

Ramco Aviation Solution

Version 5.7.3

Enhancement Notification

Sales

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WHAT'S NEW IN CUSTOMER SERVICE ORDER?

Uploading customer supplied parts List

Reference: AHBF-6391

Background

Earlier, the list of spare parts that will be supplied by customer to the MRO to perform the maintenance work can be recorded in the **Customer** master or in the **Customer Contract**. During execution of the maintenance job, if the contract says that the customer supplied spare parts should be used, then this list is referred to raise and confirm MR. In numerous occasions, after customer order or package creation, customer supplies a bulk list of spare parts to be used. It would be cumbersome to amend the spare part list in Customer or Contract master every time a SWO/AME job requirement dictates new set of customer supplied parts. Hence, a provision is needed to dynamically upload a bulk list of customer supplied part list in Customer Order and create a part in part master if it is a new one. Also, for ease of usage, provision needed to fetch this part list while creating goods receipt document in stores.

Change Details

In the Customer Service Order Screen:

A new screen Maintain Customer Supplied Parts For Jobs added in Customer Service Order component.

User can choose a customer order and 'On Enter', Customer Information, Maintenance object details and Execution document details are shown in header.

The customer supplied spare part list can be:

- 1. Manually entered in the multiline (With or without Serial / Lot Details)
- 2. Or a set of parts can be uploaded using Bulk Upload utility.

Upon 'Save', the system performs two actions:

- 3. If the part being uploaded exists in the Part master, details are saved in Customer order.
- 4. If it is a new part, then the part master is updated with this new part information and then saved in the Customer order.

Part details in the multiline can also be given with task reference (Help enabled).

In Manage Good Receipt screen:

In this screen, when the Reference document is chosen as Customer Order and upon 'Go', the 'Part Details' tab multiline will be pre-loaded with the customer supplied part information as recorded in the Customer Order. This enables the store personnel to acknowledge the customer goods receipt against the part serial / serial / lot # details and confirm it.

Note: To enable usage of the customer supplied part list, in contract, option driving spare part consumption source should be set to pick customer parts based on customer supplied part list.

Exhibit 1:

Maintain Customer Supplied Parts screen

	Upload against a CO			
Maintain Customer Supplied Parts for Jo Customer Or er #p 20-000005-2015	bs x			× 🗏 🗲 🕻
Customer Info.	Exe. Doc. Info.		Maint. Object Details	
Customer # 100001	Exe. Orde	Type A/C Maint. Exe. Ref.	Aircraft Reg. # VT-RMC	
Customer Name DONAVIA	Exe. C	Irder # VP-001660-2015	Aircraft Model # A310	

Msg. Center Task # P Seq. # Part # P Mfr. Part # P Part Description Part Classifier Mfr. # P Mfr. Image: Center Image: Center 0.0120-3: 0.0120-3: 0.0120-3:0894 707516511 METALMTL Existing 36361 Image: Center Image: Center Image: Center 0.0120-3: 0.0120-3:0894 707516511 METALMTL Existing 36361 Image: Center 36361 Image: Center Image: Center Min: # J Mfr. # J Mfr. # J Mfr. # J Image: Center Mfr. # J J J J J J J J J J J J J J J J <tdj< th=""><th>All</th><th>🕼 🟥 🕶 🕒 📮 🖬 🛛 🖬</th><th>上 山</th><th></th><th></th><th></th><th>5</th><th>0 🖌 🝸</th><th>+ -</th><th>▶ ₩</th><th>1 - 4 / 4</th><th>4</th><th></th></tdj<>	All	🕼 🟥 🕶 🕒 📮 🖬 🛛 🖬	上 山				5	0 🖌 🝸	+ -	▶ ₩	1 - 4 / 4	4	
0.0120-3- 0.0120-3-0394 7075T6511 METALMTL Existing 36361 0.0000845- LUG Existing 36361 0.0120-3-0394 0.0120-3-0398 WIRE INTERCONNEC LECTMTL Existing 36361 0.0130-3- 0.0130-3-0038 WIRE INTERCONNEC LECTMTL Existing 36361 0.0130-3- 0.0130-3-1173 WIRE INTERCONNELECTMTL Existing 36361	Mfr. Serial # Mfr. Lot #	er Mfr. # 👂 Mfr. Serial # N	,	on	Part Descriptio	Mfr. Part # 🔎	Part # 🔎	Seq. #	Task # 🔎		Msg. Center	E	
Image: Constraint of the state of		36361	E	METALMTL	7075T6511	0-0120-3-0894	0-0120-3-						
Image: Constraint of the state of			E		LUG		0-0050845-						
0-0130-3- 0-0130-3-1173 WIRE INTERCONN ELECTMTL Existing 36361		36361	E	ONNEC ELECTM	WIRE INTERCO	0-0130-3-0038	0-0130-3-						
		36361	E	ONN ELECTMIL	WIRE INTERCO	0-0130-3-1173	0-0130-3-						
Seria	erial / Lot Info non- mandatory	Serial / Lot Info nor mandatory									<		

Exhibit 2:

Listing of Customer Supplied Parts in Goods Receipt screen

					CO selection	on v	voulo	l display the	part		Data I	ligration User - ABC Lim	ited . A	IBC Role
📃 Manage (Goods Receip	ot				li	st in	ML				×		¢ 🕻
Select Ref. Do	c. # / Receipt #													
 Receipt Detail Receipt Info. 	Ref. Document #	ף [פ	CO-00	0005-2015 × Cus omer	Order		▼ Go							
	Rei	ceipt #	New	Receipt 🔻		Re	eceipt Typ	e Customer Goods Red	eipt	Rece	eipt Status			
	Receipt	t Date	24/3	lan/2015 💼			Way Bill	#		Wa	y Bill Date			10
	Receipt I	Priority		V			Pack Slip	#		Pac	k Slip Date			矚
- Received At					— — Received From —					Ref. Doc. Info.				
	Receiving Lo	cation		T		Su	pplier # .		View	Ref.	Doc. # 👂	CO-000005-2015	V	iew
	Receiving Wareho	ouse #		T		Cus	tomer # .	100001	View	Ref.	Doc. Type	Customer Order		
	Receiving	g Area	T		Supplie	r / Cust	omer Nar	e DONAVIA		Ref. Doc	. Sub Type			
- Other Info -														
	Supplementar	y Info?				Work F	Requeste	?		Parts Qu	arantined?			
+ Additional De	tails													
Part Details	Serial/Lot Det	tails	Work	Requested - Customer Parts	Supplementary Info	Moven	nent Det	ails Reports						
et et 1 -	4/4 🕨 📂	÷	- 6	3 🛩 0 🛛 🛪 😨				۱ 🖌	9 x (2 🖱	X4 🕒 👎 🗮 📶 🗛		V		Q
# 🗆 NX7	INS PCT	HAZ	STK	Received Part # 🔑	Pending Qty	Qty	NON	lo. of Lots	Comments	Part Description	Materi	al Type	Stock	Status
1		A	A	0-0050845-1:5N9821	3.00		EA			LUG	Regula	r v	Custo	mer
2			A	0-0130-3-1173:36361	2.00		EA			WIRE INTERCONN ELECTMTL	Regula	r 🗸	Custo	mer
3	-8-		¢۵	0-0120-3-0894:36361	3.00		FT			7075T6511 METALMTL	Regula	r v	Custo	mer

WHAT'S NEW IN RESOURCE PRICING?

Resource Pricing Improvements

Reference: AHBF-5434

Background

Attendance Type based pricing

Earlier, for maintenance jobs, labor rates can be defined for normal time booking and overtime booking only. If the MRO wants to bill its customer with labour rates for other booking modes, it was not possible. Now, provision enabled to define labor rates based on attendance types and labor billing can be done based on those rates.

Slab based resource pricing

The resource rates linked to maintenance event in some of the MRO jobs are non-linear, meaning, single rate applicability may not be the case for so many hours of work done using that resource. For example, when a Forklift equipment is used, the usage rates for first hour may be 50\$ and after that for every half an hour the rates may jack up to 70\$. The current resource pricing model has been improvised to define resource rates based on usage slabs. Also, in quotation and billing, resource price representations have been improved to accommodate slab based prices.

Change details

Attendance Type based pricing

- i. In **Service Pricelist** component under 'Sales Setup', in the 'Resource Pricing' tab, columns capturing Normal and Overtime rates are now removed
- ii. New combo field 'Attendance Type' is introduced to allow user to define rates based on the mode of attendance

Based on the Attendance Type based rate definition, the pricing engine computes the labor price and represented in Quotation and Billing. Re-computation of prices triggered from Quotation and Invoice screens are also handled appropriately to support this functionality

Slab based resource pricing

In Service Pricelist's Resource Pricing tab,

a. New combo field is introduced to enable the user to choose if the pricing method is 'Direct' or 'Differential'.

b. New field 'Rate UOM' is introduced to choose an interval for a given UOM during which a particular rate will be applicable.

'Direct' Pricing Logic:

When user chooses pricing method as 'Direct', resource rates can be defined by giving 'Rate For' interval for a given 'Rate UOM' and defining Rates for that interval.

For Example, if for every 15 mins, Forklift usage rate is 40\$, then

Pricing Method = 'Direct'

Rate For = 15

Rate UOM = min

Rate / UOM = 40\$

Note - Valid Rate UOM for minutes is loaded in 'Rate UOM' field based on a new set option introduced in **Set Sales Process Parameters** screen.

Differential Pricing Logic:

When user chooses pricing method as 'Differential', new tab 'Differential Rates' will be used to define the slab rates for usage intervals.

Shown below are examples for different slab based pricing models:

Single / Flxed

 			Slab Type	: Single/ Pri	cing Type :	Fixed
Usage From	Usage to	Slab Type	Pricing Type	Base Rate	Rate For	Rate UOM
0	60	Single	Fixed 🔻	100	60	mins
60	75	Single	Fixed 🛛	30	15	mins
75	999999	Single	Fixed 🛛	40	15	mins
			•	_		
slab	Usage Time	Rate	Price			
slab 1	60	100*(60/60)	100			
slab 2	15	30*(15/15)	30]		
slab 3	20	40*(1+1)	80	1		
Tetel	05		210	1		

Time booked: 95 mins Price =Base Rate *N

where N = (Time booked/Rate for) If remainder =0 or N = {quotient of (Time booked/Rate for) +1 } If remainder =! 0

Single / Proportionate

Slab Type : Single/ Pricing Type : Proportionate

#	Usage From	Usage to	Slab Type	Pricing Type	Base Rate	Rate For	Rate UOM
1	0	60	Single	Proportionate 🔻	100	60	mins
2	60	75	Single	Proportionate 🔻	30	15	mins
3	75	999999	Single	Proportionate 🔻	40	15	mins

slab	Usage Tim	Rate	Price
slab 1	60	100*(60/60)	100
slab 2	15	30*(15/15)	30
slab 3	20	40*(20/15)	53.33333333
Total	95		183.3333333

Time		
booked:		
95 mins		
Price =Ba	ase Rate *	(Time
book	ed/Rate f	or)

Single + Recurring / Fixed

Slab Type : Single + recurring / Pricing Type : Fixed

#	Usage From	Usage to	Slab Type	Pricing Type	Base Rate	Rate For	Rate UOM
1	0	60	Single	Fixed 🛛	100	60	mins
2	60	75	Single	Fixed 🛛	30	15	mins
3	75	100	Recurring	Fixed 🛛 🔻	40	25	mins

slab	Usage Time	Rate	Price
slab 1	60	100*(60/60)	100
slab 2	15	30*(15/15)	30
slab 3	25	40*(25/25)	40
Slab 4	5	40*1	40
Total	105		210

Time booked: 105 mins Price =Base Rate *N where N = (Time booked/Rate for) If remainder =0 or N = {quotient of (Time booked/Rate for) +1 } If

remainder =! 0

Single + Recurring / Proportionate

Slab Type : Single + recurring / Pricing Type : Proportionate

#	Usage From	Usage to	Slab Type	Pricing Type	Base Rate	Rate For	Rate UOM
1	0	60	Single	Proportionate 🔻	100	60	mins
2	60	75	Single	Proportionate 🔻	30	15	mins
3	75	100	Recurring	Proportionate 🔻	40	25	mins

slab	Usage Time	Rate	Price
slab 1	60	100*(60/60)	100
slab 2	15	30*(15/15)	30
slab 3	25	40*(25/25)	40
Slab 4	5	40*(5/25)	8
Total	105		178

