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Acquiring Hardware/Software

DPAS currently supports the hardware listed below: No specific system is recommended over another, as this is an organization's choice.

PDCD Systems

- Intermec Trakker Antares 2410 (Batch) (see DPAS web page for ordering information)
- Intermec Trakker Antares 2415 (Radio Frequency [RF])
- Symbol PDT 7200 (Batch)
- Symbol PDT 7242 (Radio Frequency [RF])
- Intermec Janus 2010 (this scanner can no longer be purchased, but continues to be supported by DPAS)
- Intermec Janus 2020 (this scanner can no longer be purchased, but continues to be supported by DPAS)

Bar Code Printers

- Intermec printers that support IPL II or III language (e.g., Intermec EasyCoder 3400 Series)
- Zebra printers that support ZPL I or II language (e.g., Zebra S400 or Z4M)



NOTE:

Complete procurement information for all PDCDs, bar code printers/supplies supported by DPAS, including specifics about the hardware and pricing, is on the DPAS Web Page at the following address:

https://www.dpas.dod.mil/webdpas/Barcode/Barcode_Home.htm

Radio Frequency (RF) (Wireless)

Intermec:

- Tag – Intermec 915 Mhz Passive tag
- Intermec Antares 2415 PDCD
- Intermec Sabre 1555 Reader, coupled to Intermec Antares PDCD (this can be used in batch or wireless modes)
- PDCD with RF Radio to match wireless LAN
- Docking Station/Cradle (with power supply)
- Serial cable to connect docking station to PC
- Access points connected to LAN to form wireless network to support PDCDs (example: Models 2100/2101/2102*)

*Or equivalent (must match radio that was ordered with 2415. Two types are available - open air and 802.11b Direct Sequence Spread Spectrum (Wi Fi). May require multiple quantities depending upon coverage area. Range is approximately a 500 foot circumference in an office environment.

Symbol:

- PDT7242 RF Model
- Docking Station/Cradle
- RF Access Point(s)*

*Or equivalent (must be 802.11 Frequency Hopping Spread Spectrum). May require multiple quantities depending upon coverage area. Range is approximately a 250-foot circumference in an office environment.



NOTE:

Symbol is adding PDT7246 to the AIT II Contract (802.11b compliant).

Setting Up Bar Code Prefixes

MODULE: Utilities

INTRODUCTION

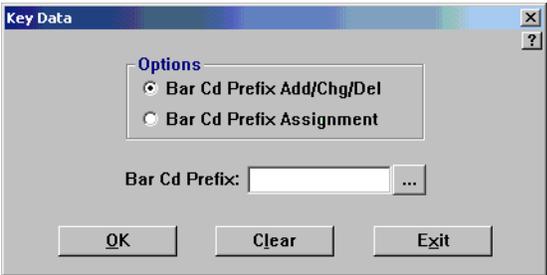
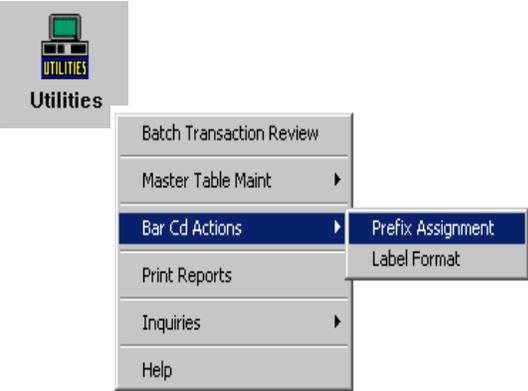
This process provides the capability of establishing prefixes for your bar codes. Setting up these prefixes will allow you to have DPAS automatically assign your bar codes.

PREREQUISITES

None

STEPS TO PERFORM ACTION

1. Select the **Utilities** icon, or select **Utilities** from the menu bar.
2. Select **Bar Cd Actions** from the program group.
3. Select **Prefix Assignment** from the program list.



STEP 1:

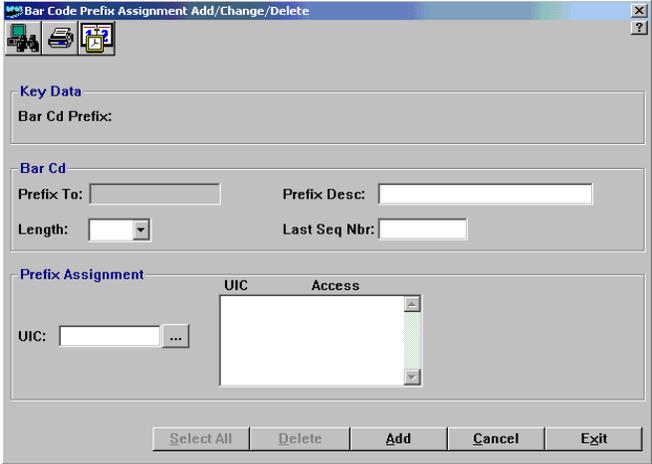
a. **Options:** Make an appropriate selection.

Options	
Bar Cd Prefix Add/Chg/Del	This allows for the creation, modification, or deletion of a Bar Cd Prefix or the details of the record.
Bar Cd Prefix Assignment	This allows you to assign UIC permission to use a selected prefix.

- b. **Bar Cd Prefix:** Enter the prefix for your bar codes.
- c. Click **OK**.

STEP 2:

- a. **Prefix To:** This field is only available if you are changing an existing prefix.
- b. **Prefix Desc:** Enter a brief description explaining the use of the Bar Code Prefix.
- c. **Length:** Enter the length of the bar code.
- d. **Last Seq Nbr:** Enter the last sequence number assigned by the system for a Bar Code. If none existed, you can leave this field blank to start the numbering at 1.
- e. **UIC:** Enter or browse for the UIC(s) that will use this prefix.
- f. The window to the right displays all UICs that have permissions to use the prefix.
- g. Click **Add**.



The Transaction Processed dialog box will be displayed.

- h. Click **OK**.

You will be returned to the Key Data screen.

- i. Click **Exit**.

Changing the Bar Code Prefix

- 1. Enter or browse for the bar code prefix on the Key Data screen for the prefix you are changing.
- 2. Click **OK**.
- 3. Make the necessary change(s).
- 4. Click **Change**.

Deleting a Bar Code Prefix

- 1. Once you are ready to delete the prefix, enter the bar code prefix in the Key Data screen.
- 2. Click **OK**.
- 3. Click **Delete**.

Setting Bar Code Defaults

INTRODUCTION

The DPAS User Defaults screen allows you to enter and store commonly used information.

Information stored in the User Defaults screen will be used to populate DPAS data fields in various DPAS processes.

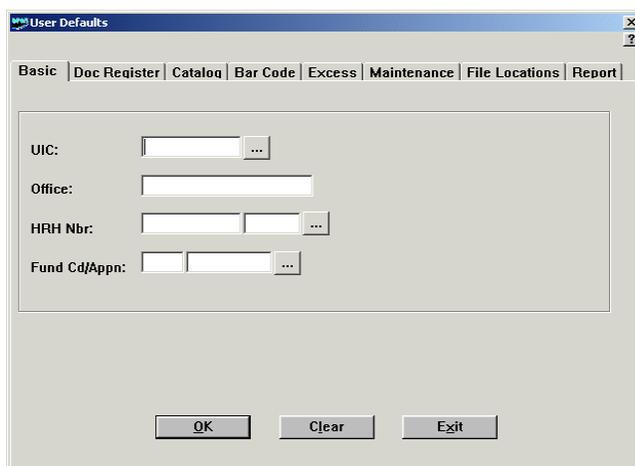
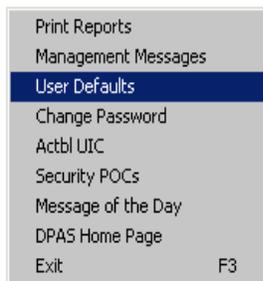
In this process, we will be setting the default to display our bar code prefix and identify the bar code printer.

PREREQUISITES

A bar code prefix must be established (only if setting the bar code prefix default).

