



Ramco Aviation Solution

Version 5.7.2

Enhancement Notification

Sales



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WHAT'S NEW IN WORK MONITORING AND CONTROL

Ability to report work actuals and record closure of tasks as a post event

Reference: AHBf-2908

Background

Work reporting on maintenance jobs does not always take place online. There are scenarios where the job is carried out first and the reporting of work into the system happens offline, as a post event. This is highly likely in case of transit checks or any other line maintenance activities where the actual maintenance work is completed first to release the aircraft and then the work information is fed into the system offline against the respective execution documents. There are other business scenarios that may require offline work reporting. Example: actual work takes place in a remote location where there are no network connectivity and hence, work actual information are maintained in an excel format and transmitted to the main base at periodic intervals. This data gets uploaded into the system in the main base by commercial's role or by shop role.

Review Work Execution and Report Actuals is a new activity that would facilitate offline work reporting against AME / SWO, both external as well as internal jobs. This screen also enables task status management. The 'Links' panel in the right side of the screen displays the required links based on the next possible action by the user, type of document viz., AME or SWO and the status of these documents.

Though the new screen facilitates viewing both AME and SWO, for the scope of the current release (R5.7.2), task status can be updated only for the tasks added in SWO. For AME this is not currently handled, the same has to be managed by visiting the appropriate links from the link pane.

Change Details

Sale Contract:

Option Settings: Certain parameters have been added at the contract level to manage this functionality. *See Exhibit 1.*

- a. **Work Reporting by a Commercials Role:** This parameter will have the values 'Allowed' or 'Not Allowed'. Since the data could be uploaded even by the commercials role, this parameter is enabled at a contract level.

Only when this option is set as 'Allowed', the commercials person will be able launch the **Review Work Execution & Report Actuals** link from the **Customer Order** screen. If this option is set as 'Not Allowed', the commercials person will not be able to launch the new screen from the **Customer Order** screen.

- b. **Allow Time Reporting by Other Employees?** This parameter will have the values 'Yes' and 'No'. Since the work reporting takes place offline including the recording of timesheet entries, it would be highly unlikely that the timesheet gets reported by the same employees who worked on the job. This is especially the case where the work happens in a remote location and the data is keyed in by the personnel at the main base. Hence, a parameter is introduced at the contract level to control reporting of timesheet by other employees.

If the option is selected as 'Yes', then timesheet for an employee can be reported by another individual for all the jobs tagged to the said contract.

If the option is selected as 'No', then timesheet on behalf of other employee cannot be reported.

***Note:** Though this option is currently available at a SWO type level / Package type level, this parameter added in contract facilitates controlling timesheet reporting by other employees at a contract level.*

Customer Service Order:

Any task added in the Customer Order is copied to the execution documents when they are auto-setup from customer order. But, post execution document setup, any additional work requests sought by the customer and added in the CO would not be copied to the execution documents.

This has now been addressed and any task added in CO post execution document generation will also be copied to the SWO / AME. *See Exhibit 2.*

To facilitate work actual upload by a commercials person, a link to **Review Work Execution and Report Actuals** screen is provided from the **Manage Customer Order** and **Approve / Close Customer Order** screens. *See Exhibit 3 & 4.* Commercials role can visit the new page using these links only when the contract parameter allows so.

Review Work Execution & Report Actuals:

This new screen facilitates the following:

1. Tasks recorded against an AME or SWO can be viewed in the multiline. Both internal and external execution documents can be viewed.
2. Tasks can be released for execution.
3. Work actuals can be reported by visiting the appropriate links enabled in the link pane at the right side of the screen.
4. Task status can be changed to “Completed”, “Cancelled”, “Closed” or “Pre-closed” from this screen itself.
5. Work order level release, completion or closure can also be reported from this screen. See *Exhibit 5*.

Access rights to Review Work Execution and Report Actuals screen:

Three levels of access rights are enabled;

1. RVW access rights: RVW access rights to be given to the user to work on this screen.
2. Document type level access rights: Users having access to **Record Shop Execution Details** screen can view and operate on the SWO documents and users having access rights to **Aircraft Maintenance Execution Ref. Document (AME)** can view and operate on the AME document, using this new screen. Based on the user access rights, options to choose the toggle buttons on AME or SWO would be disabled.
3. Work Center level access rights: Only those SWOs/AME where the user has the access rights to the primary work centers would be made available.

Links to the new screen is enabled from **Customer Order** screens also. The rights to visit these screens by a commercial's personnel is controlled by a parameter in the contract.

Note: Toggle buttons viz., Customer order, AME & SWO buttons are enabled in the header to select the type of document with which the user is going to select his document # to work upon. For example: A commercial's person may use the CO # to select the document while a shop person may use AME or SWO #.

These toggle buttons will be enabled only when the respective components are deployed for that instance and only when the access right is enabled for the login user.

Exhibit-1

Changes made in the **Edit Terms of Execution** screen

Edit Terms of Execution

Main Contract Details

Contract # / Rev. # MOROCCO/1 Contract Type Customer Specific Contract Status Fresh
 Contract Category Sale Type T & M Contract Date 01/08/2014
 Customer # CHI Customer Name COLUMBIA HELICOPTERS Currency CAD
 Effective from 01/08/2014 Effective to User Status

Operational Parameters Permitted Work Delays Part Handling Details Customer Supplied Parts

#	Category	Element	Description	Value	Value Selected	Permitted Values
13	Commercials	Rmv. from A/C Info.	Rmv. from Aircraft Info. for Contract Usage	1	Not Required	Enter '0' for 'Required' and '1' for 'Not Required'
14	Execution	Deviation				Enter '0' for 'Allowed', '1' for 'Not Allowed', 'Z' for 'Allowed with Approval'
15	Execution	PMA Usage				Enter '0' for 'Not-allowed', '1' for 'Any PMA Part Allowed', and '2' for 'Allowed with Approval'.
16	Execution	PMA Preference				Enter '0' for 'Preferred' and '1' for 'Not Preferred'
17	Finance	Cost Center				Enter '0' for 'Task Level CC', '1' for 'Order Level CC'
18	Logistics	Auto Authorization				Enter '0' for 'Allowed' and '1' for 'Not Allowed'.
19	Logistics	Manual Authorization				Enter '0' for 'Allowed' and '1' for 'Not Allowed'.
20	Commercials	Progressive Billing	Progressive Billing on Task closure	0	Allowed	Enter '0' for 'Allowed', '1' for 'Not allowed'
21	Commercials	Work Reporting	Work Reporting by a Commercials Role	0	Allowed	Enter '0' for 'Allowed', '1' for 'Not Allowed'.
22	Execution	Timesheet Reporting	Allow Time Reporting by Other Employees?	0	Yes	Enter '0' for 'Yes' and '1' for 'No'.

