

***INTERACTIVE COMPUTER AIDED
PROVISIONING SYSTEM
(ICAPS)***

***ICAPS-PC WINDOWS USER'S GUIDE
For Marine Corps
Software Release 3.3***

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SECTION 1. SCOPE

1.1 Identification

This document is the User's Guide for the Windows version of the Interactive Computer Aided Provisioning System Personal Computer (ICAPS-PC) software. The user's guide has been written with MS-Word 97. The release of the user's guide is distributed as a PDF document utilizing the Adobe Acrobat software. Changes to this manual will be distributed as necessary.

NOTE: ICAPS-PC version 3.3 has been released for Marine Corps and is available from Marine Corps Logistics Base. This version was not release for Navy due to the development of a replacement system that NAVSEA is developing.

1.2 System Overview

The Interactive Computer Aided Provisioning System Personal Computer (ICAPS-PC) version is an on-line interactive and batch system that is used as a tool by Contractor, In-service Engineering Activity/Technical Support Activity (ISEA/TSA) and the Department of Defense (DoD) personnel to help automate the provisioning process. The software provides data entry screens for data input, various capabilities and utilities to manipulate the data, and the capability of inputting or outputting the data in the correct Mil-Std format.

ICAPS-PC includes on-line and batch software that was designed to automate the contractor development and submission, ISEA or TSA review and acceptance, and NAVICP/MECH-PHIL review and receipt of Provisioning Technical Documentation (PTD).

Processing for unique Marine Corps data elements has been integrated into ICAPS-PC Windows version 2.0. ICAPS-PC has an interface with the Marine Corps Subsystem 10 mainframe system. The unique processing for Marine Corps is documented in Appendix E.

1.3 Document Overview

The objective of the ICAPS-PC Windows User's Guide is to provide information necessary to effectively use ICAPS-PC and has been written with Microsoft (MS) Word 97. This user's guide is to assist the users, namely the DoD, TSA, ISEA, Inventory Control Point (ICP), and the supply support personnel, along with their provisioning support contractors in the execution of their duties. This user's guide will not go into explanations of Windows terminology.

SECTION 2. REFERENCED DOCUMENTS

- NAVSUPPUB 508, Data Element Dictionary of 10 Jan 1990.
- MIL-STD 1552A, Military Standard Provisioning Technical Documentation, Uniform Department of Defense Reqmts of 17 Mar 1981.
- MIL-STD 1388.2A, DOD Requirements for a Logistic Support Analysis Record of 20 Jul 1984.
- MIL-STD 1388.2B, DOD Requirements for a Logistic Support Analysis Record of 28 Mar 1991.
- NAVICP Supply Support Handbook for Non Developmental Items Logistics Management Information (LMI)
- Marine Corps Logistics Base, Albany, Georgia, Standard Operating Procedures Manual

SECTION 3. SOFTWARE SUMMARY

The ICAPS-PC follows normal Windows design conventions as much as possible to help reduce the learning curve for ICAPS-PC users who already know how to use Windows features and options. Menus, screens, and system functions have been designed to be as intuitive as possible, and the on-line help feature also contributes to the “user-friendliness” of the system. If you have not had any experience with Windows, you may want to take a basic Windows training course prior to beginning your work with ICAPS-PC Windows. ICAPS-PC Windows is easy to use, but as a minimum, you should have an understanding of:

- Mouse Operations
- File Management within the Windows Environment
- Printer Operations
- Opening/Closing Windows Applications

3.1 Software Application

ICAPS is comprised of two software packages: ICAPS-PC for Windows and the Client Server (ICAPS-C/S). ICAPS is operational and heavily utilized. The ISEA, NAVICP, and other system users have defined the original requirements and subsequent enhancements. The software is designed to accept standard provisioning data in MIL-STD 1552A and 1388.2A/B in LSA 036 or ASCII text file formats. Processing for unique Marine Corps data has been developed and is documented in Appendix E. The following are major system capabilities for ICAPS-PC:

a. ***Efficient Processing:*** Remote site activities use PCs to generate new or modify existing PTD. The PC provides fast update response time and on-line validations. Through direct telecommunications lines, PTD is electronically uploaded from the user's PC to the ICAPS system. Data is delivered to NAVICP electronically. Electronic submission of PTD improves response time and eliminates format and shipping problems. Since not all users have telecommunications lines, ICAPS-PC can accept/create floppy disk media for output to external systems.

b. ***Comprehensive Data Validations:*** As the user enters data, the software validates it and returns error messages on-line. Identifying errors at the time of input eliminates the risk of inaccurate PTD. If PTD is generated with on-line validations turned off, the PC software can perform batch validations at the completion of the project or ICAPS-C/S can run a validation routine at the time of upload.

c. **On-line Report Generation:** Users can produce standard reports or user constructed Ad Hoc reports on-line. Reports can be viewed on-line, saved and/or printed.

d. **Powerful Update Capability:** Users can perform global updates of large ranges of data with a single transaction. This can be accomplished within a project or over several projects that comprise a system, allowing the user to quickly and accurately correct PTD with minimal effort.

e. **ICAPS Saves:** ICAPS saves PTD generation time, ISEA provisioning review time, improves data quality, and reduces provisioning costs.

ICAPS-PC Windows development is to be utilized as (1) a stand-alone provisioning work station and, (2) as an interactive tool to be used in tandem with ICAPS-C/S. ICAPS-PC capabilities include creating new PTD, modifications and mass updates to existing PTD, running standard provisioning reports and ad-hoc reports, validating projects, running project duplications, Design Change Notice (DCN) merges, and project re-sequencing.

The ICAPS-PC users who have client/server connection can quickly exchange data with ICAPS-C/S on-line. Projects can be downloaded over telecommunication lines for maintenance, updated on the PC, and uploaded back to the client/server. This is the preferred method of PTD delivery. Activities without a dedicated line may arrange other methods for loading into ICAPS-C/S. The primary design objective was to reduce time spent in review. There are also many features that assist in data input accuracy and completeness before the final pass of data through ICAPS-C/S.

3.2 Software Inventory

ICAPS-PC Windows is distributed as an executable set-up program that fully installs the necessary files and application (ICAPSPC.EXE). The automated set-up will create the directory, ICAPSWIN32, for ICAPS-PC installation. Refer to Appendix A for installation procedures.

3.3 Software Environment

ICAPS-PC version 3.3 was developed using Computer Associates (CA) Visual Objects version 2.5b and XBASE database file structures. ICAPS-PC versions 2.0 and higher are operational on 32-bit systems (Windows 95/98/2000/NT) and will not operate with Windows 3.11. If you are using Windows 3.11 you can use ICAPS-PC version 1.6, however upgrades to 1.6 are not provided. The workstation hardware and software minimum recommendation for ICAPS-PC are:

IBM Compatible PC configured as follows:
Pentium 90Mhz Processor

64MB Memory
40MB Free Space on Hard Drive
32-bit Operating System
Monitor: 17 inch, .28 DPI, 256 Colors

3.4 Security and Privacy

Limited security is provided for network or multiple user access of a single PC by the use of a user-id utility. This ICAPS-PC utility is provided on the installation CD-ROM and can be utilized by the network administrator for multiple user access. Although ICAPS-PC was originally designed for Navy use, its concept can be utilized by other services. ICAPS-PC has been utilized as the baseline provisioning system for developing and integrating supply support for Air Force, Army, Marine Corps, and Coast Guard activities.

3.5 Assistance and Problem Reporting

SPAWAR Systems Center Charleston, Jacksonville Office, provides analysis, programming, and technical/ functional support for ICAPS-PC users. Any government or industry activity required to process provisioning documentation may obtain ICAPS-PC free of charge. Information about ICAPS-PC can be obtained from the following sources:

- ICAPS-PC User's Guide
- Periodic software/documentation updates

SECTION 4. ACCESS TO THE SOFTWARE

4.1 Equipment Familiarization

The ICAPS-PC version 3.3 is developed for Windows 32-bit operating environments. To use ICAPS-PC, be sure the PC is turned on and that it is in the Windows 95/98/2000 or NT environment. If a DOS prompt is visible (i.e., C:\>), type EXIT and press Enter to return to the Windows environment. After ICAPS-PC has been installed, access the software via the icon. The Processing Reference Guide in paragraph 5 provides details on using each of the system's screens and functions. Within ICAPS-PC, the cursor will appear as a small arrow if the user's PC is using the default cursor, or will appear as the previously set custom cursor if a non-default cursor has been selected. Cursor movement within ICAPS-PC is controlled with the mouse or tab key (shift/Tab for backward movement) as within other Windows applications.

4.2 Access Control

PCs used for ICAPS-PC should be safeguarded from unauthorized use within the ICAPS-PC office, as the ICAPS-PC system does not require a password for entry into the system. Users are responsible for data protection from unauthorized users. Protection is also required to safeguard the data from loss or corruption. Use of a password protected screen saver will provide an extra level of security when a PC is turned on, but, not in use.

4.3 Installation and Setup

Refer to Appendix A for installing ICAPS-PC Windows and importing existing ICAPS-PC data files to the Windows environment. ICAPS-PC Windows is initiated by clicking on the **ICON** that is created after the installation of the software. You may create normal Windows shortcuts.

4.4 Stopping and Suspending Work

ICAPS-PC Windows is exited by clicking on the "**Exit**" button on the Project Management screen or the "**X**" in the right hand corner.

SECTION 5. PROCESSING REFERENCE GUIDE

This section of the user's manual covers each screen and function of ICAPS-PC and provides procedural information for the use of each one. To the extent possible, the screens and functions are presented in the same order as they are found on the system's menu bar.

5.1 Conventions

The following items are standard features, which are used consistently throughout ICAPS-PC.

Note: The mouse typically comes with the left mouse button set as the primary button. This setting can be changed to the right mouse button for left-handed mouse users. When this user's manual refers to the primary mouse button, this means the left button is set for a right-handed person, and the right button is set for a left-handed person. The secondary mouse button will be on the opposite side from the primary mouse button.

5.1.1 Menus

Menu items can be selected by using the mouse button or the keyboard. One letter of each menu item is underlined. The letter can be used to invoke a menu item by holding down the **ALT KEY** and pressing the letter key that corresponds to the underlined letter. For example, holding down the **ALT** key and pressing the **F** key will invoke the File menu item. All items on the menu will produce a drop-down submenu. A submenu item may be selected by clicking on it using the primary mouse button or by pressing the letter key that corresponds with the underlined letter (without the Alt key). Items on the submenu will generate an action when selected unless the submenu item is followed by a **▶** symbol. This symbol indicates there is an additional submenu, and selecting this item will cause the next drop-down submenu to be displayed. Several functions will remain consistent throughout ICAPS-PC in accordance with the standard windows operations. A description of each menu option is described in the following sections of 5.1.1.

5.1.1.1 File Menu

The File menu allows access to specific processes/options/screens depending on which screen has focus. The options that are grayed out are not accessible. The following functions are available from the "File" menus.

5.1.1.1.1 Open Project

The "Open Project" selection opens the Project Management screen if it is closed.

5.1.1.1.2 Header

The Header screen can be accessed from the Data Screens "File" menu, option titled "Header"

Maint” or via a button on the Project Management screen.

5.1.1.1.3 System Setup

The Project Management screen must be closed before the System Setup menu option is active. Several defaults can be set for the system and data directories can be changed on this screen. The following System Setup Screen (Figure 5-1) is shown.

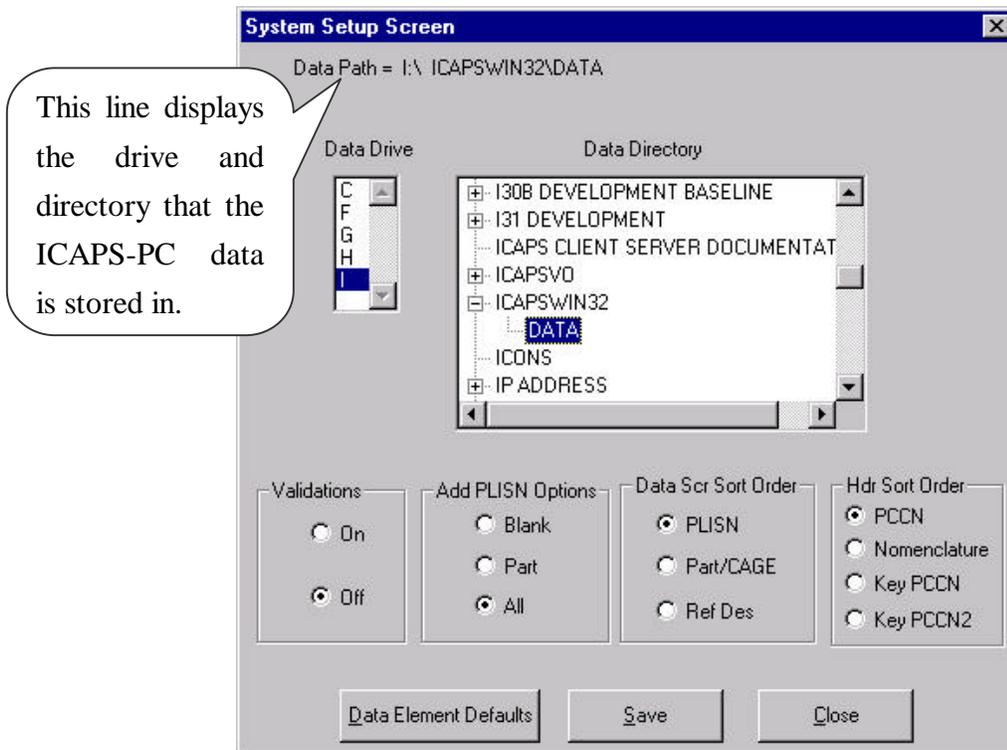


Figure 5-1 System Setup Screen

5.1.1.1.3.1 Data Element Defaults

Defaults can be set for selected data elements by using the “Data Element Defaults” button to display the Data Element Defaults Window (Figure 5-2).

Figure 5-2 Data Element Defaults Window

The defaults that are set at this screen (Figure 5-2) can be applied on the data entry screens using the “Apply Defaults” button (see section 5.4.4.1.2.3). The defaults will only be applied to the PLISN that is shown on the screen and only if the data element does not have data already entered. The defaults can also be applied to a whole project using the “Apply Defaults” utility. See section 6.1 for using the “Apply Defaults” utility.

5.1.1.1.3.2 Add PLISN Options

This option will set the PLISN addition feature. The options for adding PLISNs is copy all the data from an existing PLISN, copy only the Part data from an existing PLISN, or copy a blank PLISN. The default can be overridden during an ICAPS-PC session by changing it on the “File” menu of the project data entry screens. However, the next time ICAPS-PC is accessed, the default that is selected within System Setup will be reverted to.

5.1.1.1.4 Calcs Toggle

This option will set the Calcs toggle. The default can be overridden during an ICAPS-PC session by changing it on the “File” menu of the project data entry screens. A check mark is displayed on the left of this item when calculations are turned on. The Header Screen has a flag set for calculations to default to on or off. Clicking on the calcs toggle menu item will toggle the calculations on or off, but will not change the default value shown on the Header screen. When calculations are “on”, Next Higher Assembly PLISN, Same As PLISN, and Quantity Per End Item are automatically calculated using the Simple Summation method for standard provisioning projects and the Multiplier Method for Marine Corps projects. When calculations are “off”, the Quantity Per End Item field becomes accessible for data entry.

5.1.1.1.5 Print Setup

The Print Setup is the standard Windows print features for Windows applications. The Print Setup function is accessed from the Project Management screen via the "File" menu and allows maintenance on the various characteristics using the standard Windows selections.

5.1.1.1.6 Exit

Select "EXIT" to close ICAPS-PC.

5.1.1.2 Edit Menu

The Edit Menu allows access to specific processes/options/screens, if applicable.

5.1.1.2.1 Add PLISN

This option is accessible from the project data entry screens. Refer to section 5.4.4.4 for details.

5.1.1.2.2 Add PLISN By Ref Des

This menu option (Figure 5-3) is accessible from the project data entry screens. This is a new feature for version 3.2. This option will append up to 999 PLISNs to the end of the PCCN by duplicating the data of the current PLISN and incrementing the specified Reference Designator position. Select the radio button for the position of the Reference Designator that is to be incremented and enter the number of PLISNs to be added.

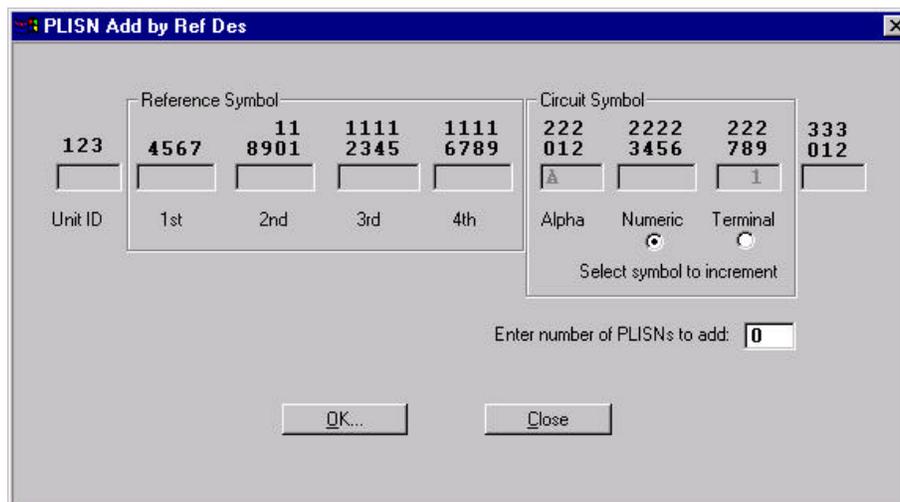


Figure 5-3 PLISN Add by Ref Des

5.1.1.2.3 Delete PLISN

This menu option is accessible from the project data entry screens. PLISNs can be marked for deletion using this Edit option. They will not be physically removed from the database files until the PACK utility is run. See the Utility section for guidance on the PACK Utility.

5.1.1.2.4 Import Part Data

This menu option is accessible from the project data entry screens and is also a button on the data screens. Refer to section 5.4.4.7 for details.

5.1.1.2.5 Apply Defaults

This menu option is accessible from the project data entry screens and is also a button on the data screens. Refer to section 6.1 for details.

5.1.1.2.6 Search

This menu option is accessible from the project data entry screens. This option allows the user to search for a specific record based on the selected sort sequence (PLISN, Part, or Ref Des).

5.1.1.2.7 Find

This menu option is accessible from the project data entry screens. This option allows the user to enter a query string for NIIN, Alternate Part Number, or Item Name. The first match to be found will be displayed on the data screen. The user can find the next match or accept the one that is found and close the Find screen.

5.1.1.2.8 Go To NHA PLISN

This menu option is accessible from the project data entry screens and is also a button on the data screens. If the PLISN on the data screen has a Next Higher Assembly PLISN association, the Edit Menu option will go directly to that PLISN and display it on the screen.

5.1.1.2.9 Return From NHA PLISN

This menu option is accessible from the project data entry screens and is also a button the screens. If the NHA PLISN has been advanced to, this Edit Menu option will return to the PLISN that the advancement came from.

5.1.1.3 Window Menu

The window menu allows access to specific ICAPS-PC windows. Click on the desired screen to bring into focus.

5.1.1.4 Help Menu

The Help menu provides information about the ICAPS-PC system. Help is provided by Data Element Name or Number, Utilities, and Reports. There are also some helpful hints to provide additional information for maintaining data. The various ways to display ICAPS-PC Help are:

1. Click on the “**HELP**” menu to obtain help.

2. Press the **F1** key while on the data element.
3. **Shift/F1** changes the cursor to a question mark arrow. Click on an item to display Help.
4. Use the right mouse button when positioned on a data element and select “**HELP**” from the pop-up menu.

5.1.1.4.1 Index

Displays an index of available Help topics. Click on the “Help” menu on the menu bar. Select the type of help to be accessed (Standard Provisioning or Marine Corps) and then click on the “Index” option for information.

5.1.1.4.2 Context Help

Allows user to get context-sensitive Help for an item or area currently displayed on screen. On the menu bar, click the “Help” function. Select the type of help to be accessed (Standard Provisioning or Marine Corps) and then click the “Context Help” option for information.

5.1.1.4.3 Using Help

Describes how to use the Windows online Help system. On the menu bar, click on the “Help” function. Click the “Using help” option for information.

5.1.1.4.4 About

Displays the current version number of ICAPS-PC for Windows. On the menu bar, click on the “Help” function. Click the “About” option for information.

5.1.2 Tool Bars and Action Buttons

All screens throughout the system provide a tool bar positioned horizontally at or near the top of the screen. The tool bar contains action buttons for the most frequently used functions. As with the menu items, an action can be selected by clicking on the button with the mouse or by pressing a combination of keys on the keyboard.

5.1.3 Shortcut Keys

One letter on each action button caption is underlined. Invoke an action by holding down the **ALT KEY** and then pressing the **LETTER KEY** that corresponds to the underlined letter. For example, holding down the **ALT KEY** and pressing the **X** key will invoke the **Exit** action. Windows shortcut **CTRL** keys, are operational in ICAPS-PC Windows and the right mouse button can be used for copy/cut/paste routines.

5.1.4 Additional Function Buttons

Some screens have function buttons in addition to the toolbar action buttons. These additional

buttons are provided to give access to related screens or to a function related to the processing of the data. The most common function buttons are as follows:

F1 = Help F3 = Save F7 = Previous Record F8 = Next Record

5.1.5 Moving From Field to Field

Since ICAPS-PC was developed as a Windows application, users have flexibility in moving the cursor from one field to another. The Tab key will still move you forward on the screen to the next data entry field, and Shift/Tab will move you backward to the previous data entry field. You may also move to any data entry field on the screen by moving the cursor with the mouse to the desired field and clicking once within the field with the primary mouse button.

5.1.6 Database Navigation

The data screens within ICAPS-PC allow the view of data that has been stored previously in the ICAPS-PC database. The Data Screens display data relevant to only one PLISN at a time. The Project Browser utility will display data for all PLISNs in the project in tabular form. Refer to the Utility section for details of the Project Browser.

5.1.7 Scroll Bars

When you are not able to see all data at one time, a standard Windows scroll bar will be available. Scroll bars are placed vertically on the right side or horizontally below the field to move the data up and down or to the left and right, allowing all parts of the data to be read.

5.1.8 Drop-Down Lists

Several fields have a multiple number of allowable values. These fields have drop-down lists associated with them, and are recognizable by a ▼ symbol on a button to the right of the entry field. Click on the ▼ to see the drop-down list of values, then click on the appropriate choice within the list to make that value appear automatically in the entry field.

5.1.9 Check Box Fields

A check box field is one which can have either of two values: True (Yes) or False (No). A True/Yes value is indicated with an 'X'. An empty box indicates a False/No value. The value can be toggled back and forth by clicking inside the box.

5.1.10 Radio Button Groups

Radio button groups consist of related items. Only one of the items can be selected by clicking on that item's label or on the circular button next to the label. The black dot will then appear within the circle next to the item selected, and the other buttons will be empty.

5.1.11 Messages

5.1.11.1 Error Messages

Wherever possible, data validation is performed on data entry fields. If the validation detects an error in the data that has been entered, an error message will be displayed. An example of an error message is, **"You must enter a CAGE"**. The message indicating the nature of the error will appear in a dialog box in the center of the screen. Click the **"OK"** button to proceed and correct the problem.

5.1.11.2 Confirmation Messages

Confirmation messages are used to caution a user and to offer an opportunity to abort a function that could have a significant impact on the database. An example of a warning message is, **"Are you sure you want to DELETE this PLISN?"**. Click **YES** before proceeding. Click **NO** or **CANCEL** to terminate the function.

5.1.11.3 Information Messages

Information messages are used when there is a need to convey general information to the user. An example of this is the message, **"PCCN is required."** The messages remain on the screen until the **"OK"** button is clicked or the **ENTER** key is pressed.

5.2 Processing Procedures.

This section contains descriptions of the processing, features, and screen functionality within ICAPS-PC. Refer to Appendix E for unique Marine Corps screens and processing. References to other sections of this manual are provided to guide you to related information.

5.2.1 Starting and Exiting the ICAPS-PC System

There are different options for starting and exiting ICAPS-PC within the Windows environment. The options presented below are how ICAPS-PC was designed. Other Windows routines can accomplish the same function.

5.2.1.1 ICAPS-PC Start-Up

Activate the ICAPS-PC system from within Windows by clicking on the **START** button on the Windows Task Bar, then click on **PROGRAMS**, then **ICAPS-PC**.

5.2.1.2 Exiting ICAPS-PC

ICAPS-PC can be exited from the "Exit" selection on the Project Management Screen.

5.2.2 ICAPS-PC Screens

5.2.2.1 Project Management Screen

The Project Management Screen (Figure 5-4) displays all the existing and provides options for PCCN management and project selection. The Project Management Screen is common between standard and Marine Corps provisioning.