STEPS TO PERFORM ACTION

1. Select **File** from the menu bar.
2. Select **User Defaults** from the program group.



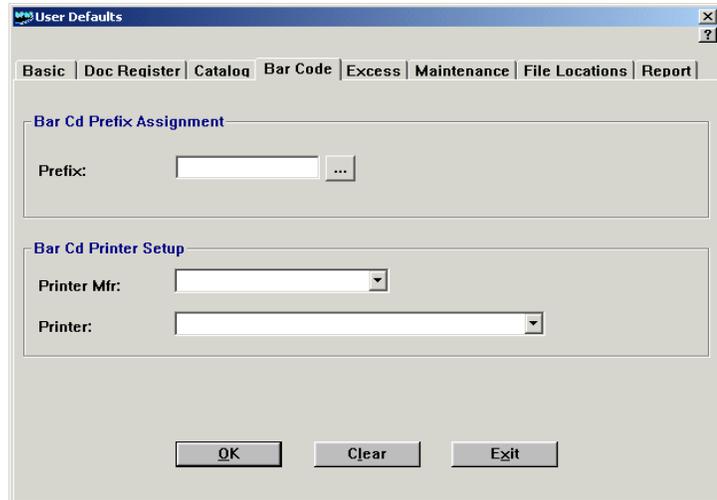
STEP 1:

- Click on the **Bar Code** tab.

STEP 2:

- a. **Prefix:** Enter or browse for the desired prefix.
- b. **Printer Mfr:** If you have a bar code printer, select the appropriate printer manufacturer.
- c. **Printer:** Click on the list box to display a list of all your printers. Select the appropriate printer for your bar code printer.
- d. Click **OK**.

If your bar code printer driver is not displayed in the list box, you will need to have the print driver installed.



The screenshot shows a dialog box titled "User Defaults" with a tabbed interface. The "Bar Code" tab is selected. The dialog is divided into two main sections: "Bar Cd Prefix Assignment" and "Bar Cd Printer Setup".

Bar Cd Prefix Assignment: This section contains a "Prefix:" label followed by a text input field and a browse button (three dots).

Bar Cd Printer Setup: This section contains two dropdown menus. The first is labeled "Printer Mfr:" and the second is labeled "Printer:".

At the bottom of the dialog, there are three buttons: "OK", "Clear", and "Exit".

Formatting Bar Code Labels

MODULE: Utilities

INTRODUCTION

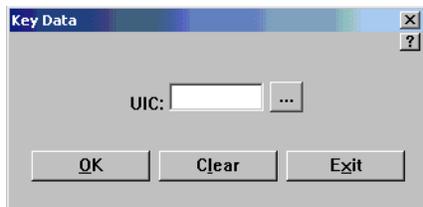
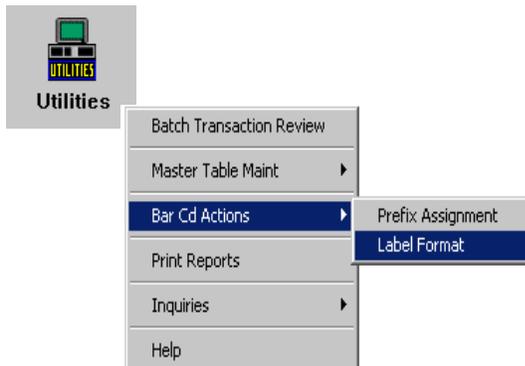
This process provides the capability of formatting your bar code labels.

PREREQUISITES

None

STEPS TO PERFORM ACTION

1. Select the **Utilities** icon, or select **Utilities** from the menu bar.
2. Select **Bar Cd Actions** from the program group.
3. Select **Label Format** from the program list.



STEP 1:

- a. **UIC:** Enter or browse for your UIC.
- b. Click **OK**.

STEP 2:

- a. **Choose Label Size:** Select the size of bar code label.

Bar Code Label Sizes	
A	1.50 x 0.50
B	1.00 x 2.00
C	2.00 x 1.25
D	3.00 x 1.00



- b. **Include On Label:** Select what information you want to include on your bar code label. Keep in mind that the labels can only hold so much information (usually the maximum is 3 items). The sample to the right will display a sample of your label.
- c. **Update all authorized UICs with this format:** Check this box if you want to update all authorized UICs with your desired format.



HINT!

If you want to print a test label, click on the **Print Test Label** button.

- d. Click **Save**.

Printing Bar Code Labels

MODULE: Hand Receipt

INTRODUCTION

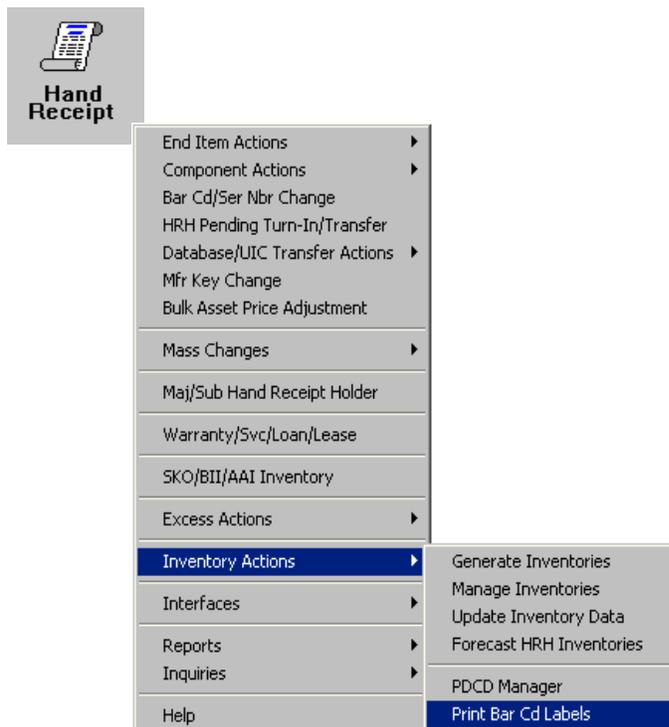
This process will show you how to print off bar code labels in DPAS.

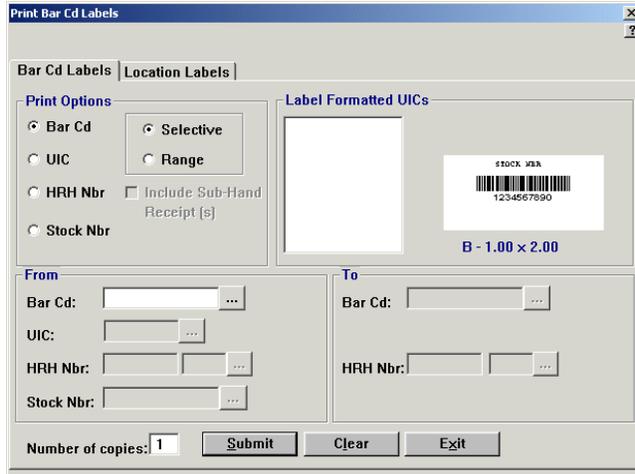
PREREQUISITES

You will need to have a bar code printer. DPAS supports the INTERMEC and ZEBRA printers.

STEPS TO PERFORM ACTION

1. Select the **Hand Receipt** icon, or select **Hand Rcpt** from the menu bar.
2. Select **Inventory Actions** from the program group.
3. Select **Print Bar Cd Labels** from the program list.





STEP 1:

a. **Print Options:** Select how you want the bar code labels to print.

Print Options	
Bar Cd	The user can request a label for a single asset or labels for assets within a bar code range.
UIC	The user can request labels for assets under a specific UIC.
HRH Nbr	The user can request labels for assets under a specific HRH Nbr or within a range of HRH Nbrs under a UIC. The user can also print labels for all Sub HRH Nbr assets under each Major.
Stock Nbr	The user can request labels for assets under a specific Stock Nbr.
Location	The user can request labels for assets under a specific location or within a range of locations.
Selective	Select this option if you want to print a specific bar code.
Range	Select this option if you want to print a range of bar code labels.

b. **Label Format:** Select the appropriate label format. This window will display only those UICs that have label formats created through the Bar Code Label Format process. The transaction UIC must have a bar code label format.

