# Ramco Aviation Solution

# Version 5.7

**Enhancement Notification**

Offline Field System

# DISCLAIMER

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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



Offline Aircraft, Work Center and Station will be defaulted on page

Date & Time will be defaulted on page launch if Default Context Date option is enabled

Date & Time defaulted will be in the time zone of the

Open Items tree will be loaded on page launch for the defaulted offline aircraft
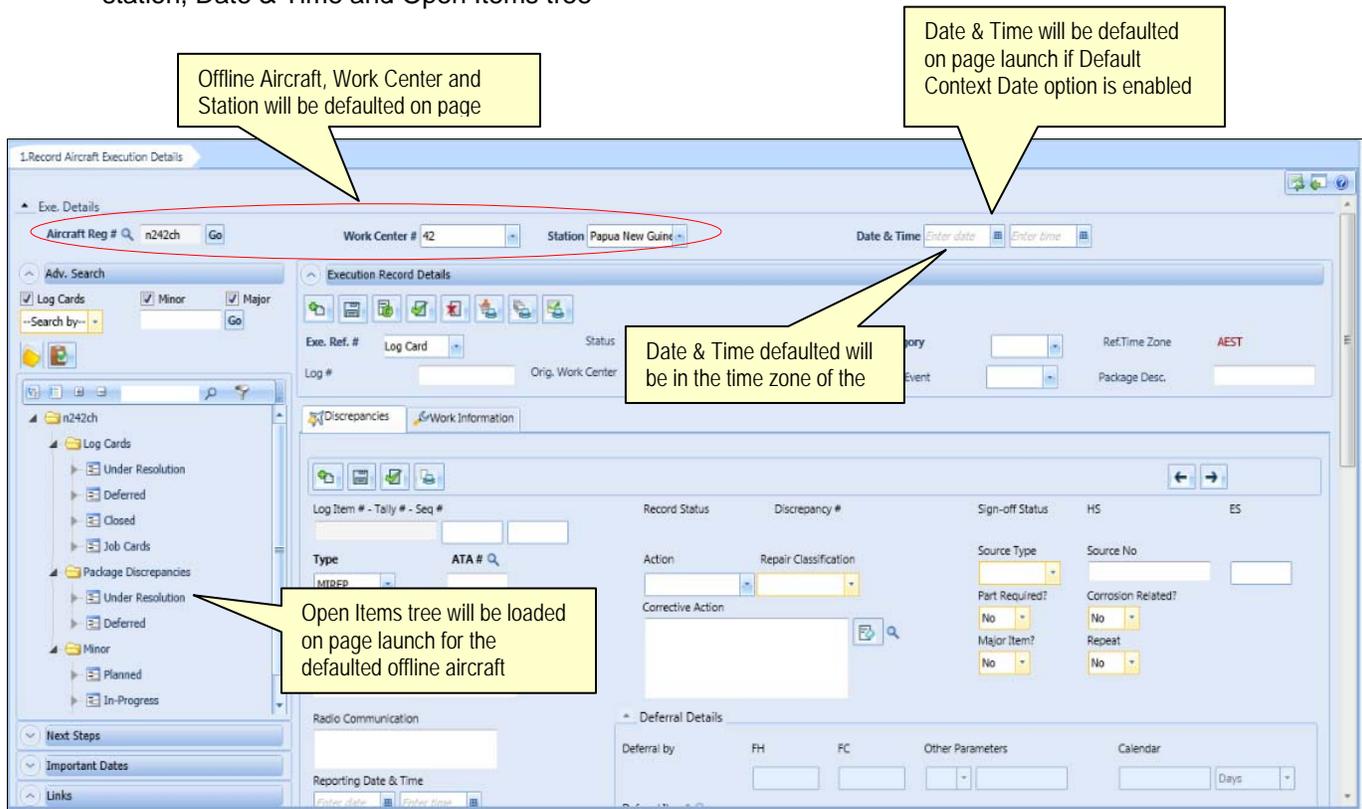
**Exhibit-2:** Display of schedule date in Due List tree