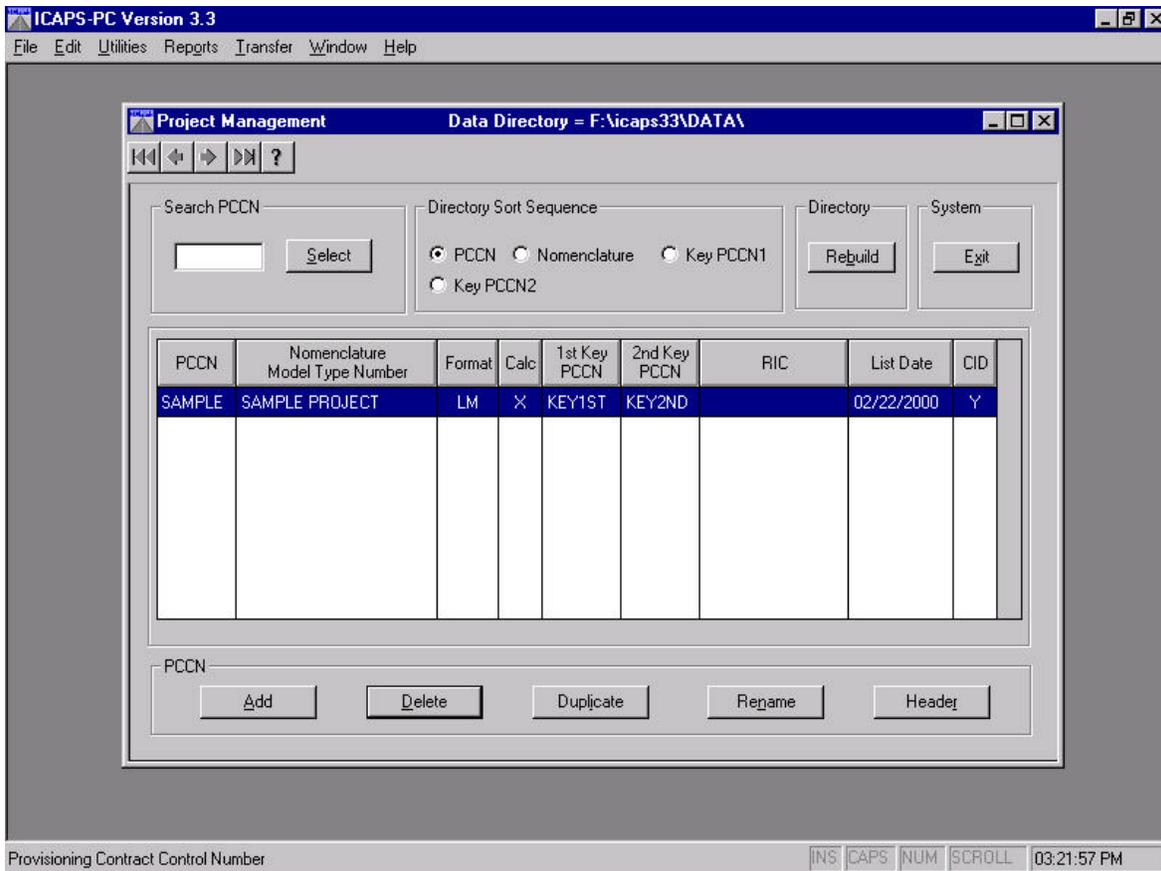


Figure 5-4 Project Management Screen

The columns on the Project Management screen can be moved during a session by holding the mouse button down on a column heading and dragging it to a different spot. The following are specific features on the Project Management screen.

5.2.2.1.1 Search PCCN

The Search PCCN box allows a user to search for a PCCN when only a portion of the PCCN is known. If the complete PCCN is not known, enter the first letter. The highlight bar will move to the first PCCN that starts with the letter that was entered. As more letters of the PCCN are entered the bar will move to the next iteration. If a value is entered that is not part of the PCCN, the cursor will move to the closest match. This is commonly called a soft seek. If all six (6)

characters are entered and a PCCN does not exist for the entry, a message that the PCCN does not exist will be displayed.

The Search PCCN will change search options to correspond with the selection of the Directory Sort Sequence. Such as, if the sort sequence is by Nomenclature, the search will search by Nomenclature. The "Search PCCN" label will also change to show what is being searched.

5.2.2.1.2 Select

Takes the user to Data Screen 1 and displays database information for the selected PCCN. If the project has a format code of "MC" the Marine Corps Data Screen will be displayed.

The mouse and/or arrow keys can be used to highlight a project. When a project is highlighted, the "Select" button can be used to open up the data screens for the highlighted project. A project can also be selected by double-clicking on the project with the mouse.

5.2.2.1.3 Directory Sort Sequence

Represents the various sequences in which the project can be listed and searched by.

5.2.2.1.4 Directory

Select the "Rebuild" button to rebuild the header. Using the PCCN highlighted on the Project Management screen, the system will create a skeleton header record in the ICAPS-PC project header file. The option searches the current directory and updates the Header file with new projects identified in the directory. Projects already in the header file will not be affected.

5.2.2.1.5 System

The "Exit" option in this group box will close ICAPS-PC.

5.2.2.2 PCCN

Within the PCCN group box are five options that can be used for maintaining PCCNs.

5.2.2.2.1 Add PCCN

The "Add" option initializes the database record structures to develop a project from scratch, PLISN by PLISN. It generates the Header record. **This option is not used to load an 80-column provisioning file into ICAPS-PC.** The steps to add a PCCN are as follows:

1. Select "**Add**" on the Project Management screen.
2. ICAPS-PC Project Addition screen is displayed.
3. Enter the new **PCCN** to be added.

4. Enter or Select from the drop down list the **PROJECT FORMAT** for the new PCCN.
5. Enter first **PLISN** to be added. The default is "A001" for standard provisioning projects and can be changed. The default for Marine Corps projects is '9999' and cannot be changed.
6. Enter first **CAGE** to be added. For Marine Corps projects this field will default to '99999'.
7. Enter first **PART NUMBER** to be added. For Marine Corps projects this field will default to all 9's.
8. Select "**Add**" to add the PCCN and return to the Project Management screen.

OR

Select "**Cancel**" to return to the Project Management screen without adding the PCCN.

9. If PCCN has been entered and Header Screen is displayed, enter the **HEADER INFORMATION** and return to the Project Management screen when completed.

5.2.2.2.2 Delete

The "Delete" option permanently removes an entire PCCN project from ICAPS-PC. The steps to delete a PCCN are as follows:

1. On the Project Management screen, highlight the **PCCN** to be deleted and select the "**Delete**" button. A pop-up screen displays the following message:

"IMPORTANT! - This deletion capability does not delete the original downloaded text file or the finished text file for upload. All database files and index files for the PCCN currently highlighted on the Project Management Screen will be deleted. Are you sure you want to delete this PCCN?"

2. "**Yes**" to delete the database files and index files for the highlighted PCCN.

OR

"**No**" to return to the Project Management screen without deleting the PCCN.

5.2.2.2.3 Duplicate PCCN

The "Duplicate" option copies an entire or partial PCCN project and assigns it a new PCCN. The steps to duplicate a PCCN are as follows:

1. On the Project Management screen, highlight the **PCCN** to be duplicated and select the "**Duplicate**" button.
2. A pop-up screen for "ICAPS-PC Project Duplication" is displayed.

3. Enter the **PCCN** to be created.
4. You can only select one of the following optional delimiters:
 - PTD Select field (can be any one of the PTD Select fields)
 - Change Authority
 - Remarks
 - “P” Coded SM&R Items
5. If desired, the “**Recalc**” button can be selected to recalculate the project during the duplication process.
6. Select “**Duplicate**” to duplicate the PCCN.

OR

Select “**Cancel**” to return to the Project Management screen without duplicating a PCCN.

5.2.2.2.4 Rename PCCN

Rename the highlighted PCCN on the Project Management screen to another name. The steps to rename a PCCN are as follows:

1. Highlight the **PCCN** to be renamed and select the “**Rename**” button.
2. A pop-up screen appears with the following message:

**“NOTE THE PCCN TO BE RENAMED IS THE PCCN CURRENTLY
HIGHLIGHTED ON THE PROJECT MANAGEMENT SCREEN”**

3. Enter a new **PCCN**.
4. Select “**Rename**” to rename the PCCN.

OR

Select “**Cancel**” to return to the Project Management screen without renaming the PCCN.

5.2.2.2.5 Header

The Header option on the Project Management screen will take the user to the Header screen.

5.2.3 ICAPS-PC Project Header

The Project Header contains master information for each PCCN. The Header Screen (Figure 5-5) can be accessed from the Project Management screen via a button titled “Header” or from the “File” option on the menu bar titled “Header Maint.” The highlighted PCCN on the Project Management screen appears as the PCCN on the Header screen. The Header Screen is used for standard provisioning project and Marine Corps projects. There are also unique Marine Corps Header Screens that are referenced in Appendix E.

Header Screen - PCCN: ASDASD - Format: 2B

Header | CID

PIIN/SPIIN: N0002488C6158

Nomenclature, Model, Type Number: AN/WLR-9B(V)2 VARECPS

Control Data: BASIC

Prime CAGE: 21877

Submission Control Code: 00001

List Date (mm/dd/yyyy): 09/12/1994

Format: 1388.2B

1st Key PCCN: N68555

2nd Key PCCN: N98989

RIC:

Contractor/TSA/NAVICP

Contractor: CONTRACTOR

TSA: TSA

NAVICP: NAVICP

Project Type

HME Electronic Ordnance Other

DCN:

Date Created: 08/17/1999

Calculations

On Off

Vals Off | Remarks | Save

Figure 5-5 Header Screen

The steps to add a Header record are as follows:

1. Enter the **PERTINENT INFORMATION** in the specified fields for the specific PCCN.
2. Select **“Save”** to save the record.
3. A popup screen displays a message, **“Data Saved”**.
4. Select **“OK”**.
5. Select **“Close”** to return to the Project Management screen.

If the data has been changed, an information box will display a message, **“Do you want to save changes?”**

1. Select **“Yes”** to save the changes and display an information message, **“Data saved”**.
2. Select **“No”** to return to the Project Management screen without saving the record.
3. Select **“Cancel”** to abort with no action. The cursor remains on the Header screen.

5.2.3.1 Project Header Fields

The following represents the data fields on the Project Header screen:

a. **PIIN/SPIIN.** This field identifies the Procurement Instrument Identification Number and the Supplementary Procurement Instrument Identification Number (normally identified as the contractual document number) assigned by the procuring activity.

b. **Nomenclature, Model, Type Number.** This field is used to specify the Name, Model or Type Number of the item being provisioned.

c. **Control Data.** This field is used for control information as specified by the requiring authority. It is further used to indicate the manufacturer's design at the time of provisioning. E.g. "Basic" could be used when the equipment design is basic or first time production run. "Rev 1", "Rev A", etc, or "DCN" could be used if the equipment has had modifications to it that required revising the technical data.

d. **Prime CAGE.** This is the Commercial and Government Entity code (CAGE) of the Prime Contractor for the equipment being provisioned.

e. **Submission Control Code.** This field is used to control the submission of provisioning data. The first submission will be numbered 00001 and each subsequent submission will be numbered sequentially, one greater than the previous submission.

f. **List Date.** This field is used to identify the date of submission for the Provisioning Technical Documentation (PTD) to the reviewing activity. The format is Month -Day-Year (mm/dd/yyyy).

g. **Format.** This is a drop down to allow the selection of the format code (1388.2A, 1388.2B, 1552A, CaNDI, PAL, LMI, or Marine.) to be used for the project.

1. A Preliminary Allowance List (PAL) project is processed as a MIL-STD 1388.2A LSA-036 output. The range of data required to build a PAL is less than is required to build a complete 1388.2A project. The range of data validated for a PAL is also less than the standard 1388.2A processing.
2. A Commercial and Non-Developmental Item (CaNDI) project is processed as a MIL-STD 1388.2B LSA-036 output. The range of data required to build an CaNDI is significantly less than that which is required to build a complete 1388.2B project. The data validations for a CaNDI are less than the standard 1388.2B processing.

3. MIL-STD interchangeability is built into ICAPS-PC. When a project exists in ICAPS-PC, it can be viewed or updated in either a 1552, PAL, CaNDI, LMI, 1388.2A or 1388.2B screen by switching the MIL-STD flag on the ICAPS-PC Project Header screen. The following options initializes a PCCN:

- Loading an LSA-036 text file into ICAPS-PC.
- Using the PCCN Addition function to build PTD from scratch and selecting the file type.

4. A Marine Corps project will be assigned a format code of MC. This will signify throughout the system when unique Marine Corps screens will be displayed to process unique Marine Corps data.

h. **1st Key PCCN Field.** This data element is primarily used to link together accessory component projects that support a single “end item” system. Additional features allow for report generation, part number queries, mass part data updates against system level Key PCCNs and part data import to project screens during PCCN “maintenance” and “add” selections.

i. **2nd Key PCCN Field.** This provides the user with the option to assign an additional Key PCCN.

j. **Contract/TSA/NAVICP.**

1. **Contractor** - This data element represents the contractor assigned to the specific project.
2. **TSA** - This is a protected field that identifies the ISEA who owns the project on ICAPS client/server and controls update access to it. When creating a new output file for upload to ICAPS client/server, the software will allow this field to be coded with an ISEA, e.g. NSWC/PHD (Naval Surface Warfare Center, Port Hueneme Division), NOSL (Naval Ordnance Station Louisville), NSLC (Naval Sea Logistics Center), etc.
3. **NAVICP** - Relevant to ICAPS client/server only. In-Service Engineering Agents/Activities (ISEAs) can assign either the contractor or ICP cognizant personnel the capability to update a project by using this field.

k. **RIC.** This data element represents the Repairable Identification Code for a part.

- l. **Project Type.** This data element represents the type of project as being HM&E, Electronic, Ordnance, or other.
- m. **DCN.** This data element represents a Design Change Notice flag which is turned on or off.
- n. **Calculations.**
 1. **Off** - When “Off” is selected on the Header Screen all on-line and batch calculations of QE (Quantity Per End Item), SAPL (Same As PLISN), and NHA (Next Higher Assembly) will be turned off. The Quantity Per End Item will be allowed to be edited when the calculations are off. The “Calc” column on the Project Management screen will be blank. The “X” is preserved for a project during upload to ICAPS-C/S. The term ‘dependent data’ will be used when referring to the three computed elements of QE, SAPL, and NHA.
 2. **On** - When “On” is selected on the Header Screen all on-line and batch calculations of QE (Quantity Per End Item), SAPL (Same As PLISN), and NHA (Next Higher Assembly) will be turned on. The Quantity Per End Item will not be allowed to be edited when the calculations are on. The “Calc” column on the Project Management screen will have an “X”. The “X” is preserved for a project during upload to ICAPS-C/S.

Many users do not require their QEs/NHAs/SAPLs to be readjusted on a screen to screen basis, but instead prefer the faster program speed when the calculation steps are bypassed. When the update is complete, the calculations can be turned on. In addition, the Recalculation Utility program on the ICAPS-PC Utilities Menu, which updates the QEs/NHAs/SAPLs for a project, can be run.

Having calculations off can be used to suppress on-line Method I calculations when the intent is to apply Method II calculations in batch to a project after the update is completed. On-line calculations are done by Method I (simple summation of all QAs (Quantity per Assembly) for a Part Number to arrive at a QE). The Recalculation Utility program enables updating an entire project's dependent data by Method I or Method II (multiplication by QA of Next Higher Assemblies to arrive at QE). Calculation of QE is different between methods.

Calculation of NHA and SAPL is identical in Methods I and II. Refer to Section 3.2.9.5 (Recalculate All QE/SAPL/NHA).

Turning calculations off can also be used to prevent on-line calculation of dependent data after the project's upload to ICAPS-C/S. Dependent data is accepted from the projects uploaded from ICAPS-PC 'AS IS'.

Note: It is the responsibility of the ICAPS-PC user to ensure that their dependent data is calculated correctly before it is uploaded.

5.2.4 Component Identification Data Screen (CID)

A file of various characteristics, that are functional, electrical, and physical. This file can contain information such as Manufacturers' data, special notations, or narrative description that uniquely identifies an Equipment/Component or Equipage List. This screen contains pertinent information needed for the CID for a specific project. The line number and caption on this screen are informational only. This option is the CID Tab on the Header screen. The CID is categorized on five (5) separate sub-tabs. The steps to update a CID record are as follows.

5.2.4.1 CCF1

1. Select "**CCF1**" tab to display the Project Type dependent data. The project type dictates the line item captions that are presented. The default is HM&E. If the CID database does not already exist then one will be created.

Note: If the Project Type is changed on the Header Screen, all CID/CCF data will be lost.

2. Enter **ALL PERTINENT DATA** for the CID/CCF Project type.
3. Select the "**Save**" button to save the data. A pop-up screen displays, "**Data saved**".
4. Select the "**OK**" button.

5.2.4.2 CCF2

Select "**CCF2**" tab to enter Technical Manual and Certification Data Sheet Numbers. Information on the Submitter, TSA, and ICP can also be entered. This information is optional.

5.2.4.3 NHA/NLA

Next Higher Assembly/Next Lower Assembly (NHA/NLA) data relates to the equipment being provisioned. Identify the NHA/NLA for the item being provisioned, if known. The steps to update the NHA/NLA are as follows:

1. Select the “**NHA/NLA**” **TAB**.
2. Select the “**Add**” or “**Delete**” button.

To **ADD** NHA/NLA records:

1. Select the “**Add**” button.
2. A row will be added and highlighted at the top of the browser, or after the last row.
3. To gain entry to this row, position the cursor on top of the highlighted row under the desired column, and double-click. The row for that column is now ready for edit. Data can only be entered one row at a time.
4. Upon completion of the entry, either press the **TAB** key or single-click the row under a different column or on another row to close the cell.

To **DELETE** NHA/NLA records:

1. Position the cursor to the desired row either by using the vertical scrollbar or the up/down arrow keys or the pageup/pagedown keys.
2. Select the “**Delete**” button. A prompt will be displayed to solicit continuation of the delete process, showing the selected NHA and NLA. To delete this row, click the “**Yes**” button. To abort the delete process, click the “**No**” button. Only one row at a time can be deleted.

5.2.4.4 Char/Notes

APL Characteristics Data. This relates to the equipment being provisioned and allows additional characteristics data including size (HP, GPM, etc.), electrical characteristics, size of connections (if applicable), and other data required for positive identification of the component. The steps to add Char Notes are as follows:

1. Select the “**Char Notes**” Tab.
2. Select the desired function, **ADD**, **DELETE**, or **INSERT**.

To **ADD** APL Characteristics records:

1. Select the “**Add**” button.
2. Enter a line number in the pop-up box that is displayed.
3. Click “**OK**”. If the line number already exists, an error message will be displayed. Click “**OK**” and enter a different line number that does not already exist.
4. A row will be added and highlighted.

5. To gain entry to this row, position the cursor on top of the highlighted row in the APL Characteristics column, and double-click. The APL Characteristics is now ready for edit. Only one row at a time can be added.
6. Upon completion of the entry, either press the **TAB** key or single-click the row under a different column or on another row to close the cell.

To **DELETE** APL Characteristic records:

1. Position the cursor on the desired row.
2. Select the **"Delete"** button. An **"Are you sure?"** prompt will be displayed. To delete this row, click the **"Yes"** button. To abort the delete process, click the **"No"** button. Only one row at a time can be deleted.

To **INSERT** APL Characteristics records:

1. Position the cursor on the row that needs to have a row inserted above it. Such as, if you have row 109 and 110 position the cursor on 110 to insert a row between 109 and 110. The sequential rows after the newly inserted row will automatically be renumbered. The line numbers cannot be manually changed and duplicate line numbers cannot be added.
2. Follow the steps above to enter the APL Characteristics for the inserted row.

To **CHANGE** APL Characteristics line numbers:

1. Position the cursor on the row that needs to have the line number changed.
2. Select the **"Change"** button.
3. A pop-up screen will be displayed and the line number being changed will be displayed.
4. Enter the **REVISED LINE NUMBER** in the box. If the number is an existing line number, the following message will be displayed **"This will resequence all subsequent line number(s), do you want to proceed?"**. If you select "no" the process will be canceled. If you select "yes", the old line number will be renumbered and all the following lines will be renumbered. Such as, if you have rows 109, 110, and 111 and line 111 is being changed to 109. If you select yes to change and resequence, line 111 will become 109, 109 will become 110, and 110 will become 111.
5. The APL Characteristics will change with the line numbers so that the characteristics remain with the original entry.

5.2.4.5 Application Data

Service Application Code (SAC), Service Application Description (SAD), Equipment

Identification Code (EIC) or Expanded Ship Work Breakdown Structure (ESWBS), as appropriate. The steps for this process are as follows:

1. From the CID/CCF screen, select the “**App Data**” button.
2. Select the desired function, **ADD** or **DELETE**.

To **ADD** Service Application Data records:

1. Select the “**Add**” button.
2. A row will be added and highlighted at the top of the browser, or after the last row.
3. To gain entry to this row, position the cursor on top of the highlighted row under the desired column, and double-click. The row for that column is now ready for edit. Only one row at a time can be added.
4. Upon completion of the entry, either press the **TAB** key or single-click the row under a different column or on another row to close the cell.

The UIC field will be validated to ensure that there is a UIC for each line item that is entered. You cannot have data in the Qty or Service Application Data columns without a UIC.

To **DELETE** Service Application Data records:

1. Position the cursor on the desired row either by using the vertical scrollbar or the up/down arrow keys or the pageup/pagedown keys.
2. Select the “**Delete**” button. A prompt will be displayed to solicit continuation of the delete process, showing the selected UIC. To delete this row, click the “**Yes**” button. To abort the delete process, click the “**No**” button. Only one row at a time can be deleted.

5.2.5 Standard Provisioning Data Entry Screens 1 through 4

Refer to Appendix E for the Marine Corps Data Screens.

The data screens are accessed via the Project Management screen or the “File” menu bar and are used for inquiry and update for the specific information relating to a particular project (PCCN). The screen in focus on your monitor will be highlighted and cannot be opened again during the current session. The PCCN that is highlighted on the Project Management screen will be the PCCN on the data screen(s) to be updated. The screens are organized by Tabs that are labeled ‘Screen 1’, ‘Screen 2’, ‘Screen 3’, and ‘Screen 4’. Use the Tabs to move between data screens. The data on these screens is available in PLISN, Part, and Ref Des sort sequence.

The steps to update fields on each of the screens are as follows:

1. Enter all **DATA** for the fields necessary to work the specified project.
2. Select **“Save”** to save the data on the screen. The data will automatically save when advancing to the next PLISN without having to click on the **“Save”** button.
3. A popup message displays **“Screen # Data Saved”**. Select **“OK”** to return to the data screen.
4. If validations are turned on, a validation message will be displayed.

The standard provisioning Data Screens (Figures 5-6 through 5-9) are shown below followed by explanations of the features and usage of the buttons on the bottom of the screen:

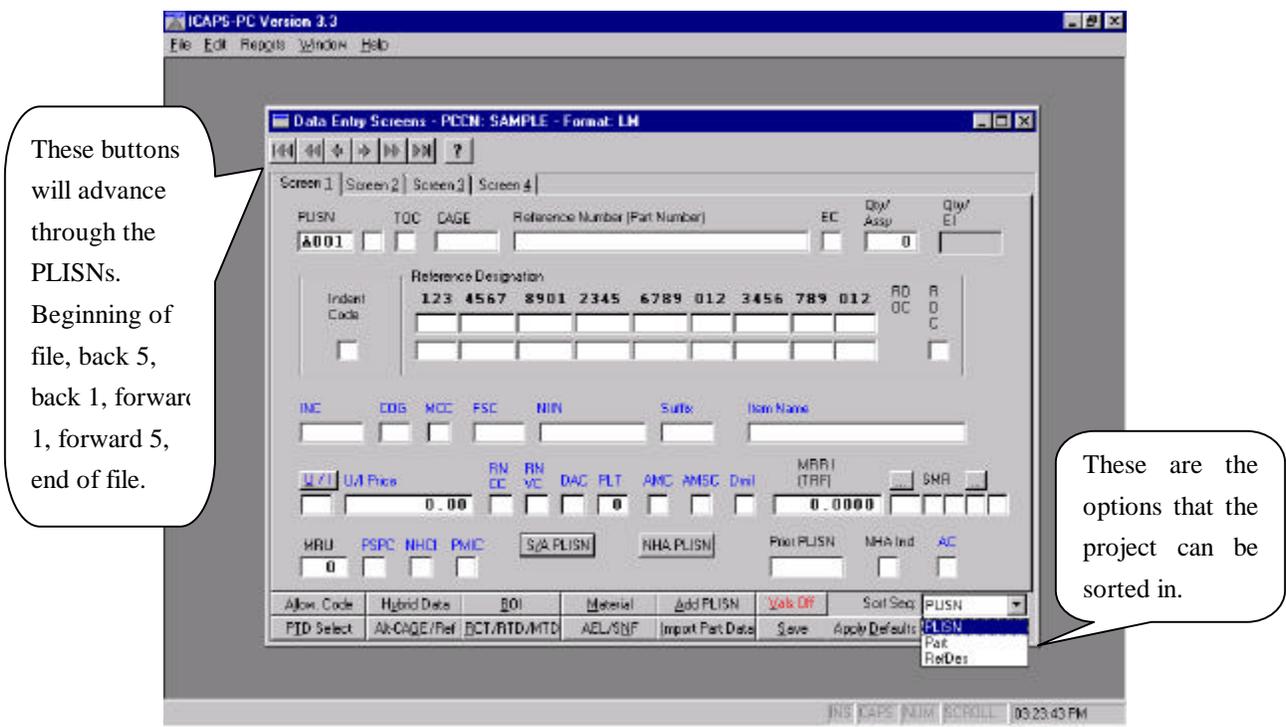


Figure 5-6 Data Screen 1

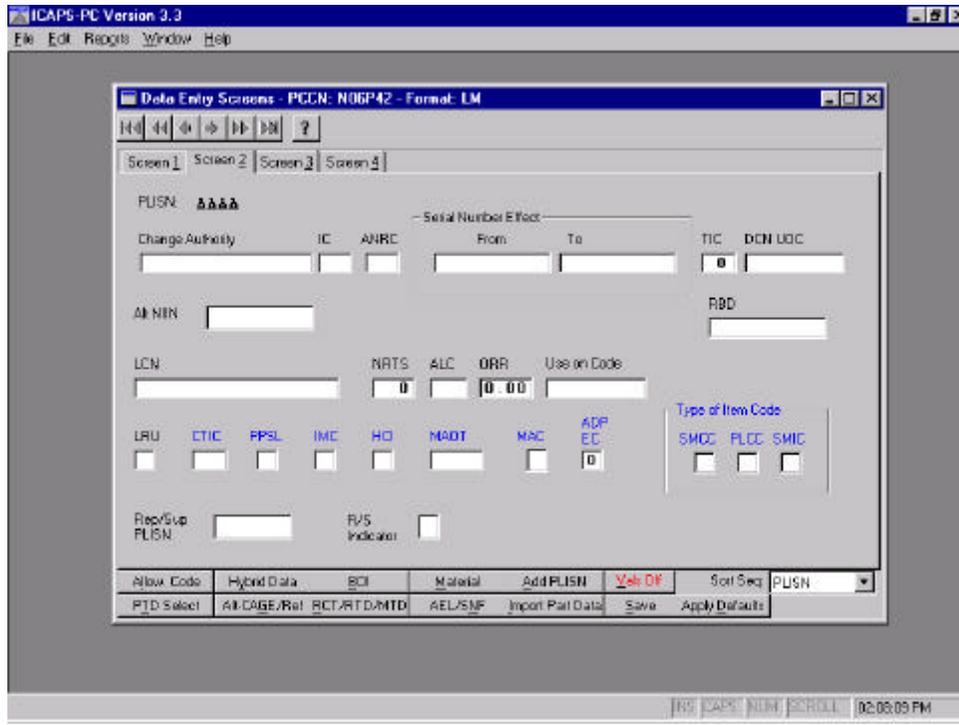


Figure 5-7 Data Screen 2

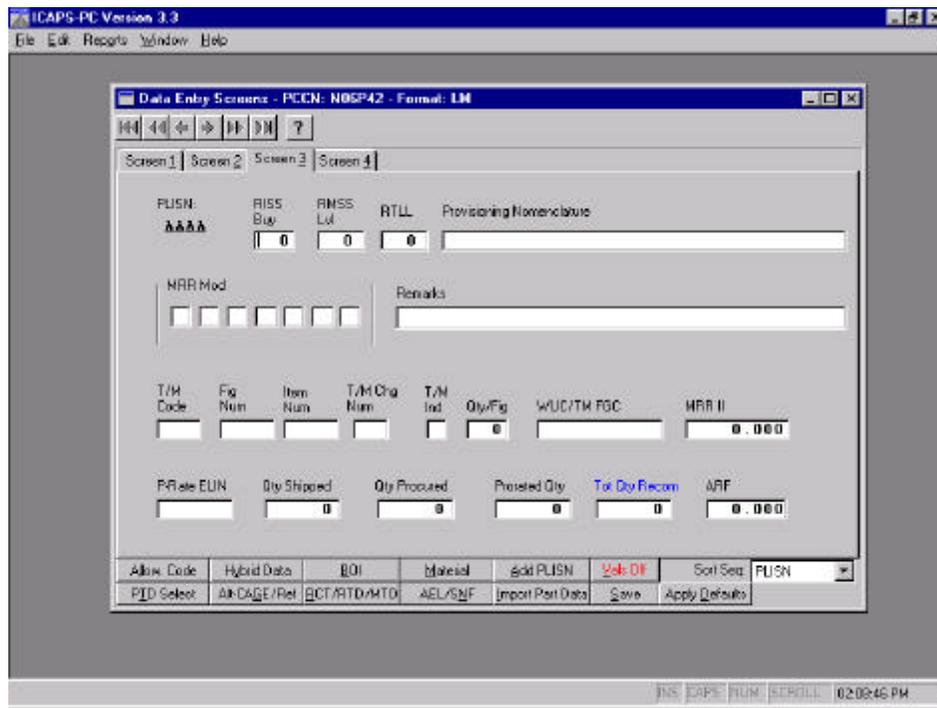


Figure 5-8 Data Screen 3

Screen 4 is an overview of the Allowance Codes, PTD Select Fields, dependent data for Unit of Issue, and dependent data for SM&R. These fields can also be updated from other pop-up boxes.