From Group Box:

- c. **Bar Cd:** If your print option was **Bar Cd**, enter the bar code label you wish to print. If you selected to print a range of bar codes, enter the beginning bar code label you wish to print.
- d. **UIC:** If your print option was **UIC**, enter or browse for the UIC.
- e. **HRH Nbr:** If your print option was **HRH Nbr**, enter or browse for the HRH Nbr. If you selected to print a range of HRH Nbrs, enter the beginning HRH Nbr you wish to print.
- f. **Stock Nbr:** If your print option was **Stock Nbr**, enter or browse for the stock number.

To Group Box:

- g. **Bar Cd:** If you selected to print a range of bar codes, enter the ending bar code label you wish to print.
- h. **HRH Nbr:** If you selected to print a range of HRH Nbrs, enter the ending HRH Nbr you wish to print.
- i. **Number of copies:** Enter the number of copies of labels you want to print.

j. Click **Submit**.

The Transaction Processed dialog box will be displayed.

k. Click **OK**.

You will be returned to the Print Bar Cd Labels screen.

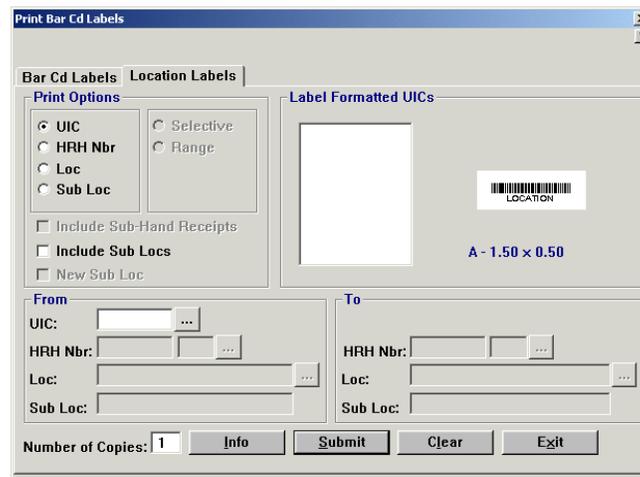
l. Click **Exit**.

Printing Location Labels

If you want to print bar code labels by location, from the Print Bar Cd Labels screen, select the

Location Labels tab.

STEP 1:



a. **Print Options:** Select the appropriate option.

Print Options	
UIC	The user can request labels for assets under a specific UIC.
HRH Nbr	The user can request labels for assets under a specific HRH Nbr or within a range of HRH Nbrs under a UIC. The user can also print labels for all Sub HRH Nbr assets under each Major.
Location	The user can request labels for assets under a specific location or within a range of locations.
Sub Location	The user can request labels for assets under a specific sub location or within a range of sub locations.
Selective	Select this option if you want to print location labels for a specific location.
Range	Select this option if you want to print a range of bar code labels.

b. **Label Formatted UICs:** This displays all the UICs that have formatted labels. Select the appropriate label format you wish to print.

- c. **Include Sub-Hand Receipts:** If you selected to print location labels for a Hand Receipt Holder, this check box becomes accessible. If you want to include the sub-HRHs, check this box.
- d. **Include Sub Locs:** Check this box if you want bar code labels to be added to the Sub Loc field.
- e. **New Sub Loc:** If you selected the print option for Sub Loc and this is a new sub location, check this box.

From Group Box:

- f. **UIC:** Enter or browse for your UIC.
- g. **HRH Nbr:** If your print option was HRH Nbr, enter or browse for your HRH Nbr. If you selected **Range**, enter the beginning HRH Nbr.
- h. **Loc:** If your print option was Loc, enter or browse for the location. If you selected **Range**, enter the beginning location.
- i. **Sub Loc:** If your print option was Sub Loc, enter the sub location. If you selected **Range**, enter the beginning sub location.

To Group Box:

- j. If you selected to print a range of HRH Nbrs, Locations, or Sub Locations, enter the ending entry in the appropriate data field.
- k. Click **Submit**.

Preparing PDCDs

INTRODUCTION

Prior to conducting property inventories using a Portable Data Collection Device (PDCD), you must first configure the PDCD. This is accomplished through the Hand Receipt Module, Inventory Actions, PDCD Manager.

This process prepares the PDCD for conducting automated inventories within the DPAS.

OBJECTIVES

Students/Users should be able to accomplish necessary steps and procedures relative to preparing the PDCD for use with DPAS.

PREREQUISITES

- Hardware/software has been procured
- PDCDs and associated equipment is operational to include charging of internal batteries

APPLICATION

Accomplish procedures to prepare PDCDs for use with automated inventory processes.

ACTIVITY

Instructor-led lecture and demonstration with Student Hands-on application.

STEPS TO PERFORM ACTION

For the **Intermec Trakker Antares 241X Terminals** refer to page 216 of this Chapter.

For the **Symbol PDT72XX Series Terminals**, refer to page 226 of this Chapter.

For the **Intermec Janus 20XX Terminals**, refer to page page 234 of this Chapter.

Configuring The Intermec Trakker Antares 241X Terminals

This section is intended to provide you with the procedures for configuring the Intermec® Trakker Antares 241X terminal for use with the DPAS. These procedures will only need to be performed **one time** for each Intermec® Trakker Antares 241X terminal that will be used with the DPAS, barring a catastrophic problem with the Personal Data Collection Device (PDCD). Should the PDCD configuration be accidentally modified, refer to the applicable section to return it to its required setting. There are seven steps to configuring the Intermec® Trakker Antares 241X terminal prior to its use with the DPAS. Step seven is only required with the 2415 terminal, and then only when the Radio Frequency (RF) wireless capabilities will be used. These procedures assume that the DPAS client/server application has previously been installed on the desired PC. If not, prior to configuring the PDCD for use with the DPAS, install the DPAS client server application. The steps to configuring the Intermec® Trakker Antares 241X terminal are:

- ❑ Connecting the PDCDs Hardware
- ❑ Checking and Updating the PDCDs Firmware
- ❑ Checking and Removing existing PDCDs files
- ❑ Setting the PDCDs Serial Communications Port
- ❑ Setting the PDCDs Bar Code Symbologies
- ❑ Installing the DPAS Inventory Application

Connecting The PDCDs Hardware

After unpacking the Intermec® PDCD and ensuring all of the required hardware is accounted for, perform the following actions:

1. Connect the RS-232 Null Modem Cable to the Docking Station.
2. Connect the Power Supply to the Docking Station.
3. Connect the other end of the RS 232 Null Modem Cable to the PC that has the DPAS application installed noting the Comm port number.
4. Plug the Power Supply into a power outlet.
5. Attach the Pistol Grip Handle to PDCD, if purchased (included in kit).
6. Place battery in PDCD terminal.
7. Place PDCD terminal in Docking Station to charge the battery IAW with the Intermec® procedures.



NOTE:

When placed in the docking station, one of the two lights on the right side of the docking station should light. The second from the right, when lit indicates the battery is charging, but is not fully charged. The right most light will turn green when the battery is fully charged and is ready for use.

Checking And Updating The PDCDs Firmware

Once the battery has had sufficient time to charge, a review of the PDCD's Firmware Version and files contained on the PDCD is in order.

To ensure the DPAS software functions as designed, the 241X Trakker Antares Firmware must be version **062000**.