Schedule Date in Due List will be displayed in time zone of Station selected in header
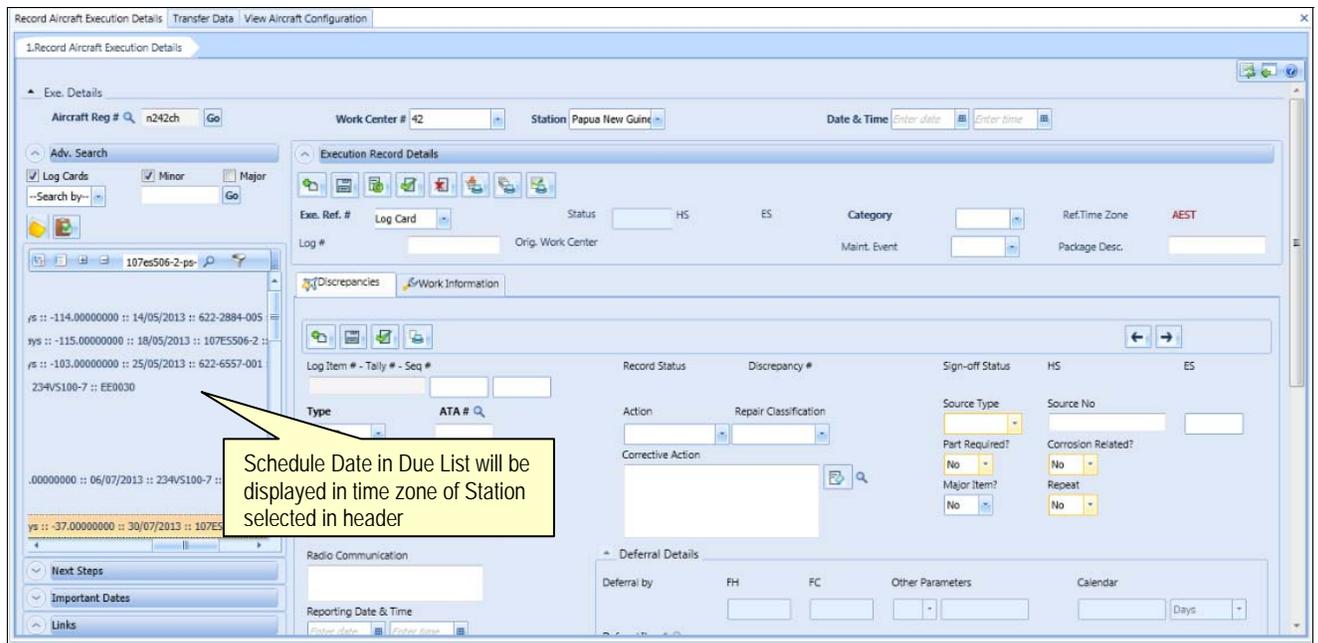
## B. Additional validations to support offline operations

*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 Reqd.?' 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 Reqd.?' option for the selected package type is enabled

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:



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



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):'
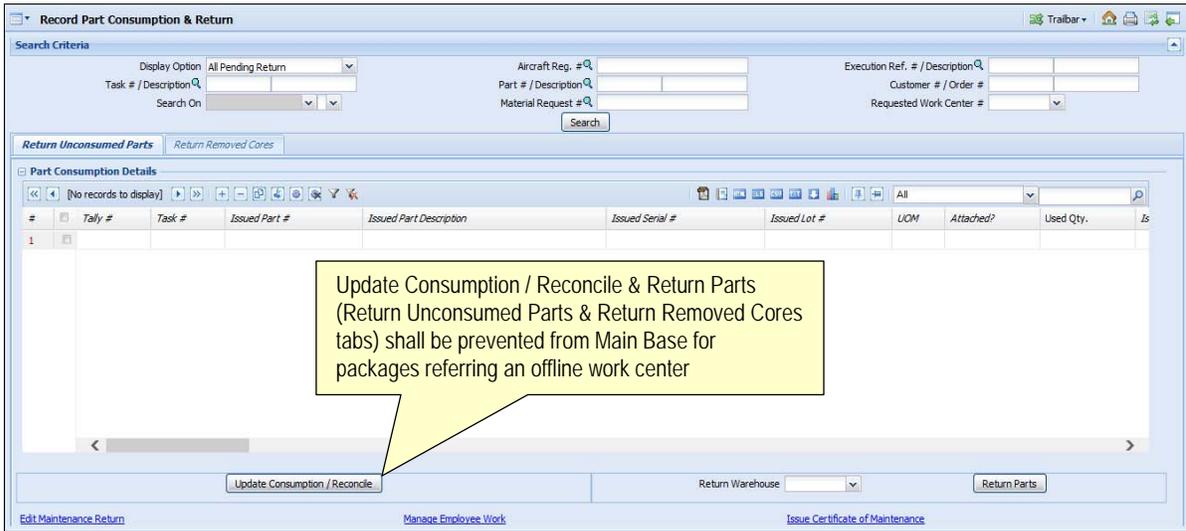


### 1.4 *Manage Work Assignments & Reporting:*

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

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



The callout text reads:

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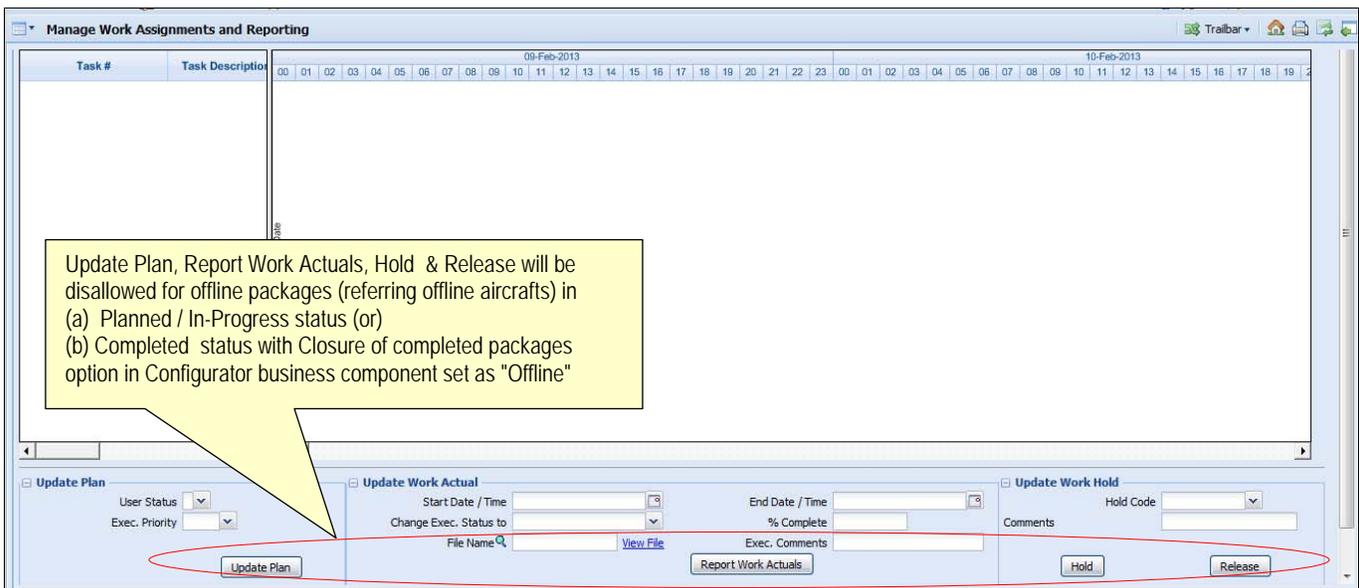(b) Completed status with Closure of completed packages option in Configurator business component set as "Offline"
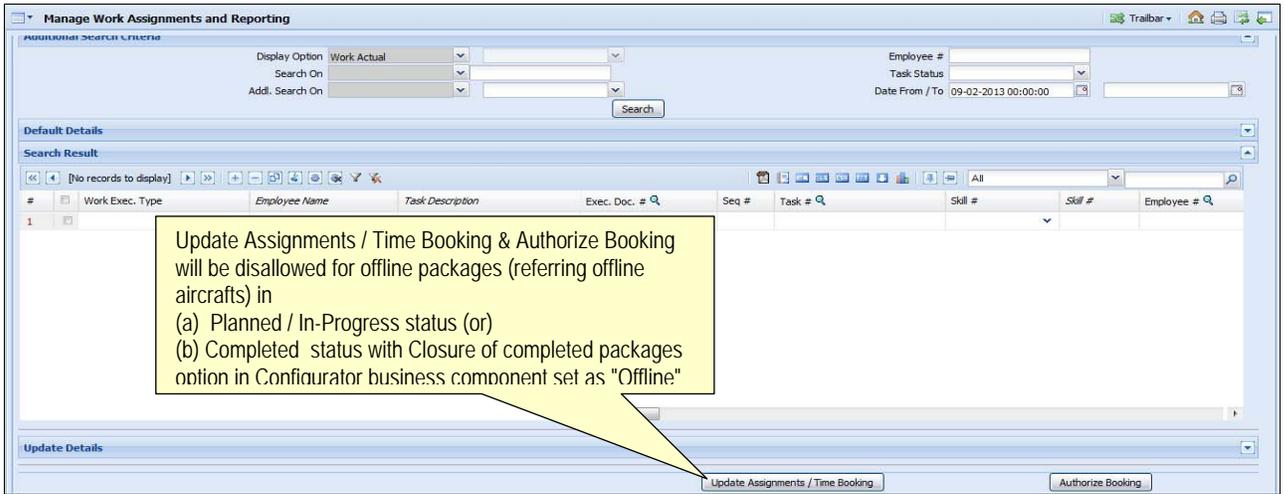
1.5 *Defer Discrepancies:*

**Exhibit-7:**



The callout text reads:

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

1.6 *Edit Deferral Report:*

**Exhibit-8:**



The callout text reads:

System shall prevent deferral confirmation if selected discrepancy corresponds to an Offline Aircraft
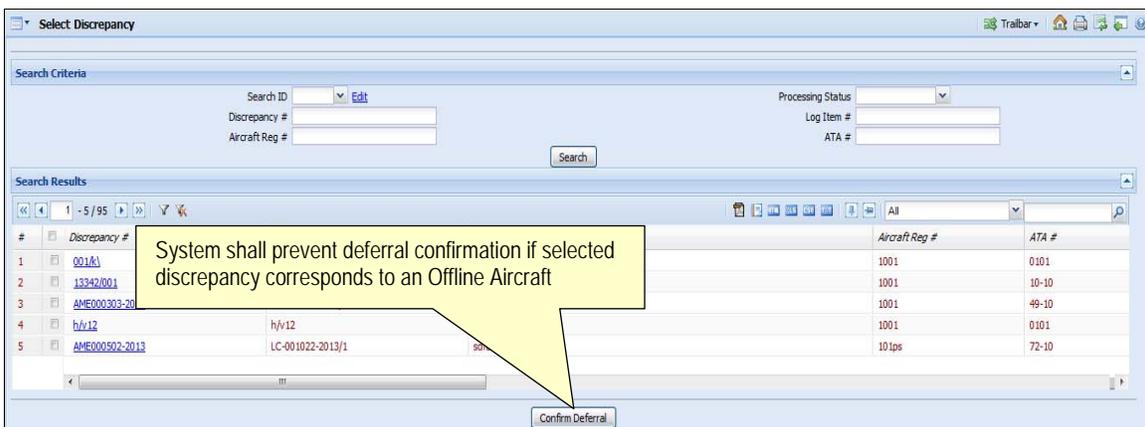
### 1.7 *Revise Deferral Limits:*