Time	
booked:	
95 mins	
Price =B	ase Rate * (Time
book	ed/Rate for)

Exhibit 1

Attendance Type based Resource Pricing

	Mana	ade Servic	e Pricelist									Data migration (ISEL - AD		
		Deisian Dat	aila											·•) [=	<u> </u>
- Ma	teria	i Pricing Det	dils	Dest Driveliet # 0							Description DDI ATD				
				Part Pricelist # 🏓	PPL-AIRCANADA-COMPONENT						Description PPL-AIR	CANADA COMPONENT			
				Effective till Date	31/Dec/2015										
	py fro)M ricing Details													
- o u	ICI F	icing Details	\$	Pricelist Catagory											
				-						- 1					
				Currency	CAD 🔻					Othe	r Currencies Not Ap	olicable 🔻			
			F	Price Factor Details ?	Not Required 🔹		N.L			- 11					
				Remarks			New	combo	o to	allow user	to select				
Res	ourc	e Pricing	Additional Task	Level Charges	Differential Rates			Att	ieno	dance Type					
	_	_													
		1 - 5 / 6		- 🛛 🛩 🔘	Q T 🕵			<u>ل</u> ا 🖌	5 ¥	< 🔀 📋 💴 🕒	🕂 🖻 💷 🛛 AL		Ŧ		Q
#		Resource	Туре	Resource # 🔎	Resource Description	Attendance Type		Rate UOM		Rate / UOM	Task Type	Repair Classification			
1		Skills	~	06	SHOP INSPECTION	Normal Time	~	Hour	v	200.00000000		v			~
2		Skills	~	09	AVIONIC ELECTR STAND	Normal Time	-	Hour	×	500.00000000		*			~
3		Skills	~	08	ELECTRICAL ACCESSORY	Normal Time		Hour	v	250.00000000		*			~
4		Skills	v	01	AIRCRAFT LINE MTCE	Normal Time	v	Hour	•	200.00000000		*			~
5		Skils	~	03	NON_DESTRUCTIVE TEST	Normal Time	~	Hour	v	100.00000000		•			~
		<													>

Exhibit 2

Option setting for UOM Code to denote resource consumption in minutes

	ect Par	rameter Details				
		Display Parameters for MRO Sa	iles 🔻			
ro	cess P	arameter List				
H	•	1 - 8 / 26 🕨 🗭 🕂 🗇 🔘). III () X (2 III () X		All
ŧ	2	Parameter for	Process Parameter	Aermitted Values	Value	Value Selected
	E	Service Pricelist	UOM Code to denote Resource Consumption in duration Minutes	Specify a Valid UOM code as defined in UOM		
	問	Customer Order – Services	Round off Factor - Rate	Specify the no. of decimals to be rounded off		
	包	Customer Order – Services	Exchange Rate Type for Sales	Specify a valid Exchange Rate Type defined in	CAD	CAD-Selling Rate
	10	Customer Order – Services	Auto-approval of Customer Order on Confirmation	Specify "0" for "Required" and "1" for "Not	1	Not Required
	司	Customer Order – Services	Inherit Taxes only in Commercial Invoice	Specify "0" for "Yes" and "1" for "No"	0	Yes
		Service Sale Quote	Modification to Quote Values in Invoice Release	Specify "0" for "Allowed" and "1" for "Not	0	Allowed
	E	Customer Order – Services	Status of CO auto generated based on General Contract	Specify "0" for "Fresh", "1" for "Confirmed"	2	Approved
	E	Customer Order – Services	Status of auto-generated Customer Orders	Specify "0" for "Fresh", "1" for "Confirmed"	2	Approved

Record Statistics

Exhibit 3

Slab based Resource Pricing - Resource Pricing tab

	Manage	Service Pricelist								
+ Co	py from her Pricin	g Details								
		Pricelist	Category							
			Currency USD V					Oth		rice T
		Price Factor	Details ? Not Required	•		Now field	to oplo	ot Drioino	+ h	od
			Remarks			new neid	to sele	ci Pricing	meun	ioa
Res	ource Pr	icing Additional Task Level Cha	arges Differential Ra	ates						
-	◀ 10	- 11 / 11 🕨 🗭 🕂 🗖 🗇	F 0 0 T 5		\sim	L 🗉 🗊	x G	🖹 🔀 🕒	# #	i Oli Ali
#	🖹 lass	ification	Exe. Phase	Attendance Type	Pricing Method	Rate f	or	Rate UOM	R	ate / UOM
10		*	*	Normal Time	Direct	~	1	Hour	× '	60.00000000
11	1	*	*	Overtime	✓ Differential	×v			~	
12	1	*	*		~	~			~	
					Differential					
					Direct					
		<								
		<								<u></u>

Exhibit 4

Slab based Resource Pricing - Differential Rate tab



WHAT'S NEW IN WORK REPORTING?

Ability to modify aircraft tail # in a package

Reference: AHBF-6251

Background

Flight Operators involve long-term schedule management and day-wise movement management of aircrafts. During this process aircraft tail number is assigned to a flight code. This day-wise planning information, is sent to the MRO service provider. For the given tail number, the service provider creates a package and plans the GH and maintenance activities. When the aircraft is about to take off, owing to reasons like AOG, different tail number might get assigned to the Flight Code. On arrival of the aircraft, as the tail number change is notified, the service provider has to now change the tail number in the already created package.

Change details

Review Work Execution and Report Actuals screen

An edit icon is added adjacent to Maint. Obj. control (Exhibit 1). On click of this icon, a pop up screen is launched where the user can modify the Aircraft Reg. # (Exhibit 2). When the 'Save' icon in the pop up window is clicked after editing, the pop up screen disappears and the latest tail number is displayed in Maint. Obj. control (Exhibit 3).