Save Parameters

Exhibit-2

Changes made in **Manage Customer Order** screen

Manage Customer Order

Warranty Requested Warranty Notes

Exec. Info. Current Repair Process Code INSPECTION

Task Details

#	Task #	Task Description	WBS Code	Notes
1	01-ACC-X00-00-000610	ACCEPT CHECK	1-PME	
2	01-ACC-X00-00-000626	ACCEPT CHECK	1-PME	
3	00-00-036	inspectomn	1-PME	
4				

Save Work Scope View Task

Confirm Cancel

Manage Order Execution View Parts Information Manage Exchange Order
 Review Work Execution & Report Actuals

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Exhibit-3

Changes made in **Manage Customer Order** screen

The screenshot shows the 'Manage Customer Order' interface. At the top, there is a search bar for 'Expected Receipt Date' and an 'Evaluate Contract' button. Below this is a table with columns: #, Part #, Mfr. Part #, Mfr. #, Part Description, Stock Status, Part Serial #, Part MSN, Mfr. Lot #, and Qty. The table contains one row with part number 10-60556-15:81205 and description 'REPAIRABLE CAT3 AIRABLE'. Below the table are sections for 'Contract Details' (Contract # / Rev. # MOROCCO / 0, Obj. Eff. Code MOROCCO-1, Sale Type / Pricing Basis T & M/T & M) and 'Work Execution' (Primary Work Center YUL-125-10, Repair Supplier #). At the bottom, there are buttons for 'Confirm' and 'Cancel', and a link for 'Review Work Execution & Report Work Actuals'. A yellow callout box with a speech bubble points to this link, containing the text: 'Link added to Review Work Execution and Report Work Actuals'.

Exhibit-4

Changes made in **Approve / Close Customer Order** screen

The screenshot shows the 'Approve / Close Customer Order' interface. At the top, there are input fields for 'Customer #', 'Order Gen. Mode', 'Customer PO #', 'User Id', and 'Order Date from / to' (25/08/2014 to 24/09/2014). Below this is a 'Search' button and a 'Search Results' section. The search results table has columns: #, Order #, Revision #, Order Desc., Order Date, Order Status, Order Applicability, Part Applicability, Customer #, Customer Name, Customer PO #, User Status, User Id, and Order Gen. The table contains 10 rows of order data. At the bottom, there are buttons for 'Approve', 'Return', 'Close / Short Close', and 'Cancel Exe. Doc.'. A yellow callout box with a speech bubble points to a link at the bottom left, containing the text: 'Link added to Review Work Execution and Report Work Actuals'.

Exhibit-5

Review Work Execution and Report Actuals screen

The screenshot shows the 'Review Work Execution and Report Actuals' interface. At the top, there are tabs for 'Customer Order', 'Work Order', and 'AME'. Below this, there are fields for 'Ref. Doc. #', 'Exec. Doc. #', 'Location', and 'Plan / Actual Date'. A callout box points to the 'Ref. Doc. #' field with the text 'Document level Release / Completion / Closure'. Another callout box points to the right-hand side of the screen with the text 'Links enabled based on document type and status'. Below the main form is a 'Task Details' table with columns for '#', 'Exec. Action', 'Exec. Comments', '% Comp.', and various reporting flags. A callout box points to the 'Exec. Action' column with the text 'Manage Task Statuses'. At the bottom of the screen, there are 'Release' and 'Update Task Status' buttons. On the right side, there is a 'Links' panel with sections for 'Work Planning', 'Work Execution', 'Work Reporting', 'Work Completion', and 'Work Review', each containing several sub-links.

#	Exec. Action	Exec. Comments	% Comp.	SS	Parts Rep.?	Labour Rep.?	Res. Rep.?	Mod. Task Detl.?	Rep. Disc.?	Rep. CR?
1	Complete			PSOF	No	No	No	Yes	Yes	Yes
2	Close			NR	No	No	No	Yes	Yes	Yes
3	Pre-Close			NR	No	No	No	Yes	Yes	Yes
4							No	Yes	Yes	Yes
5							No	Yes	Yes	Yes

WHAT'S NEW IN SERVICE SALE BILLING?

Ability to raise progressive billing upon closure of task

Reference: AHBF-2377

Background:

Currently system supports raising a regular invoice only upon completion of the work. But, there may be scenarios where the MRO may want to serve the bill progressively on the customers as and when a portion of work is completed even though the job is not fully completed.

Change Details:

This requirement has been addressed by adding a new regular billing milestone called 'Task closure' and by adding a new parameter to acknowledge the need for progressive billing.

When the option for progressive billing is selected as "Required", the system facilitates recording invoice release against each task that carry a pricing against the same in the contract. A task which is not a pricing task will come up for invoice release only when its parent pricing task gets closed.

Sale Contract – Operational Parameters tab:

A new operational parameter is added in the **Service Sale Contract** as given below:

Progressive Billing on Task Closure: This will have the values 'Allowed' or 'Not Allowed'. If this parameter is set as 'Allowed', the user will be able to raise a regular bill on closure of each task in the WO/package. When the option is set as 'Not Allowed', a regular bill will be able to be raised, only on work completion. *See Exhibit 6.*

Default Settings: By default, the parameters will be set as 'Blank'.

