorded against the tool. Apart from Employee #, the Work Center # of the Mechanic can also be recorded, if required.

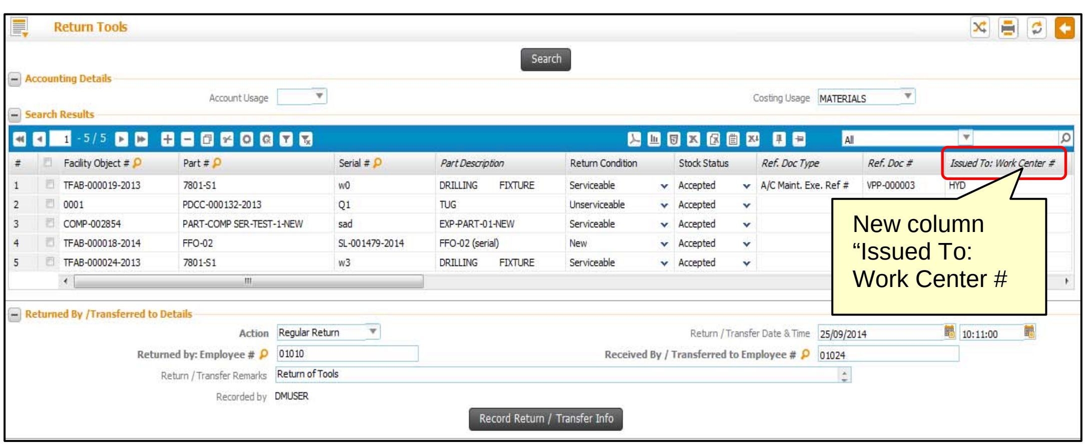
Once in a while, using the **Return Tools** screen, Tool Crib administrator reviews the list of tools that are pending to be returned. In the event where a tool is not returned within the specified return date, Tool Crib administrator initiates necessary follow-up with the Mechanic or his/her Work Center.

Currently, **Return Tools** screen shows the Employee Name of the Mechanic to whom the Tool is issued. However, it doesn't show the Work Center # that is recorded during issuance of tool. Business need is to display the Work Center # so that the Tool Crib administrator can extract the information and follow-up with the respective Work Centers.

Change Details

In the Search Results multiline of **Return Tools** screen, a new column "Issued To: Work Center #' is added. The Work Center recorded during tool issuance will be displayed against the tool.

Exhibit XXXXVI: Identifies the new column in **Return Tools** Screen



WHAT'S NEW IN INVENTORY OPERATIONS WORKSPACE?

Straight through processing from Inventory Operations WorkSpace

Reference: AHBF-347, AHBF-1650

Background

Currently, to confirm an Issue document, user needs to take the action link 'Confirm Issue' and traverse to **Confirm Issue** screen from Inventory Operations WorkSpace. Once the issue document is confirmed, user needs to traverse back to the WorkSpace for processing other inventory documents. Same is the case with confirmation General / Maintenance Return and Stock Transfer Receipt or authorization of Material Request.

In order to address the usability issue of traversing from and to the WorkSpace for confirmation or authorization of pending documents, a new concept of Straight through processing has been introduced. Straight through processing will facilitate user to directly confirm / authorize the documents from the WorkSpace without traversing to respective screens.

Change Details

When an Issue, Return, Stock Transfer Receipt or Material Request is chosen from the **Document List Panel** to preview the details, and if the next step for the chosen document is either confirmation or authorization, an action button will dynamically appear next to the Document # in **the Document Preview Panel**. On click of the action button a pop-up task ribbon will be displayed with the corresponding task i.e., Confirm or Authorize. User can click the task in the task ribbon pop-up to directly confirm or authorize the document without requiring visiting the respective screens to confirm or authorize.

Action button will be displayed only if the following conditions are satisfied; Login user should have access rights to respective Confirm / Authorize activity of the chosen document and the document should be eligible for confirmation or authorization i.e., the next step. For example, if an issue document is in Fresh status and the logical next step will be to confirm the issue, but if login user does not have access rights to confirm issue activity then the action button will not be displayed.

Upon successful confirmation a success message will be displayed and the **Document Preview Panel** will be refreshed to show the latest status. Also, **Action Links Panel** will be refreshed and links to view the document alone will be displayed. In the event where the document could not be confirmed due to valid error conditions i.e., failure of referential integrity checks etc., relevant error message will be displayed.

Direct confirmation of Issue from WorkSpace is supported for the following document types / sub-types:

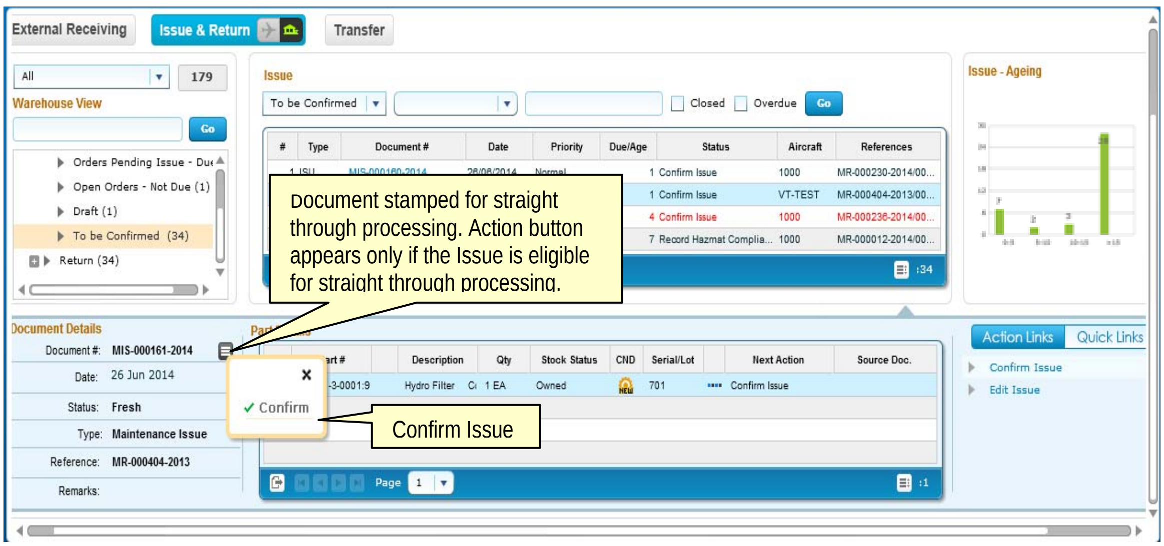
Issue: General Issue, Maintenance Issue, Stock Transfer Issue, Loan Order Issue, Rental Order Issue, Exchange Issue, PBH Exchange Issue and Repair Order Issue.

Return: General Return and Maintenance Return

Receipt: Stock Transfer Receipt

Request: Material Request

Exhibit XXXXVII: Identifies the Action button to confirm issue from the **Inventory Operations WorkSpace**



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