



# Ramco Aviation Solution

## Version 5.7

### **Enhancement Notification**

Offline Field System

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## WHAT'S NEW IN OFFLINE FIELD SYSTEM?

### A. Usability enhancements in Record Aircraft Execution Details page (OFMS) & changes in due list tree

*Reference: AHBE-5549*

#### Background

To facilitate ease of usage during offline field base operations with a single aircraft / work center, the system shall automatically default offline aircraft, work center and station details on launch of the **Record Aircraft Maintenance Execution Details** page.

As per current Ramco Aviation Solution, all offline field base laptops should have the Main Base time zone setting. With the following enhancement, all offline field base laptops can be set to their respective local station time zone setting.

#### Change Details

1. On launch of **Record Aircraft Maintenance Execution Details** page during offline field base operations,
  - 1.1 The system will default the offline aircraft corresponding to the respective offline area, provided only a single offline aircraft is mapped to the offline area. Similarly, the first offline work center loaded in 'Exe. Details' section and its corresponding Station will also be defaulted. If an offline aircraft is defaulted, the Open Items tree will also be loaded for the offline aircraft.
  - 1.2 'Date & Time' in 'Exe. Details' section shall be defaulted if 'Default Context Date?' option for 'Entity Type' - "Package Type" & 'Entity' – "All Packages" is set as "Required". The Date & Time defaulted will be in the time zone corresponding to the Station defaulted.

Refer Exhibit-1.

#### Additional Changes

2. Schedule Date for tasks and discrepancies displayed in 'Due List' tree will be as per the time zone corresponding to the Station selected in 'Exe. Details' section. Hence, on invoke of 'Due List' tree, the system will mandate selection of Station in 'Exe. Details' section. Refer Exhibit-2.



*Note: This behavior is common for main base & offline field base operations.*

3. For Main Base operations, when system defaults Date & Time in Exe. Details section on invoke of Go / On-Enter based on 'Default Context Date?' option for 'Entity Type' – "Package Type" & 'Entity' – "All Packages", the defaulted Date & Time will be as per the time zone of the Station defaulted in 'Exe. Details' section.



*Note: System will default Work Center and Station based on 'Default Home Base?' option for 'Entity Type' – "Package Type" & 'Entity' – "All Packages".*

**Exhibit-1: Record Aircraft Execution Details – Defaulting offline aircraft, work center, station, Date & Time and Open Items tree**

The screenshot shows the 'Record Aircraft Execution Details' form. Callouts indicate the following defaulting behavior:

- Offline Aircraft, Work Center and Station will be defaulted on page**: A red circle highlights the 'Aircraft Reg #', 'Work Center #', and 'Station' fields.
- Date & Time will be defaulted on page launch if Default Context Date option is enabled**: A callout points to the 'Date & Time' section with 'Enter date' and 'Enter time' buttons.
- Date & Time defaulted will be in the time zone of the**: A callout points to the 'RefTime Zone' field, which is set to 'AEST'.
- Open Items tree will be loaded on page launch for the defaulted offline aircraft**: A callout points to the 'Log Cards' tree on the left, which is expanded for aircraft 'n242ch'.

**Exhibit-2: Display of schedule date in Due List tree**

The screenshot shows the 'Record Aircraft Execution Details' form with the 'Due List' tree expanded. A callout indicates:

- Schedule Date in Due List will be displayed in time zone of Station selected in header**: A callout points to the 'Due List' tree, which displays schedule dates in the 'AEST' time zone.

## B. Additional validations to support offline operations

Reference: AHBE-544

### Background

To prevent data corruption after initiation of offline operations, certain transactions need to be controlled in main base and offline field base. Following set of enhancements done to ensure the same.