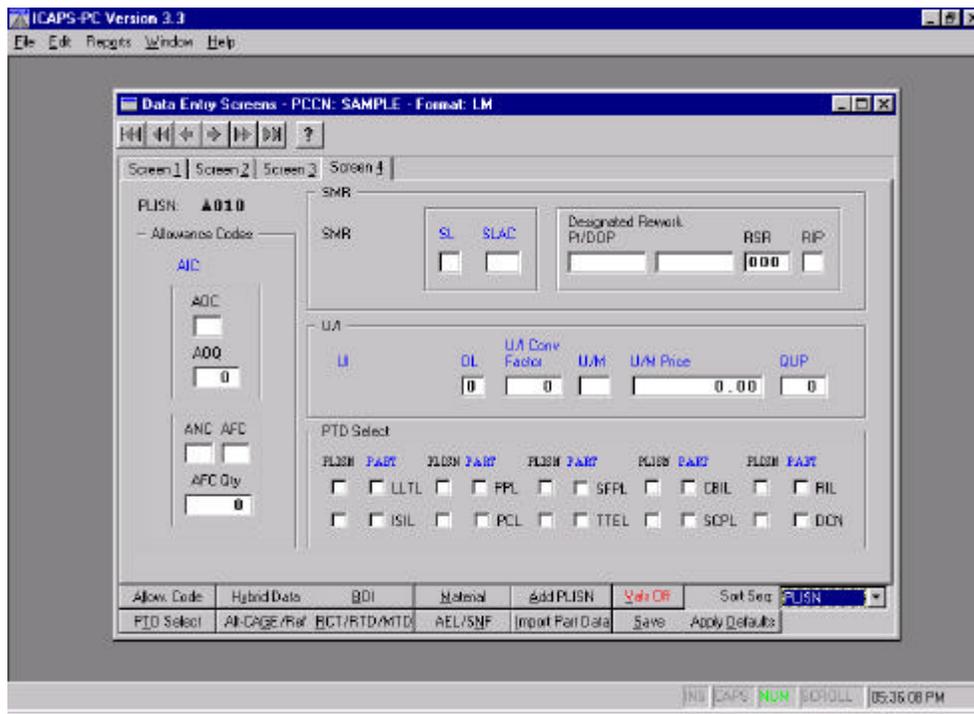


Figure 5-9 Data Screen 4

The data elements with blue labels indicate that these are Part related data elements. Part related data elements are common for all occurrences of a Part Number/CAGE within a project. Refer to section 5.4.5 and 5.4.6 for additional information on data elements. See section 5.4.4.5 for information on the changes in release 3.3 for the PTD Select. There are several common options on each of the Data Screens.

5.2.5.1 Allow Code

A pop-up screen that allows update to the allowance codes. The allowance codes include the Allowance Item Code (AIC), Allowance Override Code (AOC), Allowance Note Code (ANC), Allowance Factor Code (AFC), Allowance Override Quantity (AOQ), and Allowance Factor Quantity (AFCQTY). The AIC is generated based on the values in AOC, ANC, and AFC.

1. The “Allowance Code” pop-up screen is displayed.
2. Enter the desired **VALUES** in the input fields.
3. Select “**Save**” to save the data.
4. Select “**Close**” to return to the data screen.

The data for the Allowance Code can also be maintained on Data Screen 4.

5.2.5.2 Hybrid Data

The purpose of this function is to perform a global update throughout the project for data that is PLISN related for a specified CAGE/Reference Number. There are six hybrid data elements for greater update flexibility; 1) CAGE, 2) Reference Number, 3) SM&R Code, 4) MRRI(TRF), 5) MRU, and 6) EC. When these elements are changed, the change is applied to all occurrences of the Part Number in the project. Only hybrid elements that have been changed will be updated. Unaltered values will not be applied to the database. The steps to process hybrid data are:

1. The “Hybrid Data” pop-up screen is displayed.
2. Enter the desired **VALUES** in the input fields.
3. Select “**Save**” to save the data.
4. An information box will be displayed showing the number of PLISNs that were updated. Click “**OK**” to close the information box and return to the data screen.

5.2.5.3 Vals

This is a flag that is turned on for pre-determined field validations and displays the button titled as “Vals On” or “Vals Off”. The default is “Vals On”. The default can be reconfigured in the System Setup option off the File menu. Clicking the button will turn the validation on/off for that session, but, will not change the default.

5.2.5.4 Add PLISN

This option adds a PLISN to the end of the data file and displays the new PLISN. The default format for adding PLISNs is set in the ICAPS-PC System Setup.

1. The first time “Add PLISN” is used during a session, select one of the following methods of keep the default:

Copy Blank PLISN - A screen will appear with the fields blank for new added PLISN.

Copy Part Data - Only Part Related Data will be copied over to the new added PLISN.

Copy All Data - All data, both Part and PLISN related, will be “cloned” to the new PLISN Add screen.

2. Select “**OK**” to copy the selected method of adding a PLISN.
3. Select “**Cancel**” to return to the current data screen.

5.2.5.5 PTD Select

This option displays the “PTD Select Data” screen that contains the various Provisioning Technical Data types.

The primary purpose of the PTD selection codes is to link a **part** to one or more Provisioning Parts List subsets. This data element is part of the MIL-STD 1388 H Parts record, but is not output on the LSA-036 record.

In version 3.3 of ICAPS-PC, PTD selection codes were added to the PLISN file. This enhancement enables electronic projects to use the PTD selects for their applications that are built by reference designator. This feature is only available in ICAPS-PC and the PLISN selections are not uploaded to Client/Server.

This field is used to generate ICAPS PPL reports and is also used in PCCN Duplication.

Within ICAPS-PC, each PTD selection is related to a CAGE/Part Number and/or individual PLISN. If a selection is made for a CAGE/Part Number, it will be shown on each PLISN that has the same CAGE/Part Number. If a selection is made for a PLISN, only the selected PLISN will be marked. Each item on the PTD Select screen is a check box that can be turned off and on by clicking on the specific box with the mouse.

1. Select “**Save**” to save the data.
2. Select “**Close**” to return to the data screen.

The PTD Select fields can also be maintained on Data Screen 4.

5.2.5.6 Alt-CAGE/Ref

Alternate CAGE and Reference Number (Part Number). The steps for updating the Alternate CAGE/Ref are as follows:

1. A pop-up screen for “Alt CAGE/Ref Number” appears.
2. Enter the **VALUES** for the appropriate fields.
3. Select “**Save**” to save the data.
4. Select “**Close**” to return to the data screen.

5.2.5.7 Import Part Data

The part data for the current PLISN is updated with the part data from the CAGE/Part Number specified. If found, the screen is refreshed with the associated part data. The steps for this process are as follows:

1. Import Part Data is accomplished from Data Screen 1.
2. At the desired PLISN for update, specify the CAGE and Reference Number (Part Number) to retrieve the part data by entering the respective edits.
3. Select the “**Import Part Data**” button. If found, the current PLISN will be updated. If not found, a message will display, indicating no part data could be found for the specified CAGE/Part. Select the “**OK**” button.

5.2.5.8 Save

This option saves the data that has been entered on the date screen.

5.2.5.9 BOI

This option displays a pop-up screen for the Basis of Issue (BOI) which is composed of four subfields:

- Quantity Authorized - Quantity of an item (special tool) authorized for the end item density spread or for the unit level specified.
- End Item - The density spread of the end items.
- Level - Indicates the unit level authorized for the quantity authorization.
- Control - Code sequence control of Basis of Issue entries for valid entries 1-9.

The steps for updating the BOI are as follows:

1. Enter **DATA**
2. Select “**Save**” to save the data. Information box displays a message; “**BOI Data Saved**”.
3. Select “**OK**” to save the data and return to the Basis of Issue screen.
4. Select “**Close**” to return to the data screen.

5.2.5.10 RCT/RTD/MTD

This option displays a pop-up screen for updating the repair data which is composed of the following subfields:

- Repair Cycle Time - The expected elapsed time in days to complete a repair cycle at each maintenance level.
- Replacement Task Distribution - The estimated percentage of removals and replacement of an item at the maintenance level.
- Maintenance Task Distribution - Represents the percent of a repairable item expected for repair and returned to stock by a specified maintenance level.

The steps to update RCT/RTD/MTD are as follows:

1. Enter all **DATA** for the fields necessary to work the specified project.
2. Select "**Save**" to save the data the Repair Window. Information box displays a message; "**Repair Data Saved.**"
3. Select "**OK**" to return to the "Repair Window".
4. Select "**Close**" to return to the data screen.

5.2.5.11 Material

A pop-up screen for providing a narrative description that identifies the chemical compound or mechanical properties of the components of an item. The steps to update Material are as follows:

1. Enter **MATERIAL** description.
2. Select "**Save**". Information box displays a message; "**Material Data Saved.**"
3. Select "**OK**" to return to the data screen.

5.2.5.12 AEL/SNF

A pop-up screen for maintenance on the Allowance Equipage List and Supplemental Nomenclature.

5.2.5.12.1 Allowance Equipage List (AEL)

Indicates the quantity of the item required that support a ship/group of ships/fleet type equipment/activity. When arranged in the foregoing order, such characters compromise a predetermined table of quantities of equipage items.

5.2.5.12.2 Supplemental Nomenclature (SNF)

Provides additional technical information for a specific item. The steps to update the AEL/SNF are as follows:

1. Enter pertinent **DATA**.
2. Select "**Save**".
3. A popup screen with a message, "**AEL/SNF Data Saved.**" is displayed.
4. Select "**OK**".
5. Select "**Close**" to return to the data screen.

Select "**Additional SNF Entries**" to enter up to 19 additional SNF records.

5.2.5.13 Apply Defaults

When "**Apply Defaults**" is selected, the fields that have the defaults applied will temporarily

display a yellow background so that the data elements can easily be reviewed. Defaults for the SM&R dependant fields (DOP, RSR, and RIP) are only applied if position 5 of the SM&R is "D" or "K".

5.2.6 PLISN Related Data

When updating a PLISN related data field, only the data for that PLISN occurrence changes. Another term for PLISN related data is application related. PLISN related fields are listed below:

1. Allowance Factor Code	2. Allowance Factor Code Quantity
3. Allowance Note Code	4. Allowance Override Designator Code
5. Allowance Override Quantity	6. Alternate Logistic Control Number
7. Application Replacement Factor	8. Change Authority Number
9. Contractor Turn Around Time	10. Designated Rework/Overhaul Point
11. Design Change Notice UOC	12. Failure Factor III
13. Figure Number	14. Indenture Code
15. Interchangeability Code	16. Item Number
17. Line Replacement Unit	18. Logistic Control Number
19. Maintenance Replacement Rate II	20. Maintenance Replacement Rate Mod.
21. Maintenance Task Distribution	22. Next Higher Assembly Indicator
23. Not Repairable This Station	24. Numeric Stockage Objective Indicator
25. Numeric Stockage Objective Quantity	26. Overhaul Quantity
27. Overhaul Replacement Rate	28. Prior Item PLISN
29. Prorated Exhibit Line Item Number	30. Prorated Quantity
31. Provisioning Line Item Sequence Number (PLISN)	32. Provisioning Nomenclature
33. Quantity Procured	34. Quantity Shipped
35. Quantity per Assembly	36. Quantity per Figure
37. Recommended Initial System Stock Buy	38. Recommended Minimum System Stock Level
39. Recommended Tender Load List Quantity	40. Reference Designator
41. Reference Designator Code	42. Remarks
43. Remain In Place Indicator	44. Repair Cycle Time
45. Replaced or Superseding PLISN	46. Replaced/Superseding PLISN Indicator
47. Replacement Task Distribution	48. Serial Number Effective (From and To)
49. Technical Manual Change Number	50. Technical Manual Code
51. Technical Manual Indenture Code	52. Total Item Changes
53. Usable On Code	54. Work Unit Code/Technical Manual Functional Group Code

5.2.7 Part Number Related Data

When a Part Number related field is updated, every occurrence of that Part Number in the database for that PCCN is updated. Thus, if a Part Number is associated with 300 PLISNs,

changing Unit Price in one PLISN updates all associated PLISN occurrences. Part related fields are listed below:

1. Acceptance Code	2. Acquisition Method Code
3. Acquisition Method Suffix Code	4. Alternate Part Numbers
5. Automated Data Processing Equipment Code	6. Basis of Issue
7. Cognizance Symbol	8. Contractor Tech Information Code
9. Demilitarization Code	10. Document Availability Code
11. Hardness Critical Item	12. Item Management Code
13. Item Name	14. Item Name Code
15. Maintenance Action Code	16. Material
17. Material Control Code	18. Maximum Allowable Operating Time
19. National Stock Number	20. National Stock Number Suffix
21. Nuclear Hardness Critical Item	22. Physical Security/Pilferage Code
23. Precious Metal Indicator Code	24. Production Lead Time
25. Program Parts Selection List	26. Provisioning Technical Documentation Selection
27. Quantity Per Unit Pack	28. Reference Number Category Codes (Prime and Alternates)
29. Reference Number Variation Code (Prime and Alternates)	30. Shelf Life Action Code
31. Shelf Life Code	32. Total Quantity Recommended
33. Type of Item Code	34. Unit of Issue
35. Unit of Issue Conversion Factor	36. Unit of Issue Price
37. Unit of Measure	38. Unit of Measure Price

SECTION 6. UTILITIES

Select “**Utilities**” from the menu bar on the Project Management screen to access the ICAPS-PC Utility selections. These utility programs perform a wide range of maintenance functions against data. It is recommended that these utilities be run at the PC, when possible, as a time-saver so that fewer utilities will need to be scheduled for the project on the client/server after upload. Pressing **F1** or using the right mouse help will display the Help for the selected Utility.

6.1 Apply Defaults

If defaults have been set for specified data elements, this utility will apply the defaults to all PLISNs in the selected project. The defaults are only applied to the data elements that do not already have data. Defaults for the SM&R dependant fields (DOP, RSR, and RIP) are only applied if position 5 of the SM&R is “D” or “K”. Refer to section 5.1.1.1.3.1 to set the defaults.

6.2 AdHoc Global Maintenance

This utility is not operable for Marine Corps projects (format code MC). The AdHoc Global Maintenance Utility screen (Figure 6-1) will update multiple records throughout a project based on the criteria entered on the utility screen that is shown below:

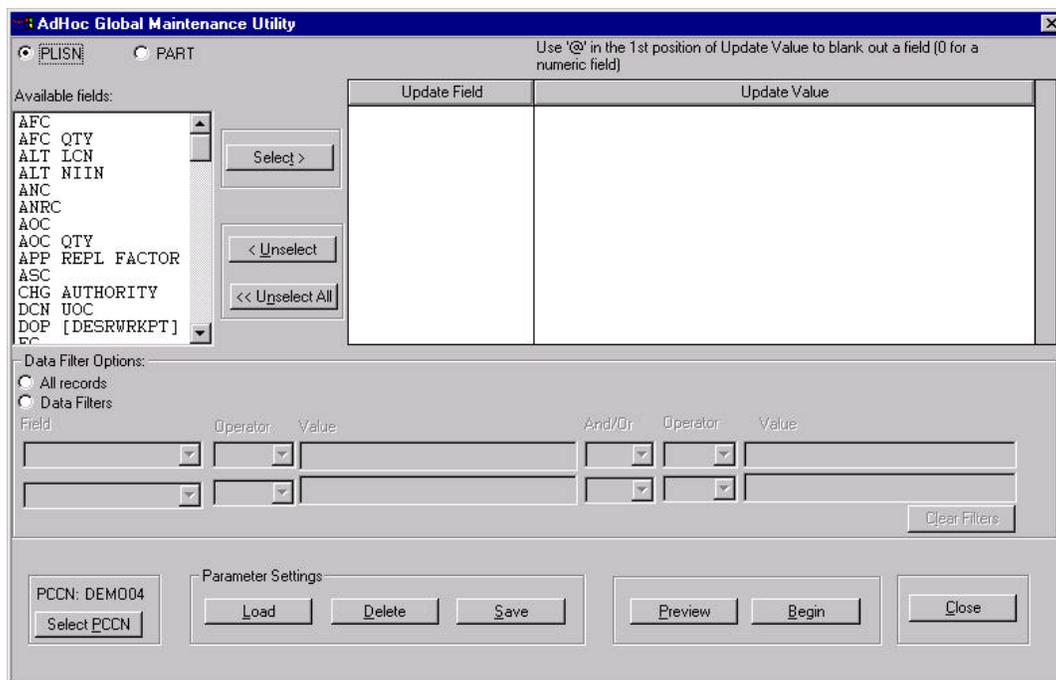


Figure 6-1 AdHoc Global Maintenance Utility Screen

Data element validations and calculations are not performed on the entries that are made in the “Update Value” field. The Batch Validations and/or Recalculate utility can be ran against the project after global maintenance has been performed. The basic steps to globally update data are:

1. **LOAD** a previously saved dataset and go to step 7 **OR**
Select the type of **DATA** to update. There are two options for updating data:

PLISN Data - Update PLISN data only, except PLISN field.

Part Data - Update Part data only excluding CAGE and Part fields.

2. Select the fields to update from the **AVAILABLE FIELDS** box
3. Enter the **UPDATE VALUES** for the selected fields. To remove all data from a field, use the @ symbol or a 0 (zero) for numeric fields.
4. Select “**All records**” or “**Data Filters**”. If the “Data Filters” radio button is selected, the allowable filters for each update are:

PLISN Update - All PLISN data elements including PLISN

Part Data Update - All Part data elements including CAGE and Part Number

5. Click “**Preview**” to display a report of all PLISNs with the Part/CAGE that will be changed. (optional)
6. Select “**Save**” to save the maintenance parameters to a dataset. (optional)
7. Click “**Begin**” to make the updates to the PCCN or Key PCCN that has been selected.
8. Click “**Close**” to return to the Project Management screen.

The fields being updated are updated in the order that they appear in the “Update Field” column on the screen. If a data filter is used for one of the fields being updated, then that field should be the last field in the “Update Field” list. *Example:* The Update Field and Update Value columns have the following: 1) SM&R position 5 to “K” 2) ANC to “N”. A data filter is set for updating only records that SM&R position 5 = “Z”. The ANC will never be updated because the SM&R will be changed to “K” before the ANC has been updated. In order to make the change to both the SM&R and ANC the ANC field should be listed in the “Update Field” box before the SM&R so that it can be updated before the SM&R is changed.

If a dataset has previously been saved, the “Load” button can be used to retrieve a dataset for use. Parameter Settings can be made so that the same updates can easily be made for multiple projects.

- Save - A dataset can be saved that contains the update values, fields, and filters that have been entered on the screen. Saving a dataset can be beneficial if the same updates are going to be made to more than one project.
- Load - A saved filename can be opened that contains a dataset of the update values, fields and filter
- Delete - A filename can be deleted

6.3 Delete PLISNs

Select “**Delete PLISNs**” option from the “Utilities” menu. While in this utility, the on-line computations/calculations are not active. You can use the “Recalculation Utility” to update the calculated fields (QPEI, S/A PLISN and NHA PLISN).

6.3.1 ‘D’ Coded

This utility permanently removes PLISNs from the project with a “D” in position six (6) of the PLISN. This PLISN field is labeled as TOC on Data Screen 1. The steps to delete “D” coded PLISNs are:

1. Select “**D Coded**” from the Utilities/Delete PLISNs menu selection.
2. Enter the **PCCN** or select one from the drop down selection box.
3. Select “**OK**” when the selection criterion is satisfied or “**Cancel**” to return to the Project Management screen.
4. If **OK** is selected, a pop-up screen displays message “**Are You Sure?**”
5. Select “**Yes**” or “**No**”.
 - Yes a) Processes deletions and returns a pop-up screen, “Delete PLISN”, displaying the number of PLISNs deleted.
 - b) Select “**OK**” to return to the “Delete ‘D’ Coded PLISNs” screen.
 - No Returns to “Delete ‘D’ Coded PLISNs” screen to re-try, if desired.

6.3.2 PLISN Range

This utility permanently removes a range of PLISNs from a specified project. For a Marine Corps project this utility will only delete PLISNs in the Range that have a DIC of "L". The steps to delete a PLISN range are as follows:

1. Select “**PLISN Range**” from the Utilities/Delete PLISNs menu selection.
2. Enter the **PCCN** or select one from the drop down selection box.
3. Select “**Select Range**”. A popup screen, “**Delete PLISN Range**” is displayed.
4. Select **START** PLISN for the first PLISN of the range or type a PLISN in the left-hand “Find” box.
5. Select **END** PLISN for the last PLISN of the range or type a PLISN in the right-hand “Find” box.
6. Select “**OK**” when selection criterion is satisfied to return to the “Delete PLISN Range” screen.
7. The PLISN range selected is displayed on the screen.
8. Select “**Begin**” to Delete Range or “**Cancel**” to return to the Project Management Screen.
9. If “Begin” is selected, the pop-up screen, “Delete PLISN Range” displays message “**Are**

You Sure?"

10. Select **"YES"** or **"NO"**.

Yes a) Processes deletions and returns a pop-up screen, displaying the number of records deleted.

b) Select **"OK"** to return to the input screen.

No To return to the "Delete PLISN Range" screen.

6.4 File Splitter

The File Splitter Utility will read a file that has multiple PCCNs. While splitting the PCCNs into separate files, the files can automatically be imported or they can be manually imported at a later time using the Transfer/Import utility. The steps to run the File Splitter are as follows:

1. Select **"File Splitter"** from the Utilities menu.
2. Click on **"Input File"** and select the **FILE** that needs to be split.
3. Select the import type **"Auto Import"** or **"Manual Import"**. The Auto Import is a feature that was added in version 3.2 and will automatically import the PCCNs after the file has been split. The Manual Import will split the files into individual import files and then the Transfer/Import option can be used to import the split files one at a time.
4. Using the drop-down list, choose the **FORMAT** of the file that is to be split. This is needed so that the program will properly split out the files with the correct file extension.
5. Choose **"OK"** to process or **"Cancel"** to return to the Project Management screen without performing the File Splitter routine.

Once the process has been completed, an information screen will be displayed that shows the PCCN name of each file that was created and where it is stored. Files will be stored in the data directory that is defined in the system set-up. If the Auto Import option is performed, a report will be provided to show the status of each project that was split and imported.

6.5 Merge

The Merge Utility can be used to append PLISNs from one project to another and/or alter PLISN data in a baseline project. This utility is helpful in processing Design Change Notices to an existing project. This utility is not functional for Marine Corps projects (format code MC).

While in this utility, the on-line computations/calculations are not active. You can use the "Recalculation Utility" to update the calculated fields (QPEI, S/A PLISN and NHA PLISN). There are various ways to process DCNs. Two of the most common ways is to use the PCCN Duplicate to make a copy of the original project to make changes or use the PCCN Add to create a new project to enter the changes. If there are a lot of changes to make the duplication method

may be more beneficial. If there are only a few changes to make or new PLISNs are being added the data entry method may be easier. The duplicated or new PCCN is referred to as the alteration project and the original PCCN is referred to as the baseline project. Use the TOC field (6th position of the PLISN) in the alteration project to code the PLISN changes in the alteration project that are going to be merged into the baseline project. The change codes are D, G, M, T, Q, and L. An "A" can be used in the fifth position of a PLISN to add a PLISN between sequential numbers. Below is an example of what action is taken when the altered project is merged with the baseline project:

<i>PLISN in the Alteration PCCN</i>	<i>Action in Baseline PCCN</i>
AA01 D	Move D to position 6 of AA01 in baseline PCCN. This codes a PLISN in the baseline as a delete. No other data is merged for PLISN that is "D" Coded.
AA01 G	Any non-blank data field coded with a "@" in its first position in the altered PCCN blanks out that element in the baseline PCCN.
AA01 M	Move the non-blank data fields to AA01 in baseline PCCN.
AA01 T	Same as AA01 M (used to indicate a correction to a typographical error).
AA01 Q	Move Quantity Per Assembly to AA01 in baseline PCCN.
AA01 L	Add entire PLISN AA01 to baseline PCCN.
AA01A	Add entire PLISN AA01A to baseline PCCN. (See Renumber Utility for additional use of "A" in 5 th position of PLISN)
AA01	If the baseline does not have PLISN AA01, it will be added sequentially in the baseline. If the baseline already has PLISN AA01, the baseline is left unchanged for this PLISN.