**Exhibit-9**:
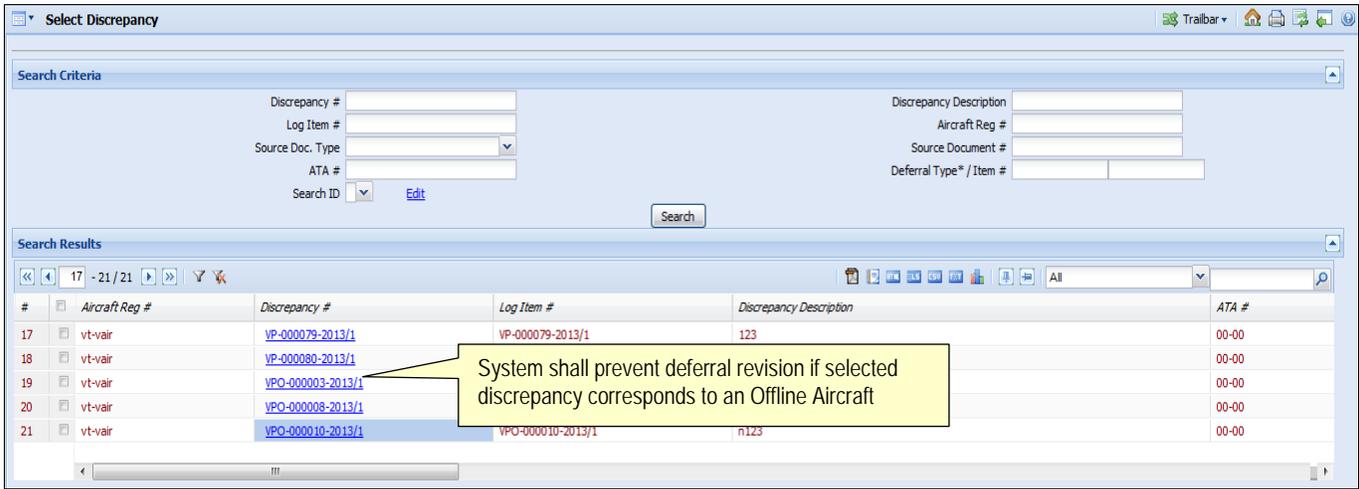


### 1.8 *Record Work Hold:* Hold / Release shall be restricted in main base on A/C Maint. Exe. Ref. Documents being processed in an offline field base.
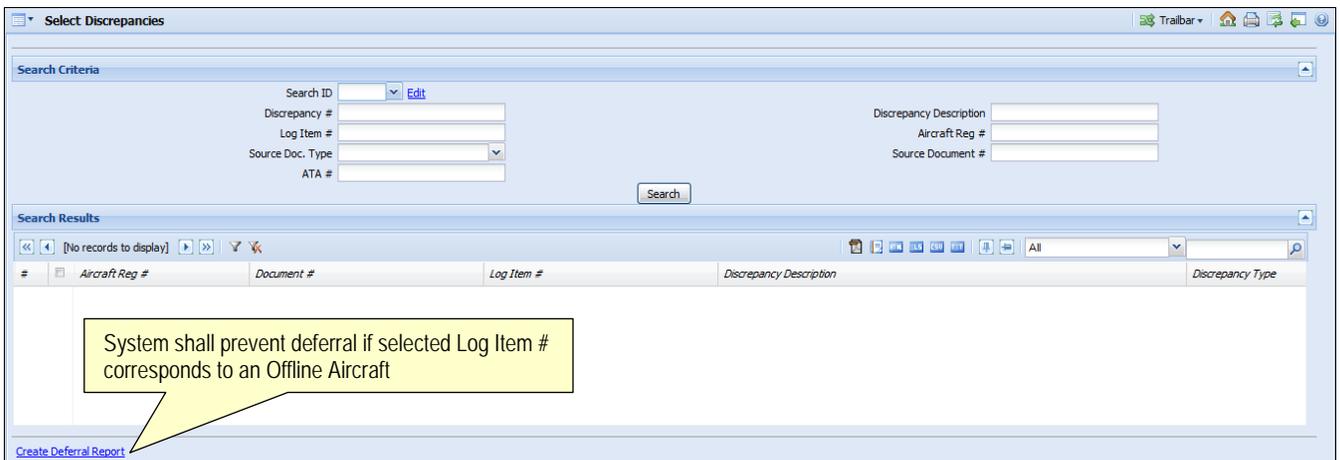
**Exhibit-10:**
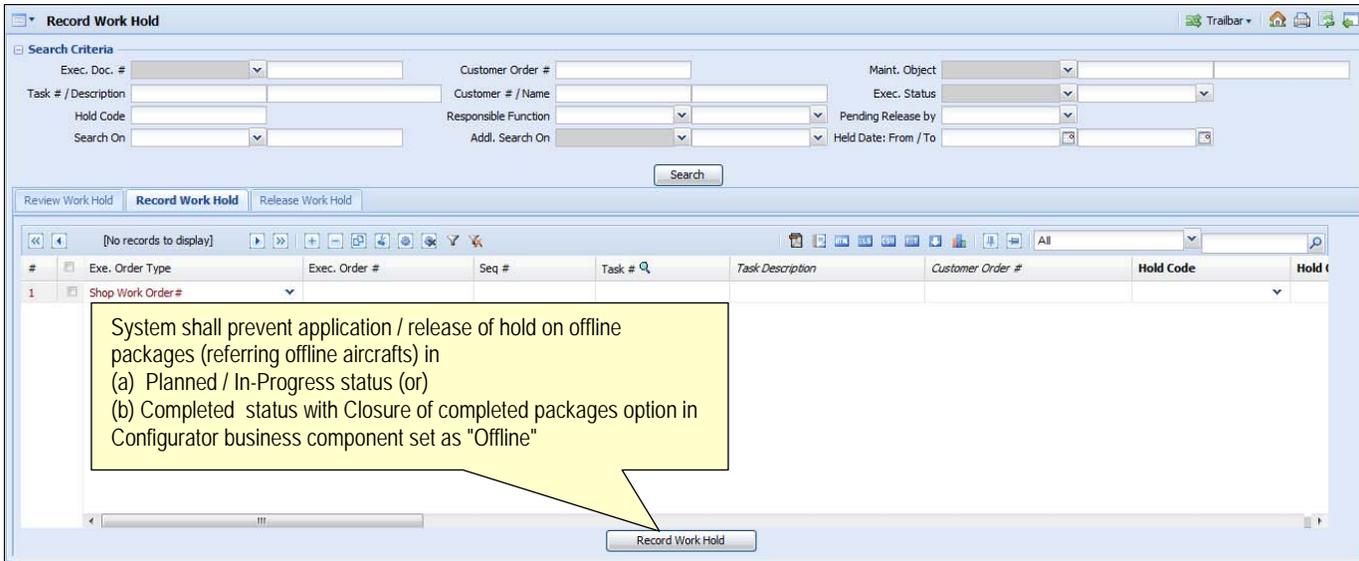


### 1.9 *Plan Material:* Material Request generation will be prevented in main base if the selected A/C Maint. Exe. Ref. Document corresponds to an offline work center. Additionally, material request short-closure will be prevented on A/C Maint. Exe. Ref. Documents being processed in an offline field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