Sale Contract - Invoicing & Payment tab:

A new Invoicing Milestone called 'Task Closure' is added and this would be allowed to get set for an invoice of type 'Regular'. *See Exhibit 7.*

Manage Order Execution - Billing and Warranty Tab:

The existing 'Billing and Warranty' tab has been positioned as a page for review of the tasks that are closed and billed and that are yet to be billed.

The Triggering Event has been renamed as 'Triggering Task/Doc. #'. In case of progressive billing based on task closure, the 'Invoice Release #' created against the closed task is displayed in this column. *See Exhibit 8.*

Record Work Estimates:

In case the billing is based on quotation, if invoice is raised against a task based on quote value, then validation has been introduced in estimations page to restrict modification to estimations against tasks which are closed and invoiced.

Sale Quotation:

In case the billing is based on quote value, validations have been introduced to restrict changes to quote value against the invoiced tasks. Hence, to provide visibility to the invoiced information, two new controls 'Invoiced?' and 'Release #' are added in the multiline in the 'Reg. Info.' tab. The 'Invoiced?' column displays either 'Yes' or 'No' depending on whether the task is invoiced or not. If the task is invoiced, then the corresponding 'Invoice Release #' is displayed in the 'Release #' column and the hyperlink on the value will take the user to the **Invoice Release** screen. *See Exhibit 9.*

Invoice Release:

If the billing is on work completion, the system would setup a regular billing milestone upon completion of root execution document. But, in case of progressive billing, the user will have to create a release as and when required by specifying the event description.

Hence, a new control 'Event Description' is added in the 'Reg. Billing Info' tab. When an invoice release is created based on task closure, the Event Description has to be mandatorily specified. *See Exhibit 10.*

As and when a closed pricing task is available for billing, the system retrieves the Customer Order in the search page of the **Invoice Release** screen. By specifying the event description, the user will be able to record an invoice release against all the closed tasks.

A new column 'RTB Analysis' is added in the multiline under the 'Reg. Billing Info.' tab. In this task level 'ready to bill' analysis will be displayed. This information was earlier shown at an invoice release level as the header information. *See Exhibit 11.*

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Exhibit-6

Changes made in **Edit Terms of Execution** screen

#	Category	Element	Description	Value	Value Selected	Permitted Values	Note
13	Commercials	Rmv. from A/C Info.	Rmv. from Aircraft Info. for Contract Usage	1	Not Required	Enter "0" for 'Required' and "1" for 'Not Required'	
14	Execution	Deviation	Usage of Deviated Parts	0	Allowed	Enter '0' for 'Allowed', '1' for 'Not Allowed', '2' for 'Allowed with	
15	Execution	PMA Usage	Usage of PMA Parts	1	Any PMA part Allowed	Enter "0" for 'Not-allowed', "1" for 'Any PMA Part Allowed', and "2"	
16	Execution	PMA Preference	PMA Part Preference	0	Preferred	Enter '0' for 'Preferred' and '1' for 'Not Preferred'	
17	Finance	Cost Center	Revenue/Cost Assigning Level	0	Task Level CC	Enter '0' for 'Task Level CC', '1' for 'Order Level CC'	
18	Logistics	Auto Authorization	Auto Authorization of RO on Customer	0	Allowed	Enter "0" for 'Allowed' and "1" for 'Not Allowed'.	
19	Logistics	Manual Authorization	Manual Authorization of RO pending	0	Allowed	Enter "0" for 'Allowed' and "1" for 'Not Allowed'.	
20	Commercials	Progressive Billing	Progressive Billing on Task closure	0	Allowed	Enter '0' for 'Allowed', '1' for 'Not allowed'	
21	Commercials	Work Reporting	Work Reporting by a Commercials Role			Enter 0 for 'Allowed', 1 for 'Not Allowed'.	
22	Execution	Timesheet Reporting	Allow Time Reporting by Other Employees?			Enter "0" for 'Yes' and "1" for 'No'.	

Exhibit-7

Changes made in **Edit Pricing & Invoicing Details** screen

Edit Pricing and Invoicing Details

Contract # / Rev. # pb-001 / 0 Contract Type Customer Specific Contract Status Approved
 Contract Category Sale Type T & M Contract Date 01/07/2014
 Customer # 100001 Customer Name DONAVIA Currency CAD
 Effective from 02/07/2014 Effective to User Status

Std. & T&M Pricing Fixed Pricing UB Pricing UB Rev. Recog. Mat. Pricing Caps Res. Pricing Caps Ext. Ser. Caps **Inv. & Payment** T/C/D

Sale Type T & M Pricing Basis T & M Remarks

#	Inv. Type	Inv. Category	Invoicing Event	Event Description	Bill Prior to (Days)	Triggering Task	Basis - Regular
1	Regular	REG	Work Completion				Quote
2	Regular	REG	Task Closure				Quote
3			Task Initiation				
			Task Completion				
			Manual				
			Task Closure				
			Work Completion				

Auto Set-Up Option for Regular Invoice

Rel. prep. before Event? Not Allowed Set-up of Invoice Release Automatic Release of RTB Invoice Manual
 Set-up of Cust. Invoice Manual

Exhibit-8

Changes made in **Manage Order Execution** screen

Manage Order Execution

Sale Type: FP Order Priority: priority Primary Work Center: ICD
Order Category: Repair Primary Part Group

Order Execution Details **Billing & Warranty** Cust. Correspondence Work Execution Invoice History Shipping Details

Warranty Resolution: [dropdown] Warranty Notes: [text area]

Billing Details

#	Inv. Type	Inv. Category	Inv. Event	Event Description	Bill Prior to (Days)	Triggering Task / Doc. #	Event Date	Initiate Invoice	Basis	Prepay. Value
1	Regular	Regular	Task Closure	Task Closure		EVERY ATT	12/08/2014 15:13:37	Yes	Quote If Applicable	
2	Regular	Regular	Work Completion					No	Quote If Applicable	
3								No		

Exhibit-9

Changes made in **Manage Sale Quotation** screen

Manage Sale Quotation

Main Info. **Ref. Info.** Materials Resources Ext. Services Direct Qt. Info Addl. Charges CO T/C/D CO Maint. Obj. Pricing Summary