### Change Details

#### 1. Main Base operations:

##### 1.1 Record Aircraft Maintenance Execution Details:

After initiation of offline operations, packages completed in offline field base can be closed in main base based on option “Closure of completed packages” defined in the **Configurator** business component. To facilitate closure of such packages, system shall allow package closure from main base regardless of ‘CoM Req’d.’ option setting defined at package type level in the **Common Master** business component.

#### Exhibit-1: Execution Record Details section:

On closure of packages corresponding to offline aircrafts, system will not check if Certificate of Maintenance has been issued against package – even if ‘CoM Req’d.’ option for the selected package type is enabled

**Execution Record Details**

Exe. Ref. # Log card

Log #

Cust. Order #

Status

Orig. Work Center

Customer # / Name

HS

ES

Category

Maint.Event

Contract #

Ref. Time Zone

Package Desc.

Work Requested

Processing of discrepancies is not allowed in main base for offline aircraft. Revision of discrepancy deferrals shall also be restricted by the system in main base if aircraft is offline.

**Exhibit-2: Discrepancy section:**

**Discrepancy**

Log Item # - Tally # - Seq #      Record Status      Discrepancy #      Sign-off Status      HS      ES

Type: MIREP      ATA #:      Action:      Repair Classification:      Source Type & No:      Part Required? No      Corrosion Related? No      Major Item? No      Repeat: No

Discrepancy Description:      Corrective Action:      Deferral Details: Deferral by: PH      FC      Other Parameters:      Deferral Item #:      Deferral Type:      Reason for Deferral:      Auth:      Reported by:      Reporting Date & Time:      Radio Communication:      Edit Discrepancy Additional Information      Author Repair Procedure      View MFL/CDL Item Details      View Discrepancy Dates & References      Generate Maintenance Logbook Report      Revise Deferral Limits      Create Engrg. Service Request

Revision of deferral limits shall not be allowed if aircraft is offline

1.2 Record Employee Timesheet: Timesheet update cannot be done in main base for packages which are being processed in an offline field base.

**Exhibit-3: Record Employee Timesheet**

Total Hours 9.74      Total Worked Hours 9.74      Total In-direct Hours 0.00      Pending Confirmation Dates

**Timesheet Details**

#	Execution Ref #	Seq #	Task #	Start Time	End Time	Worked Hours	Start Date	End Date	Employee Comments	Previous Emp.
1	VP-000040-2013	1	NST-000009-2013	04 59	05 03	4.75	29/04/2013	29/04/2013		
2	VP-000082-2013	2	VPO-000010-2013/1	08 01	08 03	0.04	29/04/2013	29/04/2013		
3	VP-000082-2013	2	VPO-000010-2013/1	06 01	08 01	0.02	29/04/2013	29/04/2013		
4	VPO-000007-2013	1	NST-000188-2013	06 02	06 18	4.93	29/04/2013	29/04/2013		
5										

Edit Execution Ref. #      Update Parameter Details      Issue certificate of Maintenance      View Comments Information      Report Fuel / Oil Log

Start Clock      Reset      End Clock      Manual Update

In-Direct Reporting Hours      Start Time 13 00      End Date & Time 29/04/2013      Attendance Type Normal      13 01

Main Base operations : System shall prevent Start Clock / Manual Update on offline packages (referring offline aircrafts ) in (a) Planned / In-Progress status (or) (b) Completed status with Closure of completed packages option in Configurator business component set as "Offline"

1.3 Record Part Consumption & Return: Update of part consumption / return of parts shall be permitted in main base only for A/C Maint. Exe. Ref. Documents corresponding to online work centers.