After PLISNs in the alteration project have been coded, select "**Merge**" from the Utilities Menu to input PLISN changes, deletes, and adds from the alteration project into the original baseline project. After the Merge is ran, the baseline will have all the changes made to it and the alteration project can be kept as a record of the changes that were made to the baseline. PLISN numbers between the alteration and baseline projects will be consistent unless the Renumber utility is ran after PLISNs have been deleted or added. Keeping a backup copy of the original PCCN is suggested in case problems are encountered and the Merge has to be redone. The steps for the Merge Utility are as follows:

1. Select "**Merge**" from the Utilities menu.
2. Enter the **BASELINE PCCN** or select from the drop down selection box.
3. Enter the **ALTERATION PCCN** or select from the drop down selection box.
4. Select the Merge order, "**By PLISN**" or "**By Ref Des**".
5. Select "**Begin**" to process or click "**Cancel**" to return to the Project Management screen.
6. If processing is accurate with no errors, an information box with a message, "**No**

errors found." is displayed.

7. Click "**OK**" to return to the Merge window.
8. If there are errors, an error report will be generated, which can be viewed and/or printed.
9. If there is already an existing error file for this specific PCCN, a popup window displays a message, "**The file (PCCN).mrg already exists - Overwrite it?**"
 - Click "**Yes**" to delete the old error file and create the new error file. A popup window appears with a message, "**An error report, [(PCCN).mrg], has been generated and is located at [drive]:\[ICAPS directory]. Do you want to view it now?**"
 - 1) Click "**Yes**" to display the report on the monitor for view.
 - 2) Click "**No**" to return to the Merge window.
 - Click "**No**" to abort the process.

If the Merge is performed by Reference Designator, the merge program matches on Reference Designator in both the baseline and the alteration PCCN. If the Merge is performed by PLISN, it matches on positions 1-5 of the PLISN in both the baseline and the alteration PCCN, and evaluates position 6 to determine what action to take.

An example on the use of "G" coded PLISNs is: If the "Item Name" data element begins with a "@" for PLISN AA01 G, the "Item Name" in PLISN AA01 of the baseline would be blanked out when the alteration PCCN is merged with the baseline PCCN. **This blank out capability can be used for non-numeric character fields only.** Databases, not card types, are merged in ICAPS-PC. In database screens it is not possible to enter a "@" in a numeric field. This "G" coded PLISN capability should be used carefully.

Note: "M" coded PLISNs should be used to signal changes to a baseline PLISN at a less important level than a Part Number change. Complete Delete and Add PLISN pairs should be used for changes indicating the presence of a new Prime Part Number.

An error listing will be written to disk and available for viewing. The error file will be named [baseline PCCN].MRG. Thus, the error list for merging baseline N9M421 with alteration PCCN DCN001 would be N9M421.MRG. This list will show all non-matches on positions 1-5 of the merge PLISN and indicate that because of this non-match the operation requested in PLISN position 6 was not performed.

PLISNs can be added in the alteration project and merged into the baseline if the PLISN does not exist in the baseline. Duplicate PLISN numbers will not be merged and will be reported on the error listing.

Whole projects can be appended to the end of another project by ensuring that there are not duplicate PLISN numbers prior to merging. If the PLISN numbers are the same in the projects that are to be merged, use the Renumber utility to renumber to the project that is being appended. Set the starting number to a number that is greater than the last PLISN in the baseline project.

6.6 Pack PLISN File

Physically and permanently delete the logically deleted records. This utility does not delete “D” coded PLISNs. The steps to Pack PLISNs are as follows:

1. Select “**Pack PLISN File**” from the Utilities menu.
2. Enter the **PCCN** or select one from the drop down selection box.
3. Select “**OK**” to process. Information box displays message; “**Pack PLISN is completed.**”
4. Select “**OK**” to return to “Pack PLISN File” screen.

6.7 PLISN Range Copy

This utility will copy a range of PLISNs. The PLISNs can be copied to a different PCCN or within the same PCCN. This utility was enhanced in version 3.1 to allow three different criteria options for copying. The steps to copy a range of PLISNs are:

1. Select “**PLISN Range Copy**” from the Utilities Menu.
2. Enter the **PCCN** to “Copy From” or select one from the drop down selection box.
3. Enter the **PCCN** to “Copy To” or select one from the drop down selection box.
4. Select “**Select Range**” for the range of PLISNs to be copied. PLISNs can be typed into the empty boxes or selected from the PLISN selection lists. If typed into empty boxes, the START/END PLISN will be highlighted.
5. Select the **COPY CRITERIA**:

Copy and Append - This option will copy a range and append them to the end of the designated PCCN. The PLISNs that are being appended will be numbered sequentially with the next available PLISN number. The 5th and 6th positions of the PLISNs will be retained from the original PLISNs.

Copy and Retain PLISN Numbers - The option will copy a PLISN range and retain the original PLISN numbers including positions 5 and 6. If any of the PLISN

numbers already exist in the file that is being copied to, then none of the PLISNs will be copied and a message “Duplicate PLISNs, copy of range could not be performed” will be displayed.

Copy and Renumber Insertion Starting with: [PLISN] Increment by: [] - The option will copy the selected range to the designated PCCN and the user provide a starting PLISN number. The PLISN range will be sequentially renumbered starting with the PLISN number the user provided. Positions 5 and 6 of the original PLISN will be retained. If any of the PLISN numbers already exist in the field that is being copied to, then none of the PLISNs will be copied and a message “Duplicate PLISNs, copy of range could not be performed” will be displayed.

6. Select “**Begin**” to initiate the process or “**Cancel**” to return to the Project Management Screen.
7. “**PLISN Range Copy is Completed**” will be displayed when the process has finished.

While in this utility, the on-line computations/calculations are not active. You can use the “Recalculation Utility” to update the calculated fields (QPEI, S/A PLISN and NHA PLISN).

6.8 Project Overview

This utility allows you to do maintenance on your project in a “tabular” mode so that you can have visibility of more than one PLISN at a time. After selecting this option you will be presented with a screen that has two tables. The line that the cursor is positioned on will be highlighted to easily recognize which PLISN is being modified. The color of the highlight indicates if the PLISN is active (blue) or deleted (red). The “active” and “deleted” indicators are also displayed in the right hand corner of the screen.

The first table (on top), is the data that is “PLISN related”. Update data for each PLISN by double clicking on the field. The following buttons at the bottom of the screen can be used for maintenance on the PLISN.

Edit PLISN - A pop-up box will be displayed and you can enter the number you want to change the highlighted PLISN to.

Add PLISN - This feature works the same as the Add PLISN button on the data screens.

Edit Part/CAGE - A pop-up box will be displayed and you can change the Part Number and/or the CAGE for the selected PLISN.

- If the PN/CAGE does not already exist in the project, you will be prompted to carryover part data from the original part number.
- If the PN/CAGE does exist in the project, you will be prompted to carryover the original part data. **BE SURE TO UNDERSTAND THE OPTIONS.** Selecting “yes” will copy the part data from the PN/CAGE you are changing from, to the existing PN/CAGE you are changing to. By selecting “no”, all part data will be retained with its original Part/CAGE .

Delete/Undel - This is a toggle to mark PLISNs for deletion or reactivate PLISNs that have been marked for deletion. The deleted PLISNs are visible on the Project Overview screen and are not physically removed from the database until the “PACK” option is used from the Project Overview screen or the PACK Utility. The color of the PLISN row will change when the PLISN is deleted. For Marine Corps projects, this function is only allowed for PLISNs that have a DIC of "L".

Undel All - This will recall all of the PLISNs that have been marked for deletion as long as the project file has not already been Packed. This does not remove "D" codes from position 6 of the PLISN.

Pack - This feature will physically remove all PLISNs that have been marked for deletion.

Seek - This feature will locate a specific PLISN in the file.

Views - Users can customize the order in which the data elements are displayed on the Project Overview screen. Click the “Views” button to save a view to a dataset name, load a previously saved view, or delete a view that is no longer needed. There is a default view and this dataset cannot be deleted. The last view that is saved will become the default for future sessions. Using a personalized view will cause the Project Overview to load a little slower than the default view, however once the Project Overview is loaded the performance will be normal.

This “PLISN table” is divided into two equal sections, divided by a double “split” bar. Each side of the table can be scrolled separately (horizontal only). The “split” bar can be moved from the left to the right by “grabbing” it with your mouse and moving it to the positions desired. This will allow you to effectively “freeze” columns on either the right or the left. The columns can be moved by clicking on the column heading and dragging the column to a different position. The “Views” button can be used to save a view that has been customized.

You can move from one PLISN record to another by: using the mouse to click on the PLISN you want to select, using the down-arrow key on the keyboard, clicking on the tool button bars at the top of the screen, or using the “Seek” button at the bottom of the screen. If validations are on (indicated by the vals on/off button at the bottom of the screen), you will not be able to move to another PLISN, or close the screen until all validations for that PLISN have passed. Validations can be turned off by clicking on the “Vals” button at the bottom of the screen. Validations are not functional for Marine Corps projects in Project Overview.

The table on the bottom (displayed as one line only), is the part related data for the PLISN that is currently highlighted. You can change any of these fields by double clicking on it. These fields also have validations that can be turned on/off with the “Vals” button. Note that some of these fields such as RNCC, RNVC and DAC have the alternate fields lumped in with the primary. Therefore, the primary will be the first position, and the alternates will be in the next 8 positions. The steps for accessing the Project Overview tabular update are as follows:

1. Select “**Project Overview**” from the Utilities options on the menu bar.
2. Make updates using the available features on the screen.
3. Click the “**X**” in top right hand corner to return to the Project Management screen.

There is no “Save” button on this screen. The data is automatically saved when the cursor is positioned off the field that was changed. If data needs to be reverted back to what it originally was, the **ESC** key can be used as long as the cursor is still positioned in the field. Once the cursor is moved to another field, the data is saved.

While in this utility, the on-line computations/calculations are not active. If you make changes to the QA, QPEI, Ind, Ref Des, S/A PLISN, or the NHA PLISN, you should use the “Recalculation Utility” to ensure your calculated fields (QPEI, S/A PLISN and NHA PLISN) are correct.

6.9 Recalculate

Select “**Recalculate**” from the Utilities Menu to recompute the dependent data for an entire project. As quantity values are adjusted or hierarchical relationships are modified within the project, it may be periodically necessary to recompute dependent data. The values for Quantity Per End Item, Same As PLISN, and Next Higher Assembly PLISN are recomputed throughout the project. The two methods of calculation that can be selected are the simple summation method (most frequently used), or the multiplier method. The Simple Summation is the default calculation when calculations are on during on-line maintenance for standard provisioning. The Multiplier Method is the default on-line calculation method for Marine Corps projects.

Calculations are performed during on-line maintenance screen by screen unless calculations are toggled off. Refer to section 5.1.1.1.4 for instructions on turning calculations on/off during on-line maintenance. Each method of calculation is explained below.

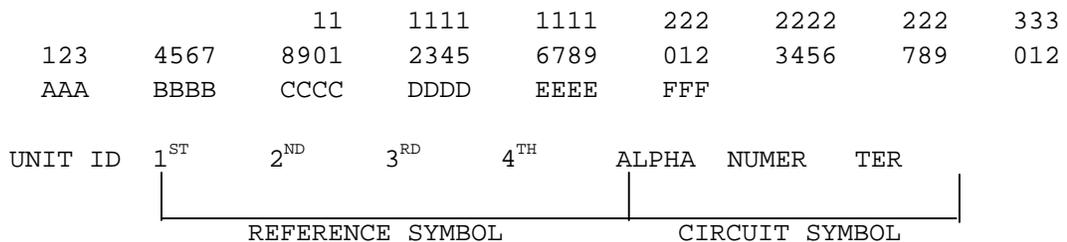
6.9.1 Simple Summation

Select the **“Recalculate”** from the Utilities Menu bar to perform the following functions:

1. Enter the **PCCN** or select the PCCN from the drop down selection box.
2. Select the **“Simple Summation”** recalculation choice
3. Select **“Begin”** to process or select **“Cancel”** to return to the Project Management Screen.
4. **“Simple Calculation Has Been Completed”** is displayed when completed.
5. Select **“OK”** to return to the “Recalculation Utility” screen.

Some additional information for calculations is provided below:

- This utility will sum up the appearances of Quantity Per Assembly for a given Part Number/CAGE. The value of this sum will be shown as the first Qty/End Item value. Subsequent appearances will be “REF” for all occurrences of a given Part Number/CAGE. PLISNs coded “D” or “L” in position 6 will not be included in this sum.
- Same As PLISN will be computed as the PLISN of the part number's first occurrence. PLISNs coded “D” or “L” in position 6 will be ignored.
- ICAPS-PC will first look at Indenture Code to determine Next Higher Assembly PLISN. If an Indenture Code is not present, Reference Designator will be examined to determine NHA. The top-level assembly's NHA will be blank. For an Indenture Coded project, the NHA of a “C” level PLISN will be the last PLISN occurrence at the “B” level, and so on throughout the breakdown.
- NHA for Reference Designator is computed by examining data in the first six subfields:



- Positions 23-32 are not examined. Positions 1-3 constitute the top level of indenture. The first PLISN with data in positions 4-7 becomes the next level down, and so forth up to positions 20-22 (the Alpha Circuit Symbol Number). The following is a sample:

PLISN	Reference Designator								NHA PLISN
			11	1111	1111	222	2222	222	
	123	4567	8901	2345	6789	012	3456	789	
A001	1								----
A002	1	A	1						A001
A003	1	A	1	B	4				A002
A004	1	A	1	B	4	CR1			A003
A005	1	A	1	B	5				A002

- Below is an example of dependent data calculations by Method I:

Sample Method I: Simple Summation (MIL-STD 1388.2A LSA-036 Option 2)

PLISN	INDENTURE	CODE	PART NUMBER	SAPL	NHA	QA	QEI
A001	A		PART A-1	-	-	1	1
A002	B		PART A-2	-	A001	4	8
A003	B		PART A-3	-	A001	3	3
A004	C		PART A-2	A002	A003	2	REF
A005	C		PART L-8	-	A003	5	8
A006	C		PART K-4	-	A003	2	2
A007	D		PART A-2	A002	A006	2	REF

- In addition to this calculation utility, the Merge utility performs automatic recalculation of dependent data, and optional recalculations are included in the input/output programs.
- Although automatic calculations are performed on-line and are offered as an option in batch, it should be noted that the following actions could leave dependent data fields with incorrect values. Recalculate dependent data when one or more of the actions below are taken:
 - Deleting a PLISN range or "D" Coded PLISNs with the batch utility.
 - Renumbering PLISNs can leave NHA incorrect (SAPL is automatically adjusted and QE is unaffected).
 - Resequencing PLISNs by Reference Designator or Part Number will affect QEs.
 - Updating a range of Quantity Per Assemblies or NHAs with the PLISN Range Maintenance utility.

- Turning off on-line calculations with the calculation flag on the Header Screen or the "Calcs" toggle on the data screen File menu.
- Updating with the Reference Designator PLISN Range Maintenance utility can leave NHAs in need of update.
- Updating project with the Ad Hoc Global Maintenance Update
- Range of PLISN Copy will **NOT** automatically update dependent data.
- Accessing the ICAPS-PC dBase files in outside the ICAPS-PC software while changing, adding, or deleting PLISNs, Prime Part Numbers, QEs, SAPLs, NHAs, Indenture Codes, Reference Designators, or QAs mandates batch recalculation (and possible re-indexing) in ICAPS-PC.

6.9.2 Multiplier Method

Select "**Recalculate**" from the Utilities Menu bar to perform the following functions:

1. Enter the **PCCN** or select the PCCN from the drop down selection box.
2. Select the "**Multiplier Method**" recalculation choice.
3. Select "**Begin**" to process or "**Cancel**" to return to the Project Management Screen.
4. When the program has concluded, a message, "**Multiplier Calculation Has Been Completed**" will be displayed.
5. Select "**OK**" to return to the Recalculation Utility screen.

This option offers a second method of recomputing dependent data. Its method of computing Same As PLISN and Next Higher Assembly PLISN are identical to the Simple Summation Method as outlined above.

This Multiplier Method recalculation differs in one important way; **Quantity Per End Item is arrived at by multiplying upwards through the Quantities Per Assembly of Next Higher Assembly PLISNs instead of by simple summation.** This method of QE calculation is used for equipment in which only unique assemblies are broken down. This can reduce project size by the elimination of duplicated identical assemblies, but makes scanning dependent data for accuracy much more difficult. Below is additional information for multiplier method calculations:

- On-line calculations and project output computations are performed by Simple Summation. To use the Multiplier Method, apply this utility after the on-line changes are complete, then create the product file by answering "NO" to the recompute prompt at output time.
- Below is an example of dependent data calculations by the Multiplier Method. This is not an

actual breakdown but is cited here as a representation of the calculation method:

Sample Method II: Multiplier (MIL-STD 1388.2A LSA-036 Option 1)

PLISN	INDENTURE CODE	PART NUMBER	SAPL	NHA	QA	QLI	QEI
A001	A	PART A-1	-	-	1	1	1
A002	B	PART A-2	-	A001	4	4	22
A003	B	PART A-3	-	A001	3	3	3
A004	C	PART A-2	A002	A003	2	6	REF
A005	C	PART L-8	-	A003	5	15	33
A006	C	PART K-4	-	A003	2	6	6
A007	D	PART A-2	A002	A006	2	12	REF

Multiplying the QAs on each indenture level until the highest level is reached generates the Quantity Per Line Item (QLI) values for a Part Number/CAGE. The QLI occurrences are summed and stored in the QE of the Part Number's first occurrence PLISN. All subsequent occurrences will have "REF" for the QE. To do a method II QE calculation for Part Number A-2 above, begin at the last occurrence of the part number in PLISN A007.

- Multiply its QA of 2 by the QA of A007's NHA (A006) of 2 to get 4.
- Multiply this 4 by the QA of A006's NHA (A003) of 3 to get 12.
- Multiply this 12 by the QA of A003's NHA (A001, the "A" level indenture) of 1 to get 12.
- Enter the Quantity Per Line Item of 12 for A007.
- Repeat the above steps for the other occurrences of Part A-2 to arrive at a QLI of 6 for PLISN A004 and a QLI of 4 for PLISN A002.
- Add the QLIs of the 3 occurrences (12 + 6 + 4 = 22) and enter a QE of 22 in the first occurrence PLISN of A002.
- Place "REF" in the follow-on occurrences of A004 and A007.

Note: QLI is not an ICAPS data field. It is used here as a storage field for showing how data is processed within ICAPS-PC.

6.10 Reindex

This utility will rebuild indexes for the Project Files, Header File, the Item Name Code (INC) File, and the Component Identification File. Use this utility if ICAPS-PC has a system abort, unexpected shut-down, or any other unusual closing of the system. Any unexpected closing of the system can cause the project file that was being worked on to become corrupt. Only the PCCN that was being worked on will need to be reindexed. Files can be reindexed at any time without damage to the file. The steps to reindex are as follows:

1. If the Header File is being Reindexed, close the **PROJECT MANAGEMENT** screen.

2. Select "**Reindex**" from the Utilities Menu.
3. Select the file to reindex from the sub-menu.
4. A popup screen, "**PCCN Select – Project Reindex**" is displayed.
5. Enter the **PCCN** or select the PCCN from the drop down selection box.
6. Select "**OK**" to reindex or select "**Cancel**" to return to the Project Management screen.
7. Information screen displays message, "**Reindex Complete Project (PCCN)**".
8. Select "**OK**" to return to the input screen.

If the "Abort" button is clicked on during the Reindex process, the reindexing will be stopped. The reindex process can take a long time if you have large projects. Several data files need to be indexed for each project, such as the PLISN file, PART file, and MATERIAL file. The abort process would allow them to interrupt the index process if they change their mind in the middle and want to do it later. The abort will not stop in the middle of indexing any given data file (such as the PLISN file for that project), instead, it will abort when the current file being indexed is finished but before starting on the next one. If the process is aborted, the user will need to do the reindex again at a later date, because the reindex process will be only partially complete.

6.11 Remove Unused Parts

This utility does not delete PLISNs. Remove Unused Parts will delete Part Number records from the projects Part Number file that are not used in the selected project. It is recommended that you run the PACK Utility prior to removing unused parts. The term "unused" refers to any Part record in the Part database not currently associated with at least one PLISN. The normal update functions do not remove these records because it is presumed that this record data may be required for a later PLISN add or change. The steps for Removing Unused Parts are as follows:

1. A popup screen, "**Remove Unused Parts**" is displayed.
2. Enter the **PCCN** or select the PCCN from the drop down selection box.
3. Select "**OK**" to process or select "**Cancel**" to return to the Project Management screen.
4. Information screen displays message, "**The Unused Parts for (PCCN) has been removed**".
5. Select "**OK**" to return to the Remove Unused Parts screen.

6.12 Renumber

This utility will renumber PLISNs that have been added by using an "A" in the 5th position of the PLISN. PLISNs that are marked for deletion using Project Overview or Delete PLISN, and PLISNs that are "D Coded" with a "D" in the 6th position of the PLISN are not deleted during the Renumber process. However, if the "PACK" and/or "Delete" PLISN utility is performed prior to renumbering, the remaining PLISNs will be sequentially renumbered when the "Renumber" utility

is ran. The PLISN renumber process can be sequenced by PLISN, Reference Designator, or Prime Part Number in increments of 1, 2, 5, or 10. Calculations are on performed when using this utility. You can use the “Recalculation Utility” to update the calculated fields (QPEI, S/A PLISN and NHA PLISN.

To insert a PLISN between two sequentially existing PLISNs follow these steps:

1. Add a **PLISN** with one of the Add PLISN options
2. Enter the **PLISN NUMBER** that the new PLISN is to come after
3. Enter an **A** in the 5th position.

When the Renumber Utility is ran the PLISNs will be renumbered and the new PLISN will be sequentially added after the PLISN number that was added during the Add PLISN process. An example would be:

<u>Original PLISNs</u>	<u>Added PLISNs</u>	<u>Renumber incrementing by 1</u>
A001	A001	A001 (no change)
A002	A002	A002 (no change)
A003	A002A	A003 (new PLISN)
A004	A003	A004 (was A003)
	A003A	A005 (new PLISN)
	A004	A006 (was A004)

To accommodate as many projects as possible, three PLISN renumbering strategies are offered; 1) A001-Z999, 2) AA01-ZZ99, and 3) AAAA-ZZZZ. Renumbering can be performed in increments of 1, 2, 5, or 10. While the renumbering is performed, “I” and “O” will be skipped as the first position of the PLISN since these are not valid values for that position.

1. Select “**Renumber**” from the Utilities Menu.
2. A popup screen, “Renumber Utility” is displayed.
3. Enter a **PCCN** or select from the drop down selection box. The default will be the PCCN that was highlighted on the Project Management screen.
4. Select a **RENUMBER STRATEGY** radio button.
5. Enter a PLISN in the **STARTING PLISN** field. “I” and “O” are not valid for first position of the PLISN and an error message will be displayed.
6. Select an **INCREMENTAL VALUE** (1, 2, 5, 10) from the from down list.
7. Select a radio button for the order to **RESEQUENCE PLISNs BY**
8. Select “**Begin**” to process.

9. A popup screen with a message, "PCCN (PCCN) has been renumbered from (starting PLISN) for number (count) of PLISNs using strategy (from) - (thru)" is displayed.
10. Select "OK".
11. Select "Cancel" to return to the Project Management screen.

6.13 Update

While in this utility, the on-line computations/calculations are not active. If you make changes to the QA, QPEI, Ind, Ref Des, S/A PLISN, or the NHA PLISN, you should use the "Recalculation Utility" to ensure your calculated fields (QPEI, S/A PLISN and NHA PLISN) are correct.

6.13.1 Key PCCN

Select "Key PCCN" from the Utilities/Update Menu selection. This utility is used to mass update part data in multiple projects linked by a common Key PCCN. This function will update part-related data across all PCCNs of a Key PCCN for a specific Part Number/CAGE. The update will be made to 1st and 2nd Key PCCNs. Thus, if the same Part Number exists in 100 different projects, it can be updated for thousands of occurrences in all projects with a single transaction. The steps to update are as follows:

1. Select "Select" on the "Global Key PCCN Update" screen to display a popup screen.
 2. Select a PCCN.
 3. Select a KEY PCCN.
 4. Enter a PART NUMBER for the Part Number/CAGE that the global update is to be acted upon or scroll the selection box and highlight the Part Number/CAGE.
 5. Select "OK" when the selection criteria are completed.
 6. Make the appropriate changes on the maintenance screens (1 thru 4).
 7. Select "Begin" to update the occurrences of the selected Part Number/CAGE throughout every Key PCCN project, associated with the input Key PCCN, found in the ICAPS-PC default directory. Only non-blank fields will be updated. Select "Close" to terminate the global update.
- Use the "@" symbol in position 1 of any character field to blank out data (there is no blank out feature for numeric fields).
 - The SM&R Code can be updated by position. Any of the six positions can be updated or blanked out individually as needed without affecting any other position.
 - This update function can also be used to globally update the Part Number/CAGE itself if required.

- If the on-line validations are turned “on”, all data will be subject to the validation criteria. Use the “VALS On/Off” button to “toggle” the validation routine when needing to bypass a particular field.
- When processing is complete, a listing is displayed showing the updated PCCNs.
- Only the PCCNs that contained the input Part Number/CAGE will be updated. This listing is permanently stored on the hard drive as the Key PCCN Name + KEY. A Global Key PCCN Update listing for Key PCCN DEMO1 will appear in the ICAPS-PC default directory as DEMO1.KEY.

Note: The Key PCCN list box contains both 1st Key PCCNs and 2nd Key PCCNs and they are treated the same.

6.13.2 Reference Designator

Select “**Reference Designator**” from the Utility menu to mass update a range of Reference Designators for a single project transaction.

1. Enter the **PCCN** to update or select one from the drop down box.
2. Enter a **FIRST AND LAST PLISN** to indicate the range of PLISNs to mass update or select PLISNs from the drop down boxes.
3. Enter the **VALUES** for the reference designator positions for mass updating.
4. Select “**Save**” to start the update.