**Exhibit-11:**
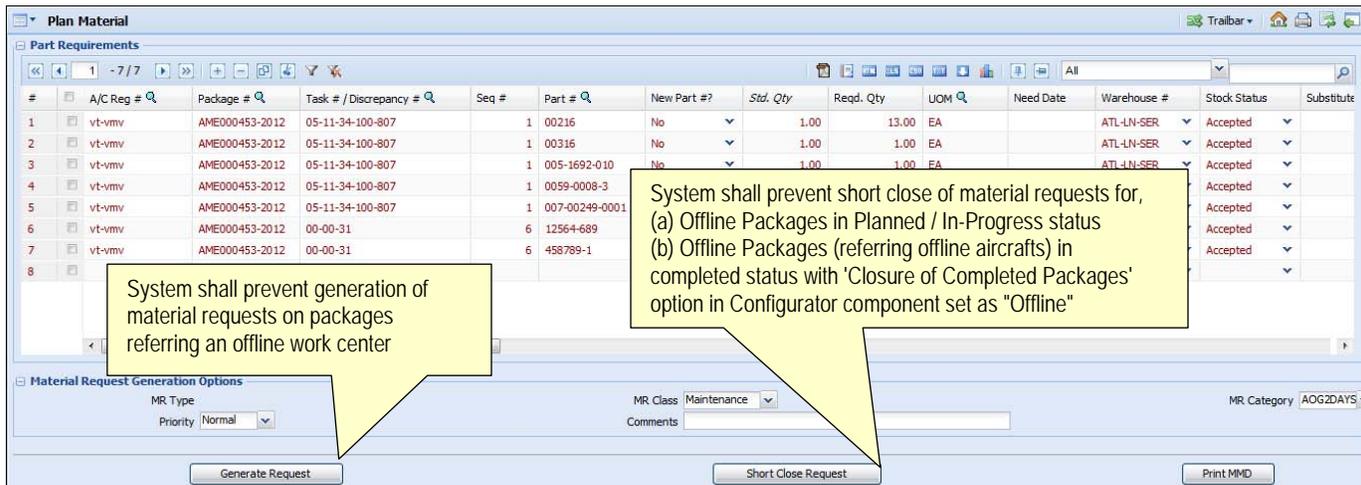


## 2. Offline Field Base operations (Ramco Desktop Application):

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

**Exhibit-12**:
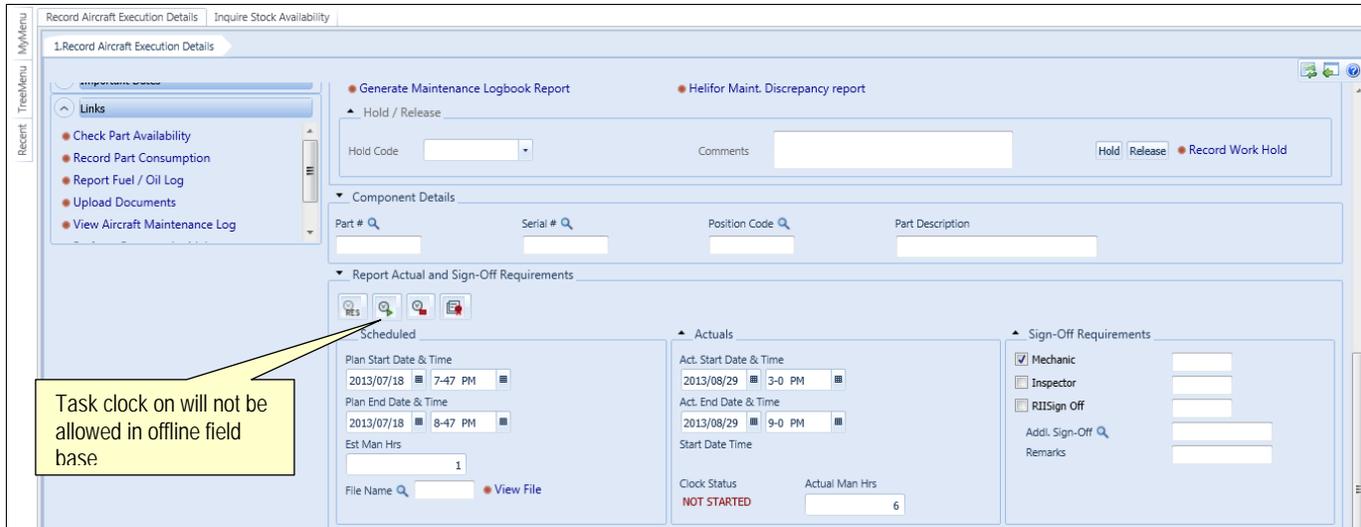


New serial generation on part removal is not supported during field base operations. Additionally, scrap note generation and auto replenishment of core based on removal disposition are not supported in offline field base.

