



Defense Contract Management Series™

***Department of Defense
Advance Shipment Notice Software***

RFID Load Manager®

User Manual

Version 1.1

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RFID Load Manager Features

RFID Load Manager is a highly focused solution designed specifically to generate an Advance Shipment Notice for Department of Defense suppliers. Program features include:

- Generation and electronic submission of Department of Defense-compliant Advance Shipment Notice
 - Includes RFID data at all packaging levels
 - Includes UID data
 - WAWF and VIM-ASAP formats included
- Easily uses RFID and shipment data from other Mil-Pac Technology software.
- Easily uses RFID and shipment data from disparate systems through a simple and flexible interface.
- Automatic generation of RFID data for use with pre-encoded RFID tags.
- Load Configuration Report printing for use as a pack sheet and load history. Includes hierarchical listing of all RFID and UID data with summary of each packaging level and CLIN.
- Convenient data export for use with other systems.
- Robust data management for efficient business processes.

RFID Load Manager Overview

RFID Load Manager was specifically designed for one purpose—submitting Advance Shipment Notices for Department of Defense suppliers. All program features revolve around that core objective, contributing to a smooth, easy, and efficient workflow. RFID Load Manager is uncluttered by features required in other industry segments such as business-to-business data interchange.

Mil-Pac is committed to eliminating the concern over meeting the stringent requirements of the military standards, even as they continually evolve.

Introduction

Using This Manual

This manual has been designed to assist the user through each step of using the RFID Load Manager software. The principles of operation are generally the same as those for any other Microsoft Windows application.

While every effort is made to keep this User Manual up to date, the current release of the software often includes features not yet incorporated in the manual. Therefore, please be sure to refer to the product **ReadMe.Txt** files for updated product features.

Installation

Get Ready to Install RFID Load Manager

Set Up Personal Computer(s)

System Requirements

Computer: Any Windows compatible PC that meets Microsoft's minimum hardware requirements for the installed operating system, with at least 3.0 MB of free disk space.

Operating System: Windows-95 or later, or a compatible operating system, excluding Windows Millennium (Windows ME) and **Windows Vista**. Note: Mil-Pac software is successfully operated on Windows Vista Business edition with a small configuration change. Windows Vista Home editions do not appear to correctly execute Mil-Pac software.

Set up one or more personal computers that meet or exceed the minimum hardware requirements. Configure security and connectivity in accordance with your organizational policies.

Decide Where to Store Data

You will need to decide where to save the program data. You can save data on the individual user's/users' personal computer(s) or on a centralized, networked computer. The following sections describe the differences between these two approaches.

Option 1: Save Data on Individual Personal Computers

When program data is stored on individual personal computers, the data is accessible from only one personal computer. Each personal computer with RFID Load Manager installed would not be able to use the data from any other computers where RFID Load Manager is installed. This installation is most appropriate when one or more of the following conditions are true:

- Std-Barc (if used) is installed on the same PC as RFID Load Manager.
- Only one personal computer has RFID Load Manager installed.
- There is no desire to share data between RFID Load Manager personal computers.

- Connectivity between personal computers where RFID Load Manager is installed is either non-existent or unreliable.

Option 2: Save Data in a Shared Database

RFID Load Manager can be installed with shared data, so that users on different personal computers can all share the same data from different personal computers. Shared RFID Load Manager data is most appropriate when:

- Std-Barc (if used) is installed on a different PC than RFID Load Manager.
- RFID Load Manager is installed on more than one computer.
- Users on different personal computers use the same data, such as shipping addresses, contracts, etc.
- Connectivity between personal computers is reliable and full-time.

If you choose to save data on individual personal computers, then you can skip to the next topic. RFID Load Manager will offer a default folder in which to save this data and allow you to change to a folder of your choosing during installation.

If you choose to save RFID Load Manager data in a shared database, you will need to set up a network folder that has read and write permissions for each Std-Barc (if used) user and each RFID Load Manager user. Map the network folder on each personal computer where RFID Load Manager will be installed, using traditional eight-character directory path names, such as M:\Shipping\DD250s. Network administrators typically assist in this step. Mil-Pac software does not support UNC (Universal Naming Convention) names, such as \\Shipping\MilitarySoftware.

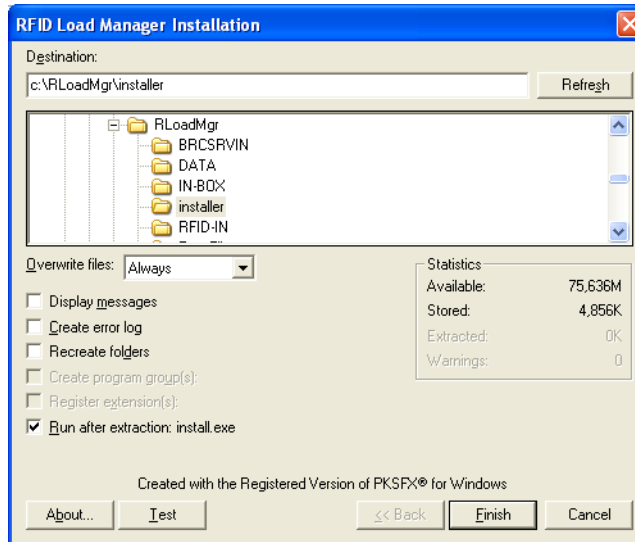
Install RFID Load Manager

RFID Load Manager install files are typically distributed either via internet download or CD.

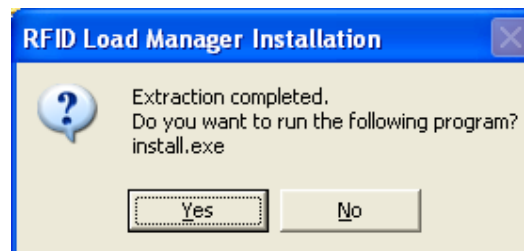
Installing from Internet Download

If you received RFID Load Manager install files via internet download:

1. Double-click the install file. The install files are in a compressed file that will now uncompress. Just click [Finish].



2. When the extraction completes, answer [Yes] to the following question.



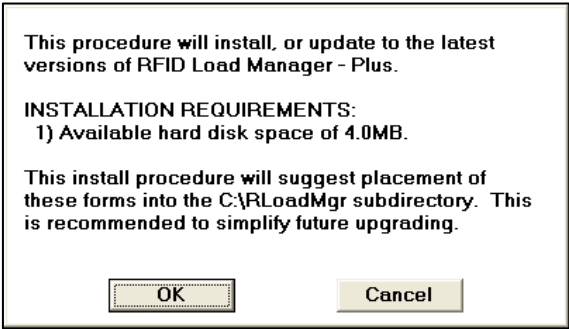
3. The RFID Load Manager install wizard begins.

Installing from CD

If you received RFID Load Manager install files via CD, insert the CD into your personal computer. The RFID Load Manager install wizard begins.

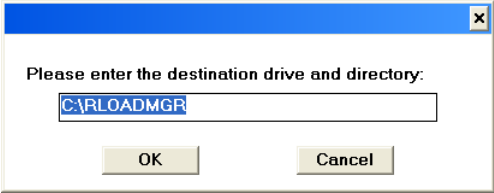
1. If more than one product or more than one copy of RFID Load Manager is provided on the disk, select the appropriate one by the serial number assigned to you. Mil-Pac software is licensed by seat, so each computer installed with RFID Load Manager should use a different serial number.

2. Evaluation copies of RFID Load Manager do not need to be removed. Installing the licensed copy of the software from the CD-ROM will simply update the software, turning it into a fully licensed copy. Data used during the evaluation should not be affected.



3. Click "Ok" on the initial screen of the RFID Load Manager install wizard.
4. You can enter a different directory/folder in which to install RFID Load Manager or just accept the default (recommended).

5. Click Ok on the final screen.
6. RFID Load Manager is now installed.



Configure RFID Load Manager

There are basically two areas in RFID Load Manager that may need configuration:

- o RFID Load Manager operating defaults.
- o Location of files

Configure RFID Load Manager Operating Defaults

RFID Load Manager allows the entry of certain default values to guide how it behaves.

In RFID Load Manager, click on Options→General. Enter values in the following fields:

- From CAGE – Enter your Ship From CAGE code.
- Prime CAGE – Enter the Prime Contractor's CAGE code, if this is different from the Ship From CAGE code.

See the section titled *General Configuration Options* on page 32 for more information on this configuration screen.

Configure File Locations

During pre-installation steps you should have decided where to save RFID Load Manager data—either on the individual user's/users' personal computer(s) or on a centralized, networked computer.

Start RFID Load Manager, either by double-clicking the RFID Load Manager icon or through the Start button on your personal computer.