**Exhibit-4: Record Part Consumption & Return (Aircraft Maintenance Execution):'**

**Record Part Consumption & Return**

Search Criteria

Display Option: All Pending Return

Task # / Description: [Search]

Search On: [ ]

Aircraft Reg. #: [ ]

Part # / Description: [Search]

Material Request #: [Search]

Execution Ref. # / Description: [Search]

Customer # / Order #: [Search]

Requested Work Center #: [ ]

Return Unconsumed Parts | Return Removed Cores

Part Consumption Details

[No records to display]

#	Tally #	Task #	Issued Part #	Issued Part Description	Issued Serial #	Issued Lot #	UOM	Attached?	Used Qty.	Is
1										

Update Consumption / Reconcile

Return Warehouse: [ ]

Return Parts

Edit Maintenance Return | Manage Employee Work | Issue Certificate of Maintenance

Update Consumption / Reconcile & Return Parts (Return Unconsumed Parts & Return Removed Cores tabs) shall be prevented from Main Base for packages referring an offline work center

#### 1.4 Manage Work Assignments & Reporting:

Work assignment & reporting will be restricted in main base for A/C Maint. Exe. Ref. Documents being processed in an offline field base.

**Exhibit-5: Review Work Tab**

**Manage Work Assignments and Reporting**

Task # | Task Description

09-Feb-2013 | 10-Feb-2013

Update Plan

Update Work Actual

Update Work Hold

Report Work Actuals

Hold

Release

Update Plan, Report Work Actuals, Hold & Release will be disallowed for offline packages (referring offline aircrafts) in (a) Planned / In-Progress status (or) (b) Completed status with Closure of completed packages option in Configurator business component set as "Offline"

**Exhibit-6: Manage Employee Work tab**

Update Assignments / Time Booking & Authorize Booking will be disallowed for offline packages (referring offline aircrafts) in  
(a) Planned / In-Progress status (or)  
(b) Completed status with Closure of completed packages option in Configurator business component set as "Offline"

**1.5 Defer Discrepancies:**

**Exhibit-7:**

System shall prevent deferral if selected Log Item # corresponds to an Offline Aircraft

**1.6 Edit Deferral Report:**

**Exhibit-8:**

System shall prevent deferral confirmation if selected discrepancy corresponds to an Offline Aircraft

### 1.7 Revise Deferral Limits:

**Exhibit-9:**

**Select Discrepancy**

**Search Criteria**

Discrepancy #   
 Log Item #   
 Source Doc. Type   
 ATA #   
 Search ID  [Edit](#)

Discrepancy Description   
 Aircraft Reg #   
 Source Document #   
 Deferral Type\* / Item #

[Search](#)

**Search Results**

#	Aircraft Reg #	Discrepancy #	Log Item #	Discrepancy Description	ATA #
17	vt-vair	VP-000079-2013/1	VP-000079-2013/1	123	00-00
18	vt-vair	VP-000080-2013/1			00-00
19	vt-vair	VP-000003-2013/1			00-00
20	vt-vair	VP-000008-2013/1			00-00
21	vt-vair	VP-000010-2013/1	VP-000010-2013/1	n123	00-00

System shall prevent deferral revision if selected discrepancy corresponds to an Offline Aircraft

1.8 Record Work Hold: Hold / Release shall be restricted in main base on A/C Maint. Exe. Ref. Documents being processed in an offline field base.

**Exhibit-10:**

**Record Work Hold**

**Search Criteria**

Exec. Doc. #  Customer Order #  Maint. Object   
 Task # / Description  Customer # / Name  Exec. Status   
 Hold Code  Responsible Function  Pending Release by   
 Search On  Addl. Search On  Held Date: From / To

[Search](#)

[Review Work Hold](#) **[Record Work Hold](#)** [Release Work Hold](#)

[No records to display]

#	Exe. Order Type	Exec. Order #	Seq #	Task #	Task Description	Customer Order #	Hold Code	Hold Code
1	Shop Work Order #							

System shall prevent application / release of hold on offline packages (referring offline aircrafts) in (a) Planned / In-Progress status (or) (b) Completed status with Closure of completed packages option in Configurator business component set as "Offline"

[Record Work Hold](#)

1.9 Plan Material: Material Request generation will be prevented in main base if the selected A/C Maint. Exe. Ref. Document corresponds to an offline work center. Additionally, material request short-closure will be prevented on A/C Maint. Exe. Ref. Documents being processed in an offline field base.