Conditions under which tail # change is allowed:

- If the A/c Reg # with same owning agency and Contract and Rev. # is available for the CO# with packages in fresh will be allowed to do tail # change
- If the Contract Details are modified then user is not allowed to modify the New A/C Reg #.

Set Options:

In **Define Process Entities** activity, a new set option is added against the Entity: Package Type and Specific package type: 'Allow Aircraft Reg. # change after package creation?'

If the option is set as allowed then the user will be allowed to update the tail number against the CO# and package.

Behavior of tasks / discrepancy that are specific to aircraft tails:

On update of new A/C Reg # the existing task will get cancelled and task will be loaded with the new Tail #. Discrepancy tasks will not get copied. And the task which is mapped to tail # will not be copied to the newly assigned tail

Exhibit 1:

Review Work Execution and Report Actuals screen

Review Work Execution and Report Actuals		
Customer Order Work Order AME Select Ref. Doc. # CO-000002-2015 X Select Exe. Document Exe. Doc. # Exe. Doc. #	Customer Order # / Name CO-000002-2015 / COLUMBIA HELICOPTERS Maint. Obj.	A new edit option to modify Aircraft Reg. # when a package is in 'Fresh' status.
VP-001652-2015 V X + Select Tasks	A320 / C-FDQQ	2015/01/09 : 2015/01/09
Task Details Image: State of the state		
# A TS HS ES Task # Task Desi 1 B	c. Tracking # Seq. # Rev. # Act. St. Date	e / Time Act. End Date / Time Exec. Action
<		>
	Release Update Task Status	

Exhibit 2:

New option to Edit and save Aircraft Reg #

Customer Order Work Order AME				
Select Ref. Document	Customer Order # /	Name	Location	
CO-000002-2015	CO-000002-2015	/ COLUMBIA HELICOPTERS		
Select Exe. Document Exe. Doc. #	Maint, Obj.		Plan / Actual Date	
VP-001652-2015 💌 🕨 🗶	A320 / C-FDQQ	1	2015/01/09 : 2015/01/09	
Select Tasks		Modify Aircraft Reg. #		X
Task Details		New Aircraft	Reg. # <mark>P</mark>	
🔫 💽 [No records to display] 🕞 🕨		vt-rmc	1999 (VIII)	T
# 🗏 M TS HS ES Task # Tas	sk Desc. Tra		_	Exec. Action
1 🗇				~
			Save	
	C			
<				>

Post event update of work actuals for aircraft jobs

References: AHBF-5849

Background

The activity, **Review Work Execution and Report Actuals** in a single interface enables the commercial personnel to report work actuals and record closure of tasks. For aircraft maintenance jobs that are carried out in remote locations, the work actual details like part consumption and timesheet details are recorded in excel sheets and sent at frequent intervals to the main base. This screen enables the commercial personnel in the main base to upload such information into the system and allows the release of the tasks for execution as well update the status of such tasks. The panel in the right of the screen displays links that enable you to manage the next possible action as per the document status.

This activity is enabled only for those users who possess the relevant access rights. The set option in the contract enables to control the access to this page by the commercial personnel. Hence provision should be given to report work actuals and record closure of tasks as post event. In continuation with this, the need for the provision to raise a bill every time a task is closed also arises. This provision to progressively bill for the overseas service provided has also been introduced.

Change details

Sale Contract:

Option Settings: Parameters that drive the overseas project work order functionality have been added under the **Edit Terms of Execution** page in the **Sale Contract** business component. (Exhibit 1)

i. **Work Reporting by a Commercials Role** - This will have the following values 'Allowed' or 'Not Allowed'.

If the option is selected as 'Allowed', access rights will be provided to the Commercials person to review and report the work actuals against a Customer Order referring to the Contract.

If the option is selected as 'Not Allowed', then access rights will not be provided to the Commercials person to review and report the work actuals against a Customer Order referring to the Contract.

ii. Allow Time Reporting by Other Employees? - This will have the following values 'Yes' and 'No'.

If the option is selected as 'Yes', then the timesheet for an employee who is working on a remote location can be reported by another individual. If the option is selected as 'No', the timesheet on behalf of another employee cannot be reported.

iii. **Progressive Billing on Task Closure** - This will have the following values 'Allowed' or 'Not Allowed'.

A new parameter 'Progressive Billing on Task Closure' is added in the "Operational Parameter" tab of the **Sale Contract** business component. If this is set as 'Allowed', the user will be able to raise a regular bill on closure of each task in the WO. If the option is "Not Allowed", then only on work completion will a regular bill be able to be raised. (Exhibit 2)

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

Invoice and Payment Tab:

A new value 'Task Closure' is included as an Invoicing Event. This invoicing event is applicable only for regular invoices. Only if progressive billing is set as 'Allowed', task closure can be set as an invoicing event. When billing is based on task closure, invoice release has to be set up manually. (Exhibit 3)

Customer Service Order:

Initially the work scope items that need to be carried out on a maintenance object will be added from the **Customer Order** screen and this information will be flown to the execution document. But once the execution document is generated, if any additional work requested by the commercial person is added inside the customer order, then this information was not flowing to the execution document.

Now this has been addressed as the work that can be reported by both the Commercials and Execution roles using the screen **Review Work Execution and Report Actuals**. Hence if any additional work is requested from the Customer Order post execution document generation, then this information (Task #) will be added to the work execution document. (Exhibit 4)

In order to control the access rights to the **Review Work Execution** page by the commercials role through an option setting in the contract and to facilitate navigation to that page from the **Customer Order** screens, a link named **Review Work Execution and Report Actuals** is added. This link is also added in the **Approve / Close Customer Order** screen. (Exhibit 5 & 6)

Billing and Warranty Tab:

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 will be displayed in this column. (Exhibit 7)

Review Work Execution and Report Actuals:

In the current framework of **Manage Work Assignments and Reporting** screen, access rights are given to both shop work order and aircraft execution documents. In some cases, the mechanic wrongly records the work information against Also in **Record Shop Execution Details** or **Aircraft Maintenance Execution** screen, the user has to traverse to many screens to report the work information. Hence there is a need to develop a simplified screen where in all the work information can be reported in one single page and also the review of work is possible. Based on the access rights provided, this screen is made available to both Commercial role and as well as Execution role. This screen is useful for those customers who report their work actuals as a post event.