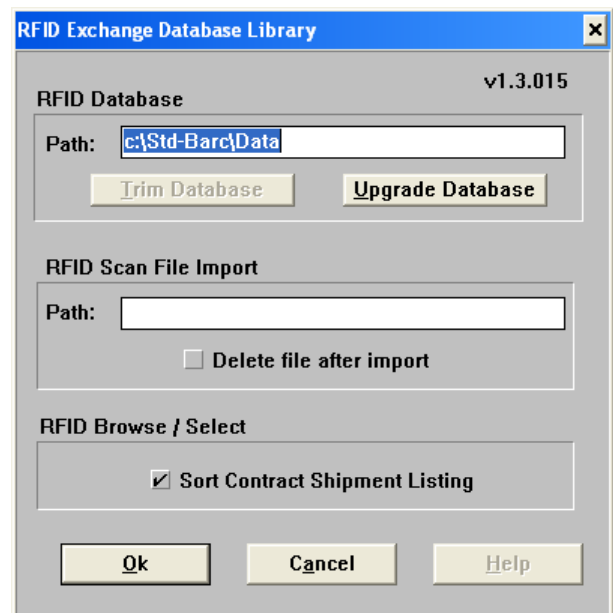
If you are saving RFID Load Manager Data on a single personal computer (not sharing data between multiple computers):

No file location configuration is necessary.

If you are sharing RFID Load Manager data between more than one personal computer:

1. Click Databases->RFID Aggregation->Configure->General.
2. Enter the mapped network folders where you plan to store RFID Load Manager data in the RFID Database Path field. This is the network mapped drive and folders that you should have created during the pre-installation steps.

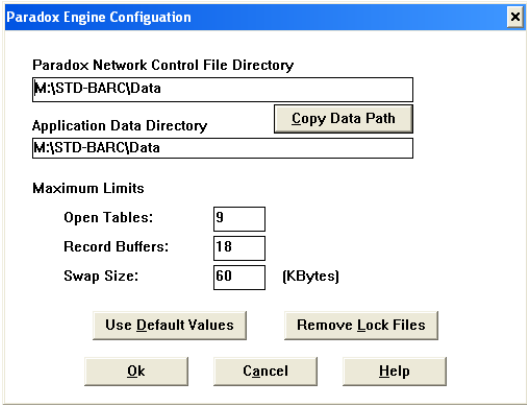
This must be formatted using traditional eight-character directory path names, such as M:\Shipping\DD250s. Network administrators typically assist in this



step. Mil-Pac software does not support UNC (Universal Naming Convention) names, such as \\Shipping\MilitarySoftware.

- 3. Click Ok.
- 4. Click Options->Paradox Engine.

5. Enter the mapped network folders where you plan to store RFID Load Manager data in the Paradox Network Control File Directory field. You can just click the “Copy Data Path” button to copy the RFID Load Manager data directory information into the Application Data Directory field. Leave the other fields at their default values unless instructed to change them by Mil-Pac technical support.



- 6. Click Ok.

NOTE: In situations in which other Mil-Pac software is installed, such as DD-Master, DD-Formstation, and RFID Load Manager, we recommend creating a directory structure as follows:

Network share (such as [\\Shipping\MilitarySoftware](#)) which would be mapped to a drive letter (such as M:\).

- RFID Load Manager folder (M:\RLoadMgr)
 - RFID Load Manager Data folder (M:\RLoadMgr\Data)
 - Other RFID Load Manager sub-folders, as required
- DD-Master folder (M:\DDMaster)
 - DD-Master Data folder (M:\DDMaster\Data)
 - Other DD-Master sub-folders, as required

Other Mil-Pac folders, following the same organization as noted above...

In this situation, we recommend configuring the Paradox Network Control File Directory for all applications to be the root of the network share, M:\ in our above example.

Tutorial - Getting Started

Submitting Advance Shipment Notices (ASNs) with RFID Load Manager is basically 3 steps (and the first 2 are optional!). After you have created your RFID data, either through printing RFID tags with Std-Barc or importing RFID data from some other source:

Step 1 – Review and Manage the Data

Click Browse to bring up your shipment. Either type in the Contract, Order, and Shipment Number or just pick them from the list. RFID Load Manager displays the RFID tag data.

The screenshot shows the 'Browse RFID Database' window. The main table displays the following data:

Pallet Tag	Case Tag	Unit Tag	Sub	CLIN	Qty	UOI	UID
2F0>0000001F1	2F1>000000668			0001	25	EA	
2F0>0000001F1	2F1>0000001F2			0001	1	EA	
2F0>0000001F1	2F1>0000001F3			0001	1	EA	
2F0>0000001F1	2F1>0000001F4			0001	1	EA	
2F0>0000001F1	2F1>0000001F5			0001	1	EA	
2F0>0000001F1	2F1>0000001F6			0001	1	EA	
2F0>0000001F1	2F1>0000001F7			0001	1	EA	
2F0>0000001F1	2F1>0000001F8			0001	1	EA	
2F0>0000001F1	2F1>0000001F9			0001	1	EA	
2F0>0000001F1	2F1>0000001FA			0001	1	EA	
2F0>0000001F1	2F1>0000001FB			0001	1	EA	
2F0>0000001F1	2F1>0000001FC			0001	1	EA	
2F0>0000001F1	2F1>0000001FD			0001	1	EA	
2F0>0000001F1	2F1>0000001FE			0001	1	EA	
2F0>0000001F1	2F1>0000001FF			0001	1	EA	
2F0>0000001F1	2F1>000000200			0001	1	EA	
2F0>0000001F1	2F1>000000201			0001	1	EA	
2F0>0000001F1	2F1>000000202			0001	1	EA	
2F0>0000001F1	2F1>000000203			0001	1	EA	
2F0>0000001F1	2F1>000000204			0001	1	EA	

Annotations in the screenshot:

- 'Loose case, not on a pallet.' points to the first row (Pallet Tag 2F0>0000001F1, Case Tag 2F1>000000668).
- 'Case on a Pallet.' points to the second row (Pallet Tag 2F0>0000001F1, Case Tag 2F1>0000001F2).
- 'Pallet header record.' points to the second row.

Below the table, there are controls for filtering, detail level, and sorting. The 'Filtering Enabled' section has checkboxes for Pallet, Case, and Unit. The 'Detail Level' section has expandable options for Pallet, Case, and Unit (all). The 'UID Filter' section has options for All, With UID, and No UID. The 'Sort View By' section has a list of options: RFID, Shipment; Shipment, RFID; RFID, UID; UID, RFID. There are also buttons for New, Delete, Copy, Archive, Modify, Help, Pack In / On (Case, Pallet), Refresh List, Auto Refresh, and Close. The status bar at the bottom indicates 'Database items: 1706, Listed: 163, Selected: 0'.

Make sure that the displayed data is what you want to submit. If it is not, you can use the buttons on the screen to correct data ([New], [Copy], [Delete], etc.). Once you are satisfied that the shipment data is accurate, click [Close].

This step is optional, particularly if you already verified in Std-Barc that the RFID data is accurate for the shipment.

Step 2 – Print Pack Report

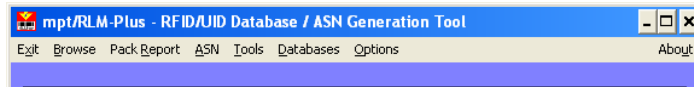
Click [Pack Report] to print a paper report of what is on the shipment. Just pick your shipment and your printer. This step is optional.

Step 3 – Submit the ASN

Click on [ASN] and [WAWF Pack Update] or [VIM-ASAP Update] depending on where you want the RFID data to go. Either way you'll get a confirmation screen showing what you are submitting and then depending on how you are connected to these systems you'll get one or two communication screens to actually send the data.

ALL DONE!

Guide to Menus and Windows



RFID Load Manager menus are as follows:

- **Exit** – Exits the application.
- **Browse** – Allows you to view and make changes to the list of RFID data for shipments. See the section titled *Browse Menu Option* on page 14.
- **Pack Report** – Prints an organized listing of RFID tags for a shipment together with a shipment summary.
- **ASN** – Generates and transmits an Advance Shipment Notice for a shipment. See the section titled *Advanced Shipment Notice (ASN)* on page 19.
- **Tools** –
 - **Match RF-UIDs** – This menu option is for a very specialized business case and system architecture, involving stationary RFID readers. Contact Mil-Pac Technology Technical Support for more information.
 - **Commit UIDs** - This menu option is for a very specialized business case and system architecture, involving stationary RFID readers. Contact Mil-Pac Technology Technical Support for more information.
 - **Batch RF-Aggr Import** – Imports Shipment, RFID and (optionally) UID data from other systems. These imports contain all data required to generate an ASN and do not require the use of RFID Load Manager to create data. See the section titled *Batch RF-Aggr Import* on page 23.
 - **Auto-Gen Tag Data** – Automatically generates RFID data. For use when pre-encoded RFID tags are used rather than when RFID tags are printed within RFID Load Manager. See the section titled *Auto-Gen Tag Data* on page 24.
 - **Import Scanned Data** – Imports pallet aggregation data that is created by external software. Typically this consists of a list of RFID cases that are on separate pallets. These imports consist only of the association of cases to pallets and require shipment data from RFID Load Manager. See the section titled *Import Scanned Data* on page 25.
- **Databases** –
 - **RFID Aggregation** –
 - **Browse** – Allows you to view and make changes to the list of RFID data for shipments. See the section titled *Browse Menu Option* on page 14.
 - **Archives** – Allows you to view data that has been archived from RFID Load Manager active database. This screen works almost identically to the Browse screen, which is described in the section