Only non-blank characters will be updated across the range of valid PLISNs indicated. This function can also be used to erase invalid data by using the “@” symbol to designate a position to be blanked out. The following sample is not a valid reference designator but shows how this update is performed:

Example:	Ref Des Before	‘	1A	1A	5A	7	‘			
	You Enter	‘		B	4	@	@	@	@	‘
	Ref Des After	‘	1A	1B	4		‘			

When the program finishes, the message “**Reference Designator Data Updated**” will be displayed.

6.13.3 PLISN Range Maintenance

This option will mass update with a single transaction. The steps for PLISN Range Maintenance are as follows:

1. Select "**PLISN Range Maintenance**" from the Utilities/Update Menu selection.
2. Screen 1 for PLISN Range Maintenance screen is displayed. There are tabs on the top of each of these four screens that reflect "Screen 1", "Screen2", "Screen3", and "Screen4" which can be "Selected" to move to one of the other maintenance screens.
3. Push the "**PLISN**" button.
4. A popup screen for "Select PLISN Range Window" is displayed.
5. Select **START** PLISN for the first PLISN of the range.
6. Select **END** PLISN for the last PLISN of the range.
7. Select "**OK**" when selection criteria are satisfied to return to the "PLISN Range Maintenance" screen.
8. The PLISN range selected is displayed on the screen.
9. If the on-line validations are turned "on", all data will be subject to the validation criteria. Use the "VALS On/Off" button to "toggle" the validation routine when needing to bypass a particular field.
10. Select "**Begin**" to update.
11. A popup screen, "PLISN Range Maintenance Complete" is displayed with a message, "**PLISN range (PLISN) - (PLISN) updated.**"
12. Select "**OK**" to return to the PLISN Range Maintenance screen.

This utility will default to the PCCN that was highlighted on the Project Management screen. If a different PCCN is needed, select the **PCCN** button on the PLISN Range Maintenance screen and perform the following steps:

1. Enter a **DIFFERENT PCCN** or select from the drop down selection box.
2. Select "**OK**" to select the PCCN or "**Cancel**" to return to the PLISN Range Maintenance screen.

6.14 Batch Validation

This option allows customized sets of user selected validations to be applied in batch to generate validation error lists. Choose the data elements necessary to validate a particular PCCN and save them for repeated use to a locally assigned validation set. These customized sets can be created for different provisioning contracts, or sets of data requirements, or utilized for progressive stages of the same PTD development. Validations are necessary to ensure administratively correct data products. This batch function is important to run if maintenance has been done with on-line validations turned off. PLISNs that have a "D", "G", "Q", "M", "T", or "Z" in the 6th position will not be included in the report since these codes are for use in the Merge utility. The steps for this process are as follows:

1. Select "**Batch Validation**" from the "Utilities" options on the menu bar.
2. Select "**Standard Provisioning**" suboption. Refer to Appendix E for Marine Corps Batch Validation instructions.
3. The "Batch Validation Utility" screen appears and the PCCN highlighted on the Project Management screen appears as the "PCCN Selected".
4. If any other PCCN is desired, use the "**Select PCCN**" button and select a PCCN.
5. Select a **STANDARD VALIDATION SET** from the "Validation Set" drop down box
OR
Select a **VALIDATION TYPE** of "PAL" or "CaNDI".
6. Select **P-CODES ONLY** "Yes" or "No".
7. Select "**Begin Validating**" to validate the PCCN.
8. The Batch Validation report will be displayed on the screen. The report can be printed or saved for printing later. The report cannot be saved and viewed with an editor.

If a Validation Set does not exist, one can be created with the following steps:

1. Enter a **UNIQUE NAME** in the Validation Set box.
2. Select "**Add**" from the "Validation Set" options.
3. A popup screen, "Data Set Field Selection" is displayed. Data fields for the validations set can be selected several ways:
 - Select "**Select All**" to turn on the validations for all the fields.
 - Select only the **HEADER, LMI, 1552, 1388.2A, or 1388.2B DATA ELEMENTS** or a combination of these data elements.
 - Select **INDIVIDUAL DATA FIELD** for validating.
 - Deselect **INDIVIDUAL DATA FIELDS** that do not need to be validated or use the appropriate **CLEAR** button to deselect Header, LMI, 1552, 1388.2a, or 1388.2b data elements or a combination of these data elements.
4. Select "**Save**" to save the created validation set.
5. Select "**Cancel**" to return to the "Batch Validation Utility" screen without saving the Validation Set.

Validation Sets can be modified or deleted.

1. Select "**Modify**" to edit the Validation Set.
2. Select "**Delete**" to delete the Validation Set.

6.15 FedLog Screening

The functionality of this utility option was previously an external ICAPS-PC utility and has been developed as a utility option in release 3.3. You must be a FedLog subscriber in order to use this utility. Instructions for FedLog are included here only for the use of processing the ICAPS screening.

The FedLog Screening Utility was developed to provide the capability to screen Reference Numbers and their associated CAGE codes against the Defense Logistics Service Centers Federal Logistics CD-ROM System. This automated process is for the purpose of obtaining a National Stock Number (NSN), and other associated data element information, from the FedLog CD-ROM System for a specific Reference Number/CAGE within your ICAPS-PC Windows data files.

The ICAPS-PC screening utility will create a file containing the Part Number/CAGE for all records in the selected ICAPS-PC project. The file is used to screen against FedLog to retrieve National Stock Number, Alternate Part Number/CAGE, Reference Item Name, RNVC, RNCC, DAC, QUP, UI, PRICE, SLC, PMI and Demil. After FedLog is screened, an output file, [PCCN].flo, will be created with all matching information. The matching information can then be loaded into ICAPS-PC and automatically update all the Part Number/CAGE records.

During the screening, if an NSN has additional PN/CAGEs and associated data (RNCC, RNVC, DAC), they will be written to the output file. The additional PN/CAGEs and associated data are imported into the alternate PN/CAGE fields. The QUP, UI, Price, and SLC may have multiple entries but only the first one is used.

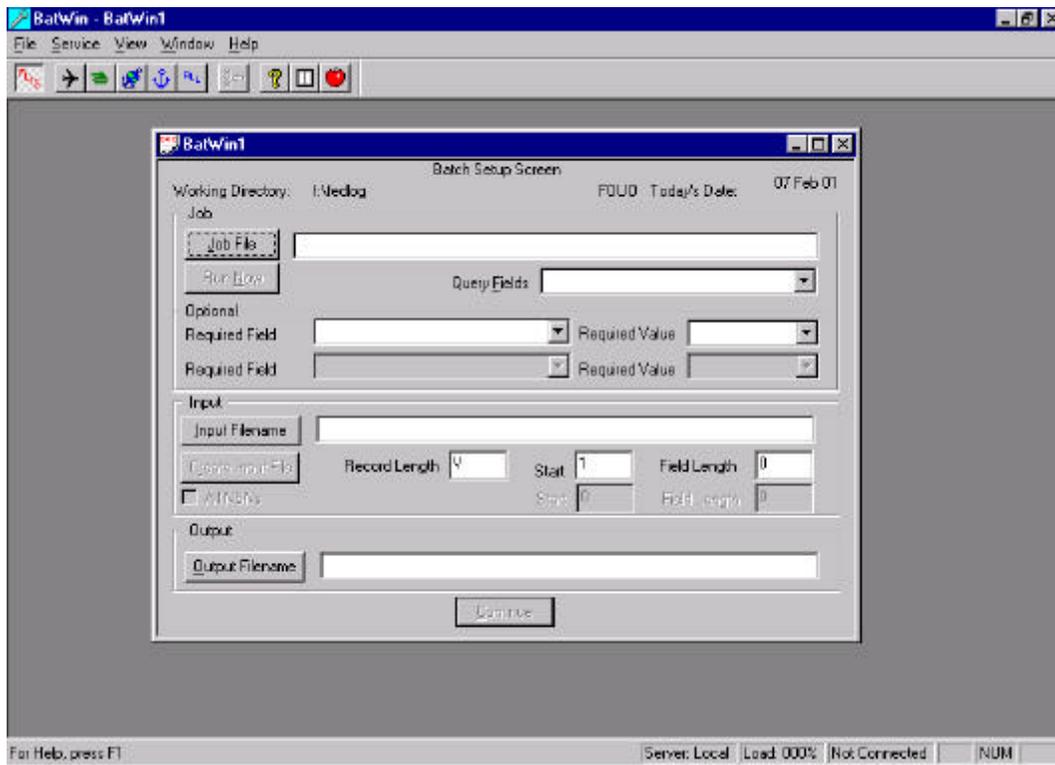
The screen process is accomplished in several steps. The process is explained below.

6.15.1 To create the “fli” file to screen against FedLog:

1. Select “**FedLog Screening Utility**” from the “Utilities” options on the menu bar.
2. A pop-up screen, “FedLog Screening Utility” is displayed.
3. Enter a **PCCN** or select from the drop down selection box. The default will be the PCCN that was highlighted on the Project Management screen.
4. Select the “**Create**” button.
5. Message will be displayed that the [PCCN].fli file has been created.
6. Click “**OK**”

6.15.2 To screen the “fli” against FedLog.

1. Open the FED LOG CD-ROM System by selecting the BATCH ICON (the one with the wrench on it) as this will allow the import of your .FLI file. The FedLog batch screen is displayed below:

**Figure 6-2 FedLog Batch Setup Screen**

2. Click the “Job File” button and select the “ICAPS.FLB” (FedLog Batch) file which should be resident in the ICAPS sub-directory as shown in Figure 6-3.

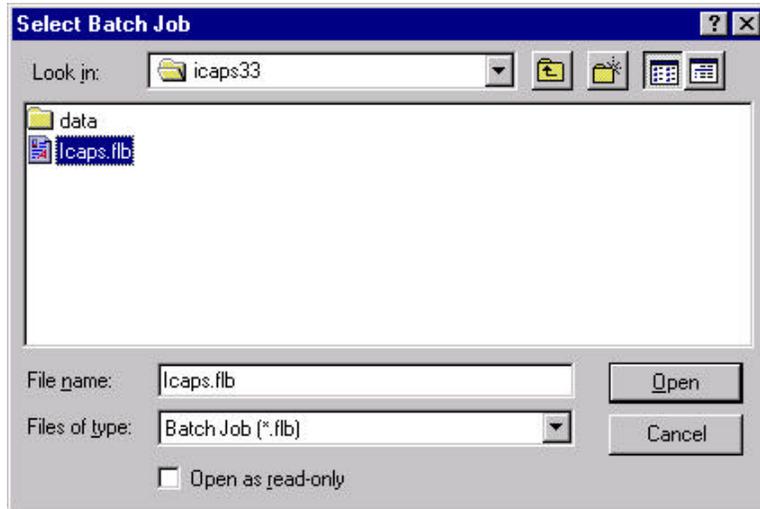


Figure 6-3 Selection of the FLB file

The Batch Setup Screen will be filled in with default values from the .flb file as shown in figure 6-4. **DO NOT CHANGE THE RECORD LENGTH OR THE START FIELD LENGTHS** as they are preset and utilized by the extraction program.

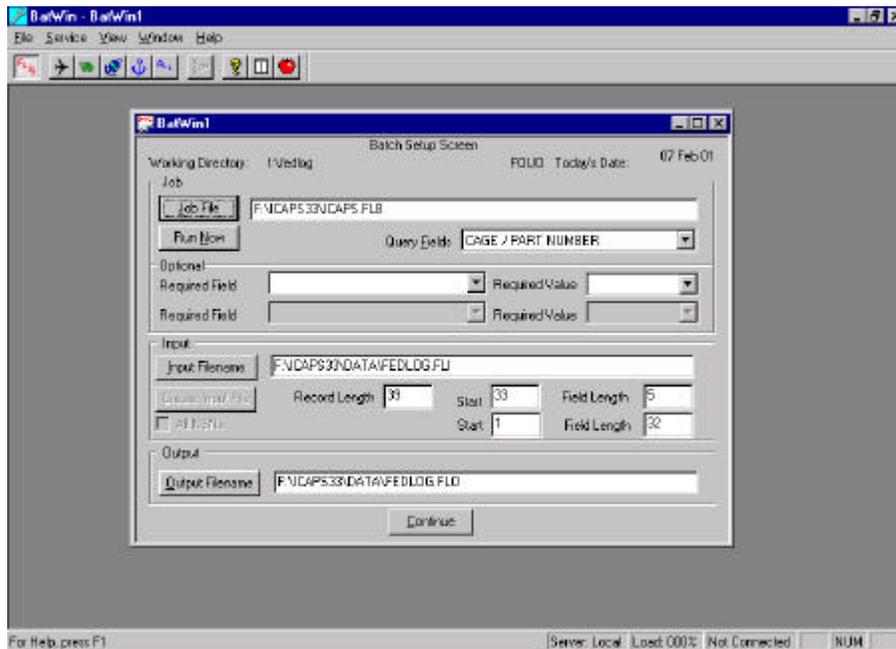


Figure 6-4 FedLog Batch Setup Screen with default data

The input or output filenames can be changed by using the input/output buttons to access the file selection screen (Figure 6-5) or positioning the cursor in the block and insert or overtype the data within each block. Be sure the input/output files have the same 6 digit PCCN.

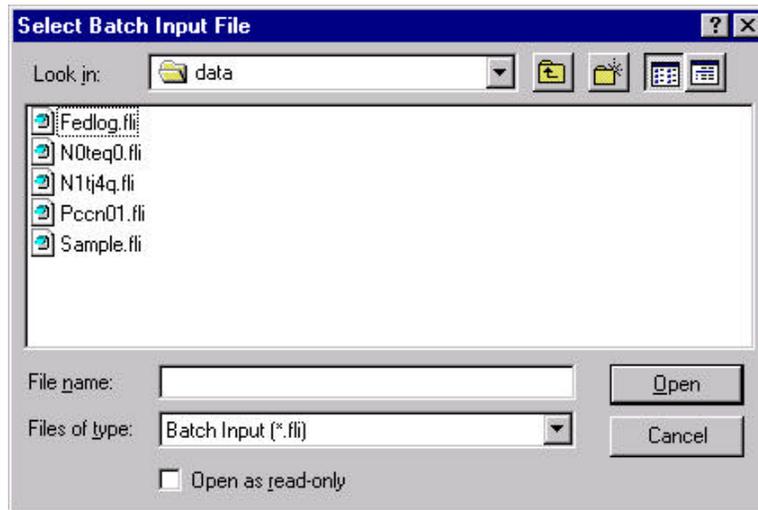


Figure 6-5 File selection screen.

3. Click the “Continue” button which will advance you to the Batch Format Screen (Figure 6-6). Be sure that “Custom Report” is checked, the “Width” is set to “1” and “Suppress Headings” is checked. The “Reference” and “Management” data has already been determined for you which is the data necessary for the ICAPS-PC LOAD program. **DO NOT CHANGE ANY OF THE ‘REFERENCE’ OR ‘MANAGEMENT’ PARAMETERS.**

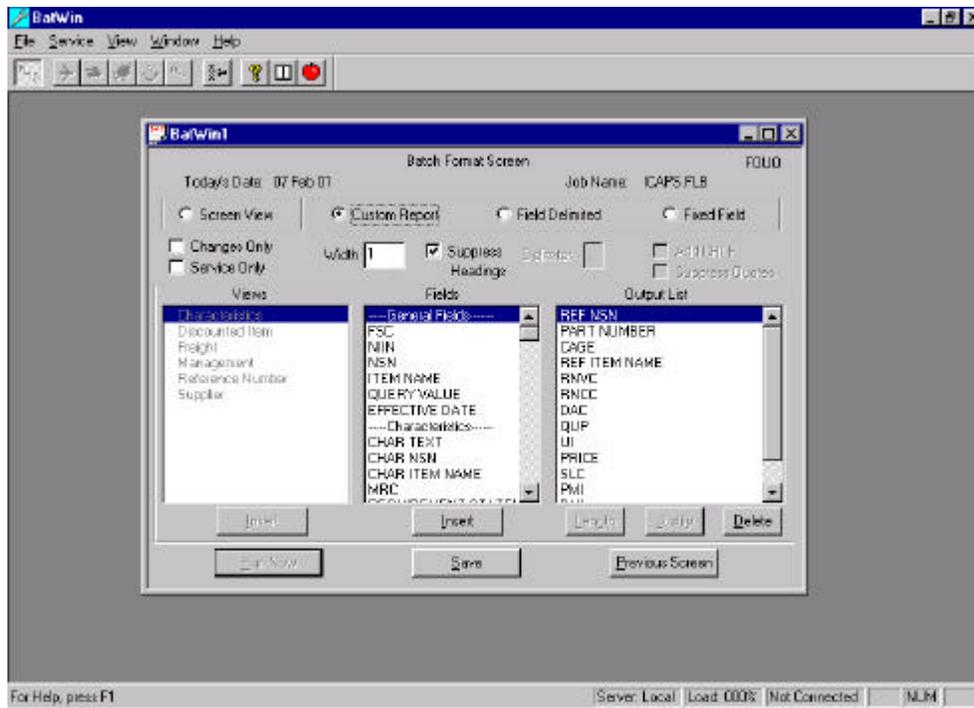


Figure 6-6 Batch Format Screen

4. Click the “Save” button on the Batch Format Screen. A message box will be displayed showing the FLB path. Press the “OK” button which will save the parameters for use in subsequent sessions and return to the Batch Format Screen. The “Run Now” button will be enabled to process the screening.

5. Choose the “Run Now” button to generate the output. An information screen, Figure 6-7, will appear and track the Queries processed and the Matches found. When complete, the output can be browsed to see the format generated or the error list to see Reference Number/CAGE data which did not have a match. Click on the close button to end the process and return to the Batch Format Screen.

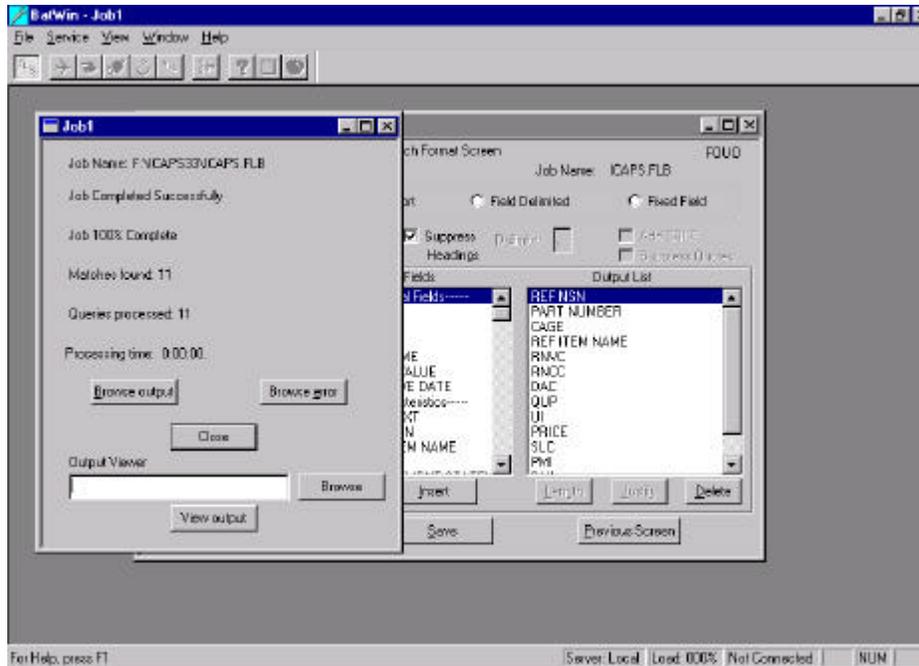


Figure 6-7 Processed Information

This completes the FedLog portion of creating the .flo file that will be input into ICAPS-PC. Below, Figure 6-8, is a sample of what the output will look like if “Browse Output” is clicked:

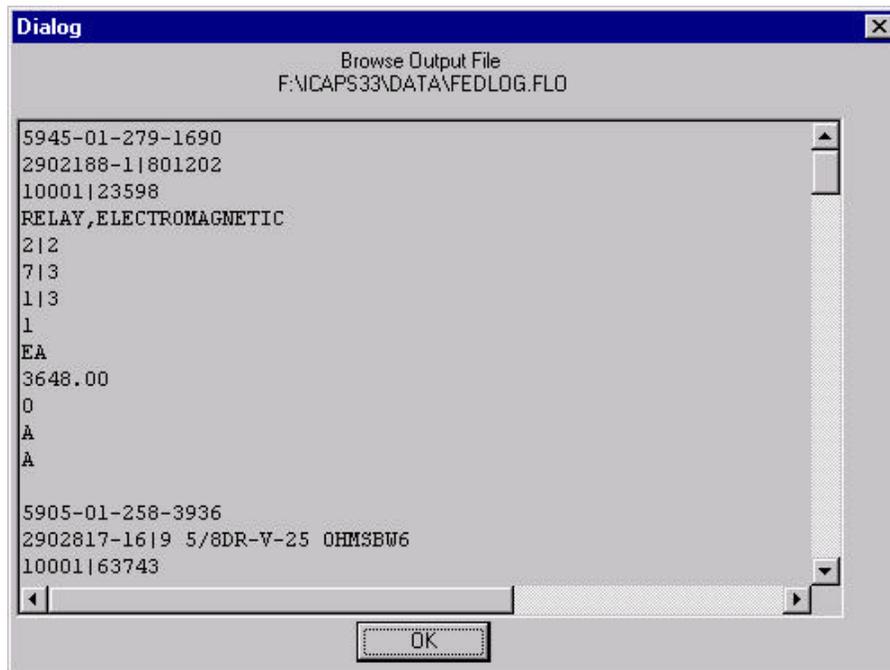


Figure 6-8 Browse Output File

6.15.3 Load Screening Results in ICAPS-PC.

Return to ICAPS-PC and select the Fedlog Screening utility “Load” option. The data in the .flo file will be imported and an Update Complete message displayed, (Figure 6-9):



Figure 6-9 Update Complete message

Select “Yes” to view the sample report. Below is a sample report [PCCN].LOG of the results:

FEDLOG UPLOAD LOG

02/07/2001

PCCN: FEDLOG

ICAPS-PC PARTS UPDATED

<u>PART NUMBER</u>	<u>CAGE</u>	<u>NSN</u>	<u>PLISN</u>
2902188-1	10001	5945-01-279-1690	A002
2902817-16	10001	5905-01-258-3936	A003
2902817-17	10001	5905-01-262-4108	A004
2903520	10001	5340-01-258-3884	A005
2903616-3	10001	5930-01-261-5657	A006
2903616-4	10001	5930-01-258-3969	A007
2903617-2	10001	4720-01-258-3834	A008
2903617-5	10001	4720-01-258-3835	A009
MS21060-L06	96906	5310-00-779-6750	A010

The following part numbers were found with different NSNs:

<u>PART NUMBER</u>	<u>CAGE</u>	<u>NSN</u>
AN9-60	88044	5306-00-151-2962
		5365-00-184-8608

If a Part Number has multiple NSNs shown in the report, this PN will not be updated and the user will need to research and manually enter data.

SECTION 7. REPORTS

The reports can be accessed from the "Reports" menu on the Project Management and data screens. After a report is selected, a criteria screen will be displayed. The report criteria screen is the same for all reports except the Ad Hoc Reports. Section 7.13 explains the Ad Hoc report criteria.

Applicable criteria for a selected report will be highlighted for user data entry. Criteria that is not applicable for the selected report will be shaded out.

The PPL delimiters criteria option is available for the PPL and PPL Index reports. The record selection is based on whether or not the PPL Delimiter has been checked and saved on the PTD Select screen for the record. For example, if a PPL report is requested and a PPL of "CBIL" delimiter (Part or PLISN) is selected, only those records with the "CBIL" field (from the PTD Select) screen will be selected. The PLISN PPL delimiter will report all PLISNs for the PTD select and the PART PPL delimiter will report all PN/CAGEs for the PTD select. Be sure the appropriate one has been indicated on the PTD select screen.

Record selection is based on the criteria specified on the criteria screen. For example, if a Range of PLISNs is specified, only those records that are within the range are selected. In addition to the criteria specified on the criteria screen, the records must have Part related data in the system and the record must not be a deleted record. The additional criteria apply to all of the reports, except the PPL Comparison report. The PPL Comparison report compares all records from one PCCN to all records of another PCCN.

Some of the reports include a Total of the Quantity Per Assembly (QA) values. These totals do not include any QA values from a record with a "D" coded PLISN.

Some of the reports include columns for "Part Number" and "Alt. Part Nbr". All 32 characters of the Part Number and Alt Part Nbr data elements are printed. The first 16 characteristics of the Part Number or Alt Part Nbr appear in the column first, followed by the last 16 characters printed directly underneath the first 16.

Once a report is generated, it is displayed in a print preview screen. If there is not a print driver installed the print preview will not display the report. The following options are available from the toolbar on the print preview screen:

1. Close the **PRINT PREVIEW WINDOW** and return to the **PROJECT MANAGEMENT SCREEN**.

2. **PRINT** the report.
3. **EXPORT** Report
4. Move to the **FIRST PAGE** of the report.
5. Move to the **PREVIOUS PAGE**.
6. Move to the **NEXT PAGE**.
7. Move to the **LAST PAGE**.
8. Move to a **SPECIFIC PAGE**.
9. Zoom in.
10. Zoom out.

When the "Print Report" icon on the toolbar is selected, the report can be saved to a print file. The print file will contain printer control characters and is not viewable with an editor. There may be other print drivers that the report can be saved to for viewing later. One that we have found to work is Adobe Acrobat 3.0 that will format the print file as a PDF. This file can be viewed and printed with the Adobe Acrobat Reader.

There is an icon that looks like a diskette and will bring up a file "Export" box. A routine has been specifically written for the PPL Report. The recommended method is to save the report as a text file and view with NotePad. The other reports can be saved as a text file and viewed with WordPad, however margins and fonts may need to be adjusted.

The reports saved to a rich text format have problems with the development tool generating everything as a text box. There are problems with word wrapping and margins. The spacing stays intact but the sizing of the text box is unpredictable and does not produce a properly formatted report. We have found that the text options partially work but are not 100% successful. As an alternative to saving reports as a text file, a routine has been developed for the AdHoc report that will write a text file. Use the AdHoc report feature to produce reports of data elements that you want saved to a text file. The AdHoc text file report is best viewed with WordPad.