For Example: Work actuals are sometimes reported after the work is completed, in which case, this new screen can be looked up as a hub page from where all the traversals can be made to the relevant pages. The links in this page are also enabled dynamically based on the possible actions.

This screen can be launched from left pane also and hence access rights have been managed for the user using the three toggle buttons namely, Customer Order, Work Order and AME. The 'Customer Order' toggle button will be enabled, only when the Customer Order - Services component is deployed in that instance. Similarly, if the Shop Work Order component is deployed in that instance and if the login user has the access rights to **Record Shop Execution Details** page, the 'Work Order' toggle button will be enabled. If the AME component is deployed in that instance and if the login user has the access rights to **Aircraft Maintenance Execution** page, the 'AME' toggle button will be enabled. (Exhibit 8)

Also, the user can work with those documents to which he has the access rights to the Primary Work Center. Search is also enabled based on Customer Order, Shop Work Order and AME. Appropriate help page will be launched by selecting the toggle button. If the user directly enters a valid document in the 'Ref. Doc #' control, we should be able to back default the toggle button with that document type. For example: if the user directly types a valid AME #, then we should default the toggle button on 'AME' even if it is defaulted in any other document type. (Exhibit 8)

The possible actions that the user can perform in this screen is, he can release the jobs for execution, record part consumption, perform timesheet booking or report discrepancies and so on, by visiting the appropriate link pages provided under the 'Links' and 'Task Details' section. Based on the type and status of the execution document, the appropriate links get displayed in the 'Links' section. The task statuses can be managed by selecting the execution action such as Complete / Pre-Close / Close and Cancel. Also, execution document level based release, completion and closure can be performed using this screen. (Exhibit 9)

Record Work Estimates:

A new validation has been introduced to restrict the estimation/modification to estimations against tasks which are closed and invoiced.

Sale Quotation:

Two new controls 'Invoiced?' and 'Release #' are added in the multiline in the 'Reg. Info' tab. The 'Invoiced?' column will display either 'Yes' or 'No' depending on whether the task these work orders.

is invoiced or not. If the task is invoiced, then the corresponding invoice release # will be displayed in the release # column and the hyperlink on the value will take the user to the invoice release screen. (Exhibit 10)

Invoice Release:

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. (Exhibit 11)

A new column 'RTB Analysis' is added in the ML in the 'Reg. Billing Info' tab. In this task will be displayed the 'ready to bill' analysis against each task. This information was earlier shown at an invoice release level as header information. (Exhibit 12)

Exhibit 1:

Changes made in Edit Terms of Execution screen - Option setting for Time reporting

lain	Cont	ract Details												
		Contract #	/Rev. # MOROCCO/1			Contract Type	e Customer Specific			Contract Status	Fresh			
		Contract (Category		Sele Type T&M					Contract Date	01/08/2014			
		Cus	itomer # CHI		Customer Name COLUMBIA HELICOPTERS					Currency	CAD			
		Effect	tive from 01/08/2014			Effective to	0			User Status				
_														
e	ratio	nal Parameters	Permitted Work Delays P	art Handling Details Cus	tomer Supplied Pa	rts								
	4	13 - 22 / 22		0075			1. L U	x 🕫 🖆 🗷 🕒		AI	Ŧ			
	8	Category	Element	Description		Value	Keive Selected	Remaitted Values	_					
	13	Commercials	Rnv. from A/C Info.	Rmv. from Aircraft Info. fo	Ontion o	otting o	ddod to 'All	ow Mork	1" for 'Not Rec	quired				
	10	Execution	Deviation	Usage of Deviated Parts	Options	etting a	ting added to Allow Work			'Not Allowed', '2' for 'Allowed with Approval'				
	Ð	Execution	PMA Usage	Usage of PMA Parts	Reportin	g by Co	ommercials	and Time	(" for 'Any PMA Part Allowed', and "2" for 'Allowed with Appro					
	13	Execution	PMA Preference	PMA Part Preference	Reportin	a by O	ther Employ	ees'	L' for 'Not Pref	erred				
	E	Finance	Cost Center	Revenue/Cost Assigning Le	Roportin	9 0 0	unor Employ	000	'1' for 'Order	Level CC'				
		Logistics	Auto Authorization of RO	Auto Authorization of RO of	n Custome		Allowed	Enter "0" for 'Allowed' and	"1" for Not Allow	wed.				
		Logistics	Manual Authorization of RO	Nanual Authorization	mang Clistomer	D	Allowed	Enter "0" for 'Allowed' and	i "1" for 'Not Allov	veđ.				
		Commercials	Progressive Billing	Devenue Billing on Task of	losure	0	Allowed	Enter '0' for 'Allowed' , '1'	for 'Not allowed'					
	-	Commercials	Work Reporting	Work Reporting by a Comm	ercials Role	D Allowed Enter '0' for 'Allowed', '1' for 'Not Allowed'.								
	10		Troacheat Reporting	Allow Time Reporting by Oth	0	Yes	Enter "0" for 'Yes' and "1"	for 'No'.						
	8	Execution	Threat ee chep of any											

Exhibit 2:

Changes made in **Edit Terms of Execution** screen - Option setting for Progressive Billing

	E	dit Terms of Exec	ution				× =	9
Op	ratio	nal Parameters	Permitted Work Delays	Part Handling Details Customer Supplier	d Parts			
-	4	13 - 22 / 22 🕟 🛛		0 9 7 12			KI 🕄 🖶 🛥 💷 🔺	Q
#		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 wit	h
15		Execution	PMA Usage	Usage of PMA Parts	1	Any PNA 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	-			······································	2		CALINE AND A LINE ALL ALL A	-
20	8	Commercials	Progressive Billing	Progressive Billing on Task dosure	0	Allowed	Enter '0' for 'Allowed' , '1' for 'Not allowed'	
21		Lommercas	Work Reporting	Work Reporting by a Commercials Role			Enter '0' for Alowed', '1' for Not Alowed'.	
22		Execution	Timesheet Reporting	Allow Time Reporting by Other Employees?			Enter "0" for 'Yes' and "1" for 'No'.	