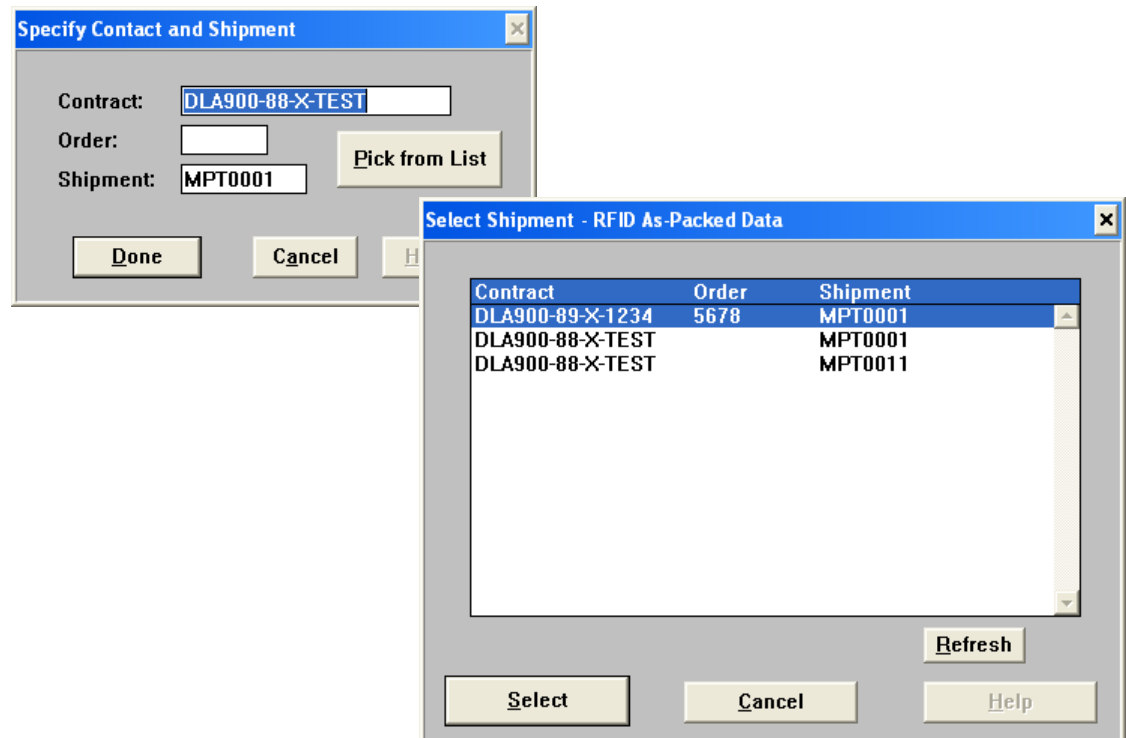
- titled *Browse Menu Option* on page 14.
- **Import Aggr File** – Imports pallet aggregation data that is created by external software. Typically this consists of a list of RFID cases that are on separate pallets. These imports consist only of the association of cases to pallets and require shipment data from Std-Barc. See the section titled *Import Scanned Data* on page 25.
- **Batch Aggr Import** – Imports Shipment, RFID and (optionally) UID data from other systems. These imports contain all data required to generate an ASN and do not require the use of Std-Barc to create data. See the section titled *Batch RF-Aggr Import* on page 23.
- **Export** – This feature not yet implemented.
- **Configure** –
 - **General** – Configure settings related to the RFID database for the software. See the section titled *Configure RFID Database* on page 27.
 - **Tag Generator** – Configure settings for the Auto-Gen Tag feature. See the section titled *Configure Tag Generator* on page 28.
- **Paradox Engine** – Configure settings related to Paradox database engine, which is the type of database in which the data is stored. See the section titled *Paradox Engine Configuration* on page 33.
- **UID** –
 - **Browse** – Allows you to view and make changes to a list of available UIDs. See the section *Browse UIDs* on page 28.
 - **Import** – Import UID data from some external system for inclusion in an Advance Shipment Notice. See the section *UID Import* on page 30.
 - **Configure** – Configure settings related to the UID database for the software. See the section *Configure UID Database* on page 30.
 - **Export** – This menu option exports all the UIDs to a comma-separated value (CSV) text file in the RFID Load Manager application directory (C:\RLoadMgr by default).
 - **Archives** – Allows you to view data that has been archived from RFID Load Manager active database. This screen works almost identically to the Browse screen, which is described in the section titled *Browse UIDs* on page 28.
 - **Paradox Engine** – Configure settings related to Paradox database engine, which is the type of database in which the data is stored. See the section titled *Paradox Engine Configuration* on page 33.

- **Options** –
 - **General** – Configure general settings for the software. See the section titled *General Configuration Options* on page 32.
 - **WAWF** – Configure settings related to how the software will communicate with WAWF. This topic is outside the scope of this manual. Please contact Mil-Pac Technology technical support for more information.

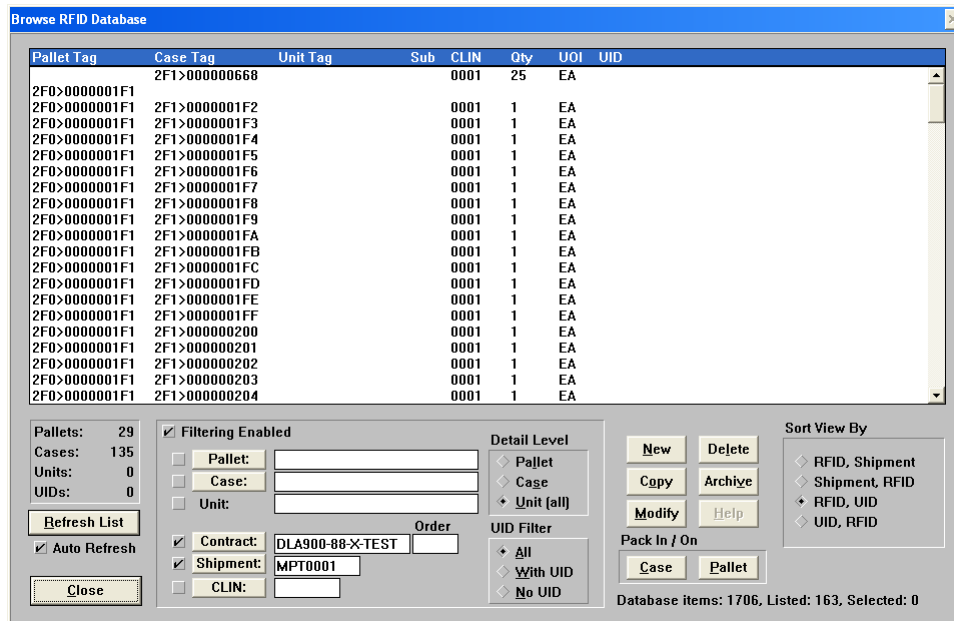
Browse Menu Option

The Browse menu option is a very powerful feature, allowing you to view RFID and UID data associated with a shipment and make changes to that data.

When you select the Browse menu option the software first displays a window requesting information for the shipment you wish to view. Enter the information or click on [Pick from List] to view a list of shipments to choose from.



The RFID and UID data for the shipment displays on this screen:



The buttons and fields on this screen, basically from left to right, are:

- **Refresh List** – Re-displays the list of RFID tags based on the Filtering, Detail Level and Sort View.
- **Auto Refresh** – Automatically refreshes the list of displayed records when changes are made, such as filtering, detail level, and sort view by. Checking this box can make display of records more convenient. Un-checking this box and clicking [Refresh List] when required can improve display speed for very large shipments.
- **Close** – Closes the window and returns to the main menu.
- **Filtering Enabled** – Turns on and off filtering. When Filtering Enabled is not checked (no checkmark) then all RFID tags in the database are displayed. When Filtering Enabled is checked then only the tags are displayed that match the filter conditions entered in the filter fields as explained below:
 - **Pallet** – To filter the displayed RFID tags by a Pallet, click on the checkbox next to the [Pallet] button and enter a Pallet RFID tag. To automatically enter the Pallet RFID tag, click on the desired Pallet in the list and click on the [Pallet] button under Filtering Enabled.
 - **Case** – To filter the displayed RFID tags by a Case, click on the checkbox next to the [Case] button and enter a Case RFID tag. To automatically enter the Case RFID tag, click on the desired Case in the list and click on the [Case] button under Filtering Enabled.
 - **Unit** – To filter the displayed RFID tags by a Unit pack RFID tag, click on the checkbox next to Unit and enter a Unit RFID tag.