Exhibit-11:

**Plan Material**

**Part Requirements**

#	A/C Reg #	Package #	Task # / Discrepancy #	Seq #	Part #	New Part #?	Std. Qty	Reqd. Qty	UOM	Need Date	Warehouse #	Stock Status	Substitute
1	vt-vmv	AME000453-2012	05-11-34-100-807	1	00216	No	1.00	13.00	EA		ATL-LN-SER	Accepted	
2	vt-vmv	AME000453-2012	05-11-34-100-807	1	00316	No	1.00	1.00	EA		ATL-LN-SER	Accepted	
3	vt-vmv	AME000453-2012	05-11-34-100-807	1	005-1692-010	No	1.00	1.00	EA		ATL-LN-SER	Accepted	
4	vt-vmv	AME000453-2012	05-11-34-100-807	1	0059-0008-3	No						Accepted	
5	vt-vmv	AME000453-2012	05-11-34-100-807	1	007-00249-0001	No						Accepted	
6	vt-vmv	AME000453-2012	00-00-31	6	12564-689	No						Accepted	
7	vt-vmv	AME000453-2012	00-00-31	6	458789-1	No						Accepted	

**Material Request Generation Options**

MR Type:  MR Class: Maintenance MR Category: AOG2DAYS

Priority: Normal

Comments:

Generate Request Short Close Request Print MMD

System shall prevent generation of material requests on packages referring an offline work center

System shall prevent short close of material requests for,  
 (a) Offline Packages in Planned / In-Progress status  
 (b) Offline Packages (referring offline aircrafts) in completed status with 'Closure of Completed Packages' option in Configurator component set as "Offline"

## 2. Offline Field Base operations (Ramco Desktop Application):

2.1 Record Aircraft Maintenance Execution Details: Time booking shall be restricted during offline field base operations.

Exhibit-12:

**Record Aircraft Execution Details**

Links:

- Check Part Availability
- Record Part Consumption
- Report Fuel / Oil Log
- Upload Documents
- View Aircraft Maintenance Log

Generate Maintenance Logbook Report Helifor Maint. Discrepancy report

Hold / Release

Hold Code:  Comments:  Hold Release Record Work Hold

Component Details

Part #:  Serial #:  Position Code:  Part Description:

Report Actual and Sign-Off Requirements

Scheduled

Plan Start Date & Time: 2013/07/18 7:47 PM

Plan End Date & Time: 2013/07/18 8:47 PM

Est Man Hrs:  1

File Name:  View File

Actuals

Act. Start Date & Time: 2013/08/29 3:0 PM

Act. End Date & Time: 2013/08/29 9:0 PM

Start Date Time:

Clock Status: NOT STARTED Actual Man Hrs:  6

Sign-Off Requirements

☒ Mechanic ☐ Inspector ☐ RIISign Off

Add. Sign-Off:  Remarks:

Task clock on will not be allowed in offline field base

New serial generation on part removal is not supported during field base operations. Additionally, scrap note generation and auto replenishment of core based on removal disposition are not supported in offline field base.

**Exhibit-13:**

Record Aircraft Execution Details | Inquire Stock Availability

1. Record Aircraft Execution Details

Adv. Search  
☒ Log Cards ☒ Minor ☒ Major  
 --Search by--

Execution Record Details  
 Exe. Ref. # VP 46VP-000012-2013 Status In-Progress HS  
 Log # Orig. Work Center 46

Work Information  
 Task # - Tally # 46NST-000086-2013:1  
 1234-VIS-TASK:2

Serial # Type combo will not have value - "New" in offline field base

System shall not load disposition codes having 'Recommendation for Phase Out' property enabled  
 Note: On part removals, system will not auto-generate material requests for the removed part if 'Replenishment of Core' option is enabled for the selected disposition code

Removed Part #  
 Installed Part #  
 Object Type  
 Component  
 Employee # 9679  
 Acceptance Ref. #  
 Generated Order #  
 Generated Order Status  
 Work Center #  
 Repair Agency #

Rem. Disposition / Codn.  
 Ac Level #  
 Date & Time 2013/08/30 3:0 PM  
 Serial # Type Existing

Reason #  
 Ac Position #  
 Confirmed Failure? Not  
 Removed MSN #  
 Removal Qty.  
 Attachment Qty.

