

# DRUG ACCOUNTABILITY/ INVENTORY INTERFACE (DA)

# TECHNICAL MANUAL/ SECURITY GUIDE

Version 3.0 October 1997

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Department of Veterans Affairs
Office of Enterprise Development

# **Revision History**

The table below lists changes made since the initial release of this manual. Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. Either update the existing manual with the Change Pages document, or replace it with the updated manual.

**Note:** The Change Pages document may include unedited pages needed for two-sided copying. Only edited pages display the patch number and revision date in the page footer.

Date	Revision Pages	Patch Number	Description
05/09	<u>v-vi</u> , <u>10-12</u> , <u>14-20</u> , <u>25</u>	PSA*3*69	Added menu item Return Drug Credit [PSA RETURN DRUG MENU], options, file list, and security key PSARET. Added the following routines: PSANDCUT, PSARDCBA, PSARDCBL, PSARDCIT, PSARDCRD, PSARDCRP, PSARDCRS, PSARDCU1, and PSARDCUT.
			(G. Tucker, PM, S. B. Scudder, Tech Writer)
04/08	9-12, 30	PSA*3*67	Added XTMP Line Item Data.
			(E. Williamson, PM, G. O'Connor, S. Scudder, Tech Writer)
06/06	10-12, 19- 20, 24	PSA*3*51	Added new routine PSAOUT, new option PSA OUTDATED MEDICATIONS and updated the security keys section.
			(H. Whitley, Project Manager; V. Howell, Technical Writer)
06/03	All	PSA*3*26	Updated manual to current Standards. Left Appendix C as is since it is a document in itself. Added new routines and deleted PROCOMM PLUS Prime Vendor information in Appendix B and throughout the manual.
02/02	iia-iib;	PSA*3*21	Add Revision History pages iia and iib;
	v-(vi);		Update Table of Contents;
	9-20;		Revise sections to add new routines related to setting up/editing a
	(25)-26b.		pharmacy location, selecting from multiple divisions, editing verified invoice data, and updating the Drug File,
			Revise sections to add a new File, DA Upload (#58.812),
			Revise sections to add new options to delete unprocessed invoices and edit verified invoices;
			Update Software Product Security section to reflect new file and to add information on mail groups.
			Unchanged pages included for two-sided copying as needed.
10/97			Original Released Technical Manual.

# **Preface**

Version 3.0 of the Drug Accountability/Inventory Interface (DA) software provides functionality to maintain a perpetual inventory of drugs. Interfacing with the Generic Inventory Package (GIP) or the prime vendors' invoice data increments drug balances in pharmacy locations and master vaults. Pharmacy's dispensing software packages pass dispensing data to DA V. 3.0 then decrements the drug balances in pharmacy locations. The DA V. 3.0 software package is intended for pharmacists, pharmacy technicians, and pharmacy procurement agents who are familiar with the prime vendor or GIP ordering process.

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## 1. Introduction

Drug Accountability/Inventory Interface (DA) Version 3.0 provides functionality that interfaces with prime vendor invoice data. It provides Pharmacy with the capability to match National Drug Codes (NDC) in the invoice data to NDC in the DRUG file (#50). The invoice data is uploaded, processed, and verified. Version 3.0 also provides the capability to transfer drugs between pharmacy locations and tracks those transfers.

## **IMPORTANT:**

Once verified (prime vendor interface) or received (GIP interface), the drug balances are incremented in the pharmacy location and/or master vault. The invoiced drug's order unit is compared to the ORDER UNIT field (#12) in the DRUG file (#50) and the dispense units per order unit is compared to the DISPENSE UNITS PER ORDER UNIT field (#15) in the DRUG file (#50). If the order unit and dispense units per order unit are the same, the NDC (#31), PRICE PER ORDER UNIT (#13), and PRICE PER DISPENSE UNIT (#16) fields in the DRUG file (#50) may be updated.

The following condition must be met to update the NDC field (#31).

• If the invoice NDC is different from the NDC field (#31), the NDC field (#31) is overwritten with the invoiced NDC.

The following condition must be met to update the PRICE PER ORDER UNIT field (#13) and PRICE PER DISPENSE UNIT field (#16).

• If the invoiced price per order unit is different than the PRICE PER ORDER UNIT field (#13), the PRICE PER ORDER UNIT field (#13) is overwritten with the new prorated price per order unit. The PRICE PER DISPENSE UNIT field (#16) is also overwritten with the new prorated price per dispense unit.

This technical manual provides additional information for package coordinators, supervisors, and Information Resource Management (IRM) Staff. Users who are not familiar with Veterans Health Information Systems and Technology Architecture (*VISTA*) software may also wish to refer to documentation for VA Kernel.

**Note**: The Security Guide information has been included in this manual under the Software Product Security section.

# 2. Orientation

Within this documentation, several notations need to be outlined.