- **Contract** – To filter the displayed RFID tags by Contract, click on the checkbox next to Contract and enter the Contract number. To automatically enter the Contract (and Order, if applicable), click on a Case in the list that is assigned to the desired Contract/Order and click on the [Contract] button under Filtering Enabled.
- **Order** – To filter the displayed RFID tags by a Contract and Order, click on the checkbox next to Contract and enter the Contract number and Order.
- **Shipment** – To filter the displayed RFID tags by a Shipment, click on the checkbox next to Shipment and enter a Shipment number. To automatically enter the Shipment, click on a Case in the list that is assigned to the desired Shipment and click on the [Shipment] button under Filtering Enabled.
- **CLIN** – To filter the displayed RFID tags by a CLIN, click on the checkbox next to CLIN and enter a CLIN. To automatically enter the CLIN, click on a Case in the list that is assigned to the desired CLIN and click on the [CLIN] button under Filtering Enabled.
- **Detail Level** –
 - **Pallet** – Displays only the Pallets.
 - **Cases** – Displays Cases and Pallets.
 - **Unit (All)** – Displays Units, Cases, and Pallets.
- **UID Filter** –
 - **All** – Displays RFID tags, regardless of whether or not they have UIDs associated with them.
 - **With UID** – Displays only RFID tags *with* associated UIDs.
 - **No UID** – Displays only RFID tags *without* associated UIDs.
- **New** – Creates a new RFID tag record by typing in the associated data. See the section titled *New RFID Entry* on page 17.
- **Copy** – Creates a new RFID tag record by copying an existing RFID tag record. See the section titled *Copy RFID Entry* on page 18.
- **Modify** – Changes information for one or more RFID tag records. See the section titled *Modify Multiple Items* on page 18.
- **Delete** – Deletes one or more RFID tag records. Just highlight the records to delete and click [Delete]. *Warning* – Once records are deleted, they cannot be recalled.
- **Archive** – Moves one or more RFID tag records to an archive database. This cleans up the primary database, but keeps the archived records for future reference. Note that once records are archived they cannot be moved back to the primary database. Just highlight the records to be archived and click [Archive].
- **Pack In / On** – Associates RFID tags with other RFID tags on the Advance Shipment Notice.
 - **Case** – Packs RFID tagged Unit containers or UIDs into an RFID tagged Case (Exterior Container). Select one or more Unit RFID tags or UIDs and click the Pack In / On [Case] button. The program will display a list of possible cases. Select the case to associate with the selected record(s), or click <NONE> to remove any existing case associations and click [Done].
 - **Pallet** – Packs RFID tagged Cases (Exterior Containers), Unit packs, or UIDs onto an RFID tagged Pallet. Select one or more Case RFID tags,

Unit RFID tags or UIDs and click the Pack In / On [Pallet] button. The program will display a list of possible pallets. Select the pallet to associate with the selected record(s), or click <NONE> to remove any existing pallet associations and click [Done].

- **Sort View By** – Changes the display sequence of the records. Just click the desired sort order (and click [Refresh] if Auto-Refresh is not selected).

New RFID Entry

The screenshot shows a dialog box titled "New RFID Entry". It contains the following fields and controls:

- UID Unit: [Text Box] [Select]
- in Case: [Text Box] [Select]
- on Pallet: [Text Box] [Select]
- Sub-Item Index: [Text Box]
- UID: [Text Box]
- CLIN: [Text Box]
- Qty: [Text Box]
- UOI: [Text Box]
- Contract: [Text Box] (value: DLA900-89-X-1234)
- Order: [Text Box] (value: 5678)
- Shipment: [Text Box] (value: MPT0001)
- Buttons: Done, Cancel, Help

The New RFID Entry screen is available from the Browse RFID Database screen (See section titled *Browse Menu Option* on page 14). This screen lets you create entries in the RFID database. This option is rarely used but is provided for occasions when this might be necessary.

The buttons and fields on this screen are:

- **UID Unit** – Enter the RFID tag data for the Unit Container, if applicable.
- **In Case** – Enter the RFID tag data for the Exterior Container, if applicable.
- **On Pallet** – Enter the RFID tag data for the Pallet, if applicable.
- **UID** – Enter the UID data, if applicable.
- **CLIN** – Enter the CLIN. This is not required if you are creating a new Pallet RFID tag.
- **Qty** – Enter the CLIN quantity. This is not required if you are creating a new Pallet RFID tag.
- **UOI** – Enter the Unit of Issue. This is not required if you are creating a new Pallet RFID tag.
- **Contract, Order, and Shipment** – These will default to the currently displayed

records, but can be changed if desired.

Copy RFID Entry

This feature works exactly as the New RFID Entry, except that you first select an entry in the list of RFID data and then click the [Copy] button. The New RFID Entry form displays with the data from the selected RFID data filled in to the fields. Change any fields as desired.

This option is accessed from the Browse RFID Database screen (See section titled *Browse Menu Option* on page 14).

Modify Multiple Items

The [Modify] button on the Browse RFID Database screen (See section titled *Browse Menu Option* on page 14) allows you to modify the data related to one or more displayed RFID tags. Highlight the records you want to change and click the [Modify] button.

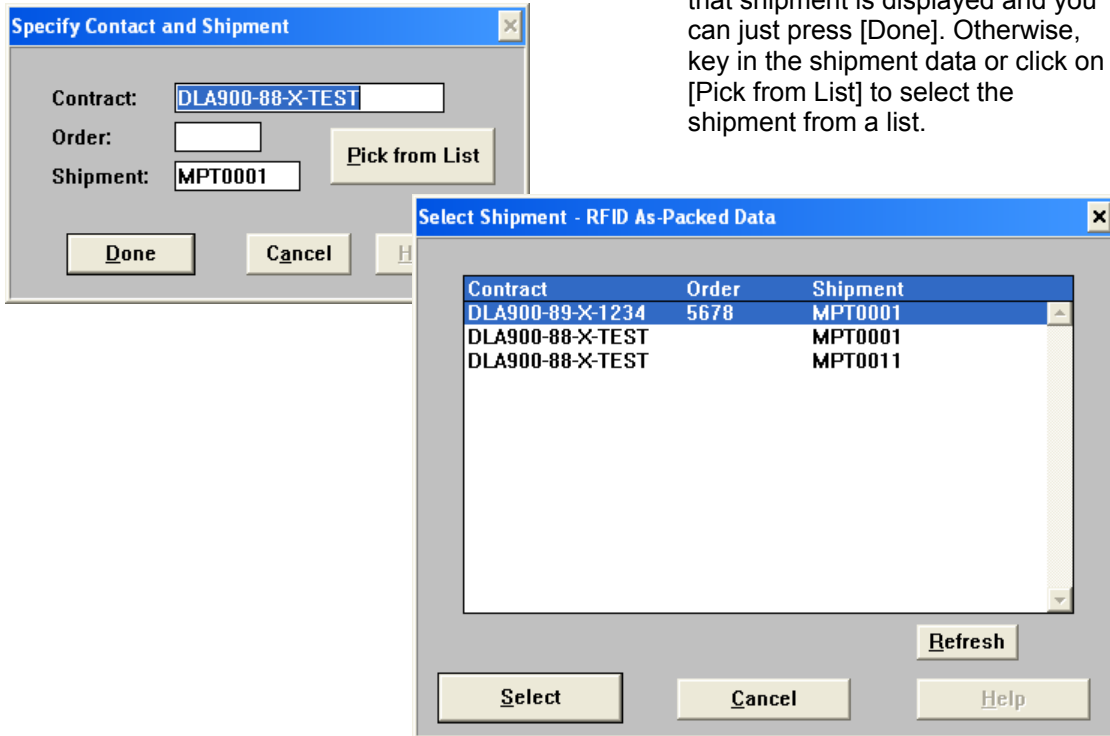
Enter data in the fields that you want to change. Leave the other fields blank and they will retain their existing data. Click [Done] when finished.

Advanced Shipment Notice (ASN)

The ASN menu option allows you to create and transmit the Advanced Shipment Notice required for RFID shipments. You have the option of transmitting a Pack Update transaction directly to WAWF, or for contracts that are in the VIM-ASAP system you can transmit the VIM-ASAP RFID File. VIM-ASAP is typically used only for Clothing & Textile contracts. If you don't know whether you need a WAWF Pack Update or a VIM-ASAP RFID File, you almost certainly need the WAWF Pack Update.

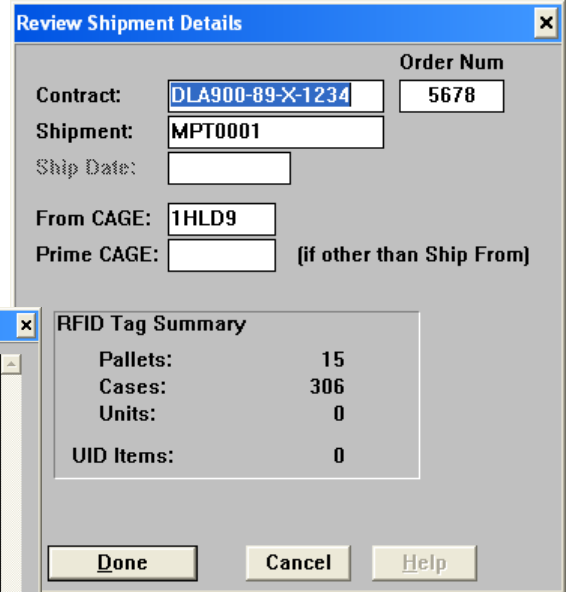
From the ASN menu, select either WAWF Pack Update or VIM-ASAP Update.

- **WAWF Pack Update** – The program displays the Specify Contract and Shipment window, identical to other menu options. If you have already selected a shipment, that shipment is displayed and you can just press [Done]. Otherwise, key in the shipment data or click on [Pick from List] to select the shipment from a list.