Unless otherwise noted, the steps for all of the reports are:

1. Select **TYPE OF REPORT** from the Reports Menu.
2. Enter a **PCCN** or select from the drop down list.
3. Select "**OK**" to process the report.

7.1 CCAL

Consolidated Component Applications List. For the PCCN specified, all PLISNs will be selected for output, with subtotals printed for all occurrences of a Part Number/CAGE combination.

7.2 CID/CCF

A project must have a CID file to run the Component Identification Data (CID)/Component Characteristics File (CCF) Report.

7.3 First Occurrence List

Selects all PLISNs for the PCCN specified which are first occurrences only. This report can be printed in the PLISN, Part Number, or Reference Designator sequence. The steps for the "First Occurrence List" are as follows:

1. Enter a **PCCN** or select from drop down box.
2. Select a **SEQUENCE** of "**PLISN**", "**Part Number**", or "**Reference Designator**". The default sequence is PLISN.
3. Select a **PLISN RANGE** for the report, if desired. The default range is all PLISNs for the specific PCCN.
4. Select "**OK**" to process the report.

7.4 Items List

The Items List has a drop-down menu for the following selections:

- Consumables - For the PCCN specified, each PLISN with a "B" or "Z" in position 4 or "A" in position 5 of the SM&R code will be printed.
- Depot - For the PCCN specified, each PLISN with a "D" or "K" in position 3 of the SM&R code will be printed.
- Intermediate - For the PCCN specified, all items coded "F", "G" or "H" or "L" in position 3 of the SM&R code will be printed.
- Organizational - For the PCCN specified, each PLISN with an "O" (alpha) or "2-6" in position 3 of the SM&R code will be printed.

7.5 Key PCCN Reports

The Key PCCN report offers the capability of running an integrated CCAL, Items List, 'P' Coded Items List, Partial Part Number Query, or Repairables List outputting all PLISNs across all PCCNs linked by a 1st Key PCCN or 2nd Key PCCN. A drop-down menu with the following selections/criteria is displayed:

CCAL - For the Key PCCN specified, all PLISNs will be printed, with subtotals for all occurrences for a Part Number/CAGE combination.

Items List - The Key PCCN Items List has a drop-down menu for the following selections:

Consumables - For the Key PCCN specified, each PLISN with a "B" or "Z" in position 4, or an "A" in position 5 of the SM&R code will be printed.

Depot Level - For the Key PCCN specified, each PLISN with a “D” or “K” in position 3 of the SM&R code will be printed.

Intermediate Level - For the Key PCCN specified, all items coded “F”, “G”, “H”, or “L” in position 3 of the SM&R code will be printed.

Organizational Level - For the Key PCCN specified, each PLISN with an “O”(alpha) or “2-6” in position 4 of the SM&R code will be printed.

“P” Coded Items List - This report outputs an integrated “P” Coded Items List specifying each PLISN with a “P” in position 1 of the SM&R code.

Partial Part Number Query - Every Part Number/CAGE occurrence which begins with the partial Part Number specified will be printed for all PCCNs linked to the specified Key PCCN. If the “Partial Part Number to search for” field is left empty, all Part Numbers/CAGE will be printed. The steps to run the Key PCCN Partial Part Number Query are:

1. Enter a **KEY PCCN** or select from the drop-down list.
2. Enter a **PARTIAL PART NUMBER** for which to search. If this field is left blank, all Part Number/CAGE combinations will be printed.
3. Select “**OK**” to process the report.

Repairables Lists - A drop-down menu for the following selections is provided:

Depot - For the Key PCCN specified, each PLISN with a “D” or “K” in positions 4 or 5 of the SM&R code will be printed.

Intermediate - For the Key PCCN specified, each PLISN with an “F”, “G”, “H”, or “L” in positions 4 or 5 of the SM&R will be printed.

Organizational - For the Key PCCN specified, each PLISN with an “O”(alpha) or a “2-6” in positions 4 or 5 of the SM&R code will be printed.

7.6 “P” Coded SM&R List

This report checks the 1st position of the SM&R code for a “P”. PLISN records that meet the following criteria are selected for the report. The following selections are available from a drop-down menu:

- All - All PLISNs for the specified PCCN, with a “P” in position 1 of the SM&R code, will be printed.
- Without NSNs - For the specified PCCN, all PLISNs with a “P” in position 1 of the SM&R code and a blank NSN will be printed.

7.7 Partial Part Number Query

For the PCCN specified, every Part Number/CAGE occurrence that begins with the partial Part Number specified PCCN will be printed. The steps for the “Partial Part Number Query” report are as follows:

1. Enter a **PCCN** or select from the drop-down list.
2. Enter a **PARTIAL PART NUMBER** for which to search. If this field is left blank, all Part Number/CAGE combinations will be printed.
3. Select “**OK**” to process the report.

7.8 PPL

Sequenced by PLISN, Part Number, or Reference Designator. The steps for the “PPL” report are as follows:

1. Enter **PCCN** or select from the drop-down box.
2. Select a **PLISN RANGE**, if desired. The default is ALL.
3. Select one of the **PPL DELIMITERS**. None is the default.
4. Select the Part or PLISN radio button if a PPL delimiter was selected.
5. Select **SEQUENCE** for the report. Default is PLISN.
6. Select **TEMPLATE**, “Yes” or “No”. The default is YES.
7. Enter **REMARKS** (optional). The remarks will print on the report.
8. Select “**OK**” to process the report.

7.9 PPL Comparison Report

A PLISN by PLISN comparison of Part Number/CAGE combinations is performed for the two specified PCCNs. The report lists the PLISNs that are duplicated in both PCCNs or the PLISNs that are Dissimilar in both PCCNs, based on which comparison type is chosen. The steps for the “PPL Comparison” report are as follows:

1. Enter **PCCN1** or select from the drop-down box.
2. Enter **PCCN2** or select from the drop-down box.
3. Select the **COMPARISON TYPE**, “Dissimilar Part Numbers” or “Duplicate Part Numbers”.
4. Select “**OK**” to process the report.

7.10 PPL Index Report

Required PLISNs and related data will be printed. The output format is dependent upon the

format of the PCCN. For 1388.2A projects, the Part Number appears first, followed by CAGE. For 1388.2B projects, the CAGE appears first, followed by the Part Number. The steps for the "PPL Index" report are as follows:

1. Enter **PCCN** or select from the drop-down box.
2. Select a PPL delimiter. None is the default.
3. Select the Part or PLISN radio button if a PPL delimiter was selected.
4. Select sequence.
5. Select "**OK**" to process the report.

7.11 Repairables List

A drop-down menu for the following selections is provided:

- Depot - For the PCCN specified, each PLISN with a "D" or "K" in positions 4 or 5 of the SM&R will be printed.
- Intermediate - For the PCCN specified, each PLISN with an "F", "G", "H", or "L" in the positions 4 or 5 of the SM&R code will be printed.
- Organizational - For the PCCN specified, each PLISN with an "O" (alpha) or "2-6" in positions 4 or 5 of the SM&R code will be printed.

7.12 Single Line Report

The Single Line Report has a drop-down menu for the following selections:

- Indenture Coded Projects - Select all PLISNs and key data elements. The Single Line Report for Indenture Coded Projects is printed in PLISN sequence only.
- Ref Des Projects - Selects all PLISNs and key data elements. The Single Line Report for RefDes Projects can be printed in PLISN or Reference Designation sequence.

7.13 Ad Hoc Reports

The Ad Hoc Report function enables you to design a unique, personalized report to meet your specific provisioning requirements. Reports can be processed from the Ad Hoc Report Generator screen by creating new criteria or by loading a previously created report criteria. By loading previously created report criteria, the same report format can be generated for any number of projects. Once the report is generated it will be displayed in a Print Preview screen. Use of the Print Preview screen is described in Section 7, Reports.

7.13.1 Create New Ad Hoc Report

Follow the steps below to create a new report:

1. Select **PCCN / KEY PCCN** (optional)

2. Enter **TITLE INFORMATION** (optional)
3. Select **FIELDS** (required)
4. Select **SORT SEQUENCE** (optional)
5. Select **DATA FILTERS** (optional)
6. Select “**Save**” to save the criteria for later use (optional). Enter a **REPORT NAME** that is no more than eight characters in length and as descriptive as possible.
7. Select “**Begin**” to generate the report.

Each of the steps for creating a new report will produce a pop-up screen to provide the needed information. Each of the steps above and the pop-up screens are explained below:

7.13.1.1 Select PCCN/Key PCCN

The default PCCN is the currently selected PCCN, which is displayed to the right of this option on the screen. However, a different PCCN or a Key PCCN can be selected by:

1. Select “**1. Select Key PCCN/PCCN**” button.
2. Select either **1st KEY PCCN**, **2nd KEY PCCN** or **PCCN** radio button.
3. Select **KEY PCCN** or **PCCN** from the appropriate list box. If **1st Key PCCN** is selected, then the Key PCCN list box will only contain the **1st Key PCCNs**. If **2nd Key PCCN** is selected, then the Key PCCN list box will only contain the **2nd Key PCCNs**. If **PCCN** is selected, the Key PCCN list box is grayed out and the PCCN list box contains all available PCCNs loaded.

Note: When a Key PCCN is selected, all PCCNs designated with that Key PCCN will be used for reporting purposes.

4. Select “**Save**” to save the selection.
5. Select “**Close**” to return to the Ad Hoc Report Generator screen.

7.13.1.2 Enter Title Information

This option provides four 40 character lines for Title information that will appear centered at the top of the report. The “Date” and “Page Nbr.” checkboxes indicate whether or not a date and page number should be printed on the first line of the report to the left and right, respectively. The checkboxes default to being marked which means that the date will be printed on the left side of each page of the report and the page will be printed on the right side of each page of the report. If no date or page number is desired simply click on the **CHECKBOX** to remove the ‘x’. After the requested information is entered, click **OK** to return to the previous screen.

7.13.1.3 Select Fields

The Select Fields option is used to select each field that is to be displayed on the report. The report will consist of one column per field that is selected. There will be two spaces between each column. The maximum report width is 132 characters. On the Select Fields screen, the "Available Fields" box is a list of the field names that are available to print. The number within parenthesis is the length of the field plus 2 blank spaces. As each field is selected a total report length appears on the screen. Follow the steps to select a field:

1. Click on a **FIELD NAME** in the "Available fields" list.
2. Click on "**Select**" to move the name over to the "Selected Fields" list.

The fields can be selected one at a time or more than one at a time. The names can be moved from the "Selected Fields" list back to the "Available fields" list in the same way. The fields are arranged on the report in the same order that they are selected. For example, if you selected PLISN, Part Number, CAGE, and SM&R then the report columns would be:

PLISN Part Number CAGE SM&R

Note: The PCCN is listed as an available field, however, any time PCCN is selected an additional field should be included for reporting purposes.

7.13.1.4 Select Sort Sequence

The Select Sort Sequence step allows the data to be sorted prior to being printed on the report. Three sort keys can be selected, Primary, Secondary, and Tertiary (i.e. first, second, and third). To select a sort field, click on the **FIELD NAME** to highlight it and click **SELECT**.

7.13.1.5 Select Data Filters

Data Filters are used in the selection of the data to be printed on the report. The "%" value can be used for a wildcard value and the "_" can be used as a character placeholder when using the "Like" operator. The wildcard and placeholder are not applicable to numeric data fields. The scenarios are included to give examples of how the data filters are used.

- a. To see all Part Numbers that end in "-rev" the data filter would be as follows:

<u>Field</u>	<u>Is/Is Not</u>	<u>Operator</u>	<u>Value</u>	<u>And/Or</u>
Part Number	Is	=	%-rev	

- b. To see data regarding PLISNs that were in a given range, such as “A010” to “A099”, the data filters would be as follows:

Field	Is/Is Not	Operator	Value	And/Or
PLISN	Is	>=	A010	And
PLISN	Is	<=	A099	

- c. To see data regarding Part Numbers with a SM&R position 1 of “P” or position 5 equal to “D” and “K”, the data filters could be as follows:

Field	Is/Is Not	Operator	Value	And/Or
SMR pos 1	Is	=	P	or
SMR pos 5	Is	=	D	and
SMR Pos 5	Is	=	K	

- d. To see data with SM& postion 1 equal to P and position 5 equal to D or K, the data filters could be as follows:

Field	Is/Is Not	Operator	Value	And/Or
SMR	Is	Like	P__D_	or
SMR	Is	Like	P__K_	

- e. To see ALL PLISNs except the ones with a PLT of “X” the data filters would be:

Field	Is/Is Not	Operator	Value	And/Or
PLT	Is Not	=	X	

- f. To see all records with a blank INC, a blank Item Name, or a blank Reference Designator the data filters would be:

Field	Is/Is Not	Operator	Value	And/Or
INC	Is	=		
Item Name	Is	=		
Reference Designator	Is	=		

7.13.2 Load A Saved Report Criteria

The “Load Adhoc Report” screen displays a list of the report names and the first title line. Follow the steps below if you have a saved report criteria to generate a report from:

1. Select "**Load**". The "Load Ad Hoc Report" pop-up screen will be displayed.
2. Click on the **REPORT NAME** desired.
3. Click "**OK**" to return to the Ad Hoc Report Generator screen.
4. Select "**Begin**" to generate the report.

7.13.3 Delete A Saved Report Criteria

A saved report criteria can be deleted by performing the following steps from the Ad Hoc Report Generator screen:

1. Select the "**Delete**" option to display a list of saved report names.
2. Select the **NAME OF THE REPORT** to be deleted.
3. Click "**OK**".

SECTION 8. DATA TRANSFER

The data transfer option allows the user to import files into ICAPS-PC or to create files to export from ICAPS-PC. The “Import Data File” and the “Export Data File” option can be accessed from the “Transfer” option on the menu bar.

ICAPS was designed to avoid redundant data entry and to reduce data passing among various contractor and government computers in the provisioning pipeline. Various provisioning formats can be processed: MIL-STD 1552A, LSA-036 format of MIL-STD 1388.2A/2B, LMI, and ICAPS-PC/Client-Server interface format. Version 2.0 of ICAPS-PC has incorporated a Marine Corps file format that is explained in Appendix E.

Projects can be initiated in ICAPS-PC by one of following methods:

- 1) Loading a header to begin building a project from scratch.
- 2) Downloading an existing project from ICAPS Client/Server.
- 3) Batch loading a provisioning file from a contractor or other non-ICAPS source. When the finished project is uploaded to the client/server, it is available for concurrent inquiry access by the ISEA, certain contractors, and by ICP supply support personnel.

8.1 Import Data File

Import a data file into ICAPS-PC. This process is accessed from the “Transfer” menu item. The steps for “Import Data File” are as follows:

1. Select the “**Transfer**” menu item, then “**Standard Provisioning**” from the Suboption menu.
2. The ICAPS-PC File Import screen will be displayed. Perform the following:
 - If necessary, select the **NETWORK** button to map a network drive. If you need assistance with this, see your LAN Administrator.
 - Click the **DOWN-ARROW** on the “Look In” combo-box, and choose the **DRIVE/DIRECTORY** that the file will be imported from.
 - Click the **DOWN-ARROW** on the “Files of type” combo-box, and click on the **FILE TYPE** to import. This works like a filter and will present all files at the drive/folder location with the respective extension name (i.e. “.txt” for 1552A, “.036” for 1388.2A, etc.) for the type file selected.
 - Click on the **FILE** to be imported. Multiple files can be selected by holding the **CTRL KEY** down and clicking on the **FILE NAMES**.

3. Select the “**OK**” button to begin the import process.
4. Respond to the question for calculations to be **ON** or **OFF**. This overrides any value in the 2nd Header card of the input file.
5. A status bar will be shown during the process and the process can be canceled if needed.
6. Upon the successful file import, a “Process Completed” dialog will be displayed. If a single PCCN was imported, information will be displayed on the screen. If multiple PCCNs were import, an option to view a summary report is displayed.

Note: If errors are detected during the file import, error messages are provided to indicate the type of problem(s) encountered.

8.2 Export Data File

This option will create an export file from ICAPS-PC. If the export file is going to be uploaded to client/server, sign on to the client/server system and follow the upload procedures. If the file is being transferred to another user or some other system, then the user will have to determine the method they need to use to transfer the file. The steps for creating the export file are as follows:

1. At the Project Management screen, position the **BROWSER** to the row (or **HIGHLIGHT** the row) of the desired PCCN to export.
2. Select the “**Transfer**” menu item.
3. Select “**PCS**” or a “**Standard Provisioning Format**”. The format you select will generate a file name extension for the export file.
4. If “Standard Provisioning” is selected the ICAPS-PC File Export screen is displayed. The file name and extension is shown in the “File name” box. To process the file, perform the following:
 - If necessary, select the **NETWORK** button to map to a network drive. If you need assistance, see your LAN Administrator.
 - In the “Save In” field, choose the **DRIVE** and **DIRECTORY** that the file will be exported to. The default will be the ICAPS-PC Data Directory.
 - The “Save as Type” box is defaulted to the type that was selected on the export menu options and cannot be changed.
 - Select the “**Save**” button to begin the export process.
 - A status bar will be shown during the process and the process can be canceled if needed.
 - Upon the successful file import, a “Process Completed” dialog will be displayed and information will be displayed on the screen.

Note: The Export process does not prompt for re-calculations. If this is desired, the batch utility for Recalculations should be run before exporting the file.

5. If “PCS” is selected, the Multiple PCCN Selection screen is displayed. Perform the following:

- Select the **PCCN(s)** to be exported in PCS format.
- Click “**OK**” and the ICAPS-PC File Export screen is displayed.
- The default file name for export will be “multifile.pcs”. Typing a new name in the “File Name” field can change the name.
- In the “Save In” field, choose the **DRIVE** and **DIRECTORY** that the file will be exported to. The default will be the ICAPS-PC Data Directory.
- Click on the “**Save**” button to begin the export process.
- A status bar will be shown during the process and the process can be canceled if needed.
- Upon the successful file export, a “Process Completed” dialog will be displayed with an option to view a summary report.

Note: If errors are detected during the file import, error messages are provided to indicate the type of problem(s) encountered

APPENDIX A. ICAPS-PC Windows Installation for Marine Corps

The Marine Corps Logistics Base, Albany, GA, has standard operating procedures for the use of ICAPS-PC. The site will need to download “setup33.exe” to the server and install in the application directory to overlay the existing version. No other steps are needed for installing 3.3 at the Albany site.

Version 3.3 has been released to Marine Corps only. Marine Corps users not located at Marine Corps Logistics Base, Albany, GA, can contact Marine Corps Logistics Base for obtaining this software. The following installation instructions apply to users who will not be accessing the application from the Marine Corps server environment.

ICAPS-PC Windows can be installed on individual machines or a server. However, for optimum performance of the application it is recommended that the application be installed on individual personal computers. There are different installation instructions for the various installation options. If you are installing ICAPS-PC Windows on a LAN, go to the section below titled “Local Area Network (LAN) Guidelines for Installation of ICAPS-PC Windows”. Be sure to follow the instructions for the configuration you are setting up.

Version 3.3 is a complete installation, however there is not a data conversion if you are currently using 2.0 or later. If you are using a version prior to 2.0 you will need to do a data conversion of your data files after 3.3 is installed.

ICAPS-PC Windows 3.3 Installation

The most current full installation is version 3.3. If you are already using version 2.0 or later, all you need to do is obtain the file “setup33.exe” and install in the same directory you are running ICAPS-PC from. If ICAPS-PC is being upgraded from version 1.x, a data conversion will have to be performed as part of the installation. Carefully follow the steps below:

1. Obtain the file “setup33.exe” and execute the program. The default directory that will be created during the installation is ICAPSWIN32. You should have an understanding of file management and downloading programs.
2. The setup routine will install ICAPS-PC Windows in a directory named **ICAPSWIN32**. It is recommended that you do not change the default name.

3. Answer “**Yes**” if you are prompted to overwrite any existing files in the ICAPSWIN32 directory. Answer “**No**” if you are prompted to overwrite any other existing files that are not in the ICAPS directory.
4. When the installation has been completed, you will need to follow steps in one of the following options to complete the ICAPS-PC Windows set-up:
 - If this is the first time installing ICAPS-PC or, you were previously using 2.0 or later, your set-up is completed and you do not need to do anything further for installing 3.1.
 - If you have data files that you are working with in version 1.x, these files have to be converted to the new file structure. Follow the steps in the “**Converting 1.x Data Files to 3.3**”.
 - If you have been using ICAPS-PC DOS 4.2b1 you will need to import data files by following the steps in the “**From ICAPS-PC DOS to ICAPS-PC WINDOWS**” section.
 - If you are installing ICAPS-PC Windows for the first time, and do not have existing data files, the default data directory will be [drive]:\ICAPSWIN32\DATA. It is recommended that you keep this as your ICAPS-PC file directories and your installation will be completed. However, if you plan to create your own subdirectories for your project data files, create the directories and then follow the step in the “**Data Directory System Setup**” section.

Converting 1.x Data Files to 3.3 - PLEASE READ AND FOLLOW CAREFULLY

If you have already been using version 2.0 or later, your project files are already in the correct format and you do not need to do anything in this section.

There are two different data conversion utilities. If you have been using 1.x and have separate directories for your data files, use the CONVRT20.EXE instructions. If your data files are in ICAPSWIN, use the DATASET.EXE instructions.

- **CONVRT20.EXE Instructions**

During the installation of ICAPS-PC the CONVRT20.EXE file will be installed in the ICAPSWIN32 directory. Copy CONVRT20.EXE to each data directory that you have and execute the program within each directory. This will convert each project that is in the directory.

The conversion program works off the HDR.DBF file. If you have projects in the data directory that are not in your HDR.DBF file, then they won't be converted. The conversion will add the ARF data element to the end of your 'A' file data structure. You will see a listing on the screen of which projects are converted.

The conversion will **not** work on DOS 4.2b1 file structures. They still have to be exported and imported using the .036 data transfer utility. You will get an error message if attempting to convert a DOS 4.x data directory.

For the ease of file management, the conversion needs to be done for each data directory all at once. For example, if you convert a data directory and then copy existing 1.x data files from another directory to the one you just converted, you will get a message on the PCCNs that have already been converted if you try to convert the data directory a second time. Convert all files before copying them to other directories.

Another option to convert the 1.x files is to export them as .PCS files and then import the .PCS file with 3.3.

After the projects in the data directories have been converted to the new file structures, follow the steps below in the “**Data Directory System Setup**” section.

- **DATASET.EXE Instructions**

The purpose of this utility is to segregate the data files from the ICAPSWIN directory and convert them to the 3.3 data structures. ICAPSWIN was the 1.x program directory and many users have used this as their data directory. This utility is recommended for the users to run after installing 3.3 if they have their data in the ICAPSWIN directory.

The DATASET.EXE file will be installed in the ICAPSWIN32 directory file and can be ran from where it is installed.

- Using Windows Explorer, go to the **ICAPSWIN32** directory.
- Run **DATASET** program.
- Enter the **DRIVE** where the ICAPSWIN directory is located.

DATASET will then copy all the data files and indexes from ICAPSWIN to ICAPSWIN32\DATA and convert the file structures to the 3.0 format. TDRID.dbf will be

modified to have ICAPSWIN32\DATA as the data directory and the installation is completed. You do not need to do the steps in the Data Directory System Setup section.

The ICAPSWIN directory and all its contents can be deleted.

Data Directory System Setup

Once the installation of ICAPS-PC Windows 3.3 has been completed, click on the **ICAPS ICON** to execute the application. When the ICAPS-PC Project Management screen is displayed, follow the steps below to do a system setup:

1. Close the **PROJECT MANAGEMENT SCREEN** (the 'x' in the right hand corner). Be sure you do not close ICAPS, only close the Project Management Screen.
2. Click on "**File**".
3. Click on "**System Setup**".
4. Enter the **DRIVE AND DIRECTORY LOCATION** of your data files. If you keep separate directories for each project, you will have to change this each time you want to access a different directory. The data drive and directory can be a stand alone PC or a shared data server.
5. "**Save**" the system setup and "**Close**" the screen.
6. Click on "**File**".
7. Click on "**Open Project**" and this will return you to the Project Management screen to begin working ICAPS-PC Windows.

From ICAPS-PC DOS to ICAPS-PC WINDOWS

The migration of data (or projects) from ICAPS-PC DOS (version 4.2b1) to ICAPS-PC WINDOWS is accomplished by utilizing the Data Transfer program(s) from the DOS application to generate an LSA-036 ASCII Text File, and the Import program from the ICAPS-PC WINDOWS application to load the file. All current MIL-STD formats (i.e. 1552A, 1388.2A/2B) are forward compatible to ICAPS-PC WINDOWS.

Note: The only exception to the forward compatible files to ICAPS-PC WINDOWS is the LSA-061. File Import/Export for the LSA-061 is not available for the WINDOWS

version. The steps for migrating a project from ICAPS-PC DOS to ICAPS-PC WINDOWS are as follows:

1. Assuming ICAPS-PC DOS is up and running, from the Main Menu, select **OPTION 7**, “Data Transfer Programs”.
2. From the Data Transfer Programs Menu, select the desired **OUTPUT** menu item (i.e. A, B, C, E, or F). Remember, LSA-061 (menu item D) is not available for the WINDOWS version.
3. Enter the **DRIVE**, and **DIRECTORY** that you want to output the file to. This is optional. The default will be your current setting in your session parameters. Enter the **PCCN** that you want to output, and the **ISEA**. These two fields are mandatory.
4. Upon successful completion, you are now ready to import this file into ICAPS-PC WINDOWS. Repeat steps 1-3 for each project you wish to migrate to ICAPS-PC WINDOWS.
5. You can exit ICAPS-PC DOS when you have completed the file transfer routine(s).
6. Assuming ICAPS-PC WINDOWS is up and running, from the Project Management Screen (or if all screens are closed), select the **TRANSFER MENU ITEM**, then import **DATA FILE** from the drop-down menu.
7. You are presented with the ICAPS-PC File Import dialog. From this screen, you will select the **TYPE FILE** (i.e. 1552A, 1388.2A, etc.), the **NAME OF THE FILE**, and the **LOCATION** where you are importing it from.
 - If necessary, select the **NETWORK** button to map to a network drive. If you need assistance with this, see your LAN Administrator.
 - Click the **DOWN-ARROW** on the “Drives” combo-box, and choose the desired drive that the file will be imported from.
 - From within the “Folders” list-box, choose the desired **FOLDER** by double clicking on the folder name. This is the location where the import file resides.
 - Click the **DOWN-ARROW** on the “List files of type” combo-box, and choose the desired **FILE TYPE** for import by clicking on the **FILE TYPE**. Select the desired **FILE** by clicking on the file name from within the list-box. An alternate option would be to simply type in the **FULL NAME** at the “File Name” edit line.
8. Select the “**OK**” button to begin the import process.
9. During the import process, you will be presented dialog prompts that are the same as or similar to those found in the ICAPS-DOS version. You should respond to them accordingly.
10. Upon a successful file import, a “Process Completed” dialog will be displayed showing the first and last PLISN.