Next Steps  
 Important Dates  
 Links  
 Check Part Availability  
 Record Part Consumption  
 Report Fuel / Oil Log

## 2.2 Record Part Consumption & Return:

Update of part consumption and return of parts shall be allowed only if the selected A/C Maint. Exe. Ref. Document corresponds to an offline aircraft & offline work center.

**Exhibit-14:**

Record Aircraft Execution Details | Inquire Stock Availability | Record Aircraft Execution Details

1. Record Aircraft Execution Details 2. Record Part Consumption & Return

Search Criteria  
 Display Option All Pending Return Aircraft Reg. # n246ch Execution Ref. # / Description 46LP-  
 Task # / Description Part # / Description Customer # / Order #  
 Search On Material Request # Requested Work Center #

Return Unconsumed Parts Return Removed Cores

Part Consumption Details

Update of part consumption / reconciliation & return (Return Unconsumed Parts & Return Removed Cores tabs) will be allowed only for packages referring an offline aircraft & offline work center

#	Tally #	Task #	Issued Part #	Issued Part Description	Issued Serial #	Issued Lot #	UOM	Attached?	Used Qty.	Issued Qty.	Reconcile Qty. - Core	Reconcile Qty. - Excess
1												

Update Consumption / Reconcile Return Warehouse Return Parts

### 2.3 Record Work Hold:

Hold / Release shall be allowed in offline field base only on offline aircrafts with corresponding:

- a. offline package in Planned / In-progress status (or)
- b. offline package in Completed status with closure of completed packages set as "Online" (in Configurator component) and data has not yet been transferred to main base after package completion in offline field base (or)
- c. offline package in completed status with 'Closure of completed packages' option in the interacting **Configurator** business component set as "Offline".

2.4 Report Fuel / Oil Log: Fuel / Oil log details can be recorded in offline field base only for offline aircrafts & A/C Maint. Exe. Ref. Documents corresponding to offline work centers.

### **Exhibit-15:**

The screenshot displays the 'Record Aircraft Execution Details' web application. The interface includes a sidebar with navigation links like 'Record', 'Transactions', and 'My Alerts'. The main content area is divided into several sections:

- Fuel / Oil Log Details:** Contains fields for 'Fuel / Oil Log #', 'Aircraft Reg. #', 'Reference Document Type', 'Execution Ref #', 'Numbering Type', and 'Reference Doc. #'. A 'Get Details' button is located next to the 'Reference Doc. #' field.
- Execution Document Details:** Includes 'Work Center #', 'Uplift Date & Time', 'Flight & Leg #', 'Location', 'Reference Time Zone', and 'Log #'. The 'Work Center #' field is highlighted with a yellow callout box.
- Oil Uplift Details:** Includes 'Engine Oil UOM', 'Oil Uplift Details - Engine & APU', and 'Oil Uplift Details - Other Positions'.
- Document Attachment Details:** Includes a 'File Name' field and a 'View File' button.

A yellow callout box points to the 'Work Center #' field in the 'Execution Document Details' section, containing the text: "System shall validate if Aircraft Reg. # & Work Center corresponding to Reference A/C Maint. Exe. Ref. Document is offline".

## C. Facility to upload, attach and view the documents / files in field base (Offline base)

*Reference: AHBE-2752*

### Background

Currently in Ramco Aviation solution, user can upload (attach) documents only from main base and the uploaded (attached) documents can be viewed in main base only.