Once you have selected the shipment, the program displays a shipment confirmation screen. Verify that the displayed data is correct, change any data necessary, and click [Done].

If you are using the Mil-Pac Technology Value-Added Network (VAN) to transmit the ASN to WAWF, the program will display the FTP Monitor.



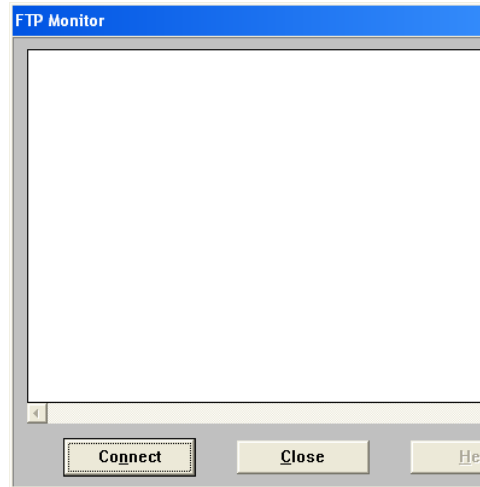
Review Shipment Details

Contract:	DLA900-89-X-1234	Order Num	5678
Shipment:	MPT0001		
Ship Date:			
From CAGE:	1HLD9		
Prime CAGE:		(if other than Ship From)	

RFID Tag Summary

Pallets:	15
Cases:	306
Units:	0
UID Items:	0

Done Cancel Help

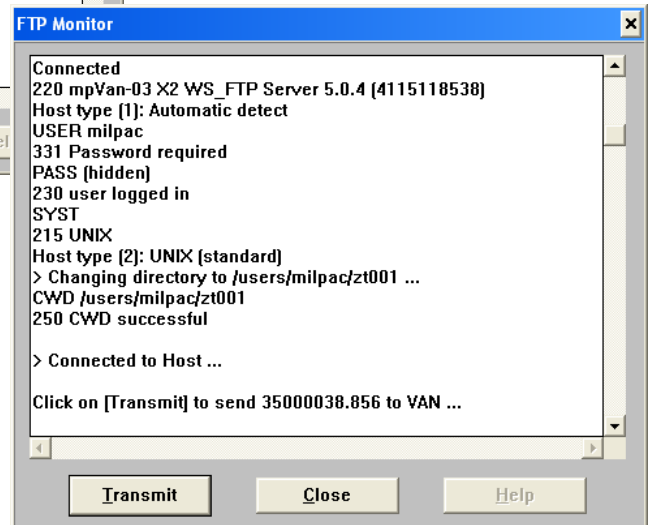


FTP Monitor

Connect Close Help

Click on [Connect].

The program will display something similar to this →



FTP Monitor

```
Connected
220 mpVan-03 X2 WS_FTP Server 5.0.4 [4115118538]
Host type [1]: Automatic detect
USER milpac
331 Password required
PASS [hidden]
230 user logged in
SYST
215 UNIX
Host type [2]: UNIX (standard)
> Changing directory to /users/milpac/zt001 ...
CWD /users/milpac/zt001
250 CWD successful

> Connected to Host ...

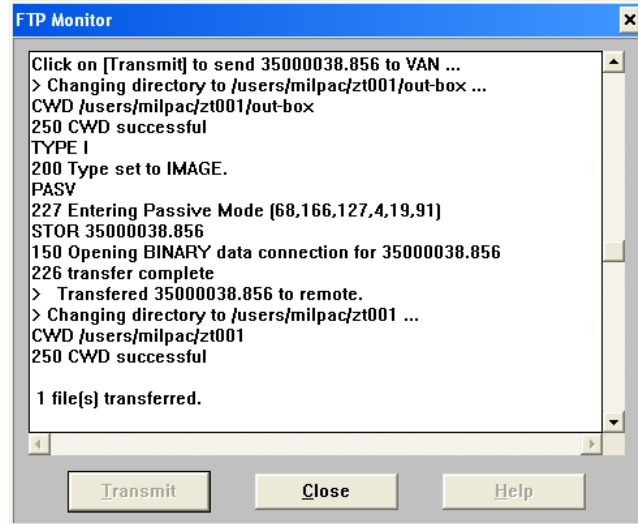
Click on [Transmit] to send 35000038.856 to VAN ...
```

Transmit Close Help

Click on [Transmit] to complete the transaction. The program will display something similar to this →

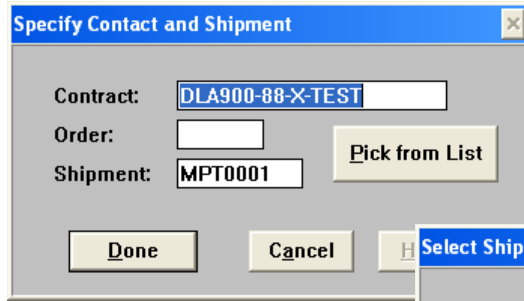
You may occasionally get a message that the transaction failed to transmit. Since the transaction is being transmitted across the internet it may timeout. Just try again and it will almost always succeed.

Click [Close] to close the FTP Monitor and return to the main menu screen.



- VIM-ASAP Update** – This allows you to transmit RFID data to VIM-ASAP and should only be used if your contract is in the VIM-ASAP system.

The program displays the Specify Contract and Shipment window, identical to other menu options. If you have already selected a shipment, that shipment is displayed and you can just press [Done]. Otherwise, key in the shipment data or click on [Pick from List] to select the shipment from a list.

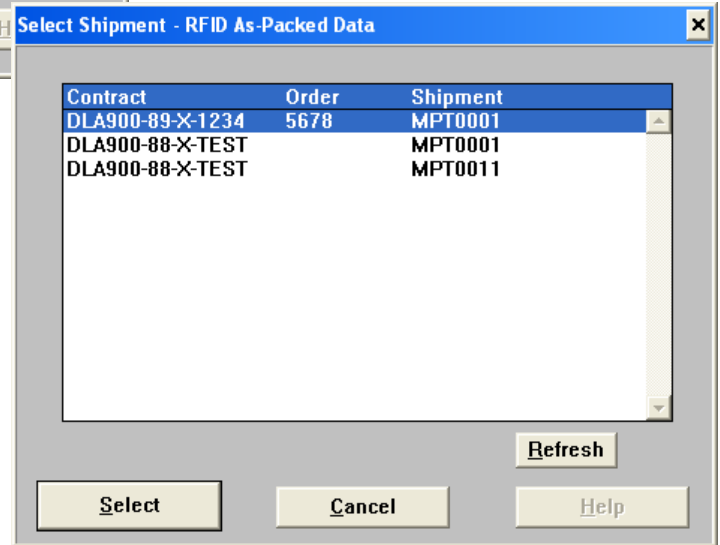


Specify Contract and Shipment

Contract: DLA900-88-X-TEST

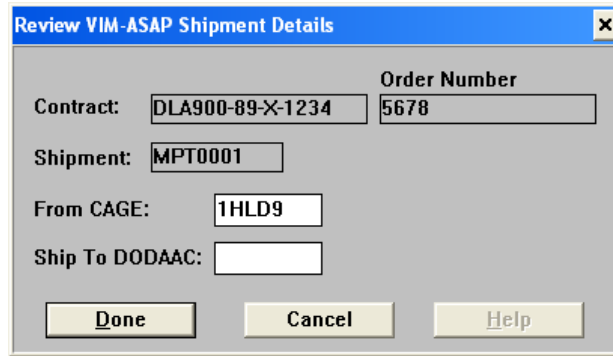
Order:

Shipment: MPT0001



Select Shipment - RFID As-Packed Data

Contract	Order	Shipment
DLA900-89-X-1234	5678	MPT0001
DLA900-88-X-TEST		MPT0001
DLA900-88-X-TEST		MPT0011



Review VIM-ASAP Shipment Details

Contract: DLA900-89-X-1234

Order Number: 5678

Shipment: MPT0001

From CAGE: 1HLD9

Ship To DODAAC:

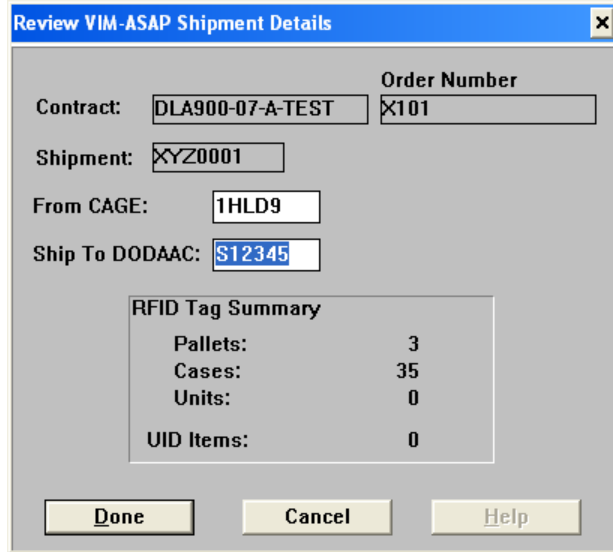
Once you have selected the shipment, the program displays a screen to allow you to review the shipment details, changing some data as required.