Note: If errors are detected during the file import, error messages are provided to indicate type of problem encountered.

Important Note: The file structures for the Windows version has changed. The above procedures are the only way to migrate your ICAPS-PC DOS projects to ICAPS-PC Windows. DO NOT try to copy .DBF files from DOS to Windows.

Local Area Network (LAN) Guidelines For Installation of ICAPS-PC WINDOWS

These guidelines provide information to Local Area Network (LAN) Administrators on the installation of ICAPS-PC WINDOWS version 3.3 software and/or data files on a network. The LAN Administration should follow the ICAPS-PC Windows installation instructions and then continue with these guidelines for administering network usage.

The ICAPS-PC installation creates and names a default directory ICAPSWIN32. As a minimum, all users or user groups will need to have the following access authority in the application files directory:

- open files to read their contents or run,
- modify the contents of files
- view directory files

1. Security of Data Files. The LAN Administrator needs to determine where the data files will reside. The ICAPS-PC installation creates and names a default data directory ICAPSWIN32\DATA. As a minimum, all users or user groups will need to have the following access authority in the data directory:

- open files to read their contents or run programs
- modify the contents of files
- create files
- delete files
- rename files
- view directory files.

There are three locations from which to choose:

- a. First, data files can reside on a user's workstation. With this method, the user's data is completely autonomous; however, the data can only be accessed from that workstation.
- b. Second, data files can reside in the ICAPSWIN32\DATA directory which is a subdirectory of the application directory.

- c. Third, data files can reside on the file server in one or more directories. This method allows users to share data and can be tailored to restrict the access of data to authorized users only. Create any data directories as required.
2. Modification of Network Software. The LAN Administrator must modify the network software as follows, if not already done. Assign access rights to the application directory and the data directories for the users or user groups at least to the minimum level suggested in paragraph 2 and 3 above. Also, add drive letters for the application and the data directories to the network log-in procedure for each user or user group.
3. Creation of Application Generated Data Files. The file, TDRID.DBF, must reside in the application programs directory and the file, HDR.DBF, must reside in the data directory. If the LAN Administrator bypasses this step and the user's access authority is limited to what was suggested in paragraph 2 above, a user will not have the authority to create the HDR.DBF file.
4. Access to TDRID.DBF. TDRID.DBF contains a user's userid, default data directory, etc. There is one record in TDRID.DBF for each userid. In paragraph 2 above, the minimum access authority given to users in the application directory allows them to modify the contents of files. The ICAPS-PC program requires the user to have authority to modify files to use TDRID.DBF. The LAN Administrator should be aware that users could add, modify and delete the contents of TDRID.DBF. This can be done with ICAPSID.EXE (see paragraph 8 below) or any commercial, XBase software package. In order to prevent users or user groups from modifying TDRID.DBF using ICAPSID.EXE, the LAN Administrator can limit access to ICAPSID.EXE in any of three ways. First, keep ICAPSID.EXE on a floppy and execute it from the application directory. Second, keep ICAPSID.EXE in a directory that the users and user groups do not have access and execute it from the application directory. Third, give users or user groups no rights to ICAPSID.EXE. The LAN Administrator needs to determine how to limit access to TDRID.DBF by commercial software packages, if necessary and possible. If it is not possible to limit access to TDRID.DBF, back up the file to a floppy or disk drive to which the users or user groups do not have access.
5. Establishment of Userids. If ICAPS-PC WINDOWS is to be executed simultaneously by more than one user, the LAN Administrator should establish userids for each user (see paragraph 8 below). If this step were skipped, changes made by one user would affect everyone who executes ICAPS from the application directory.

6. Execution of ICAPSID.EXE. ICAPSID.EXE is a userid maintenance utility program. This utility provides the LAN Administrator with the ability to add <F6>, edit <Enter>, and delete <F3> userids in the data file TDRID.DBF.
7. HDR.DBF in the Application Directory. HDR.DBF is a data file that contains header information about all provisioning projects in the data directory where it is located. Anytime a user executes ICAPS-PC, the existence of HDR.DBF will be checked for. First, TDRID.DBF is checked for the user's data directory. If the user has not updated the data directory in TDRID.DBF via ICAPS, the application directory is checked. If HDR.DBF does not exist, it will be created in the data directory. Therefore, until the user changes the default data directory in TDRID.DBF via ICAPS, ICAPS-PC will try to create HDR.DBF in the application directory. If the LAN Administrator sets up the user's access authority as suggested in paragraph 2, the user will not have the authority to create HDR.DBF and ICAPS will display an error message and will not run. Thus, users who were given limited access need to have HDR.DBF resident in the application directory until their default directory is updated. In other words, do not delete HDR.DBF in the application directory.
8. Access to HDR.DBF. Every user running ICAPS-PC has a HDR.DBF file. However, the contents are unique to the user. If data files will be stored in a shared directory, it is necessary to disallow a user from copying the HDR.DBF file on the workstation to the data directory on the file server. To avoid overwriting common files (HDR.DBF, TDRVAL.DBF, TDRADHOC.DBF, and TDRVIEW.DBF) the LAN Administrator should remove a user's or user group's authority to copy or delete these files in the shared directory. If the shared directory was created in paragraph 3, HDR.DBF will not exist there at this point. Create a HDR.DBF file (see paragraph 12) and limit the user's or user group's authority as required. Repeat this process for each data directory created in paragraph 3.
9. Transfer of Files from WorkStation to File Server. HDR.DBF is maintained via the ICAPS-PC software. It is not automatically updated when ICAPS data files are copied into the data directory. There are two ways to copy data files from a workstation to the file server. First, use the Transfer menu item of ICAPS-PC and create an ASCII text output file. The file can then be copied to the network data directory. The user can then go to the Transfer menu item of ICAPS and input the file. Most users should be familiar with inputting and outputting text files. Second, a user can copy all DBF files associated with a project and copy them to the network drive. Go to ICAPS-PC and create a header for the project via the PCCN addition option. **Note:** This is to only be used for copying ICAPS-PC WINDOWS .dbf files. Do not attempt to copy ICAPS-PC DOS .dbf files into an ICAPS-PC WINDOWS data directory.

The file structures for these two systems are different. This will result in a run time error when trying to select that project for maintenance.

10. Execution of ICAPS-PC WINDOWS. Upon the initial execution of ICAPS-PC, the default data directory is the application software directory. It will remain that way until the user modifies the drive and directory. The LAN Administrator is responsible for providing the user the name of the data directory to be used, their user ID, and instructing them to update their data directory upon the execution of ICAPS-PC the first time. The user can update the data directory from within the ICAPS-PC System Setup Menu under the File menu option. Select System Setup, modify the Data File Drive\Directory, and save the change. The LAN administrator may want to accomplish this first step for the user.

APPENDIX B. INTRODUCTION TO NAVY PROVISIONING

Initial provisioning is a lengthy process, which begins when an idea is conceived for a new system that requires Navy support through the supply system, and continues until that system is operational. This same process must be repeated for any modifications or upgrades to the system. The basic objective of provisioning is to ensure that a system can be supported for an initial period of time (up to two years) before the system actually becomes operational. This means making sure that any maintenance significant items needed to keep that system functioning, including spare parts, repair parts, special tools, support and test equipment and consumables will be available. Provisioning determines the range (selection) and depth (quantity) of shipboard allowances (what is carried onboard the ship) and system stock requirements (what is carried in the supply system).

The basic steps in the provisioning process include:

- A provisioning team is established to begin to select/identify the material to be provisioned. The team is made up of logisticians, engineers, the Technical Support Activity (TSA)/In Service Engineering Agent (ISEA), the Program Support Inventory Control (PSICP) and the contractor.
- The contractor provides Provisioning Technical Documentation (PTD) to the TSA/ISEA in LSA-036 (MIL-STD) report format. This PTD must be provided even if the equipment is Commercial- off-the-Shelf (COTS). Included in this PTD is the most important of the provisioning lists, the Provisioning Parts List (PPL), which describes the physical composition of the equipment and lists all parts subject to wear or failure and maintenance items by part number, nomenclature, quantity, price and Commercial and Government Entity (CAGE) code. Other PTD includes the Long Lead Time Items List (LLTIL), and technical data including manuals, drawings, etc. The contractor will also run a DLSC screen to see if any parts are already in the Supply System.
- The TSA loads the information into the Ships Provisioning system (SPS) for eventual upload to the Weapons System File (WSF) and development of an Allowance Parts List (APL). This document allows purchase requests to be developed for the initial spares buy (which includes system stock) and is the most important output of the provisioning process.

The PSICP (i.e. provisioners) calculates the requirements for system stock and outfitting using sparing models. Supply coding including the Item Management Code and Stock Number Cognizance Code, and preservation and packaging coding is assigned along with the Repair Identification Code (RIC) and the Official Nomenclature (Approved Item Name (AIN)).

APPENDIX C. NAVY DATABASE STRUCTURES

- a. Structure for Header database: (hdr.dbf) (alias = hFile)

The data drive and data directory in system setup determines location.

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>	<i>Remarks</i>
1	PCCN	Character			PROVISIONING CONTRACT CONTROL NUMB
2	SPIN	Character	19		PROCUREMENT INSTRUMENT ID
3	NOM	Character	21		PROJECT NOMENCLATURE
4	CD	Character	10		CONTROL DATA
5	PFSCM	Character	5		PRIME FSCM/CAGE
6	SUBCONT	Character	5		SUBMISSION CONTROL CODE
7	LD	Character	10		LIST DATE (YYYY/MM/DD)
8	MILFMT	Character	2		MIL-STD CODE
9	PL	Character	1		PARTS LOADED
10	LOC	Character	1		SELECT AUDIT TRAIL
11	DLSC	Character			DLSC PART NUMBER SCREENING CODE
12	KPCCN	Character	8		KEY PCCN
13	KPCCN2	Character	8		KEY PCCN 2
14	ACTIV	Character	15		TSA ID
15	UPCON	Character			NAVICP ID
16	INCR	Character	1		Incrementor
17	QPEI	Character			Qty per end item computation method
18	CONTRACTOR	Character	10		CONTRACTOR ACTIVITY
19	REMARKS	Character	250		REMARKS
20	CALC	Character	1		CALCULATION
21	RIC	Character			REPAIRABLE IDENTIFICATION CODE
22	TYPE	Character	1		TYPE OF PROJECT
23	DCN FLAG	Character	1		DCN FLAG
24	ORSI	Character			Organizational/Routing Senders ID
25	DATECR	Character	10		Date Created
26	HFIL1	Character	5		Reserved for future use
27	HFIL2	Numeric	5		Reserved for future use

- b. Structure for Material database (material.dbf) (alias = mFile)

The data drive and data directory in system setup determines location.

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>
1	PART	Character	32	
2	CAGE	Character	5	
3	DUNS	Character	9	
4	MATERIAL	Character	240	

- c. Structure for Part database: (part.dbf) (alias = bFile)

The data drive and data directory in system setup determines location.

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>	<i>Remarks</i>
1	PART	Character	32		MFR PART NBR\REF DESIG\REF SYM NBR
2	CAGE	Character	5		COMMERCIAL AND GOVERNMENT ENTITY
3	DUNS	Character	9		DUNS UNIVERSAL NUMBERING SYSTEM
4	AC	Character	1		ACCEPTANCE CODE
5	DEMILCD	Character	1		DEMILITARIZATION CODE
6	RNCC	Character	9		REF NUMBER CATEGORY CODE
7	NOUN	Character	19		ITEM NAME
8	UI	Character	2		UNIT OF ISSUE
9	COG	Character	2		COGNIZANCE SYMBOL
10	MCC	Character	1		MATERIAL CONTROL CODE
11	NSN	Character	13		NAT'L STOCK NUM (ENDITEM PART)
12	SUFF	Character	4		NSN SUFFIX/MANAGEMENT ACTIVITY CODE
13	NSNSCR	Character	1		NSN SCREENING CODE
14	PLT	Numeric	2		PRODUCTION LEAD TIME
15	UP	Numeric	11	2	UNIT OF ISSUE PRICE
16	SL	Character	1		SHELF LIFE CODE
17	PPSL	Character	1		PROGRAM PARTS SELECTION LIST CODE
18	QUP	Numeric	3		QTY PER UNIT PACK
19	TRQ	Numeric	6		TOTAL REPLACEMENT QTY
20	TYIT	Character	3		TYPE OF ITEM
21	PSPC	Character	1		PHYSICAL SECURITY/PILFERAGE CODE
22	MAC	Character	1		MAINTENANCE ACTION CODE
23	MAOT	Character	4		MAXIMUM ALLOWABLE OPERATIONAL TIME
24	SLAC	Character	2		SHELF LIFE ACTION CODE
25	SLC	Character	3		SERVICE LIFE CODE (NOT USED)
26	AMC	Character	1		ACQUISITION METHOD CODE
27	AMSC	Character	1		ACQUISITION METHOD SUFFIX CODE

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>	<i>Remarks</i>
28	IMC	Character	1		ITEM MANAGEMENT CODE
29	PACREQ	Character	21		PACKAGING REUIREMENTS
30	SUPDAT	Character	19		SUPPLEMENTAL PACKAGING DATA
31	UPD	Character	12		UNIT PACKAGE DIMENSIONS
32	GRWT	Numeric	8		GROSS WEIGHT
33	TYSTO	Character	1		TYPE OF STORAGE CODE
34	GRCUB	Numeric	7		GROSS CUBE
35	ALTPTA	Character	32		ALT PART NUMBER /CAGE A
36	ALTPTB	Character	32		ALT PART NUMBER /CAGE B
37	ALTPTC	Character	32		ALT PART NUMBER /CAGE C
38	ALTPTD	Character	32		ALT PART NUMBER /CAGE D
39	ALPTPE	Character	32		ALT PART NUMBER /CAGE E
40	ALTPTF	Character	32		ALT PART NUMBER /CAGE F
41	ALTPTG	Character	32		ALT PART NUMBER /CAGE G
42	ALPTPH	Character	32		ALT PART NUMBER /CAGE H
43	ALTCAGEA	Character	5		ALTERATION CAGE A
44	ALTCAGEB	Character	5		ALTERATION CAGE B
45	ALTCAGEC	Character	5		ALTERATION CAGE C
46	ALTCAGED	Character	5		ALTERATION CAGE D
47	ALTCAGEE	Character	5		ALTERATION CAGE E
48	ALTCAGEF	Character	5		ALTERATION CAGE F
49	ALTCAGEG	Character	5		ALTERATION CAGE G
50	ALTCAGEH	Character	5		ALTERATION CAGE H
51	AIC	Character	1		ALLOWANCE ITEM CODE
52	UOM	Character	2		UNIT OF MEASURE
53	UMP	Numeric	11	2	UNIT OF MEASURE PRICE
54	HCI	Character	1		HARDNESS CRITICAL ITEM
55	UICF	Numeric	5		UNIT OF ISSUE CONVERSION FACTOR
56	ADPEC	Numeric	1		AUTOMATIC DATA PROCESSING EQUIP CODE
57	CTIC	Character	2		CONTRACTOR TECH INFO CODE
58	RNVC	Character	9		REF NUMBER VARIATION CODE
59	DAC	Character	9		DOCUMENT AVAILABILITY CODE
60	PMIC	Character	1		PRECIOUS MATERIAL INDICATOR CODE
61	QTYAUTH1	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 1
62	ENDITEM1	Character	8		BASIS OF ISSUE END ITEM 1
63	LVL1	Character	1		BASIS OF ISSUE-LEVEL 1
64	CTRL1	Numeric	1		BASIS OF ISSUE - CONTROL 1
65	QTYAUTH2	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 2
66	ENDITEM2	Character	8		BASIS OF ISSUE END ITEM 2
67	LVL2	Character	1		BASIS OF ISSUE-LEVEL 2
68	CTRL2	Numeric	1		BASIS OF ISSUE - CONTROL 2
69	QTYAUTH3	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 3
70	ENDITEM3	Character	8		BASIS OF ISSUE END ITEM 3
71	LVL3	Character	1		BASIS OF ISSUE-LEVEL 3

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>	<i>Remarks</i>
72	CTRL3	Numeric	1		BASIS OF ISSUE - CONTROL 3
73	QTYAUTH4	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 4
74	ENDITEM4	Character	8		BASIS OF ISSUE END ITEM 4
75	LVL4	Character	1		BASIS OF ISSUE-LEVEL 4
76	CTRL4	Numeric	1		BASIS OF ISSUE - CONTROL 4
77	QTYAUTH5	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 5
78	ENDITEM5	Character	8		BASIS OF ISSUE END ITEM 5
79	LVL5	Character	1		BASIS OF ISSUE-LEVEL 5
80	CTRL5	Numeric	1		BASIS OF ISSUE - CONTROL 5
81	QTYAUTH6	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 6
82	ENDITEM6	Character	8		BASIS OF ISSUE END ITEM 6
83	LVL6	Character	1		BASIS OF ISSUE-LEVEL 6
84	CTRL6	Numeric	1		BASIS OF ISSUE - CONTROL 6
85	QTYAUTH7	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 7
86	ENDITEM7	Character	8		BASIS OF ISSUE END ITEM 7
87	LVL7	Character	1		BASIS OF ISSUE-LEVEL 7
88	CTRL7	Numeric	1		BASIS OF ISSUE - CONTROL 7
89	QTYAUTH8	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 8
90	ENDITEM8	Character	8		BASIS OF ISSUE END ITEM 8
91	LVL8	Character	1		BASIS OF ISSUE-LEVEL 8
92	CTRL8	Numeric	1		BASIS OF ISSUE - CONTROL 8
93	QTYAUTH9	Numeric	5		BASIS OF ISSUE QTY AUTHORIZED 9
94	ENDITEM9	Character	8		BASIS OF ISSUE END ITEM 9
95	LVL9	Character	1		BASIS OF ISSUE-LEVEL 9
96	CTRL9	Numeric	1		BASIS OF ISSUE - CONTROL 9
97	BFIL1	Character	1		RESERVED FOR FUTURE USE
98	BFIL2	Numeric	5		RESERVED FOR FUTURE USE
99	BFIL3	Character	1		RESERVED FOR FUTURE USE
100	SEL_LLTEL	Character	1		PROVISION TECH DOC SELECTION CODE
101	SEL_PPL	Character	1		PROVISIONING PARTS LIST
102	SEL_SFPL	Character	1		SHORT FORM PROVISIONING PARTS LIST
103	SEL_CBIL	Character	1		COMMON AND BULK ITEM LIST
104	SEL_RIL	Character	1		REPAIRABLE ITEMS LIST
105	SEL_ISIL	Character	1		INTERIM SUPPORT ITEMS LIST
106	SEL_PCL	Character	1		POST CONFERENCE LIST
107	SEL_TTEL	Character	1		TOOLS AND TEST EQUIP LIST
108	SEL_SCPL	Character	1		SYSTEM CONFIGURATION PROVISIONING LIST
109	SEL_DCN	Character	1		DESIGN CHANGE NOTICE
110	NHCI	Character	1		NUCLEAR HARDNESS CRITICALITY CODE
111	INC	Character	5		ITEM NAME CODE
112	AELQTYA	Character	3		ALLOWANCE EQUIPAGE LIST QTY A
113	AELQTYB	Character	3		ALLOWANCE EQUIPAGE LIST QTY B
114	AELQTYC	Character	3		ALLOWANCE EQUIPAGE LIST QTY C
115	AELQTYD	Character	3		ALLOWANCE EQUIPAGE LIST QTY D

<i>Field</i> <i>d</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i> <i>h</i>	<i>Dec</i>	<i>Remarks</i>
116	AELQTYE	Character	3		ALLOWANCE EQUIPAGE LIST QTY E
117	AELQTYF	Character	3		ALLOWANCE EQUIPAGE LIST QTY F
118	AELQTYG	Character	3		ALLOWANCE EQUIPAGE LIST QTY G
119	AELQTYH	Character	4		ALLOWANCE EQUIPAGE LIST QTY H
120	SNF	Character	25		SUPPLEMENTAL NOMENCLATURE
121	AAC	Character	1		ACQUISITION ADVICE CODE
122	CRIDNUM	Character	6		COMPONENT/REPAIRABLE ID NUMBER
123	MSCL	Character	2		MARINE CORPS SHELF LIFE CODE
124	MEC	Character	2		MANAGEMENT ECHELON CODE
125	MGMTCODE	Character	1		MANAGEMENT CODE
126	NEWEST	Character	1		NEW / ESTABLISHED CODE
127	NOSUB	Character	1		NO SUBSTITUTION CODE
128	SAC	Character	1		STORES ACCOUNT CODE
129	TYPEITEM	Character	1		TYPE OF ITEM CODE

- d. Structure for PLISN database: (plisn.dbf) (alias = aFile)

The data drive and data directory in system setup determines location.

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>	<i>Remarks</i>
1	PLISN	Character	6		PROVISIONING LIST ITEM SEQUENCE NUMBER
2	PART	Character	32		MFR PART NBR\REF DESIG\REF SYM NBR
3	CAGE	Character	5		COMMERCIAL AND GOVERNMENT ENTITY
4	DUNS	Character	9		DUNS UNIVERSAL NUMBERING SYSTEM
5	INDC	Character	1		INDENTURE CODE
6	QA	Numeric	4		QTY FOR ASSEMBLY
7	QE	Character	5		QTY FOR END/ITEM
8	SMR	Character	6		SOURCE,MAINT,RECOVERABILITY CODE
9	SAPL	Character	6		SAME AS PLISN (COMPUTED)
10	MRRI	Numeric	9	4	MAINTENANCE REPLACEMENT RATE I
11	EC	Character	1		ESSENTIALITY CODE
12	MRU	Numeric	3		MINIMUM REPLACEMENT UNIT
13	RD1	Character	32		REF DESC
14	RD2	Character	32		OVERFLOW AREA FOR LONG REF DESC.
15	RDOC1	Character	1		REF DES OVERFLOW CODE A
16	RDOC2	Character	1		REF DES OVERFLOW CODE B
17	RDC	Character	1		REFERENCE DESIGNATION CODE
18	PRPL	Character	6		PRIOR PLISN
19	NHPL	Character	6		NEXT HIGHER ASS'Y PLSIN (COMPUTED)
20	RSPL	Character	6		REPLACE OR SUPERSEDING PLISN
21	ANC	Character	1		ALLOWANCE NOTE CODE

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>	<i>Remarks</i>
22	AOQ	Character	3		ALLOWANCE OVERRIDE QTY
23	AOC	Character	1		ALLOWANCE OVERRIDE DESIGNATOR CODE
24	UOC	Character	8		USABLE ON CODE
25	SHC	Character	1		SPECIAL HANDLING CODE
26	PPC	Character	1		PHASED PROVISIONING CODE
27	PCI	Character	1		PROCUREMENT CONTROL IDENTIFIER
28	ORR	Numeric	4	2	OVERHAUL REPLACEMENT RATE
29	MTD	Character	14		MAINTENANCE TASK DISTRIBUTION
30	RSR	Character	3		REPAIR SURVIVAL RATE
31	REM	Character	45		REMARKS
32	CHGA	Character	15		CHANGE AUTHORITY
33	IC	Character	2		INTERCHANGIBILITY CODE
34	SERA	Character	10		SERIAL NUMBER EFFECTIVITY (FROM)
35	SERB	Character	10		SERIAL NUMBER EFFECTIVITY (TO)
36	TIC	Numeric	2		TOTAL ITEM CHANGES
37	QSHIP	Numeric	6		QTY SHIPPED
38	QPROC	Numeric	6		QTY PROCURED
39	AFC	Character	1		ALLOWANCE FACTOR CODE
40	ASC	Character	1		ALLOWANCE TYPE SIGNAL CODE
41	NSOIND	Character	1		NUMERIC STOCKAGE OBJECTIVE INDICATOR
42	NSOQTY	Numeric	6		NUMERIC STOCKAGE OBJECTIVE QTY
43	RIPIND	Character	1		REMAIN IN PLACE INDICATOR
44	AFCQTY	Numeric	5		ALLOWANCE FACTOR CODE QTY
45	DCNUOC	Character	8		DESIGN CHANGE NOTICE UOC
46	NHAIND	Character	1		NEXT HIGHER ASS'Y PLISN INDICATOR
47	MRRII	Numeric	9	3	MAINT.REPL RATE II
48	MRRMOD	Character	7		MAINTENANCE REPLACEMENT RATE MOD
49	NRTS	Numeric	3		NOT REPAIRABLE THIS STATION
50	LRU	Character	1		LINE REPLACEMENT UNIT
51	RMSSLVL	Numeric	3		RECOMMENDED MINIMUM SYSTEM STOCK LEVEL
52	RISSBUY	Numeric	3		RECOMMENDED INITIAL SYSTEM STOCK BUY
53	RTLL	Numeric	3		RECOMMENDED TENDER LOAD LIST QTY
54	RCT1	Numeric	3		REPAIR CYCLE TIME - ORG LEVEL
55	RCT2	Numeric	3		REPAIR CYCLE TIME - INTERM./AFLOAT
56	RCT3	Numeric	3		REPAIR CYCLE TIME - INTERM./ASHORE
57	RCT4	Numeric	3		REPAIR CYCLE TIME - SPECIALIZED
58	RCT5	Numeric	3		REPAIR CYCLE TIME - DEPOT/SHIPYARD
59	RCT6	Numeric	3		REPAIR CYCLE TIME - CONTRACTOR ACTIVITY
60	RTD1	Numeric	3		REPLACEMENT TASK DISTRIBUTION-ORG LEVEL
61	RTD2	Numeric	3		RTD-INTERMEDIATE/AFLOAT
62	RTD3	Numeric	3		RTD-INTERMEDIATE/ASHORE
63	RTD4	Numeric	3		RTD-SPECIALIZED REPAIR ACTIVITY
64	RTD5	Numeric	3		RTD-DEPOT/SHIPYARD
65	PROELIN	Character	6		PRORATED EXHIBIT LINE ITEM NUMBER
66	PROQTY	Numeric	6		PRORATED QTY

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>	<i>Remarks</i>
67	LCN	Character	18		LOGISTICS CONTROL NUMBER
68	ALTLCN	Character	2		ALTERNATE LOGISTIC CONTROL NUMBER
69	RSIND	Character	1		REPLACE/SUPERSEDING PLISN INDICATOR
70	TMCODE	Character	3		TECH MANUAL CODE
71	FIGNUM	Character	4		FIGURE NUMBER
72	ITEMNUM	Character	4		KEY CALL OUT
73	TMCHGNUM	Character	2		TECHNICAL MANUAL CHANGE NUMBER
74	TMIND	Character	1		TECHNICAL MANUAL INDENTURE CODE
75	QTYFIG	Numeric	3		QTY PER FIGURE
76	WUCTMFGC	Character	11		WORK UNIT CODE/TM FUNCT GROUP CODE
77	PNOM	Character	42		PROVISIONING NOMENCLATURE
78	DESREWRK	Character	12		DESIGNATED REWORK/OVERHAUL POINT
79	AFIL1	Character	2		Reserved for future use
80	AFIL2	Character	1		Reserved for future use
81	AFIL3	Character	1		Reserved for future use
82	AFIL4	Numeric	5		Reserved for future use
83	AFIL5	Character	5		Reserved for future use
84	RBD	Character	10		RELIABILITY BLOCK DIAGRAM
85	ANRC	Character	2		ALTERNATE NIIN RELATIONSHIP CODE
86	ALTNIIN	Character	9		ALTERATE NATIONAL ID NUMBER
87	ARF	Numeric	3	3	APPLICATION REPLACEMENT FACTOR

- e. Structure for Item Name Code database: (inc.dbf) (alias = inc)
 Located in the same directory as the executable.