Quote Summary

T & M Price - Mat. 0.00 T & M Price - Lab. 0.00 T & M Price - Oth. Res. 24,000.00
T & M Charges 0.00 T & M - Ext. Services 0.00 T & M Price - Total 24,000.00
Fixed Price Total 0.00 Basic Qt. Value 24,000.00

Search Filters Search By: [dropdown] Show Qt. Approved Tasks: **Get Details**

Quote Ref. Details

#	Q. Ind.	Avail Est.?	Price Disp.	Rev.	Quote for	Qt. Doc. #	Exec. Doc. Type	Exec. Doc. #	Task Status	Invoiced?	Release #	Task #
1	New				Shop Work Order	CWO-000484-2012	Shop Work Order	CWO-000484-2012	Closed			ONE TIME T/
2	New				Shop Work Order	CWO-000484-2012	Shop Work Order	CWO-000484-2012	Planned			RECURRING
3	New				Shop Work Order	CWO-000484-2012	Shop Work Order	CWO-000484-2012	Planned			RESTORATI
4												

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Exhibit-10

Changes made in Manage Invoice Release screen

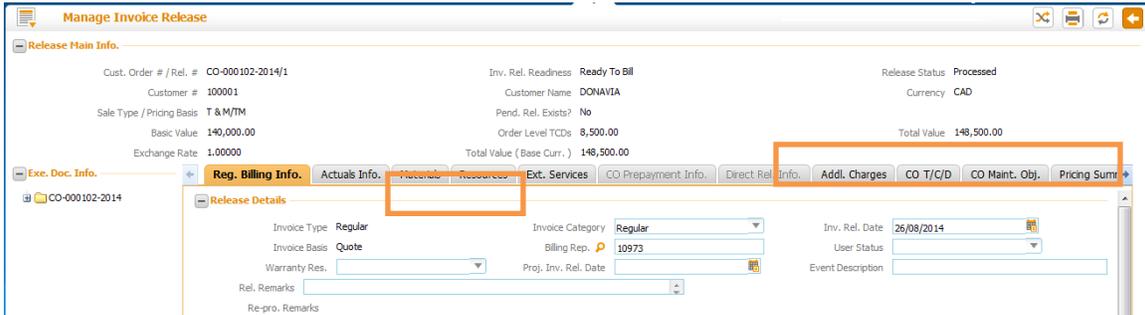
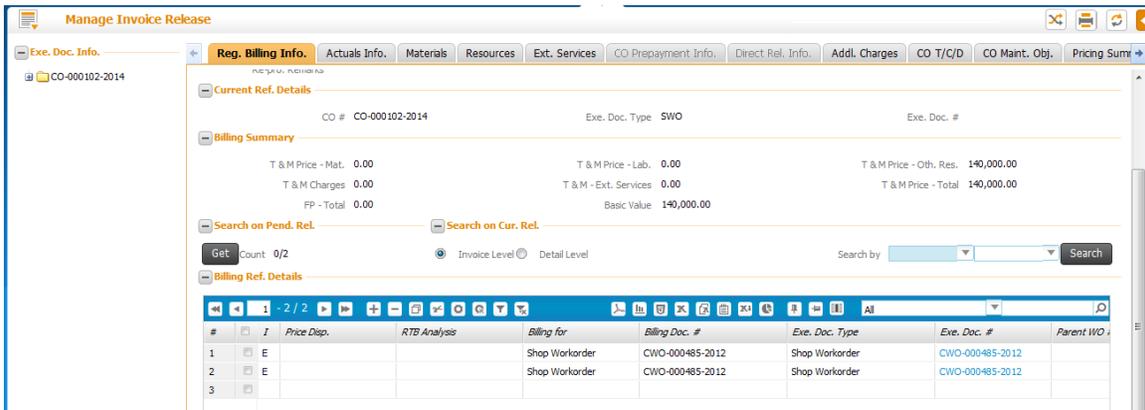


Exhibit-11

Changes made in Manage Invoice Release screen



WHAT'S NEW IN FLIGHT CONTRACT AND FLIGHT SHEET

Ability to bill journey information in a contract flight operation, based on the Taxi Time

Reference: AHBF-2832

Background

Previously, the entire journey information was captured based on block hours or flight hours without excluding any time such as taxi out time or taxi in time. Now, a new provision has been made to exclude the time between Engine Start Time and Taxi Out Time in case if the journey is billed based on block hours.

Change Details

Edit Pricing & Invoicing Info. Screen

A new parameter called 'Exclude Engine Start to Taxi Out Time from Block Hours for billing' is added under contract parameters. See Exhibit 12.

- I. If the billing is based on block hours viz., engine start to engine stop time, the value has to be selected as 'No'.
- II. If the billing based on block hour starts only from taxi out time and ends at engine stop time, then select the value for the parameter as 'Yes'.
- III. If billing for aircraft usage is not based on block hours, then select the value as 'Not Applicable'.

Manage Flight Sheet Screen

The visibility to the start reference time and end reference time is given in the Flight Sheet by adding two new controls in the **Manage Flight Sheet** activity under the 'JL Usage Info.' tab. The controls are named as 'Start Time Ref.' and 'End Time Ref'. See *Exhibit 13*.

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Billing parameter	Parameter on exclude taxi out time	Start Ref. Time	End Ref. Time
Flight Hours	Set as 'Not Applicable'	Take Off time	Landing time
Block Hours	Set as 'No'	Engine Start time	Engine Stop Time
Block Hours	Set as 'Yes'	Taxi Out time	Engine Stop Time

Note: If taxi out time is not reported in any journey leg, then the engine start time would be considered as start reference time and this will be displayed in the 'Start Ref. Time' column

Exhibit 12:

Changes made in **Edit Pricing & Invoicing Info.** screen.