**Exhibit-13:**
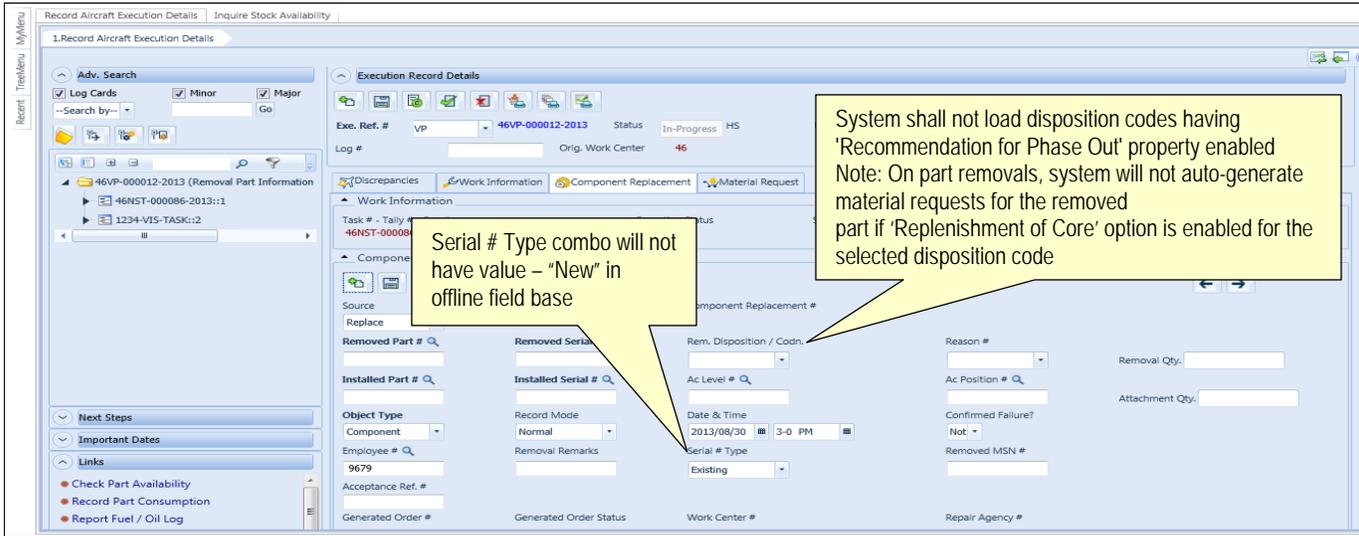


**2.2 Record Part Consumption & Return:**

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:**
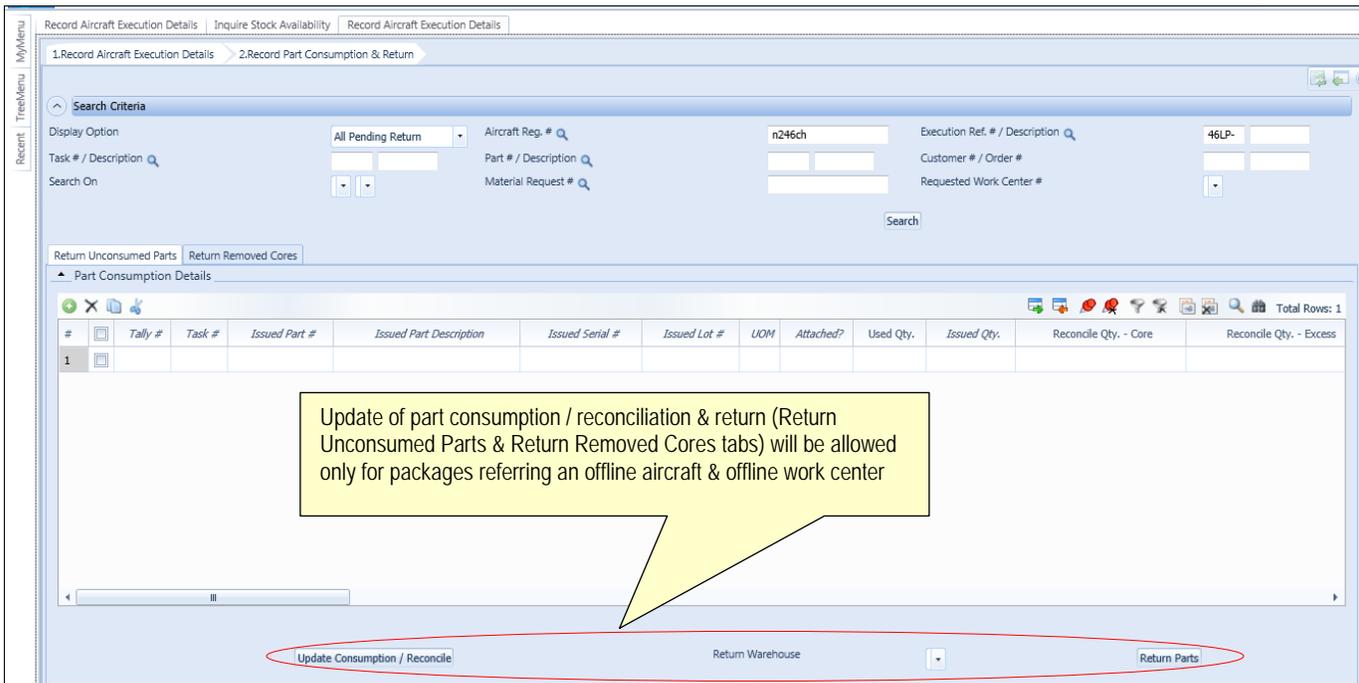
*2.3 Record Work Hold:*