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>
1	INC	Character	5	
2	NOUN	Character	19	
3	FSC	Character	40	
4	MULTIND	Character	1	

- f. Structure for Component Identification database: (cid.dbf) (alias = cFile)
 The data drive and data directory in system setup determines location.

<i>Field</i>	<i>Field Name</i>	<i>Type</i>	<i>Width</i>	<i>Dec</i>
1	MB	Character	32	
2	NCDN	Character	32	
3	MDN	Character	32	
4	ES	Character	32	

5	TCS	Character	32	
6	NSN	Character	20	
7	CDSN	Character	32	
8	TMN	Character	30	
9	NHA	Character	25	
10	NLA	Character	25	
11	NAME	Character	15	
12	ORGCODE	Character	15	
13	PHONE	Character	15	
14	CHAR	Character	64	
15	CCFNOTE	Character	64	
16	NHNACT	Character	6	
17	NOC	Character	3	
18	SAD	Character	32	

APPENDIX D. ICAPS-PC SOFTWARE USER REGISTRATION FORM

ICAPS-PC SOFTWARE USER REGISTRATION & USER INFORMATION UPDATE FORM	
<p>Please return to: SPAWAR Systems Center Charleston, Jacksonville Office Attn: ICAPS Code 442 Naval Air Station, PO Box 151 Jacksonville, FL 32212-0151</p> <p>FAX: (904) 542-6242 DSN: 942</p>	
<p>Date: ____/____/____ NEW or UPDATE? (Circle Choice)</p>	
<p>User Activity or Organization: _____</p>	
<p>Primary Point of Contact: _____</p>	
<p>All ICAPS-PC correspondence will be sent to the primary point of contact.</p>	
<p>If you are replacing a previous primary point of contact at your activity, who are they?</p> <p>_____</p>	
<p>Internet E-mail Address:</p> <p>_____</p>	
<p>Complete mailing address: _____ (Include code/mail stop/dept) _____ _____ _____</p>	
<p>Phone: Commercial: (____) _____-_____</p>	<p>DSN: _____-_____</p>
<p>Fax: Commercial: (____) _____-_____</p>	<p>DSN: _____-_____</p>
<p>If contractor, government activity authorizing ICAPS-PC use: _____</p>	
<p>Point of Contact: _____ Code: _____</p>	
<p>Phone: Commercial: (____) _____-_____</p>	
<p>DSN: _____-_____</p>	
<p>How many people will be using ICAPS-PC at this location? _____</p>	
<p>Do you use ICAPS Client Server? _____</p>	

APPENDIX F. MARINE CORPS MODULE FOR ICAPS-PC WINDOWS

Background.

This appendix has been written to provide user instructions for the Marine Corps ICAPS-PC Windows module that has been developed to interface with the Marine Corps SS-10 Provisioning System. Only Marine Corps unique functionality and how they operate within ICAPS-PC are addressed in this appendix. All other processes and utilities are explained in other parts of the ICAPS-PC User Guide. Refer to the Marine Corps Standard Operating Procedure for provisioning business practices of the Marine Corps, Albany, Georgia.

The purpose of the Marine Corps screens within ICAPS-PC is to allow data input and validations of specified H-11, H-12, and H-13 data. ICAPS-PC will be used by the Marine Corps as a front end processor to the current Marine Corps SS-10 Provisioning System. Calculation processing within SS-10 has not been migrated to ICAPS-PC and will continue to be performed with SS-10. Once calculations are applied to the projects on SS-10, the data will be transmitted back to ICAPS-PC so that the two systems will be kept in sync.

All ICAPS-PC functional capabilities for Marine Corps were designed and developed as a team effort between Marine Corps Logistics Base, Albany, GA, and SPAWAR Systems Center Charleston, Jacksonville office (formerly, Naval Computer and Telecommunications Station, Jacksonville, FL).

1 Setting Up A New Marine Corps Project

A PCCN has to be added to the system using the Add PCCN button on the Project Management Screen before a new Marine Corps project can be built organically or imported for the first time into ICAPS-PC as a 1552. The Header information for the H-11 and H-12 can be keyed in anytime during the project maintenance. The Add PCCN screen will default the PLISN, CAGE, and Part Number with all 9's. The correct information can replace the defaults any time after the Project has been established. The DIC on each PLISN for all new projects will default to an "L" for initial loads into Sub-System 10. Computations and Management data that are imported into ICAPS-PC as an MCI file are recognized as being submitted from Sub-System 10 and the system does not programmatically assign any default values.

2 Marine Corps Unique Header Screens

The Marine Corps Header Screens are accessed via the common ICAPS-PC Header Screen. The Header Screens are categorized by A/B Data, B/C Data, and F Data. Each screen has a standard Vals On/Off toggle button and Remarks button that is available on all Header Screens.

The interface with SS10 is controlled with the **Document Identifier Code** (DIC) Field. Initial loads will be coded with a "L", revisions to a project will be coded with a "R" , and record deletions will be coded with a "D". The data elements on the Marine Corps Header screens are components of the H11 and H12 files. Refer to the Marine Corps Standard Operating Procedures for complete directions, validations, and usage of all data elements.

To access the Marine Corps Header Screens:

1. Position the cursor on the appropriate **MARINE CORPS PCCN** on the Project Management Screen. Marine Corps projects are recognizable on the Project Management screen by the format code of "MC".
2. Click on the **HEADER** button on the Project Management Screen.
3. The common provisioning Header Screen will be displayed.
4. Select the appropriate **TAB** for Marine Corps data that you need to access.

The Marine Corps Header screens are shown below:

Header Screen - PCCN: MCPROJ - Format: MC

Header | CID | A/B Data | B/C Data | F Data

End Item Description

DIC	Nomenclature	Model/Type #	Nat. Stock #	I.D. Number	Del Date Year	Day
<input type="checkbox"/>	<input type="text"/>					

Protect Years Proj Type

STRATA

SYS STK	IAQ	MOB
IPRQ IPPLTQ	IPOQ IPMOQ	IMOQ IMMOQ PWR
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

End Item Density

East	West
<input type="text" value="0"/>	<input type="text" value="0"/>

PRI Combat EC Commodity Code PRF Feed Proj Phase Code Assignor Code Manual Compute

Percent Items Loaded

Maint	Non-Maint
<input type="text" value="0"/>	<input type="text" value="0"/>

Vals Off | Remarks | Save

Figure E- 1 A/B Data Header Screen

Header Screen - PCCN: MCPROJ - Format: MC

Header | CID | A/B Data | B/C Data | F Data

DIC Monitor

LLIL PIO	DOC	PIO	PIO	Parts	Supt	Final	Pub	RFI	Init	In
FORWD	Accept	FORWD	RDD	Loaded	Test	NSN	Avail		Issue	Service
					Sequ	Reqd				

Provisioning Performance Schedule Dates

<input type="text"/>										
<input type="text"/>										

Provisioning Performance Actual Dates

<input type="text"/>										
<input type="text"/>										

Vals Off | Remarks | Save

Figure E- 2 B/C Data Header Screen

Use the "X" in the top right corner of the Header screens to return to the Project Management screen.

The CID Header screen can be used if Marine Corps determines there is a use for the data. The CID data is written in a separate file and is not passed to SubSystem 10. There is a report option that uses to CID file to write a report of only the CID data.

3 Marine Corps Unique Data Entry Screens

The data entry screens for Marine Corps provide a means of entering and validating data for G, H, I, J, and SPACE 01 cards. The data fields on the screens have been divided to separate each card type. The DIC field is common to each card type to indicate if the PLISN data is an initial load (L), revision (R), or deletion (D). The DIC entry is used to create the proper YC_ transaction for submission to SS10. Refer to the Marine Corps Standard Operating Procedure for complete descriptions of the usage of each of the data fields. The On-Line Help is also available for validation specifications. The Marine Corps data screens are shown below:

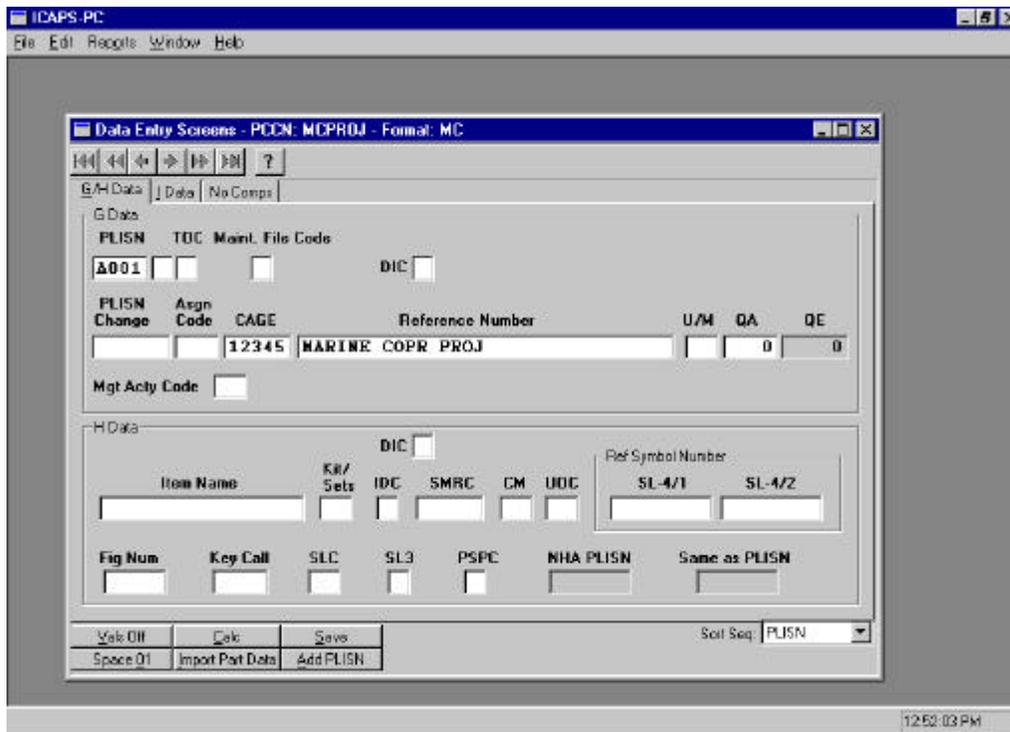


Figure E- 4 G/H Data Screen

The G/H Data Screen shown above will be the first screen displayed when a Marine Corps projects is selected from the Project Management Screen. The tabs at the top of the screen will allow changing back and forth between screens.

The buttons at the bottom of the screen and the Sort Sequence remain constant for all of the Marine Corps data screens.

The calculations for Marine Corps will be default to Multiplier Method.

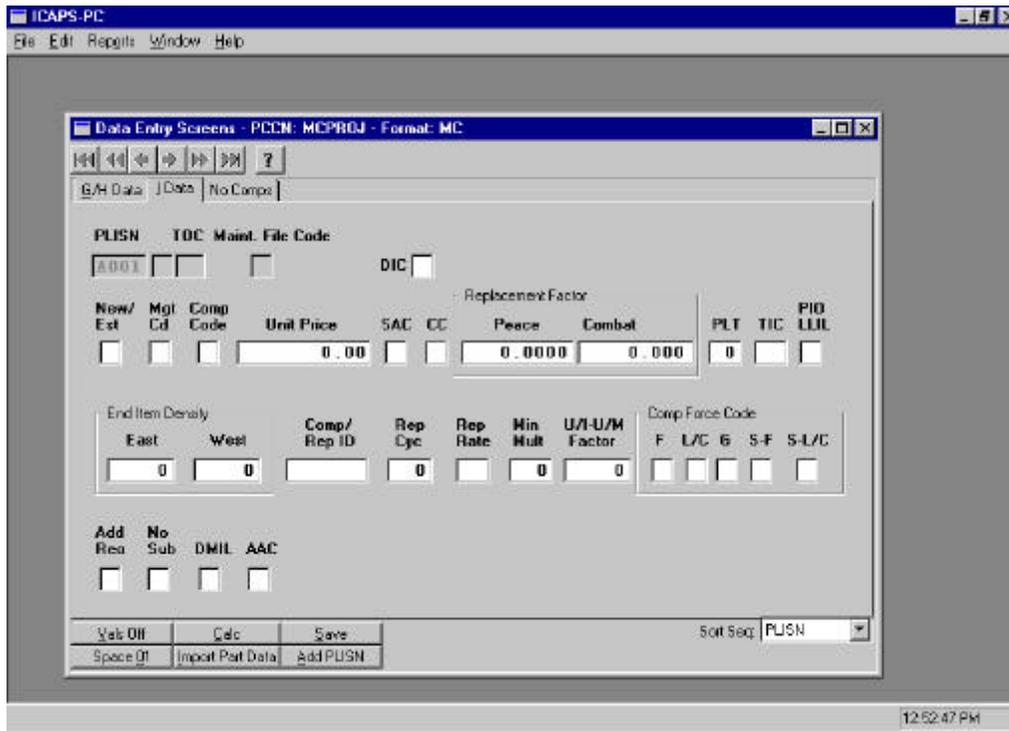


Figure E- 5 | Data Screen

The Comp Code on the "I Data" Screen controls the label on the tab of the 3rd screen. If Comp Code is "M", the 3rd tab label will be "J Data" and the fields will be opened up for edit. If the Comp Code is "A" the 3rd tab label will be "AutoComp" and the fields are displayed but not opened up for edit. If the Comp Code is "N" or blank the 3rd tab label will be "No Comps", as shown below.

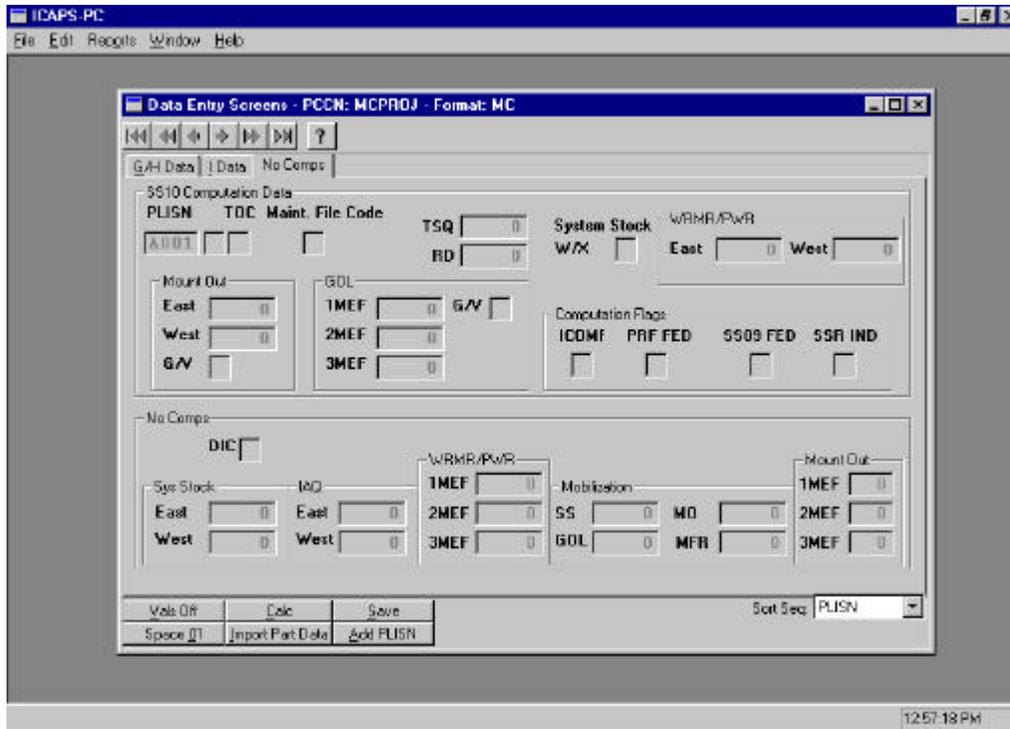


Figure E- 6 No Comps Data Screen

The Space 01 pop-up data screen is shown below:

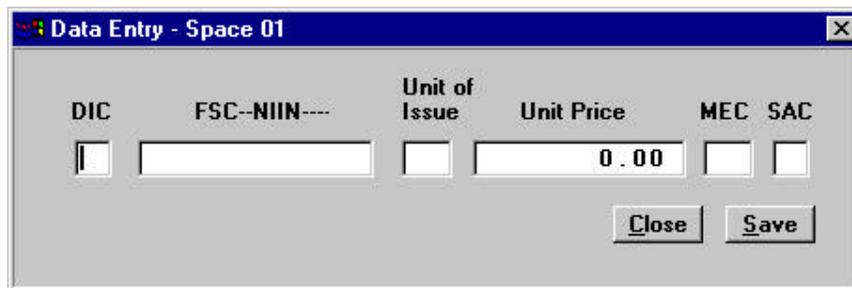


Figure E- 7 Space 01 Data Entry Screen

The File and Edit menu bar options on the Marine Corps data screens are the same as the standard provisioning screens. The sections for these options in the User Guide can be referred to for further details.

4 Deleting PLISN Data

A unique Marine Corps routine has been created to delete data in an existing PLISN. This routine is necessary to provide SS10 with the proper data to overwrite certain fields with spaces. Currently, if SS10 receives a record with spaces in it, the system interprets the spaces as unchanged data. SS10 recognizes “X” in the first position of specific fields as the indicator to

move spaces to the data field.

The table below provides the fields for entering "0" in the first position of the data field to overwrite existing data with spaces. An "X" will not be processed as an indicator for deleting PLISN data for these fields.

Note: The user will input a "0" in these fields vice a space or an "X". The data export utility will submit an "X" or a space to SS-10 depending on the type of transaction.

<u>File</u>	<u>Field</u>	<u>Name</u>
H11	DENEAST	Density East
H11	DENWEST	Density West
H12	GEIQTY	GOL E/I Qty
H12	GCSDL	GOL C&S Day Level
H12	GRDL	GOL Rep Day Level
H12	MEIQTY	Mnt-Out E/I Qty
H12	MCSDL	Mnt-Out C&S Day Level
H12	MRDL	Mnt-Out Rep Day Level
H13	UMP	Unit Price
H13	EC	Criticality Code
H13	MRRI	Peacetime Replacement Factor
H13	MRRII	Combat Replacement Factor
H13	PLT	Production Lead Time
H13	DENEAST	End Item Density East
H13	DENWEST	End Item Density West
H13	RCT5	Repair Cycle Time
H13	MRU	Minimum Multiple
H13	UICF	Unit of Issue/Unit of Measure Factor
H13	SYSEAST	Manual System Stock East
H13	SYSWEST	Manual System Stock West
H13	IAQEAST	IAQ/GOL East
H13	IAQWEST	IAQ/GOL West
H13	ACTMEF1	Active PWR 1MEF
H13	ACTMEF2	Active PWR 2MEF
H13	ACTMEF3	Active PWR 3MEF
H13	MOBSTK	MOB System Stock Quantity
H13	MOBGOL	MOB Garrison Operating Level Quantity
H13	MOBMNT	MOB Mount Out Quantity

<u>File</u>	<u>Field</u>	<u>Name</u>
H13	PWRMEF4	MOB PWR MEF4
H13	MNTMEF1	Mount Out 1MEF
H13	MNTMEF2	Mount Out 2MEF
H13	MNTMEF3	Mount Out 3MEF

5 Output Interface With Subsystem 10

ICAPS-PC and SS10 have a two-way interface for passing data back and forth.

The output interface passes data to the "X" drive in the "MCO" directory on the designated Marine Corps server. The data files are then passed to SS-10 for loading and revising the Marine Corps systems. Follow the steps below to create the necessary files to output the Marine Corps data that has been updated within ICAPS-PC:

1. Select "**Transfer**" on the Menu Bar of the Project Management Screen.
2. Select **EXPORT DATA FILE/MARINE CORPS SS10 EXPORT** from the drop down suboptions.
3. Select the **TYPE OF MARINE CORPS DATA** that is to be transferred to SS10.

An option will be presented to change the default drive and/or directory. The option has been provided in case there is a change in Marine Corps business practice in the future. In most cases the default will not need to be changed.

The output file will be given a sequential name in the format of PCCN## (01-99) with a file name extension of .MCO. The interface program that has been developed on SS-10 will read the MCO files and process the data into SS-10. Once the MCO file is passed to SS-10 it is important that the file be purged off of the server. If the PCCN## exceeds 99 the user will get a message that the maximum number of files has been created. If this message is received then it can mean a couple of different things:

- There is a backlog of files that need to be loaded to SS-10.
- Files that have been loaded to SS-10 have not been purged off of the server.

No additional MCO files will be able to be created until the PCCN## is reduced below 99.

If the "Inquiry" option is selected the following screen will be displayed:

Figure E- 8 Marine Corps SS10 Inquiry Export Screen

Use this screen to enter the information necessary to create a file that will query SS-10. A transaction type of "YQI" will be output as the indicator to SS10 that the transaction is an inquiry only. This transaction will not process any data in SS10, it will only interrogate SS-10 to provide information back to the requestor.

6 Input Interface With Subsystem 10

The interface to pass data from SS-10 to ICAPS-PC is generated from SS-10 and a text file with a .MCI extension is created. The process is used to keep data consistent between ICAPS-PC and SS-10 and will update the Computations and Management data in ICAPS-PC. Follow the steps below to input the MCI file into ICAPS-PC:

1. Select **“Transfer”** on the Menu Bar of the Project Management Screen.
2. Select **IMPORT DATA FILE AND THE MARINE CORPS SS10 SUBOPTION** from the drop down box.
3. An option will be presented to change the default drive and/or directory. The option has been provided in case there is a change in Marine Corps business practice in the future. In most cases the default will not need to be changed.
4. Using the standard Windows file selection box, shown below, select the **MCI FILE** from the proper data directory.
5. Click on **“Open”** once the correct directory/filename is selected.

The MCI file will update the baseline file in the ICAPS-PC data directory.

7 Utilities

Batch Validation - Projects can be developed with the validations off and then have a validation report generated. The steps to generate Marine Corps Batch Validations are:

1. Select "**Batch Validate**" from the "Utilities" options on the menu bar.
2. Select "**Marine Corps**".
3. The "Marine Corps Batch Validation" screen appears.
4. The PCCN highlighted on the Project Management screen appears as the "PCCN Selected".
5. If any other PCCN is desired, use the **ENTER PCCN** entry box and select a **PCCN** from the drop down list or type a PCCN in the box.
6. Click on the **DATA TYPES** that are to be validated.
7. Click "**Begin**" and the report will be generated and displayed on the screen.

The report options are shown below on the Marine Corps Batch Validation screen.

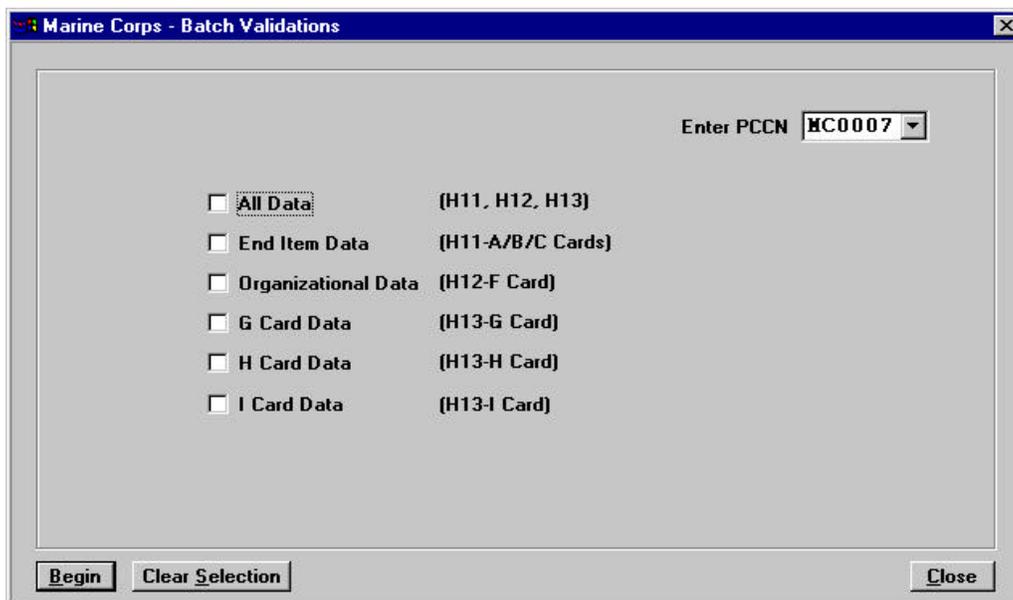


Figure E- 9 Marine Corps - Batch Validations Screen

Key Call-Out - The Key Call-Out utility assigns Key Call-Out numbers to unique Marine Corps Projects. The numbers will be sequentially assigned beginning with 0001 for each figure number, ignoring those PLISNs that are marked for deletion. This data element equates to the item number for standard ICAPS-PC projects.