To validate the Firmware, turn on the PDCD. If new, the PDCD should go through the initial boot phase and display the version as it boots. If it does not, or the PDCD was previously configured, perform the following actions:

- Go to the PDCD's Main Menu (Press the function key (F) (this is the orange button in the upper left side of the PDCD)
 - Press the left kidney shaped key (above the F1 key)
 - Enter the numbers 2, 4, and 8 in sequence to enter the PDCD's Main Menu
 - From the Main Menu, select About TRAKKER 2400 and press Enter
 - Exit the menu system
1. If the version is 062000, proceed to **Checking And Removing Existing PDCD Files**.
 2. If the version is not 062000, you will need to download the 062000 version from the DPAS web site and refresh the operating system prior to continuing.
 - a. Save this file to your PC.
 - b. Unzip the file saved to PC.
 - c. Run the file named **Tkant620.exe**. This will extract the files to the directory c:\Tkant620.
 - d. If you have a Windows NT or 2000 Operating System, you will need to copy the file named **choice.com** from the DPAS directory to the Tkant620 directory; otherwise skip to the next step.
 3. Going to the PDCD, perform the following actions:
 - a. Press and release these keys in the order shown to access the TRAKKER Antares 2400 Menu System:
 - Press the function key (F) (this is the orange button in the upper left side of the PDCD)
 - Press the left kidney shaped key (above the F1 key)
 - Enter the numbers 2, 4, and 8 in sequence to enter the PDCD's Main Menu
 - b. Choose the **System Menu** from the Main Menu.
 - c. Choose **Upgrade Firmware** from the System Menu.
 - d. Choose **OK** to continue.
 - e. Choose **Yes** to continue the firmware upload. The terminal will reboot and then displays the Loader Waiting screen.
 - f. Place PDCD in Docking Station.
 - g. Going back to the PC, go to a DOS Prompt and cd to the directory where the software is located (step 2h).

h. Type **'upgrade'** and respond to the prompts:

- Comm port – Enter PC Comm port that the docking station is connected to.
- Baud Rate –Choose 3 - 38,400.
- Stack – if 2410, Choose '3', if 2415, choose '2'.
- Communications Hardware – (2415 only), choose the radio that the PDCD contains. The process should then begin the moving from the OS to the PDCD.

Checking And Removing Existing PDCD Files

To verify that the necessary files are contained on the PDCD and unnecessary ones have been removed, perform the following actions:

1. Go to the PDCD's File Manager (Press the function key (`_f`) (this is the orange button in the upper left side of the PDCD)
2. Press the 'left kidney' key (above the F1 key).
3. Enter the numbers 2, 4, and 8 in sequence to enter the System's Main Menu.
4. Select **System Menu** and press Enter.
5. Select **File Manager** and press Enter.
6. At the next screen, select the C: drive and press the 'Enter' key. A list of files will be displayed. Compare the list on the screen with the following required files to determine if all of the files are resident in the terminal's memory.

Required File is apptsk.bin: Terminal default application. This file is loaded at the factory or through the firmware upgrade. **DO NOT DELETE THIS FILE!!!!**

Optional File is em9560.bin: Terminal default application. This file is loaded at the factory or through the firmware upgrade. Since this file is not required for use with the DPAS, it can be deleted to provide additional space for DPAS files.

Other Files: If there are other files present from a prior use, these files should be deleted at this time.

7. Once the files have been confirmed, exit the File Manager by pressing the 'Esc' key twice.

Setting The PDCDs Serial Communications Port

Once the Firmware and files are in place, you should now configure the Serial Communications Port. The Serial Communications Port can be configured manually via on screen input or by scanning the appropriate bar codes to set the correct settings.

1. The 241X Serial Communications Port (Com 1) must be configured to the following settings:

Protocol:	Configurable
Baud Rate:	19200
Parity:	None
Data Bits:	8
Stop Bits:	1
Flow Control:	Xon/Xoff Control
EOM #1:	\x0D
EOM #2:	<blank>
SOM:	\x0A
LRC:	Disabled
Command via Serial:	Enabled No TMF
Handshake:	Enabled
Poll:	Disabled
Timeout Delay:	10 sec

2. To view or manually modify the current configurations on the 241X:
 - a. Press the function key (`_f`) (this is the orange button in the upper left side of the PDCD)
 - b. Press the 'left kidney' key (above the F1 key)
 - c. Enter the numbers: 2, 4, and 8 in sequence to reboot the terminal.
3. After pressing this combination of keys, the Main Menu will appear. The Main Menu includes the following options:
 - Configuration Menu
 - Diagnostic Menu
 - System Menu
 - About TRAKKER 2400
4. Select the **Configuration Menu** option by using the up or down arrows to navigate to the correct selection.
5. Press the **Enter** key.
6. Select the **Communications** menu and press Enter.
7. Select **Serial Port [COM 1]** and press Enter. You can now set the configuration.



NOTE:

To manually set the communications configurations on the handheld terminal, use the up and down arrow keys to navigate from field to field. By pressing the function key (`_f`) and then either the up or down arrow key, you can change the value of the field until the correct setting is displayed.

8. After all of the necessary adjustments have been made to the configuration, press the down arrow key until the 'OK' button is highlighted.
9. Press **ENTER**.
10. Press **Esc** until you are asked if you want to save these configurations into the RAM. Select **Yes**.
11. Press **Esc** and select **Yes** again.

Setting The PDCDs Bar Code Symbologies

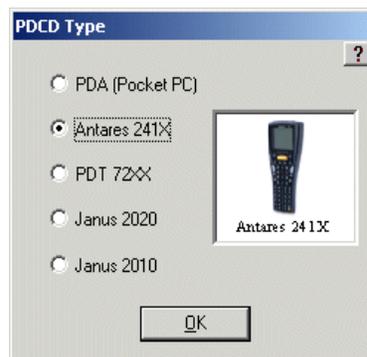
The 241X Trakker Antares is capable of interpreting many bar code symbologies. When scanned, the system will attempt to interpret the format following a list of symbologies that have been enabled. DPAS utilizes the Code 39 symbology. If desired (optional), you may wish to disable the other symbologies to prevent the reading of non-Code 39 bar code labels. To review/update which bar code symbologies the PDCD is capable of interpreting, perform the following actions:

1. Go to the system's Main Menu (press `_f`, left kidney key, 2, 4, then 8).
2. Choose **Configuration Menu**.
3. Choose **Symbologies Menu**. If some are disabled, the ones with the asterisk (*) to the left of the name are the ones that are 'enabled'.
4. To update, tab or arrow to the desired symbology:
 - Depress **Enter**
 - Depress `'-f'`; then the 'Down arrow' in sequence until the desired option is displayed for this symbology
 - Depress `'Enter'` to select
5. When finished, depress `'Esc'` twice.
6. Select `'YES'` to save the configuration.

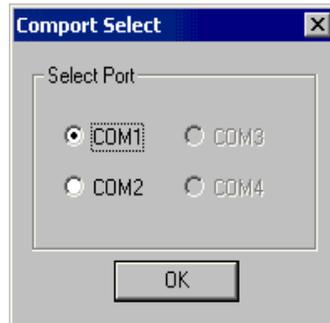
Installing The DPAS Inventory Application

Once the Serial Communications port has been configured, the DPAS inventory application can be installed. The installation will be accomplished using the DPAS PDCD Manager. The DPAS PDCD Manager can be run from within the DPAS application from the Hand Receipt/Inventory Actions/ PDCD Manager or directly from Start/Programs/DOD Business Systems/DPAS/PDCD Manager, or from a user established shortcut (Program ID = DP9P7101.exe). To install the application, perform the following actions:

1. The PDCD must be running an application. At this time there is only one application present '**apptsk.bin**'.
2. To start the application:
 - a. Go to File Manager:
 - Press the function key (_f) (this is the orange button in the upper left side of the PDCD)
 - Press the 'left kidney' key (above the F1 key)
 - Enter the numbers: 2, 4, and 8 in sequence (the System Main Menu will appear)
 - b. Select **System Menu**.
 - c. Select **File Manager**.
 - d. Select the C: drive.
 - e. Press the **Enter** key.
 - f. Make sure **apptsk.bin** is highlighted, then choose **Run** by press the Enter button. When this is performed, the system will display a new screen that contains the 'system's date'.
3. Place the PDCD in the docking station.
4. Start the PDCD Manager
 - a. Confirm that the correct PDCD terminal is selected by verifying the picture in the upper right is the Antares 241X terminal. If not correct, from the menu bar, choose Commands – Select Change PDCD type and choose **Antares 241X**.



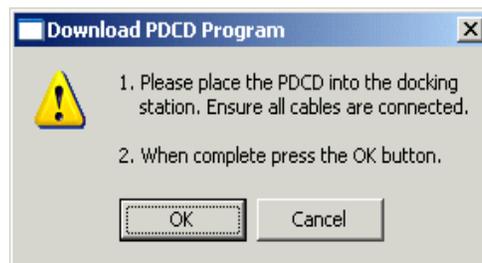
- b. Confirm that the PC's Serial Comm Port is correctly set for docking station by choosing Commands - **Select/Change Comm Port**.