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:**

## 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**

**Offline System**

**Main Base**

**User**
Uploads the document

**System**
Save the document in local folder

**Watcher**
Checks the added document and lists to a queue.

**Internet**
Transfers the documents to the FTP folder available in Main base

**User**
View the documents uploaded from offline base.
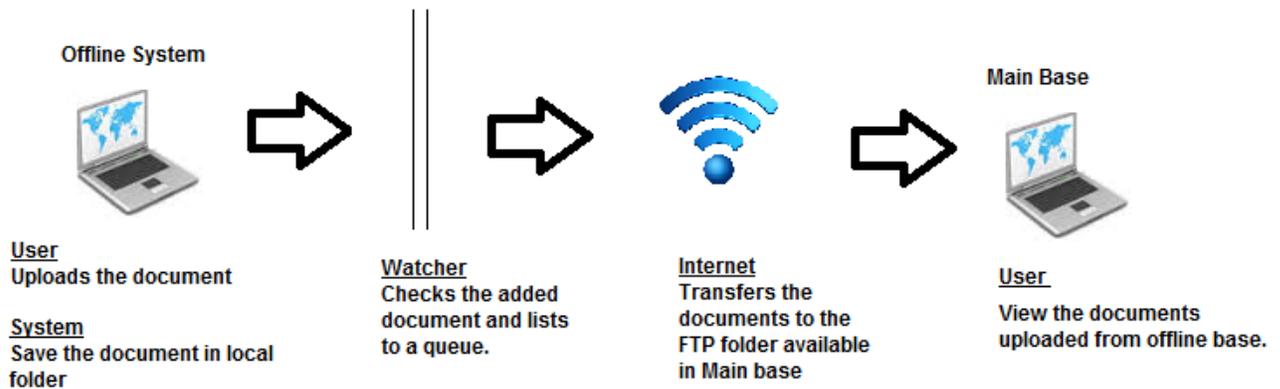
**Figure : 2   Transfer of documents from Main base to Field ( Offline) base**

**Main Base**

**Offline System**

**User**
Uploads the document

**System**
Save the document in FTP Folder

**Watcher**
Upon availability of internet connection, documents will be downloaded from the FTP folder to local folder

**User**
View the documents uploaded from main base.
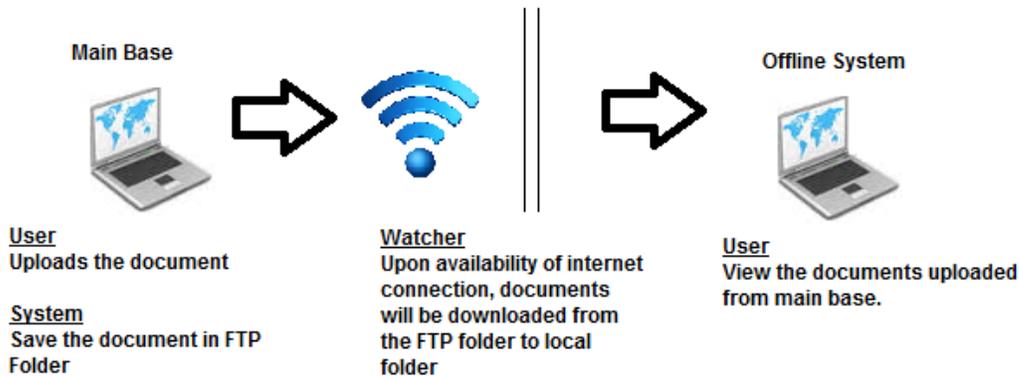
The due course of action that needs to be followed to have efficient functioning of document upload and view processes in Offline or Main bases, are mentioned below:

➢ 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 seperator to specify multiple email ID's. | rahul.chandran@ramco.com;tamilselv | 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:\FTCut | Defined |
| 9 | Offline Configurator Options | Root Folder for Document Attach | Enter value in "Drive:\Folder name" format | D:\DOC ATTACH | Defined |

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