Also, documents cannot be uploaded (attached) from field base and the uploaded documents of main base could not be transferred to field base for their view.

### Change Details

With the introduction of this new feature, user can perform the below mentioned activities.

- To upload the documents in Offline base and to view the same from Offline base.
- To view the documents uploaded at Offline base from main base.

**Prerequisite:** Successful data load of respective Offline package in main base.

- To view the documents uploaded at main base from Offline base.

**Prerequisite:** Successful data load of respective main base package in Offline base.

### Process Details

The document upload / transfer process mentioned above is achieved by two sub-process.

- A. Transfer of file name of the document provided in the page by extract process from Main base (MB) to Field base (FB) or Field Base (FB) to Main Base (MB)
- B. Transfer of documents (Physical attachments) of the respective files uploaded in the page from MB to FB or FB to MB.

The figures 1 and 2 shown below depict the process of transferring the document attachments across bases.

Figure : 1 Transfer of documents from Field ( Offline) base to Main base

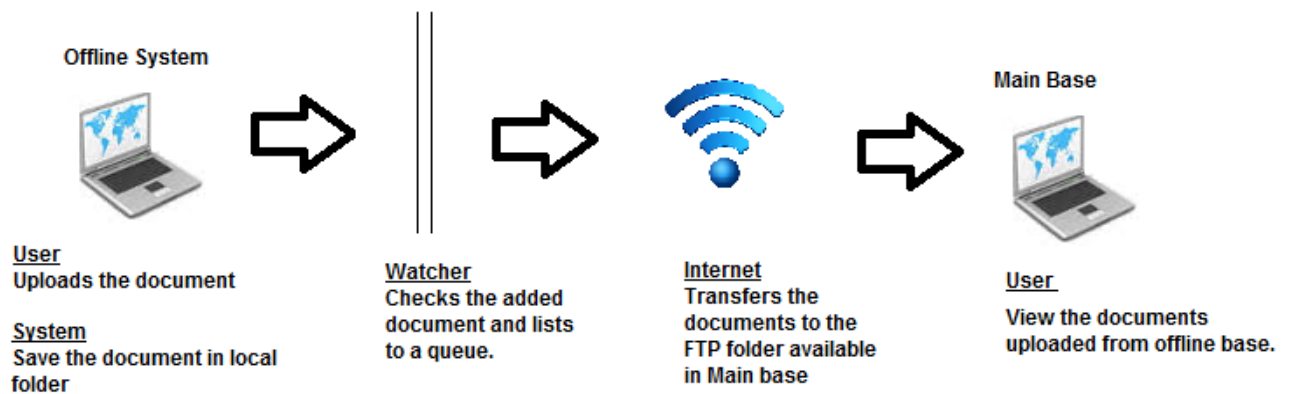
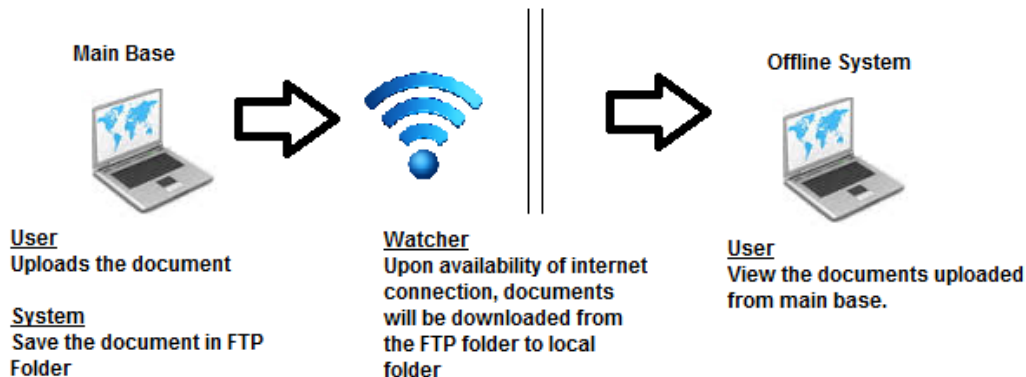