NOTE:

Only the Comm Ports that the operating system of the host PC recognizes will be enabled for user selection. Therefore, if "COM1" is selected in the PDCD Manager application, the cable must be connected to Comm Port 1 of the PC. Otherwise, any file transfer to or from the Trakker Antares 241X will fail.

- c. To initiate the download, from the menu bar, choose Commands – Download PDCD Program. The following window will appear.



- d. Verify that the PDCD is positioned correctly in the docking station, and then depress OK. A progress bar will be displayed to show the progress of the transfer. If the PDCD type and Comm Ports were selected correctly, the left lights on the docking station should begin to blink and the progress should begin to show that the file is being copied to the PDCD.
- e. Once the file has been successfully transferred to the PDCD, a new window will appear to indicate the transfer is complete. Wait a few seconds prior to removing the PDCD terminal from the docking station. This will give the PDCD terminal time to close the communications port and to reboot itself. Upon reboot, the DPAS Main Menu should be displayed.



NOTE:

If any of the settings were not established correctly, or if the PDCD is not running a program, the transfer will time out and give you an opportunity to correct the settings. You will also notice that the left lights were not blinking. If you do receive an error, review all of the above steps to ensure all were followed correctly, then attempt the download again.

This completes the actions necessary to configure the 241X PDCD terminal for use in Batch mode. It is now ready for use with the DPAS.

Configuring The Symbol PDT72XX Series Terminals

This section is intended to provide you with the procedures for configuring the Symbol PDT72XX terminal for use with the DPAS. These procedures will only need to be performed one time for each Symbol PDT72XX terminal that will be used with DPAS, barring a catastrophic problem with the Personal Data Collection Device (PDCD). Should the PDCD configuration be accidentally modified, refer to the applicable section to return it to its required setting. There are three steps to configuring the Symbol PDT72XX terminal prior to its use with the DPAS. Step three is only required with the 724X terminal, and then only when the Radio Frequency (RF) wireless capabilities will be used. These procedures assume that the DPAS client/server application has previously been installed on the desired PC. If not, prior to configuring the PDCD for use with the DPAS, install the DPAS client server application. The steps to configuring the Symbol PDT72XX terminal are:

- ❑ Connecting the PDCDs Hardware
- ❑ Imaging the PDT72XX Terminal

From time to time, updates of the DPAS software are released. In the event an update is issued for the DPAS Symbol PDT72XX terminal, and the terminal has already been configured for use with the DPAS, refer to DPAS Application Version Update for PTD72XX Terminal for installation procedures.

When running a Symbol PDT7242 with 8MB RAM, the number of detail asset records can be greater than the Symbol PDT7240 with 2MB RAM. Should there be a need to increase the number of detail asset records that can be downloaded, this can be accomplished by editing the RFIDExec.ini file that is located in the User's temp directory. Locate the file, open it with Notepad and find the following line "DPAS SET_SYMBOL_MAX 1000". The value can be set as high as '7800'. When the editing has been completed, save the file and close it.

Connecting The PDCDs Hardware

After unpacking the Symbol PDCD and ensuring all of the required hardware is accounted for, perform the following actions:

1. Connect the supplied RS-232 Cable (25 Pin) to the Docking Station.
2. Connect the Power Supply to the Docking Station.
3. Connect the other end of the RS232 Cable (9 Pin) to the PC that has the DPAS application installed noting the Comm Port number.
4. Plug the Power Supply into a power outlet.
5. Place battery in PDCD terminal.
6. Place PDCD terminal in Docking Station to charge the battery IAW with the Symbol procedures.



NOTE:

When the battery is placed directly in the docking station, the right light on the right side of the docking station will light. It will display amber when the battery is not fully charged and green when it is fully charged and ready for use. When the battery is charged directly in the terminal, the battery indicator on the terminal (Top, second from right) will indicate the status of this battery.

Downloading The DPAS Program To The PDT72XX Terminal

Once the PDCD hardware has been connected and the battery charged, the PDT72XX terminal can be imaged. The PDT72XX terminal must be initially imaged to install custom developed DPAS software that will subsequently be used to perform auto updates of the DPAS application. Volume 1 (System) and Volume 2 (DPAS application) will require imaging.



NOTE:

IMPORTANT Pre- Imaging Procedures: Prior to initiating the imaging, perform the following steps with the PDCD. This must be accomplished prior to Loading the Hexloader files addressed in initiating the imaging process.

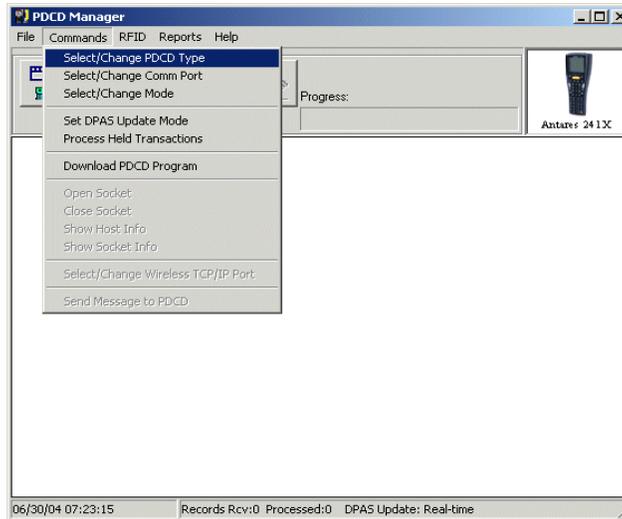
Perform the following actions:

1. Place the PDT72XX terminal in receive mode.
2. Simultaneously press the red (I) power icon (located in the upper left corner of the unit) and pull the trigger. Continue to hold the controls in this manner until the terminal makes a loud beep (approximately 15 seconds) then release the controls.
3. A window entitled **Baud Rate** will now be displayed.
4. Using the up or down arrows located within the window, select **115200**.
5. Press **ENTER** at the bottom of the window.
6. On the next window, use the up or down arrows to select **Single Image**.
7. Press **ENTER** at the bottom of the window. The display will prompt you to place the terminal into the docking station.
8. Place terminal in docking station. The PDT72XX terminal is in receive mode.

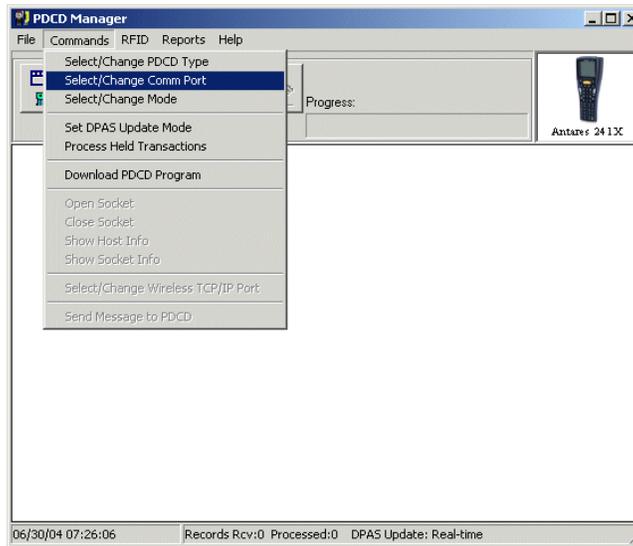
To initiate the imaging, perform the following actions:

1. Start the DPAS PDCD Manager. The DPAS PDCD manager can be run from within the DPAS application from the Hand Receipt>Inventory Actions>PDCD Manager or directly from the Start>Program>DOD Business Systems>DPAS>PDCD Manager, or from a user established shortcut (Program ID = DP9P7101.exe).

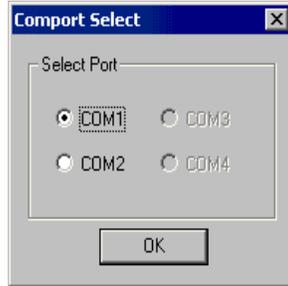
2. Confirm that the correct PDCD terminal is selected by verifying the picture in the upper right is the Symbol PDT72XX terminal. If not correct, from the menu bar, choose Commands – Select /Change PDCD type and choose Symbol 72XX.