Once the data is correct, click [Done].

The program will display a second review screen with pallet and case count on it. If these numbers are accurate, click on [Done].

The program then generates the VIM-ASAP RFID File and hands the file off to an external file transfer program.

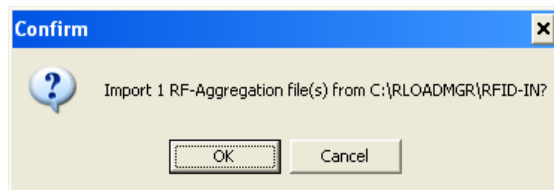
Contact Mil-Pac Technology technical support for details about how this external file transfer program interacts with RFID Load Manager.



Batch RF-Aggr Import

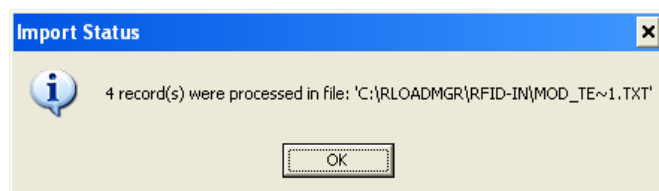
This menu option allows you to import aggregated RFID data, including Shipment, RFID and (optionally) UID data from other systems. These imports contain all data required to generate an ASN and do not require the use of Std-Barc to create data.

Once you select the Tools->Batch RF-Aggr Import menu option, or the Databases->RFID Aggregation->Batch Aggr Import menu option, the program searches for RF-Aggregation files and displays a confirmation message to import the files. Click [OK] to import the file(s). *NOTE: To configure which folder the program searches for the files, go to Options->General.*



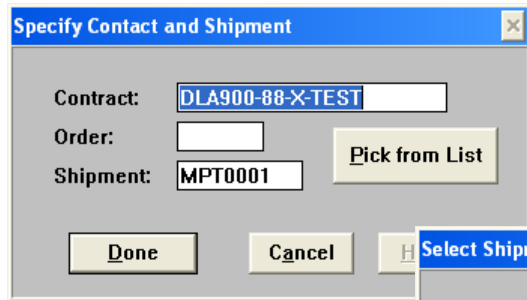
After the program imports the file(s), the program displays a status message like this.

The imported data is now ready to use.



Auto-Gen Tag Data

This feature is normally used with pre-encoded RFID tags as an alternative to print/encode on-demand through Std-Barc. Through this feature you can enter starting RFID tag data and the number of tags desired and in just a few seconds RFID Load Manager will generate dozens, hundreds, or thousands of RFID records for WAWF submission.



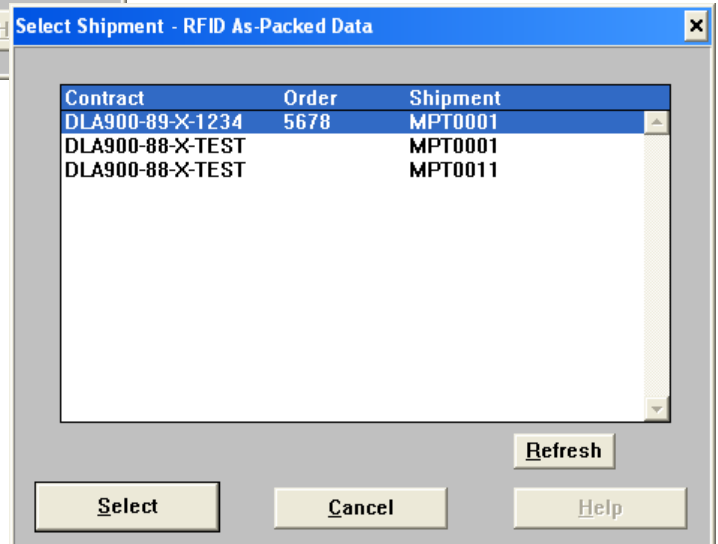
Specify Contract and Shipment

Contract:

Order:

Shipment:

The program displays the Specify Contract and Shipment window, identical to other menu options. If you have already selected a shipment, that shipment is displayed and you can just press [Done]. Otherwise, key in the shipment data or click on [Pick from List] to select the shipment from a list.



Select Shipment - RFID As-Packed Data

Contract	Order	Shipment
DLA900-89-X-1234	5678	MPT0001
DLA900-88-X-TEST		MPT0001
DLA900-88-X-TEST		MPT0011

Once you select the Tools->Auto-Gen Tag Data menu option, the program displays this screen →

Enter shipment data at the top, CLIN data in the middle, and RFID data at the bottom. All fields must be filled in, except for the Pallet Tag field, which is required only if the [Use Pallet Tag] checkbox is checked.

If you want to automatically associate the case tags with the pallet tags, enter the pallet tag data and the first case tag that will be on the pallet. Enter the number of cases on the pallet and click Refresh. The program displays the Last Tag ID that will be on the pallet, for you to confirm against your pre-encoded RFID tags.

When the displayed data is correct, click [Generate] to create the RFID records.

Continue to click [Generate] to create more pallets, change data as necessary, or click [Done] when finished.

The screenshot shows the 'Auto-Generate Case Tags' dialog box with the following fields and controls:

- CAGE Code:** 1HLD9
- Order Num:** 5678
- Contract:** DLA900-89-X-1234
- Shipment:** MPT0001
- Line Item (CLIN):** 0001
- Unit of Issue:** EA
- CLIN Quantity (per Case):** 1
- Part ID:** BR549
- Use Pallet Tag:** (checked)
- First Case Tag:** 2F12031484C443900000065C
- Number of Cases:** 10
- Last Tag ID:** 2F12031484C4439000000665
- RFID Tag Summary:** Pallets: 0, Cases: 0
- Buttons:** Generate, Done, Cancel, Help, Refresh

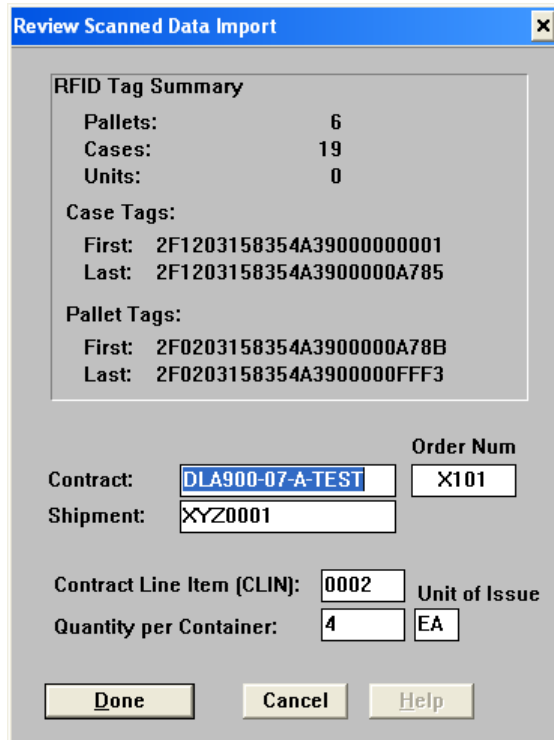
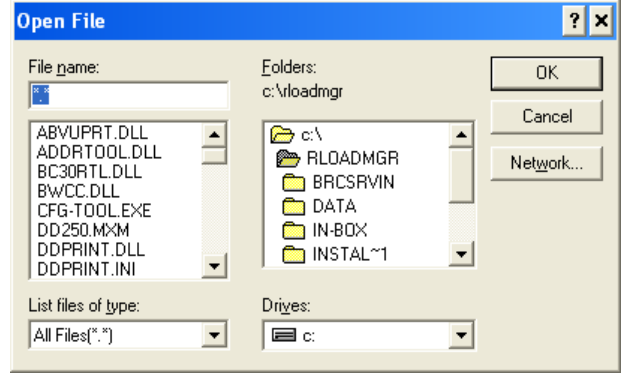
You can view the created records in the Browse screen and in the printed Pack Report.

Import Scanned Data

This feature is allows you to import pallet aggregation data that is created by external software. Typically this consists of a list of RFID cases that are on separate pallets. These imports consist only of the association of cases to pallets and require shipment data from Std-Barc. This is typically data that is created by software communicating with RFID readers, either stationary portal-type readers, or mobile hand-held readers.

After you click Tools->Import Scanned Data or Databases->RFID Database->Import Aggr File, the program displays a standard Windows file browser screen.

Highlight the file to import and click OK.



The program displays a confirmation screen with details from the selected import file.

You can change shipment and CLIN information from what is in the file.