The screenshot shows the 'Edit Pricing & Invoicing Info.' screen with the following details:

- Contract # / Rev. #: JPN-001-A320/5
- Contract Type: Customer Specific
- Charter Type: Regular
- Effective from: 14/01/2013
- Parameters: Inv. Basis, Inv. Rates, Usage Rates - Slab Based, Crew Charges, Non-Billable Elements, T/C/D, Bill-to Customer

#	Category	Element	Description	Value	Value Selected	Permitted Values
16	Billing	Invoice Release Status	Auto confirmation of Invoice release with no Pricing Exceptions	0	Not Required	Enter '0' for 'Not Required'
17	Billing	Flight Invoice	Auto generate flight invoice upon release			Not Required', '1'
18	Billing	Flight Invoice	Status of the flight invoice generated from			Refresh' and '1'
19	Billing	Exch.Rate - Ref.Date	Rate conversions from contract currency			Inv.Milestone
20	Billing	Exch.Rate - Ref.Date	Rate conversions from contract currency			Inv.Milestone Date'
21	Billing	Exch.Rate - Ref.Date	Value conversion from exp.invoice currency			Inv.Milestone
22	Billing	Exch.Rate - Ref.Date	Value conversion from exp.invoice currency to billing	2	Exp.Invoice Date	Enter '0' for 'Inv.Milestone
23	Billing	Billable Block Hours	Exclude Engine Start to Taxi Out Time from Block Hours for Billing	2	Not Applicable	Enter '0' for 'Yes', '1' for 'No',
24	Billing	Flight Time for Std.Burn Rate	Aircraft Usage on which Std.Burn Rate is applied	2	Not applicable	Enter '0' for 'Flight Hour' '1'
25	Billing	Fuel Consumption Rate	Rate reference for fuel consumption	3	Not applicable	Enter '0' for 'Flight Contract', '1'

Callout Box:
 Category: Billing
 Element: Billable Block Hours
 Description: Exclude engine start to taxi out time from block hours for billing.
 Values: Yes/No/Not Applicable

Exhibit 13:

Changes made in **Manage Flight Sheet** screen

The screenshot shows the 'Manage Flight Sheet' interface. At the top, there are fields for Flight Sheet # (FS0002362013), Date from / to / UTC Zone (01/06/2014), Customer Name, and Contract # / Rev. # (JPN-001-A320/4). Below these are tabs for Main Info., **JL Usage Info.**, Parameter Info., No Flight Info., Duty Info., A/C Activity Info., and Emp. Activity Info. There are also expandable sections for Rev. Info. and Usage Parameter Info. The main area is titled 'Journey Details' and shows a table with columns: Key Leg #, Start Time Ref., From Date - UTC, From Time - UTC, End Time Ref., To Date - UTC, and To Time. A toolbar above the table contains various icons for navigation and actions. Three callout boxes provide details about the changes:

- Top Right Callout:**
 1. If taxi time is excluded then this control is displayed as "Engine Start (Engine Start to Taxi Out Time Excluded)"
 2. If not excluded then display as "Engine Time"
- Left Callout (pointing to the table area):**
 1. If taxi time is excluded then this control is displayed as "Per Block Hour (Engine Start to Taxi Out Time Excluded)"
 2. If not excluded then displayed as "Per Block Hour "
- Middle Callout (pointing to 'Start Time Ref.' column):** Added a new display only control 'Start Time Ref.'
- Right Callout (pointing to 'End Time Ref.' column):** Added a new display only control 'End Time Ref.'

WHAT'S NEW IN FLIGHT CONTRACT & FLIGHT SHEET

Ability to invoice the customers for fuel against a flight contract.

Reference: AHBf-3721

Background

Fuel is one of the important elements of billing in contracted flight operations. Most of the time, contracted flight operators bill their customer for fuel separately and they do not include this rate in the flying rate. There are different ways with which fuel can be billed. A new provision has been given in the application with which the customers can be billed based on 'Std. Rate-Consumption' or based on the fuel uplifts as given below:

1. Based on Std. Burn Rate

Under this method, the standard burn rate of fuel per hour of aircraft usage serves as the basis of billing. Billable fuel consumption is computed by multiplying the standard burn rate with the flight hours or block hours recorded during the journey. Customers are charged for this quantity at the agreed rate.

This Std. Burn Rates could be the one published by the OEMs and it acts as the base for billing. It is defined as a technical parameter in the aircraft master.

Whether flight hours or block hours is to be used to compute the fuel consumption is determined by way of a parameter in the contract.

2. Based on Fuel Uplift

In this method, customers are billed for fuel based on the quantity uplifted into the aircraft to perform the customer journey. The rate per quantity is defined in the contract. Uplifted quantity is noted down against the aircraft and based on this info, customer is billed.

Note: *If the Fuel Billing is based on Fuel Consumption then include that parameter in the Billing Head master and then specify the appropriate UOM for the respective Billing Head and also specify any one of the parameters mentioned above for the respective Billing head. Include that Billing Head in the contract in the invoice basis tab.*

Change Details

Billing based on Consumption – Std. burn rate per BH/FH:

A new parameter called ‘Aircraft Usage on which Std. Burn Rate to be applied’ is added in the contract. See Exhibit 15. Select the option as ‘flight hour’ or ‘block hour’ that should be used to compute the consumption quantity based on the standard burn rate. If however, the billing for fuel is not based on standard burn rate, then select this option as ‘Not Applicable’.

Billing based on Std. Burn Rate

Fuel Price = Billable Qty. (from FS) * Rate (from contract)

Where,

Billable Qty. = BH/FH * Std. Burn Rate

FH - Flight hour as recorded in EFB/Journey Log

BH - Block hour as recorded in EFB / Journey Log

If the fuel billing is based on consumption computed based on a Std. Burn Rate then the details such as No. of Units to be billed, Unit, Currency, BH or FH against the respective Billing Head from the **Flight Sheet** is reflected in the ‘Operating Charges’ section in the **Manage Flight Invoice Release** screen.

Exhibit 15:

Changes made in **Edit Pricing & Invoicing Info.** screen

Edit Pricing & Invoicing Info.