Exhibit 3:

Changes made in Edit Pricing and Invoicing Details screen

Edit Pr	cing and Invok	ing Details								× = 0
	Contract # / Rev.	≠ pb-001/0			Contract	Type Customer Spe	edfic		Contract Status Approved	l i i i i i i i i i i i i i i i i i i i
	Contract Catago	y			Sale	Тура Т&М			Contract Data 01/07/201	14
	Customer	# 100001			Customer 1	Name DONAVIA			Currency CAD	
	Effective fro	02/07/2014			Effecti	ive to			User Status	
Std. & T&M Prid	ng Fixed Pricing	UB Pricing	UB Rev. Reco	g. Mat. Pricing Caps	Res. Pricing Caps	Ext. Ser. Caps	Inv. & Payment	T/C/D		
	Sale Type	там	7		Pricing Basis	T & M	Ŧ		Remarks	\$
el el 1 - 7	/ 2 🕩 🕪 🕂	- 8 2 (8 20 C .	≥ III N	Q. V
# 🗇 inv. 1	ype In	v. Category	Invoi	ing Event	Event Description		Bil Prior to (Da	(2)	Triggering Task 👂	Basis - Regular
1 🗇 Regul	r 🔻 RE	8	👻 Work	Completion	*					Quote
2 🖾 Regul	r 🔻 RE	6	v Task (losure	Ŧ					Quote
3	*		Y Tack	Initiation						
			Task	Completion						
			Task	, Closure	-					1
- Auto Set-Up	ption for Regular	TUNOICE	Wat	Completion						
F	el, prep, before Eve	1? Not Allowed		Ŧ	Set-up of Invoice Rel	esse Automatic	Ŧ		Release of RTB Invoice Manual	Y
	Set-up of Cust. Invo	ce Manual		Y	_					

Exhibit 4:

Changes made in Manage Customer Order screen

	Man	age Customer Order	Warrarity Requested 📰			Warranty Notes	× 8 0
Excel, 1	infe.						
	0	urrent Repair Process Code	INSPECTION				
Ins	ie Det	ab					
46	4	1 -3/3 🕨 🛤		T S			
-	n.	Task # P	Task Description	WBS Code	Notes		
1	8	01-ACC-X00-00-000610	ACCEPT CHECK	1-PME		Additional work requested – Auto flow to	
2	15	01-400-00-000626	ACCEPT CHECK	1440		work execution document	
3	11	00-00-036	inspectionin	1-FME			
					_		
					587	View Task	
			Confirm			Cancel	

Exhibit 5:

Changes made in Manage Customer Order screen – Link enabled

E.	Mi	anage Customer	Order							× 🗐
		Expected Receipt	t Date	10						
	4	1 -1/1 💌				8 D 9 K		a 🖩 🖬		
*		Part # P	Nfr, Part # 🔎	Mfr. # 🔑	Part Description	Stock Status	Part Senal # 👂	Part MISN 🔎	Mfr. Lot # P	Qty.
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		COAE	totsts? NO		and Report Work Actua	als				
				Confirm				Cancel		
100		Manage Order Execution			Wew Par	ts Information			Manag	e Exchange Order

Exhibit 6:

Changes made in Approve / Close Customer Order screen

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	8	00-000107-2014	1	PWO	27/08/2014	Approved	Parts	Others	сні	COLUMB	IAHELICOPTERS	PWO-DEErgtre		DMUSER	Manual
	8	00-000108-2014	1	MOROCCO TEST	27/08/2014	Processed	Parts	Othera	CHE	COLUMB	IA HELICOPTERS	464646546566368465		DMUSER	Manual
	8	00-000110-2014	0	abc	27/08/2014	American	Darte	Others	400007	ATD CAR	ADA	POA-000234-2014		DMUSER	Manual
		00-000111-2014	0	rgtgtd	27/08/201	Link odd	od to Douio		ocution		IAHELICOPTERS	515312135151		DMUSER	Manual
	8	00-000103-2014	1	Project Work Order	26/08/201	Link add	ed to Revie		ecution		IAHELICOPTERS	PWOOIT		DMUSER.	Manual
		00-000103-2014	Z	Project Work Order	26/06/201	and Rep	ort Work Ac	tuals			IAHELICOPTERS	PWOOIT		DMUSER	Manual
	8	00-000104-2014	0	MOROCCO T	26/08/201-						IA HELICOPTERS	8465165		DMUSER	Manual
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		Approve					a	ose / Short Close				Cancel	Exe. Doc.		

Exhibit 7:

Changes made in Manage Order Execution screen

			Sale Type PP			Order P	riority priority		F	Primary Wo	k Center 100		
		Ord	er Category Repeir			Primary Part Group							
der E	Sxecu	tion Details	Billing & Warranty	Cust. Corresponden	ce Work Execution	Invoice Histor	ry Shipping Details						
		We	rranty Resolution		Ψ.			We	arranty Notes				
C. Marco	- Deci	Wa	rranty Resolution		Ŧ			10/2	arranty Notes				
Billin	g Del	Wa	rranty Resolution		Y			104	arranty Notes				
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Exhibit 8:

Review Work Execution and Report Actuals screen

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Select Tasks Select	VP-0	01002-2014	- F	×	A310 / VT-RUNC				Docum	ent level Releas	e/		Work Execution
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Exhibit 9:

Changes made in Manage Sale Quotation screen

Manage	Sale Quo	tation											* ×	8
in Info. Rei	l. Info.	Materials	Resources	Ext. Services	Direct Qt. Info	Addl. Charges	CO T/C/D	CO Maint, Obj.	Pricing Summary					
Quote Summa	ny													
	T&MPr	ce - Mat 🛛	1.00			T & M Pr	ice - Lab. 0.00			т	8. M Price - Oth. Re	s, 24,000.00		
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	Fixed P	rice Total	0.00			Basic	Qt. Value 24,0	00.00						
Search Filters										- Estd. T	asks			
	s	earch By		Ŧ		Show Qt	Approved Test			Get Re	vision Info. 3 OF	3		
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E New				Shop Work Ord	er CWO-000484-20	12 Shop Work	Order	CWO-00046	84-2012 Planned					RECUR
E New				Shop Work Ord	er CWO-000484-20	012 Shop Work	Order	CWO-0004	4-2012 Planned					RESTO
8														