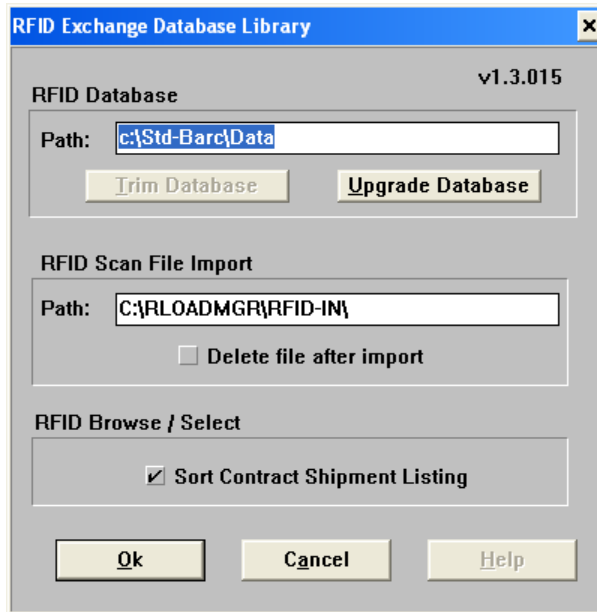
When the displayed information is correct, click [Done] to import the file data and create the RFID tag records.

You can view the created records in the Browse screen and in the printed Pack Report.

Configure RFID Database

This menu option allows you to configure file locations for the RFID database and a few other settings. To reach this screen click Databases->RFID Aggregation->Configure->General.

- **RFID Database Path** – The Path field specifies where the RFID database is stored. Enter the drive and directory where the database is stored. The path must be entered as drive and directory (example C:\RLoadMgr\Data) and not as UNC (Universal Naming Convention) (example [\\Fred-Desktop\RLoadMgr\Data](#)).
- **[Upgrade Database]** – This option creates a new database and copies any existing data to the new database. This would be required if the database structure changed between versions of software. This option should only be used upon advice from a Mil-Pac Technology technical representative.
- **RFID Scan File Import Path** – The Path field specifies where program looks for RFID Scan Files to import. Enter the drive and directory where the files are stored. The path must be entered as drive and directory (example C:\RLoadMgr\RFID-In) and not as UNC (Universal Naming Convention) (example [\\Fred-Desktop\RLoadMgr\In](#)).
- **Delete file after import** – This feature is not yet implemented. The file is renamed after import to avoid repeating the import, whether this box is checked or not.
- **RFID Browse / Select -> Sort Contract Shipment Listing** – This setting controls whether or not the shipments are sorted by Contract Number or by creation date in the Select Shipment window that is displayed from several menu choices in RFID Load Manager.

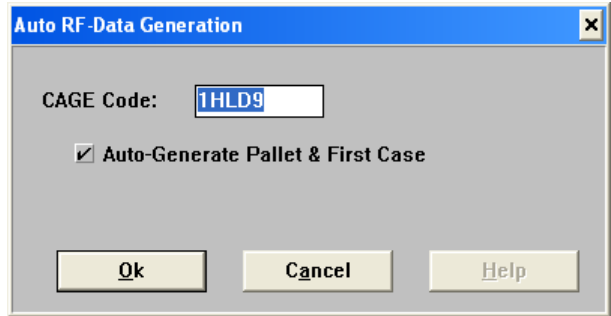


Configure Tag Generator

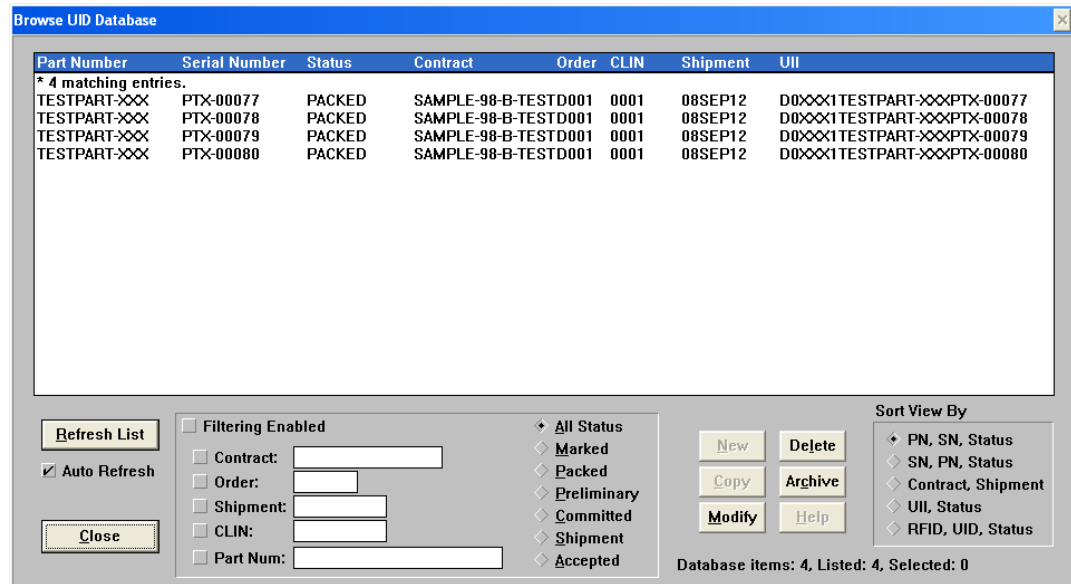
This menu options lets you configure how the RFID tag auto-generator works. Reach this screen by clicking Databases->RFID Aggregation->Configure->Tag Generator.

Enter the CAGE code to be used in the auto-generated RFID records.

To have RFID Load Manager automatically generate the pallet and first case RFID tag numbers, check Auto-Generate Pallet & First Case. Leave it blank to enter these values.



Browse UIDs



This menu option allows you to view and edit data related to UIDs, independent of their association with RFIDs.

The buttons and fields on this screen, basically from left to right, are:

- **Refresh List** – Re-displays the list of UIDs based on the Filtering and Sort View settings.
- **Auto Refresh** – Automatically refreshes the list of displayed records when

changes are made, such as filtering and sort view settings. Checking this box can make display of records more convenient. Un-checking this box and clicking [Refresh List] when required can improve display speed for very large lists.

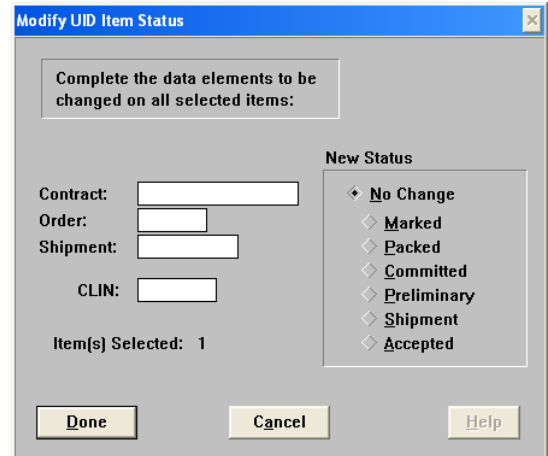
- **Close** – Closes the window and returns to the main menu.
- **Filtering Enabled** – Turns on and off filtering. When Filtering Enabled is not checked (no checkmark) then all UIDs in the database are displayed. When Filtering Enabled is checked then only the UIDs are displayed that match the filter conditions entered in the filter fields as explained below:
 - **Contract** – To filter the displayed UIDs by Contract, click on the checkbox next to Contract and enter the Contract number.
 - **Order** – To filter the displayed UIDs by a Contract and Order, click on the checkbox next to Contract and enter the Contract number and Order.
 - **Shipment** – To filter the displayed UIDs by a Shipment, click on the checkbox next to Shipment and enter a Shipment number.
 - **CLIN** – To filter the displayed UIDs by a CLIN, click on the checkbox next to CLIN and enter a CLIN.
 - **Status** – To filter based on the status of the shipment, click the desired filter status, such as “All Status”, “Packed”, etc.
- **Modify** – Changes information for one or more UIDs. See the section titled *Modify UID Item* on page 30.
- **Delete** – Deletes one or more UIDs. Just highlight the records to delete and click [Delete]. *Warning* – Once records are deleted, they cannot be recalled.
- **Archive** – Moves one or more UIDs to an archive database. This cleans up the primary database, but keeps the archived records for future reference. Note that once records are archived they cannot be moved back to the primary database. Just highlight the records to be archived and click [Archive].
- **Sort View By** – Changes the display sequence of the records. Just click the desired sort order (and click [Refresh] if Auto-Refresh is not selected).

Note that filtering is cumulative, meaning that the displayed records will match ALL of the selected filter conditions. To remove a field from the filter condition, just turn off the checkmark next to the filter field.

Modify UID Item

The [Modify] button on the Browse UID Database screen (See section titled Browse UIDs on page 28) allows you to modify the data related to one or more displayed UIDs. Highlight the records you want to change and click the [Modify] button.

Enter data in the fields that you want to change. Leave the other fields blank and they will retain their existing data. Click [Done] when finished.

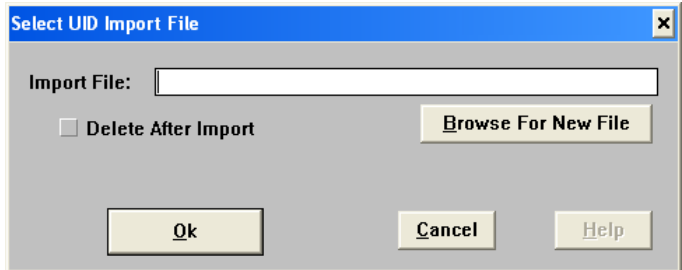


UID Import

This menu option allows you to import UIDs from other systems.