Contract Main Details

Contract # / Rev. # ACGN0002/1 Contract Type: Customer Specific Status

Charter Type: Regular Effective from 10/06/2014 Effective b

Parameters Inv. Basis Inv. Rates Usage Rates - Slab Based Crew Charges Non-Billable Elements T/C/D Bill-to Customer

#	Category	Element	Description			
16	Billing	Invoice Release Status	Auto confirmation of Invoice re			Required
17	Billing	Flight Invoice	Auto generate flight invoice up			Required, "1"
18	Billing	Flight Invoice	Status of the flight invoice gen			sh' and "1"
19	Billing	Exch.Rate - Ref.Date	Rate conversions from contrac			,Milestone Date'
20	Billing	Exch.Rate - Ref.Date	Rate conversions from contrac			
21	Billing	Exch.Rate - Ref.Date	Value conversion from exp.invoice currency to bi	1	Inv.Release Date	Enter "0" for 'Inv.Milestone
22	Billing	Exch.Rate - Ref.Date	Value conversion from exp.invoice currency to bill	1	Inv.Release Date	Enter "0" for 'Inv.Milestone
23	Billing	Billable Block Hours	Exclude Engine Start to Taxi Out Time from Block Hou	2	Not Applicable	Enter "0" for 'Yes', "1" for 'No',
24	Billing	Flight Time for Std. Burn Rate	Aircraft Usage on which Std. Burn Rate to be applied	2	Not applicable	Enter "0" for 'Flight Hour', "1"
25	Billing	Fuel Consumption Rate	Rate reference for fuel consumption	3	Not applicable	Enter "0" for 'Flight Contract', "1"

Category: Billing
 Element: Flight Time for Std. Burn Rate
 Description: "- Aircraft Usage on which Std. Burn Rate to be applied "
 Values: Flight Hour/Block Hour/ Not Applicable

Billing based on Fuel Uplifts

Changes have been made to the **Fuel Oil uplift** and **Invoice Release** screens to address this feature. (See Exhibit 16)

Record Fuel / Oil Screen

'Fuel Uplift Details' - tab

The following controls are added in the 'Fuel Uplift Details' section:

- 1) Uplift From
- 2) Uplift for Internal Use
- 3) Uplift for Customer Use
- 4) Customer #
- 5) Usage Category
- 6) Remarks

Uplift From - Specifies from whom the uplift is taken from. It may be Internal Stock / Customer Stock / Supplier Stock.

Uplift for Internal Use - Specifies the uplift quantity used for Internal Use.

Uplift for Customer Use - Specifies the uplift quantity used for Customer Use.

Customer # - Specifies the customer # for whom the Uplift is used.

Usage Category - User defined category of the usage.

Remarks - Remarks if any, is mentioned here.

The following controls are modified in the 'Fuel Uplift Details' section:

- 1) Supplier # as 'Trading Partner #'.
- 2) Before Refuel as 'Qty. Before Refuel'.
- 3) Fuel Uplift as 'Uplift Qty'.
- 4) The adjacent control next to 'Fuel Uplift' is renamed as 'Tracking UOM'.
- 5) After Refuel as 'Qty. After Refuel'.

A specific tab page viz., 'Fuel Uplift Ref.' is enabled in the **Process Flight Invoice Release** screen (See *Exhibit 17*) to retrieve the required uplift documents. All the uplifts made from internal or supplier stock and used for customer reasons will be eligible for billing. After the required uplift details are saved, the summary of the same with regard to the number No. of Units of the fuel which has to be billed, Charge for ,Charge Type, Unit, Currency etc. against the respective billing head is reflected in the 'Operating Charges' section in the **Manage Flight Invoice Release** screen. The rate for the No. of Units consumed is retrieved from the Contract.

Exhibit 16:

Billing based on Fuel Uplift - Change Details

Fuel Uplift Screen

The screenshot shows the 'Fuel Uplift Screen' interface. At the top, there is a header 'Record Fuel / Oil Log' and a 'Date Format' label. The main area contains several input fields and dropdown menus. Two yellow callout boxes highlight specific changes:

- Controls modified:**
 - 1) Supplier # as Trading Partner #
 - 2) Before Refuel as Qty. Before Refuel
 - 3) Fuel Uplift as Uplift Qty.
 - 4) The adjacent control next to 'Fuel Uplift' is renamed as 'Tracking UOM'
 - 5) After Refuel as Qty. After Refuel
- Controls added:**
 - 1) Uplift From
 - 2) Uplift for Internal Use
 - 3) Uplift for Customer Use
 - 4) Customer #
 - 5) Usage Category
 - 6) Remarks

The form includes fields for 'Numbering Type', 'Invoice Document Type', 'Get Details' button, 'Station', 'Log #', 'Fuel Receipt #', 'Ground Consumption', 'Trading Partner #', 'Fuel Transfer Details', 'Uplift for Customer Use', 'Remarks', 'Fuel Type', 'On Arrival Fuel', 'Uplift From', 'Qty. After Refuel', 'Uplift for Internal Use', 'Usage Category', 'Tracking UOM', 'Qty. Before Refuel', 'Uplift Qty.', and 'Customer #'. There are also tabs for 'OI Uplift Details' and 'Fuel Uplift Details'.

Enhancement Notification

Exhibit 17:

Billing based on Fuel Uplift – Change Details

Manage Flight Invoice Screen

Manage Flight Invoice Release

Release Main Info.

Inv. Release #	FIR-000002-13	Billing Horizon	Multiple	Release Status	Fresh
Customer #	100001	Customer Name	Aviations & Co.	Contract #	contract-2
Charter Type	EMS	Charter Category		Billing Currency	CAD
Rel. Value (Billing Curr.)	40,900.00	Exchange Rate	1.00	Rel. Value (Base Curr.)	40,900.00

Main Info. | **Fixed Charges** | **Operating Charges** | **Crew Charges** | **Other Charges** | **Flight Sheet Ref.** | **Fuel Uplift Ref.** | **Charge Back Ref.** | **Exceptions**

Search for Uplift Logs

Aircraft: [Dropdown] Fuel Type: [Dropdown]
Uplift Location: [Dropdown] Add. Search: [Text]
 Display only search output

[Search]

Uplift Details

Fuel UOM

[No records to display]

#	I.	Fuel Type	A/C Reg. #	Usage Type	Usage Category	Usage Qty.	Already Billed	Pending Billing	Sys. Billable	Billable?	Billable Qty.	Uplift From	Uplift Qty.
1													

Added a new tab 'Fuel Uplift Ref.'
This tab can be visited only when fuel billing based on uplifts

WHAT IS NEW IN CUSTOMER ORDER MANAGEMENT WORKSPACE?