3. Confirm that the PC's Serial Comm Port is correctly set for docking station by choosing Commands>Select/Change Comm Port.



The following screen is displayed.



4. Select the correct Comm Port setting.



NOTE:

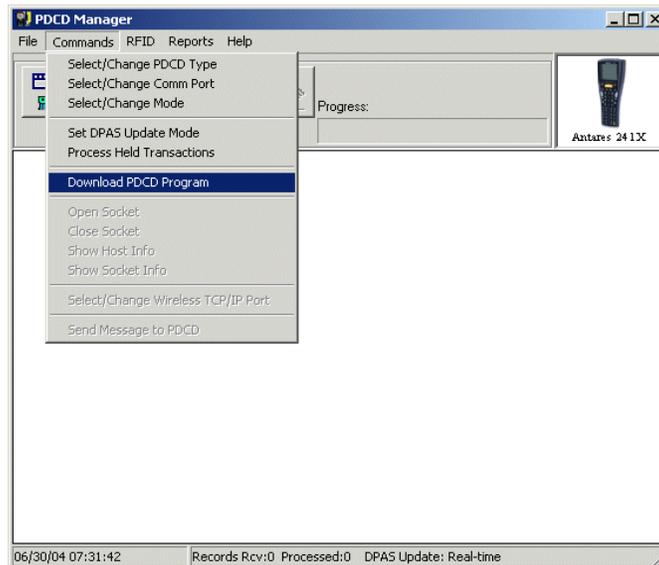
Only the Comm Ports that the operating system of the host PC recognizes will be enabled for user selection. Therefore, if "COM1" is selected in the PDCD Manager application, the cable must be connected to Comm Port 1 of the PC. Otherwise, any file transfer to, or from the Symbol PDT72XX terminal will fail.

5. To initiate the download, from the menu bar, choose Commands>Download PDCD Program.

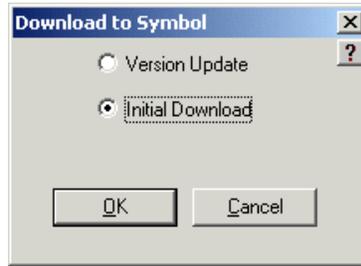


NOTE:

Make sure the PTD72XX terminal in receive mode, Prior to Loading the Hexloader files.



6. Choose **Initial Download**.



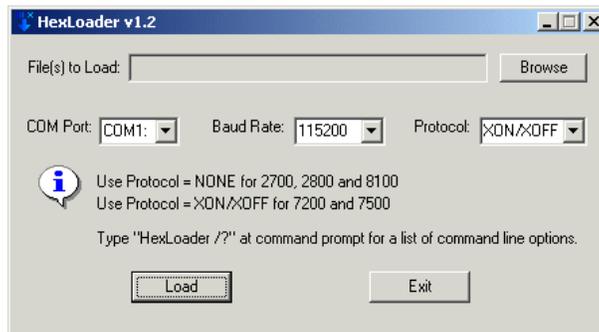
When **Initial Download** is selected, the Hexloader will be launched. This will be used to move the two images to the Symbol PDT72XX.

7. Select the Comm Port to the same Comm Port the docking station is connected.

8. Set the Baud Rate to **115200**.

9. Ensure the Protocol is **XON/XOFF**.

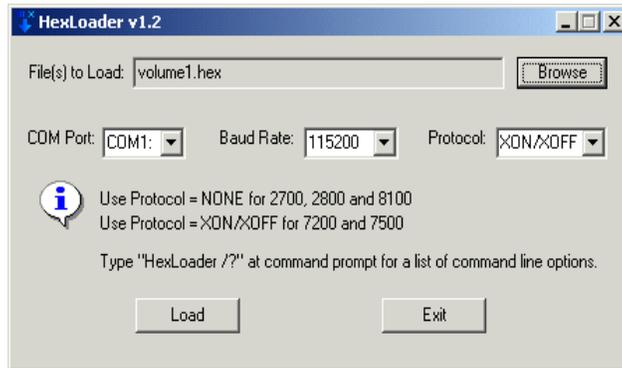
10. From the 'File(s) to Load' either using the 'Browse' button, or typing, enter the hex file name to load. The initial file will be volume1.hex followed by volume2.hex. Both hex files can be found in the directory where DPAS has been installed.



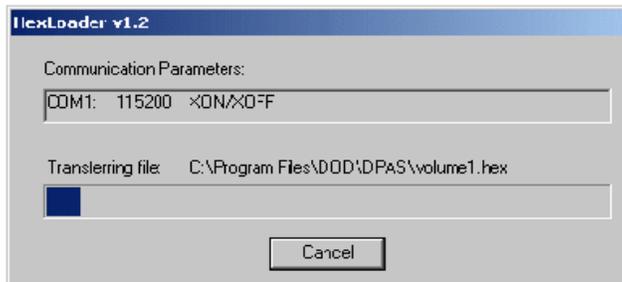
11. Highlight the volume1.hex file and click **Open**.



This will populate the 'File(s) to Load' field on the Hexloader v1.2 screen.



12. Depress the **LOAD** button on the HexLoader v1.2 Screen. The **HexLoader v1.2 Transfer File** dialog box will be displayed and volume #1 will begin to transfer to the terminal.



When Volume #1 has been loaded to the terminal the **Transfer File** dialog will close. If the transfer aborts, check the settings and repeat the process.

When Volume 1 is successfully transferred, Volume 2 may now be transferred to the PDCD.

13. On the PDCD, select **ENTER** on the bottom of the window, and then choose **Single Image**.
14. On the PC, using the Browse button for the '**File(s) to Load**' field on the **HexLoader v1.2** screen, select **Volume2.hex**. (You are reverting back to Step 8 through 10 above and completing the same process and seeing the same screens as you did for Volume 1.)
15. When Volume 2 is successfully transferred, close Hexloader by selecting **Exit** or by pressing the 'X' in the upper right corner.
16. Remove the PDT72XX from the docking station.
17. Press **ENTER** at the bottom of the screen.
18. Using the up arrow within the terminal window, select **Prev Menu**.
19. Press **ENTER** at the bottom of the screen.
20. Using the down arrow, select **Run System**.
21. Press **ENTER** at the bottom of the screen.

22. The PDT72xx terminal will beep and begin to load the operating system.
23. Follow the on-screen instructions to calibrate the Touch Screen coordinates. The unit will continue to load and automatically launch the DPAS application program.
24. Review the PDCD window to ensure the DPAS Main Menu is displayed.
25. When everything appears to be functioning correctly, it is now time to set the 'Date' on the terminal. To set the date on the terminal, perform the following actions:
 - a. Turn terminal off (red (I) power icon located in the upper left corner of the unit).
 - b. Depress and hold the red (I) power icon located in the upper left corner of the unit. Continue to hold until the terminal boots in setup mode.
 - c. At that time, release the power button and pull the trigger and hold until the configuration menu is displayed.
 - d. Select **Main Setup** to set Date and Time, etc.
 - e. Select **OK** when updates are complete.
 - f. Select **Exit**.
 - g. Select **Save & Exit**.
 - h. Allow the terminal to finish booting (**DO NOT HOLD THE TRIGGER**), setting the corner points for the display when prompted. It should load DPAS when complete (the DPAS Main Menu will appear).



NOTE:

This can also be performed using the **F1 Configuration** option from the **F5 Utilities** option from the Main Menu.

26. Prior to attempting to download an inventory, it will be necessary to reboot the PC to reset the Comm Port for use with DPAS PDCD Manager.

This completes the actions necessary to configure the PDT72XX PDCD terminal for use in Batch mode. It is now ready for use with the DPAS.