Once you select the Databases->UIDs->Import menu option, the program prompts for the file to import.

After the program imports the file(s), the program displays a status message like this.



The imported data is now ready to use.

Configure UID Database

This menu option allows you to configure file locations for the UID database and a few other settings. To reach this screen click Databases->UIDs->Configure.

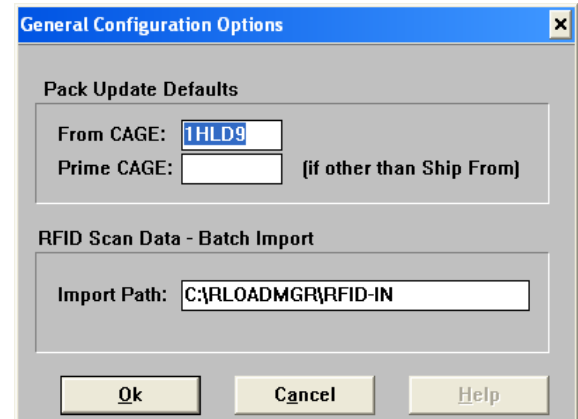
- **UID Database Path** – The Path field specifies where the UID database is stored. Enter the drive and directory where the database is stored. The path must be entered as drive and directory (example C:\RLoadMgr\Data) and not as UNC (Universal Naming Convention) (example [\\Fred-Desktop\RLoadMgr\Data](#)).
- **[Upgrade Database]** – This option creates a new database and copies any existing data to the new database. This would be required if the database structure changed between versions of software. This option should only be used upon advice from a Mil-Pac Technology technical representative.

- **UID Data File Import Path** – The Path field specifies where program looks for UID Files to import. Enter the drive and directory where the files are stored. The path must be entered as drive and directory (example C:\RLoadMgr\RFID-In) and not as UNC (Universal Naming Convention) (example [\\Fred-Desktop\RLoadMgr\In](#)).
- **Skip First Import File line** – Selecting this setting causes the program to ignore the first line in the import file, which would be appropriate when the first line contains field names and not actual data.
- **Delete file after import** – Selecting this setting causes the program to rename the file after import to avoid repeating the import.
- **Map File Name** – This is the name of the map file used to map import file fields to UID database fields. This should be left blank to use the default map unless Mil-Pac Technology technical support advises otherwise.
- **Receiving Report Generation** – This defines which form is generated from imported data, and is primarily on this screen for use in other Mil-Pac software that also share this screen.

General Configuration Options

This menu option allows you to configure overall settings.

- **Pack Update Defaults:** These are the CAGE codes that will be used by default in the Advance Shipment Notice for the following fields. These values can be changed at the time of each ASN generation, but are set as a default here to reduce keystrokes.
 - **From CAGE** – Ship From CAGE
 - **Prime CAGE** – Prime Cage. This will normally be left blank, but should be filled in when the Prime CAGE and the Ship From CAGE are different. This causes the program to use a CAGE extension for the Ship From CAGE. Contact Mil-Pac Technology technical support for more information.
- **RFID Scan Data – Batch Import Path** – This is the directory the program uses to search for Batch Import files to use in Batch RF-Aggr Import, as described in the section titled *Batch RF-Aggr Import* on page 23.



Paradox Engine Configuration

Paradox Overview

Many Mil-Pac applications use Paradox databases to manage many types of data seen by the user. Generally speaking, Paradox Engine configuration must be considered only whenever one or more of the following conditions apply:

1. Databases are stored on a network and shared with others
2. Databases are moved to a new location or machine
3. Windows XP (or other versions requiring administrative rights) is used.

Paradox Engine Lock Files

Paradox creates two types of lock files in order to manage databases:

NET files - are used to identify the various users of a database, so as to know who is using each record. These files, referred to as the Network Control Files, are named PARADOX.NET and PDOXUSRS.NET.

LCK files - are hold the current locks placed on database records by the various users identified by the NET files. The LOCK files keep users from changing the same records simultaneously. These files are named PARADOX.LCK and PDOXUSRS.LCK.

These lock files are transient files and can be deleted without problem, as long as the databases are not currently in use. In many cases, obsolete or invalid lock files are the source of database access errors and simply removing them solves the problem.

Sharing Databases on a Network Drive

Sharing databases used by Mil-Pac applications is fairly simple, although the assistance of a network administrator may be required. First a network directory is defined that is accessible to all users. Then a drive mapping is established using a traditional eight-character directory path names, such as M:\Shipping\DD250s. This is entered into the General Configuration Options of the application to be shared.

Next the Paradox Engine must be told where to store its Network Control (.NET) File(s). This can be on any shared directory; one of the shared application data directories will work just fine. This can be set with the Mil-Pac PXConfig Tool.

Moving Databases to a New Machine or Network Location

Moving databases is simple, yet also the common cause of Paradox access errors. First it is important to remember that Paradox tables consist of at least two, and often three files, all with the same name. The extensions of these files are .PX, .DB and .MB. The FormStation directory consists of, for example, FS-IDX.PX, FS-IDX.DB and FS-IDX.MB. In some rare cases there will not be an MB file. It is important to move the entire set of files at the same time.

The final step is to remove the lock files, as they will cause the database to be inaccessible in its new location. The PXConfig Configuration Dialog can do this for you.

These same steps should be followed when moving a database from a local drive to a network directory. First it is important to follow the steps on database sharing above.

Using Paradox on Windows XP

Paradox-based applications such as Mil-Pac software will work on Windows XP. However, if you are not are operating with administrator privileges, the default Paradox configuration must first be altered. This is something that is simple to do with PXConfig.

The problem with Paradox and XP is that Paradox wants to store its Network Control (.NET) files in the root directory, which XP does not like, and in order to change that the application must change WIN.INI, something that XP allows only administrators to do.

To solve these two problems, run PXConfig as the administrator (right-click on icon, and select Run-As), then:

1. Click on [Copy Data Path] which will tell Paradox to use the application database folder for its Network Control (.NET) files.
2. Click on [Remove Lock Files] to remove any persistent lock files.

Once the Paradox Engine is set to put its Network Control Files in other than the root directory, the application should work fine. Of course, locating the database and the Network Control Files on a shared network drive by following the steps above works as well.

Glossary of RFID Load Manager Terms

CAGE

A **C**ommercial and **G**overnment **E**ntity (CAGE) is the code assigned by the Government to identify an address of a commercial or government entity. Formally referred to as FSCM codes. See also: DODAAC.

Contract Line Item (CLIN)

The Contract Line Item (Number) is the basic deliverable unit of a contract, designating a single NSN or item description. The CLIN can be found in the contract schedule immediately to the left of the NSN and/or item description. CLINs are always four numeric digits, from '0001' to '9999'. Sub-CLINs are noted by the addition of two alphabetic characters at the end of the CLIN, e.g. '0001AB'.

DD-FormStation

DD-FormStation is a Mil-Pac Technology electronic forms application, which generates documents on forms such as the DD250 and DD1149. DD250s created by the DD-FormStation can be imported into the Std-Barc to automatically generate LOGMARS labels.

National Stock Number (NSN)

The National Stock Number identifies a contract deliverable unit according to a standard catalog of items and services.

Troubleshooting

Error Messages

The troubleshooting information is provided here to help you resolve problems you may encounter while using RFID Load Manager. We encourage you to make full use of Mil-Pac Technical Support should the resolution to your problem not be apparent.

Error Message: Fatal error initializing Paradox Engine (134)

Problem: The Paradox Engine has not been proper configured.

Solution: The Paradox Engine is used by RFID Load Manager to manage some of its underlying databases. Paradox relies on a Network Control File for managing access to the database tables. By default, Paradox wants this to be in the root directory of the C drive, which Windows no longer allows. Run **Options > Paradox Engine**, which will automatically correct this. On some systems, you will have to run RFID Load Manager as the administrator for this to be effect. To do this, right-click on the RFID Load Manager icon, and select [**Run As**].

Error Message: File Error. Cannot find xxxxx.DLL

Problem: The application cannot locate a required Dynamic Link Library (DLL).

Solution: If this occurs immediately after installation, then the cause is incomplete installation of the StdBarc program or a defective product disk. In this instance, please contact Mil-Pac Technical Support.

If the application has been run successfully in the past, first check to see if the working directory has been altered, by doing the following: Right click on the StdBarc shortcut icon. Go to Properties and click on the Shortcut Tab. In the "Start in" field, verify that the path is entered correctly (i.e.: C:\RLoadMgr, which is the default path). The other possibility is that the DLL has been inadvertently deleted.

Error Message: Multiple PARADOX.NET files (15)

Problem: The Paradox Engine lock files are corrupted.

Solution: Generally, this means this occurs when the database files have been moved, or their mapping changed, or shared by in improperly configured system. Simply removing the lock files generally corrects this. Run **Options > Paradox Engine**, and select [**Remove Lock Files**].

Problems

Contact Mil-Pac Technical Support

Mil-Pac Technology encourages users to make use of Technical Support:

Phone: 760-788-3030

Email: support@milpac.com

Mail: Mil-Pac Technology
PO Box 2066
Ramona, CA 92065