Refinements to Sales WorkSpace

Refinements to CO Management WorkSpace based on the actual usage pattern of CHI

Reference: AHBF-1364, AHBF-3702

Background

Studying the actual usage pattern of CHI, certain enhancements have been made to the **Customer Order Management WorkSpace** to improve the usability and for the better functionality of the screen. A commercial person who uses the screen needs to know all the Customer Orders that are ready to be closed. If the CO is not ready to be closed, the reason for the same is asked for. Similarly, provision to carry out the most important action of the commercial person, to approve a CO and create an execution document has been introduced.

Change Details

Changes in Manage Screen Defaults and Preferences:

A new Preference 'Work Center' has been added as a user preference based on which data in the workspace can be made visible.

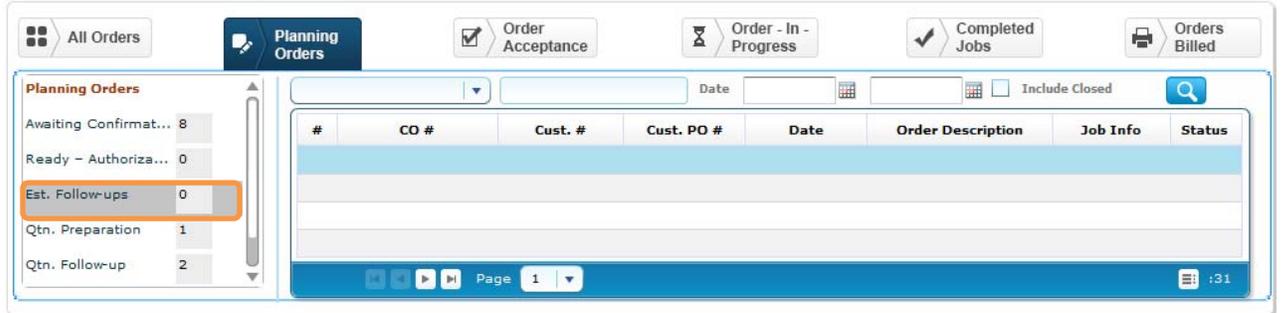
Exhibit –18

#	Defaults & Preference	Mandatory?	Permitted Value	Value	Status	Error Message
1	Customer Group	No	Please define valid customer groups.		Not Defined	
2	Order Applicability	No	Please define Order Applicability as Aircraft,Part,Others.		Not Defined	
3	Sale Type	No	Please define valid Sale types.		Not Defined	
4	Work center	No	Please define valid Work centers.		Not Defined	

Changes in Planning Orders bucket:

A new sub- bucket 'Est. Follow-ups' has been added in the 'Planning Orders' bucket. This sub bucket will have all the planning customer orders for which estimations are required, but are not released yet.

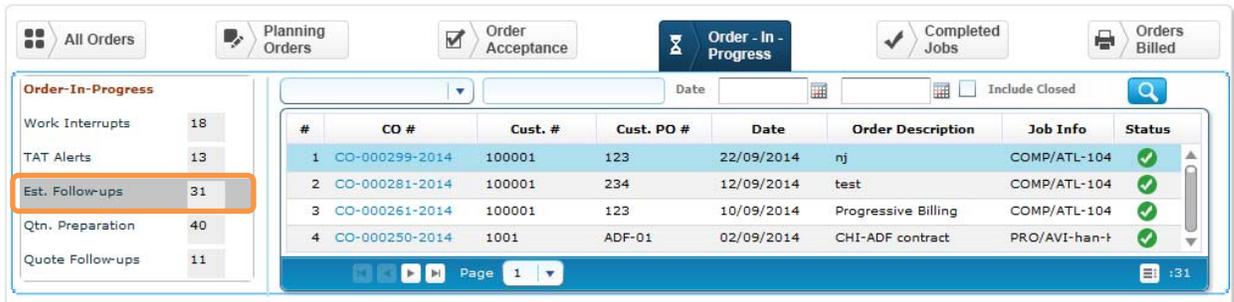
Exhibit- 19



Changes in Order-In-Progress bucket

A new sub-bucket 'Est. Follow-ups' has been added in the 'Order-In-Progress' bucket. This sub bucket will have all the firm customer orders for which estimations are required, but are not released yet.

Exhibit – 20



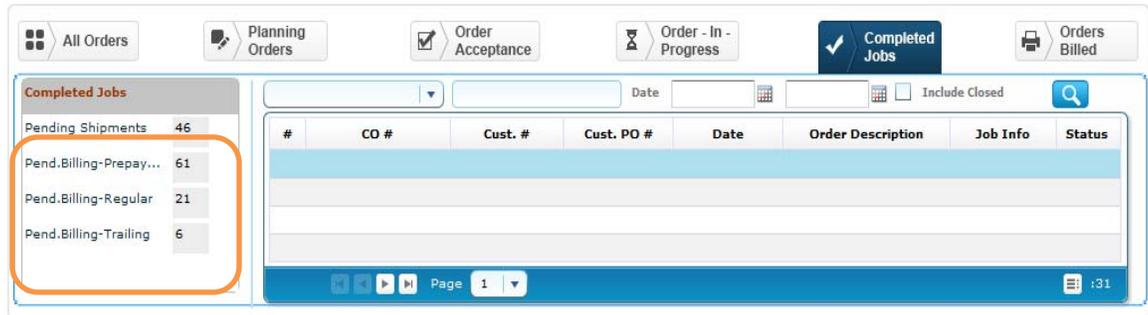
Changes in Completed Orders bucket:

The pending billing sub bucket is renamed as 'Pending Billing - Regular'

The following sub - buckets are added in the completed orders bucket.