Configuring the Intermec Janus 20XX

This section is intended to provide the user with the procedures for configuring the Intermec Janus 20XX terminal for use with the DPAS. While the Intermec Janus 20XX series terminal can no longer be purchased, DPAS will provide support for it for an undetermined time period. These procedures will only need to be performed one time for each Intermec Janus terminal that will be used with the DPAS, barring a catastrophic problem with the PDCD. Should the PDCD configuration be accidentally modified, refer to the applicable section to return it to its required setting. There are three steps to configuring the Intermec Janus 20XX terminal prior to its use with the DPAS. These procedures assume that the DPAS client/server application has previously been installed on the desired PC. If not, prior to configuring the PDCD for use with the DPAS, install the DPAS client server application. The steps to configuring the Intermec Janus 20XX terminal are:

- ❑ Connecting the PDCDs Hardware
- ❑ Checking the PDCDs Firmware
- ❑ Imaging the Janus 20XX Terminal

Connecting The PDCDs Hardware

After unpacking the Intermec PDCD and ensuring all of the required hardware is accounted for, perform the following actions:

1. Connect the RS-232 Null Modem Cable to the Docking Station to the network port.
2. Verify the DIP switch settings on the docking station. Switches 1, 2 and 4 should be up, and 3 should be down.
3. Connect the Power Supply to the Docking Station.
4. Connect the other end of the RS-232 Null Modem Cable to the PC that has the DPAS application installed noting the Comm Port number.
5. Plug the Power Supply into a power outlet.
6. Place battery in PDCD terminal and one in the charging slot if there are more than one to charge.
7. Place the PDCD terminal in Docking Station to charge the battery in accordance with the Intermec procedures.



NOTE:

The docking station can charge two batteries simultaneously (one while in the terminal and the other placed in the battery-charging slot).

Checking The PDCDs Firmware

Once the battery has had sufficient time to charge, a review of the PDCD's Firmware Version is in order. Matching the Firmware version with your unit is very important.

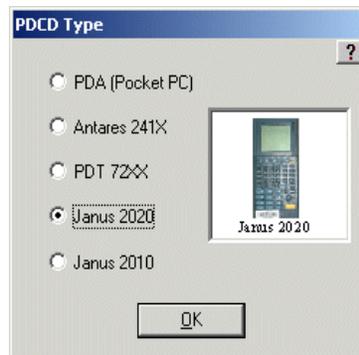
In order to determine your Firmware version, re-boot your unit and note the version on the initial screen display (Second line after 'VER') or check the diskettes supplied with your unit for version written on the label.

Make note of the firmware version for it will be used in determining the correct image to download to the PDCD in a subsequent action.

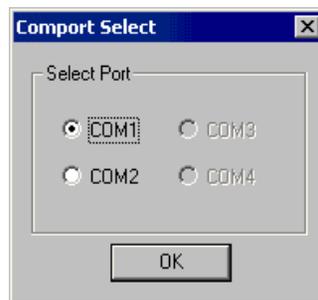
Imaging The Janus 20XX Terminal

Once the PDCD hardware has been connected and the battery charged, the 20XX terminal can be imaged. The 20XX terminal must be imaged to install the custom developed DPAS software. To initiate the imaging, performing the following actions:

1. Start the DPAS **PDCD Manager**. The DPAS PDCD Manager can be run from within the DPAS application from the **Hand Receipt>Inventory Actions>PDCD Manager** or directly from the **Start>Program>DOD Business Systems>DPAS>PDCD Manager**, or from a user established shortcut (Program ID = DP9P7101.exe).
2. Confirm that the correct PDCD terminal is selected by verifying the picture in the upper right is the **Janus 20XX terminal**. If not correct, from the menu bar, choose **Commands>Select/Change PDCD Type** and choose **Janus 20XX**.



3. Confirm that the PC's Serial Comm Port is correctly set for docking station by choosing **Commands>Select/Change Comm Port**.

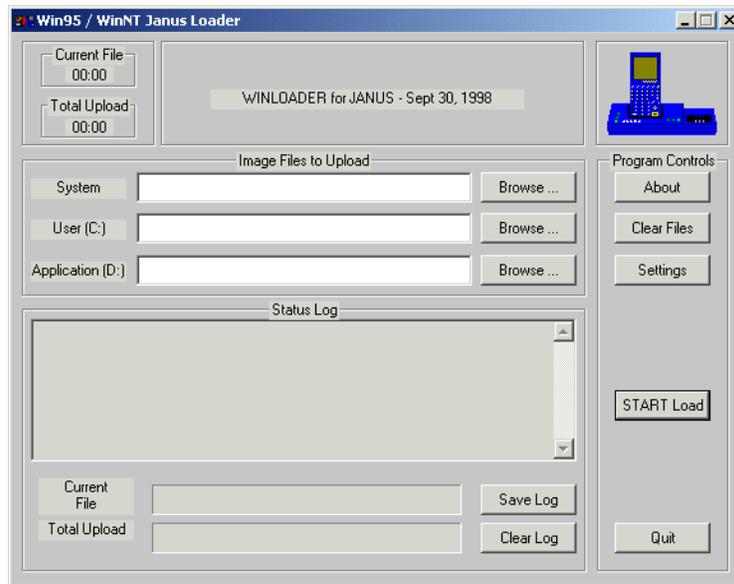


NOTE:

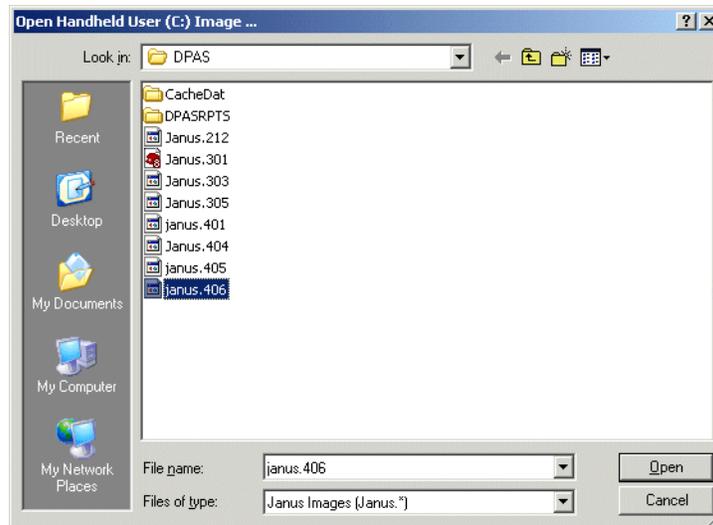
Only the Comm Ports that the operating system of the host PC recognizes will be enabled for user selection. Therefore, if COM1 is selected in the PDCD Manager application, the cable must be connected to Comm Port 1 of the PC. Otherwise, any file transfer to or from the Janus 20XX terminal will fail.

4. To initiate the download, from the menu bar, choose **Commands>Download PDCD Program**. When selected, the process will start 'Winloader'.

- Under **Image Files to Upload** dialog box, click on the Browse button across from the **'User (C:).'** text field and browse the DPAS directory for the file 'Janus.xxx' where xxx matches the terminal's firmware version (**Example: Janus.404**).



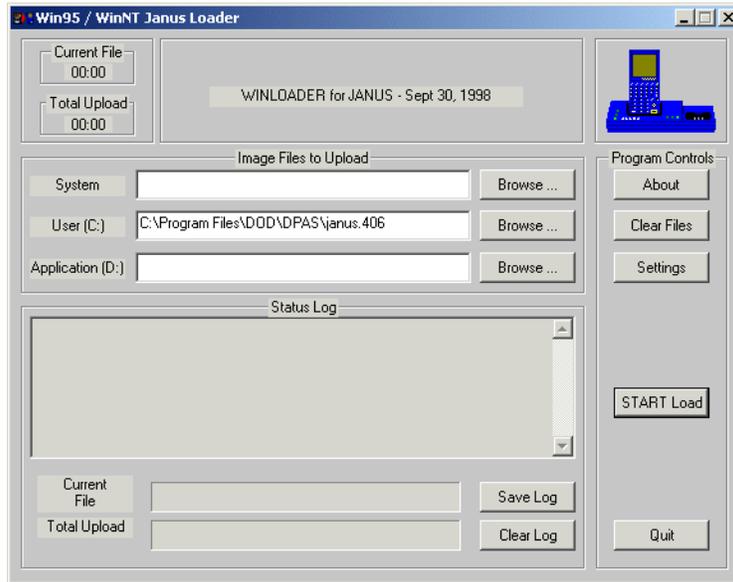
- Select the one matching the PDCD's firmware by doubling clicking on the file name or by highlighting it and depressing the **'Open'** push button. This will return you to the main Winloader window.