Exhibit 11:

Changes made in Manage Invoice Release screen

Manage Invoice Rele	ase									- ×	: 🖷 :	2
- Release Main Info.												
Oust. Order # / Rel	# CO-000102-2014/1			Inv. R	el. Readness Rea	ty To Bill		R	elease Status P	rocessed		
Custome	r# 100001			Cu	atomer Name DON	AVEA			Carrency 0	AD		
Sale Type / Pricing Br	ssis T & M/TM			Pend	i. Rel. Extets? No							
Basic Va	lue 140,000.00			Ord	er Level TCDs 8,50	0.00			Total Value 1	48,500.00		
Exchange R	ate 1.00000			Total Value	(Base Curr.) 148,	500.00						
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Manage Invoice Rel	ease										💌 🗐 🖉 🕻
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iii 🧰 CO-000102-2014	Current	Ref. Details	10								^
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	3 🗉										

WHAT'S NEW IN INVOICE REPORTS?

Flight invoice reports – summary and detail level

Reference: 5192 / 5337

Background

In Flight chartering, the charter company may need to extract and send periodical invoice reports to its customers. Customers may need to review various charges incurred in their flight journeys and associated activities over a given period of time. To accommodate this requirement, ability to generate and print summary and detailed level reports are provided in **Customer Invoice** component. Summary Level report will give high level invoice details at billing head level. Detail Report will give the breakup of these billing heads under which customer is billed.

Change details

Invoice report can be generated from the following path:

Receivables Management \rightarrow EDK – Reports Receivable Management \rightarrow Print Invoice

In **Print Invoice** screen, 'Invoice Type' loading logic has been changed as follows:

- 1. 'Customer Miscellaneous Invoice' renamed as 'Cust. Misc. Inv. Direct'
- 2. New value loaded 'Cust. Misc. Inv. Flight Contract Based'

When the Invoice Type is loaded as 'Cust.Misc.Inv. - Flight Contract Based', 'Report Option' should be loaded with the following values in the same order as given below:

- 1. Summary Report
- 2. Summary and Detail Report
- 3. Detail Report

Exhibit 1:

Invoice Type Loading Logic



Exhibit 3:

Sample Summary Report

When 'Report Option' is chosen as 'Summary Report' and Upon Print, Summary level report will be generated. Sample Report shown below:

¢c	ustomer Address	FI	ight Invoice	Invoice No: Invoice Date: Currency: Pay Term:	FLT-000122-2014 5-Mar-14 USD 30 days	
Contract #	Billing Horizon	Billing Head(s)	Qty.	Unit	Rate	Amount
Contract 1	1-Jan-14 / 31-Dec-14	Mobilization Fee		One Time		100,000.00
Contract 1	1-Jan-14 / 31-Jan-14	Flying Hours (In Dec.)	50.00	Per Block Hour	1,500.00	75,000.00
Contract 1	1-Jan-14/31-Jan-14	Idle Time charges	25.00	Per Hour	800.00	20,000.00
Contract 2	1-Jan-14 / 31-Jan-14	Landing Fee - Exp. Chg. Back				5,500.00
Contract 2	1-Jan-14 / 31-Jan-14	Internet charges	20.00	Per Ping	50.00	1,000.00
Contract 2	1-Jan-14 / 31-Jan-14	Standing Fee	0.95	Per Month	100,000.00	95,000.00
Contract 2	Not Applicable	Fuel Uplift	20.00	EA	500.00	10,000.00
Contract 3	1-Jan-14 / 31-Jan-14	Flying Hours (In Dec.)	100.00	Per Block Hour	1,000.00	100,000.00
Contract 3	1-Jan-14 / 31-Jan-14	Fuel	35.00	Per Block Hour	1,000.00	35,000.00
Contract 4	1-Jan-14 / 31-Jan-14	Crew - Food Expenses	12.00	Per Day	100.00	1,200.00
Contract 4	1-Jan-14 / 31-Jan-14	Timber Logging	15.00	Per Lift	1,500.00	22,500.00
Contract 4	1-Jan-14 / 31-Jan-14	Passenger Handling Fee	30.00	No.of PAX	200.00	6,000.00
	Basic Amount					471,200.00
	12% Service tax on Passenger Ha	ndling Fee				720.00
	Total Amount					471,920.00
Comments	:	ur Lakn Seventy Une Tho	usana Nine nundre	a and Twenty only.		
			[C	ompany's Logo	
REMITTANCE	ADVICE		\overline{c}	Invoice No :	FLT-000122-2014	
PLEASE RETU	JRN THIS FORM WITH PAYM	IENT		Invoice Date :	5-Mar-14	
Bank Na Bank A/O	ame: BMO CAD CHEQUE			Pay Term : Due Date : Total Amount :	30 days 4-Apr-14 426,920.00	
· · ·				Adjusted Amount :	0.00	
)	l	Net Amount :	426,920.00	J
				Currency :	USD	
Date of Report g <21/01/2013>	enerated Time of Report ger <09:37:17 AM>	erated		Page	e <current #=""> of <total #=""></total></current>	

Exhibit 4:

Sample Detailed Report

When 'Report Option' is chosen as 'Detailed Report' and Upon Print, Detailed level report will be generated. Sample Report shown below:

Compar	ny Logo)				Company's	Name and Addr	ess
	Customer Address		Invoice No: Invoice Date: Currency: Pay Term:	FLT-000122-20 5-Mar-14 USD 30 days	14			
Mobilization Fee				1				
Contract #		Date	Ref Doc No.	Ref. Details	Qty.	Unit	Rate	Amount
Contract 1						One Time		200,000,00
Contract 2						One fille	Total Amount	300.000.00
	_							
Demobilization Fee								
Contract #		Date	Ref Doc No.	Ref. Details	Qty.	Unit	Rate	Amount
Contract 1						One Time		100,000.00
CONTRACT 2						Une Time	Total Amount	300,000,00
	_							
Standing Fee								
Contract #		Date	Ref Doc No.	Ref. Details	Qty.	Unit	Rate	Amount
Contract 1					0.95	Per Month	100,000.00	95,000.00
Contract 2					0.95	Per Month	100,000.00 Total Amount	95,000.00
	7							
Flying Hours							-	
Contract #		Date	Ref Doc No.	Ref. Details	Qty.	Unit	Rate	Amount
Contract 2					10	Block Hour	500	0000
Contract 3					20	Flight Hour	500	10000
							Total Amount	24,500.00
Fuel	7							
Contract #		Date	Ref Doc No.	Ref. Details	Qty.	Unit	Rate	Amount
Contract 1					85	Per Litre	1500	127,500.0
Contract 2					17	Block Hour	1000	1700
Contract 2					130	FΔ	700	9100
Contract 2					100	10	Total Amount	2,41,500.00
Timbert	7							
Timber Logging		Data	Bef Dec Ne	Ref Details	0.	11-14	Dete	A
Contract #		Date	Ref Doc No.	Ret. Details	Qty.	Unit	Kate	Amount 20,000,0
Contract 2					10	Per Lift	1000	1000
			·				Total Amount	30,000.0
Idle Time Charges	7							
Contract #		Date	Ref Dec No	Ref Details	Oby	Unit	Pate	Amount
Contract 1		Dute	NEI DOC NO.	nci, Details	3	Per Hour	800	2,400.0
Contract 2					5	Per Hour	900	450
							Total Amount	6,900.0
les des Cherr	7							
Landing Charges		Data	Ref Dec Ne	Baf Dataila	0	11-14	Bata	A
Contract #	+	Date	Rei Docivo.	Nel: Detalis	<u>u</u> uy.	Per Landing Cycle	500	2 500 0
Contract 2					5	Per Landing Cycle	500	2,000.0
			•	•			Total Amount	5,000.0

culturing citatges							
Contract #	Date	Ref Doc No.	Ref. Details	Qty.	Unit	Rate	Amount
Contract 1				5	Per Landing Cycle	500	2,500.00
Contract 2				5	Per Landing Cycle	500	2500
						Total Amount	5,000.00
Comunication							
Conveyance	0	D-CDN-	Def Details	0.5	11-14	D -1-	
Contract #	Date	KET DOC NO.	Ket. Details	Uty.	Unit	Kate	Amount
Contract 1				5	Days	200	1,000.00
Contract 2				10	Days	200	2000
						I otal Amount	3,000.00
Food							
Food Contract #	Date	Ref Doc No.	Ref. Details	Qty.	Unit	Rate	Amount
Food Contract # Contract 1	Date	Ref Doc No.	Ref. Details	Qty.	Unit One Time	Rate 1500	Amount 1,500.00
Food Contract # Contract 1 Contract 2	Date	Ref Doc No.	Ref. Details	Qty.	Unit One Time One Time	Rate 1500 1500	Amount 1,500.00 3000
Food Contract # Contract 1 Contract 2	Date	Ref Doc No.	Ref. Details	Qty. 1 2	Unit One Time One Time	Rate 1500 1500 Total Amount	Amount 1,500.00 3000 4,500.00
Food Contract # Contract 1 Contract 2	Date	Ref Doc No.	Ref. Details	Qty. 1 2	Unit One Time One Time	Rate 1500 1500 Total Amount	Amount 1,500.00 3000 4,500.00
Food Contract # Contract 1 Contract 2	Date	Ref Doc No.	Ref. Details	Qty. 1 2	Unit One Time One Time	Rate 1500 1500 Total Amount	Amount 1,500.00 3000 4,500.00
Food Contract # Contract 1 Contract 2	Date	Ref Doc No.	Ref. Details	Qty. 1 2	Unit One Time One Time	Rate 1500 1500 Total Amount	Amount 1,500.00 3000 4,500.00
Food Contract # Contract 1 Contract 2 Internet Charges Contract #	Date	Ref Doc No.	Ref. Details	Qty. 1 2 Qty.	Unit One Time One Time Unit	Rate 1500 1500 Total Amount Rate	Amount 1,500.00 3000 4,500.00
Food Contract # Contract 1 Contract 2 Internet Charges Contract # Contract 1	Date Date	Ref Doc No.	Ref. Details	Qty. 1 2 Qty. 20	Unit One Time One Time Unit Per Ping	Rate 1500 1500 Total Amount Rate 50	Amount 1,500.00 3000 4,500.00 Amount 1,000.00
Food Contract # Contract 1 Contract 2 Internet Charges Contract # Contract 1 Contract 1	Date Date	Ref Doc No.	Ref. Details	Qty. 1 2 Qty. 20 10	Unit One Time One Time Unit Per Ping Per Ping	Rate 1500 1500 Total Amount Rate 50 50	Amount 1,500.00 3000 4,500.00 Amount 1,000.00 500
Food Contract # Contract 1 Contract 2 Internet Charges Contract # Contract 1 Contract 2	Date Date	Ref Doc No. Ref Doc No.	Ref. Details	Qty. 1 2 Qty. 20 10	Unit One Time One Time Unit Per Ping Per Ping	Rate 1500 1500 Total Amount Rate 50 50 Total Amount	Amount 1,500.00 3000 4,500.00 Amount 1,000.00 1,500.00

Date of Report Generated <21/10/2013>

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Time of Report Generated <09:30:31 AM>

Page <current #> of <total #>

WHAT'S NEW IN PRODUCT STABILITY?

The following areas were improvised on the stability front

Area of Stability	Improvement Description
Orders-in- Progress in Customer Inquiry	Performance has been fine-tuned for a scenarios where the number of jobs are high
Service sale billing for external services procured	Issues in billing the customers when RO / PO has more than one line is corrected
Evaluation of discrepancies for pricing exclusion / inclusion	Discrepancy attributes based evaluation has been corrected and tested
Customer Inquiry Function	Links to various documents within receivables has been corrected

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Corporate Office and R&D Center

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