1. **Pending Billing - Prepayment:** All COs for which prepayment milestone date is stamped but the finance invoice is not recorded in 'authorized' status will be displayed here
2. **Pending Billing- Trailing:** All Cos for which a regular invoice already exists in processed status and there are items still pending to be billed are displayed in this sub bucket

Exhibit – 21



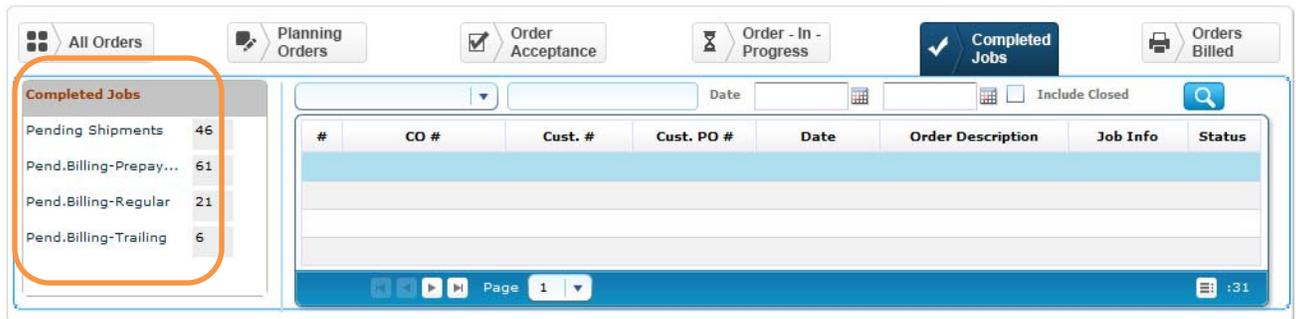
Changes in Orders Billed Bucket:

The Due and Overdue sub buckets are renamed as 'Payment Due' and 'Payment Overdue' respectively.

The following sub- buckets are added in the Orders Billed bucket.

1. **Ready for Closure** : All COs that satisfy all conditions for closure of CO but not closed yet are displayed
2. **Not Ready for Closure**: COs that cannot be closed due to various reasons should be retrieved in this sub bucket. When a particular CO is selected, the reason why it cannot be closed is displayed in the message center.

Exhibit-22



Enhancement Notification

Changes in the Multiline:

In the MI, the 'Job Type' column is renamed as 'Job Info.' and will now display **Job Type / Primary Work center**

Exhibit-23

#	CO #	Cust. #	Cust. PO #	Date	Order Description	Job Info	St...
1	CO-000233-2014	1001	CHI-PO-ADF-01	19/08/2014	Overseas Job under	PRO/YUL-175-08	✓
2	CO-000228-2014	CHI	SD	22/07/2014	DS	COMP/YUL-100-05	✓
3	CO-000228-2014	CHI	SD	22/07/2014	DS	COMP/YUL-100-05	✓
4	CO-000243-2013	CHI	CHI	03/12/2013	test ipad	ENG/YUL-100-00	✓

Page 1

Changes in Work Execution Details:

The first three rows of the Work execution details are modified and replaced with the following rows and values:

Job Location	Station/Primary Work Center
Job Info	Priority-Exe.Doc.#/Repair Process Code(Package Type)
Object Ref.	

Exhibit-24

Payment Due	6
Payment Overdue	11
Ready for closure	8
Not ready for closure	9

#	CO #	Cust. #	Cust. PO #	Date	Order Description	Job Info	Sta...
1	CO-000289-2014	100001	S	18/09/2014	Autogenerated from	COMP/CHI1	✓
2	CO-000275-2014	100001		11/09/2014	NEWRMCPRB-1	/ATL-104-05	✓
3	CO-000280-2014	100001	123	11/09/2014	JR,PRB	/ATL-104-05	✓
4	CO-000250-2013	100001	gh	04/12/2013	gfh	COMP/YEG-100-00	✓

Page 1

Customer Details # **CO-000280-2014** **Aviators & Co.** WE +7 863 200 19

Work Execution Details	Commercial Details
Job Location: Atlanta International/ATL-104-05	Invoice Basis: Quote
Job Info: Normal- VP-001020-2014 /Line Package	Order Value: Can\$ 0.00 Not Applicable
Object Ref.: VT-RMC / A310	Utilized Limit:
PDD / Proj.Comp.Date: - / 12 Sep 14	Upcoming Billing Milestone: Regular / Work Completion
Operational Approvals: None	Quote Approvals:
Shipment Ref.: Not Applicable	Warranty: No Billable: Yes Out-of-Scope Exists?: No

CO #""CO-000280-2014""cannot be closed as Pending items exists for invoicing

Changes in Message Center:

The Message is split into two, the first half displays the actual due /delay days and the second half displays the error messages.

In the first half, if the promised delivery date is greater than system date, due in (number of days) will be displayed. If the promised delivery date is earlier than system date, the delayed by (number of days) is displayed.

Exhibit- 25

Work Interrupts	18
TAT Alerts	13
Est. Follow-ups	31
Qtn. Preparation	40
Quote Follow-ups	11

#	CO #	Cust. #	Cust. PO #	Date	Order Description	Job Info	Status
1	CO-000233-2014	1001	CHI-PO-ADF-0	19/08/2014	Overseas Job under	PRO/YUL-175-08	✓
2	CO-000228-2014	CHI	SD	22/07/2014	DS	COMP/YUL-100-05	✓
3	CO-000228-2014	CHI	SD	22/07/2014	DS	COMP/YUL-100-05	✓
4	CO-000243-2013	CHI	CHI	03/12/2013	test ipad	ENG/YUL-100-00	✓

Page 1

Customer Details # **CO-000233-2014** **DONOVIA**

Work Execution Details	Commercial Details
Job Location: /YUL-175-08	Invoice Basis: Quote
Job Info: Normal- CWO-000623-2012 /Repair	Order Value: \$ 0.00 Not Applicable
Object Ref.:	Utilized Limit:
PDD / Proj.Comp.Date: 31 Aug 14 / -	Upcoming Billing Milestone: Regular / Work Completion
Operational Approvals: None	Quote Approvals:
Shipment Ref.: Not Applicable	Warranty: No Billable: Yes Out-of-Scope Exists?: No

Delayed by 24 day(s)



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