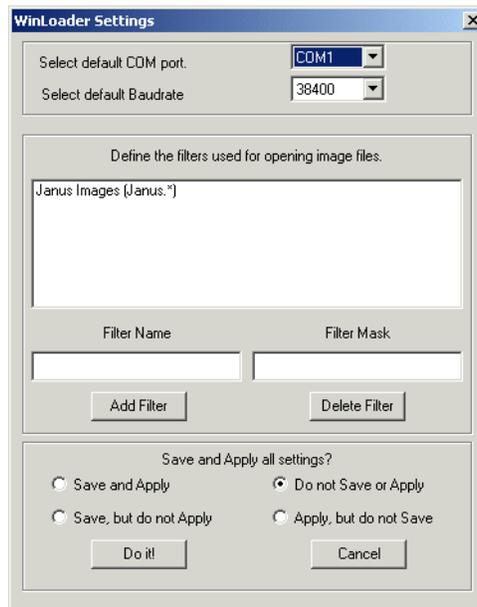
NOTE:

DPAS has shipped images for the firmware versions that are known to be in use with the DPAS. Should you be unable to find the firmware version that your PDCD has, re-verify the firmware version by rebooting the PDCD and making note of VER on line 2 of the initial screen. If it is different than any of those provided, contact the DPAS Call Center for assistance.

- At the main Winloader window, click on **Settings**.



- The Winloader Setting window will appear.



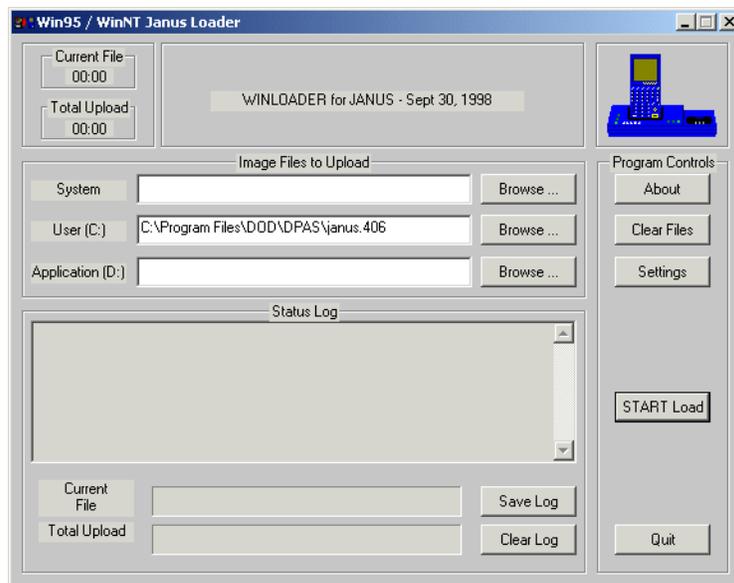
- For **Select default COM port**, choose the appropriate COM Port for which the scanner is connected on your PC.
- For **Select default Baud rate**, set to **38400**.
- Select the **Save and Apply** radio button.
- Click on **Do it!** to return to main Winloader window.

13. Turn on the Janus unit. If BOOT LOADER menu does not appear, enter into BOOT LOADER mode by:
 - a. Turn unit off.
 - b. Hold down the following keys simultaneously:
 - F3
 - 2
 - Left arrow side of diamond shaped key
 - c. Release all keys.
 - d. Press and release the 2 key.
 - e. Turn unit on.

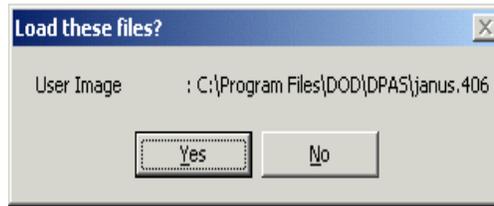
**NOTE:**

If the BOOT LOADER menu does not appear, repeat steps a-e.

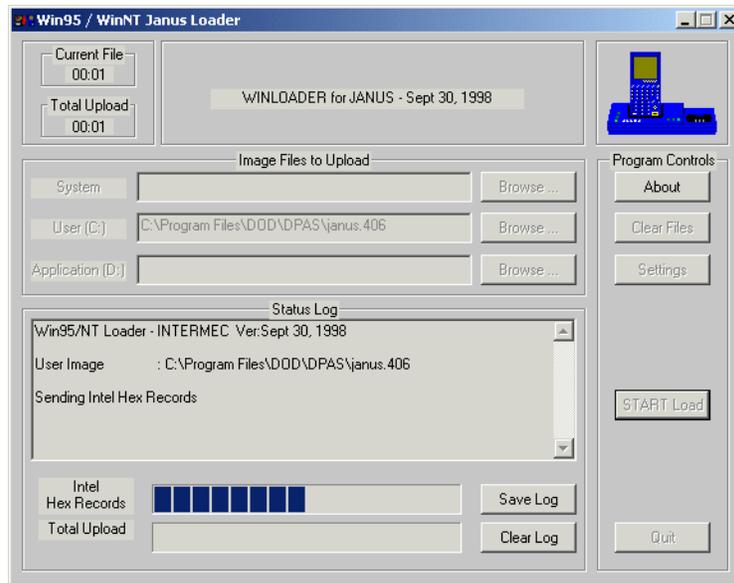
14. Select **LOAD**.
15. Press **Enter**.
16. Insert Janus unit into Communication Dock. (Vertical bar Reader LED light should turn on).
17. From the WinLoader window (Win95 /WinNT Janus Loader), select **START Load** to begin loading process.



18. When the 'Load these files?' Window appears, click on **Yes** to confirm loading of files.



19. When the message appears 'Be sure Janus is in loader mode before proceeding!' click on **OK**.

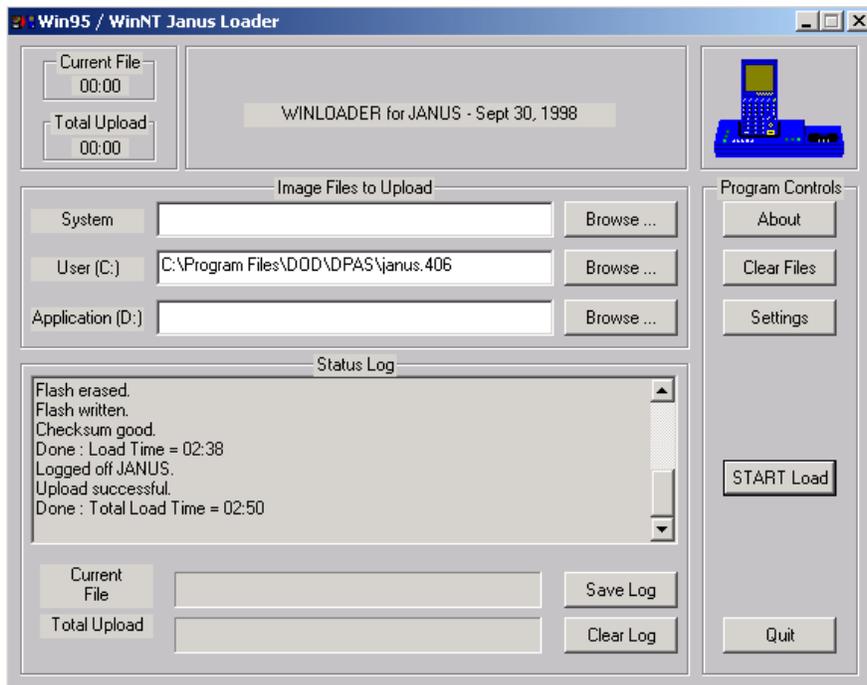


The WinLoader window will appear showing you the files being loaded (estimated load time is 2 min 15 sec).



20. Click on **OK** to 'Upload Successful' message.

21. Upon successful upload, you will be returned to the WinLoader window. Click on **QUIT** to exit from the WinLoader program.



22. On the Janus PDCD, select "Reboot" and press Enter.
23. Prior to attempting to download an inventory, it will be necessary to reboot the PC to reset the Comm Port for use with DPAS PDCD Manager.

The terminal is now operational for use with the DPAS.