Figure : 2 Transfer of documents from Main base to Field ( Offline) base



The due course of action that needs to be followed to have efficient functioning of document upload and view processes in Offline or Main bases, are mentioned below:

- User must provide the value for the process parameter “Root Folder for Document Attach” of Category “Offline Configurator Options” in **Configure Offline Parameters** page in Laptop before document attachment is initiated in field base.

This definition helps in determining the path of the documents in the Offline system during load and extract functions. (Refer Fig: 3)

*Note: Absence of this path (or) wrong path definition in Offline system will prevent the view of uploaded documents, as physical document linkage will be missed.*

- Folder structure in field base must be similar to that in main base with folder name being the same, so as to facilitate the data transfer of physical doc. attachments to the respective FTP path during the internet availability.

- After data initialization in laptop it is recommended to do a manual transfer of document attachments to the laptop in the respective path defined. This will help the user in reducing the processing time of data transfer and internet usage as the initial set of documents to be moved may be of high volume.
- Data transfer through internet connectivity results in transfer of physical copy of document from folder path via FTP and the Document Name (File name) via extract process. Hence, in the absence of internet connection, if the extraction happens manually and the extracted data is transferred via USB, only the Document Name (File name) is moved in the package and loading of such file at main base will not help the user to launch the physical attachment. Physical copy will be moved via FTP followed by availability of internet connection only.
- Change in the destination path in Object Attachment component for any component at main base will restrict the user from viewing the existing documents belonging to the old destination path (sub folder). Also, if the path is changed in main base after the initial data cut is taken in the laptop, the subsequent file attachments will happen to take new folder path. This signifies that the path of main base or field base must not be altered.
- Systematic data transfer during the internet availability will help in transferring the document (File name) as well as the physical document from the respective folder in main base to offline base (or) Vice versa. There is a high probability that the physical copy moves to the FTP folder first than the data which gets loaded by queuing process.

Fig 3: Configure Offline parameters (Field Base - Laptop)

1.Configure Offline Parameters

Date & Time Format dd/mm/yyyy  
hh:mm:ss

Search Criteria

Category Offline Configurator Options Process Parameters Defined? Yes

Search Results

Total Rows: 9

#	Category	Process Parameter	Permitted Values	Value	
1	Offline Configurator Options	Usage Mode	'0' - 'Online' , '1' - 'Offline'	1	Defined
2	Offline Configurator Options	Offline Area #	Offline Area # associated to Offline base	42	Defined
3	Offline Configurator Options	Email IDs for Notifications	Enter email ID .Use comma separator to specify multiple email ID's.	rahul.chandran@ramco.com;tamilse	Defined
4	Offline Configurator Options	Set Extract Path	Enter value in "Drive:\Folder name" or "\\Server\Share" format	D:\Extract	Defined
5	Offline Configurator Options	Set Load Path	Enter value in "Drive:\Folder name" or "\\Server\Share" format	D:\Load	Defined
6	Offline Configurator Options	Set Extract Path for Backup/Archive	Enter value in "Drive:\Folder name" or "\\Server\Share" format	D:\ExtractBackup	Defined
7	Offline Configurator Options	Set Load Path for Backup/Archive	Enter value in "Drive:\Folder name" or "\\Server\Share" format	D:\LoadBackup	Defined
8	Offline Configurator Options	Root Folder for Laptop Induction	Enter value in "Drive:\Folder name" or "\\Server\Share" format	D:\FTOut	Defined
9	Offline Configurator Options	Root Folder for Document Attach	Enter value in "Drive:\Folder name" format	D:\DOC ATTACH	Defined

### **Corporate Office and R&D Center**

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