- Menu options will be italicized.
   Example: Drug Accountability Menu indicates a menu option.
- Screen prompts will be denoted with quotation marks around them. Example: "DATE:" indicates a screen prompt.
- Responses in bold face indicate what the user is to type in.
   Example: If the displayed transfer information is correct, enter YES.
- Text centered between arrows represents a keyboard key that needs to be pressed in order for
  the system to capture a user response or move the cursor to another field. <Enter> indicates
  that the Enter key (or Return key on some keyboards) must be pressed. <Tab> indicates that
  the Tab key must be pressed.

Example: Press <**Tab>** to move the cursor to the next field.

Press **<Enter>** to select the default.

- Note: Indicates especially important or helpful information.
- Options are locked with a particular security key. The user must hold the particular security key to be able to perform the menu option.

Example: This option is locked by the PSA ORDERS key.

- ?, ??? One, two, or three question marks can be entered at any of the prompts for on-line help. One question mark elicits a brief statement of what information is appropriate for the prompt. Two question marks provide more help, plus the hidden actions and three question marks will provide more detailed help, including a list of possible answers, if appropriate.
- ^ Up Caret (arrow or a circumflex) and pressing **<Enter>** can be used to exit the current option.

# 3. Implementation and Maintenance

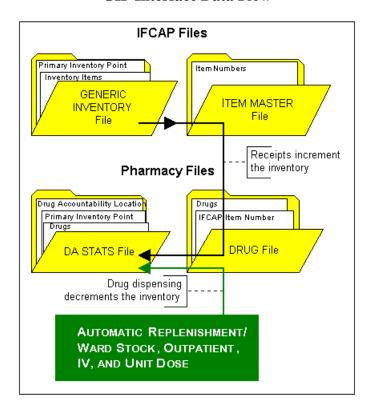
#### 3.1. Installation

For installation of the DA Version 3.0 **V***IST***A** software package, please refer to the Installation Guide.

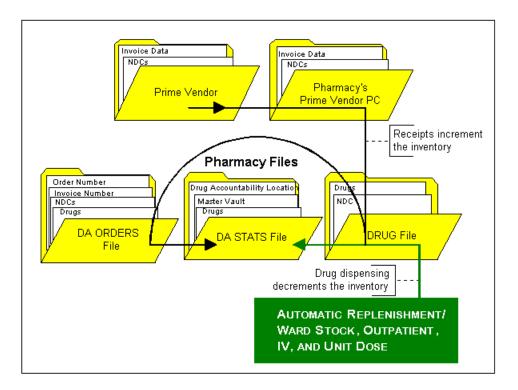
If the site will be interfacing with the prime vendor's invoice data, contact the prime vendor to obtain their invoice data software and installation instructions.

#### 3.2. Data Flow

#### **GIP Interface Data Flow**



#### **Prime Vendor Data Flow**



# **3.3.** Resource Requirements

Version 3.0 of the DA package requires, at least, the following VA software applications and commercial package.

VISTA Software Package	<b>Minimum Version Required</b>	
Controlled Substances (CS)	3.0 (Must be patched up to and	
	including Patch PSD*3.0*6)	
Kernel	8.0	
Kernel Toolkit	7.3	
MailMan	7.1	
VA FileMan	21.0	
National Drug File (NDF)	3.16	
Pharmacy Data Management (PDM)	1.0	
☑ Inpatient Medications	4.5 (Must be patched up to and	
	including Patch PSJ*4.5*44)	
☑ Automatic Replenishment/Ward Stock	2.3	
<ul> <li>Outpatient Pharmacy</li> </ul>	6.0 (Must be patched up to and	
	including Patch PSO*6.0*155)	

☑ If the site will be setting up an Inpatient and/or Combined (Inpatient/Outpatient) pharmacy location, these software packages must be installed to collect unit dose and IV dispensing data.

• If the site will be setting up an Outpatient and/or Combined (Inpatient/ Outpatient) pharmacy location, this software package must be installed to collect prescription data.

## 3.4. Site Parameters

There are no site parameters to be set.

# 3.5. Hardware Requirements

The facility must support a port-to-port connection between the **V***IST***A** system and the prime vendor PC system.

# 4. Routine List

This section contains an alphabetized routine list and a description of each routine for DA Version 3.0.

## **Routine List and Routine Descriptions**

<b>Routine Names</b>	Routine Descriptions
PSABRKU1	Upload and Process Prime Vendor Invoice Data
PSABRKU2	Automatic processing of invoices
PSABRKU3	Upload and Process Prime Vendor Invoice Data - CONT'D
PSABRKU4	Upload and Process Prime Vendor Invoice Data - CONT'D
PSABRKU5	Upload and Process Prime Vendor Invoice Data - CONT'D
PSABRKU6	Upload and Process Prime Vendor Invoice Data - CONT'D
PSABRKU8	Upload and Process Prime Vendor Invoice Data Utility
PSACON	Display Connected Drug and Procurement History
PSACON1	Display Connected Drug and Procurement History - CONT'D
PSACON2;	Display Connected Drug and Procurement History - CONT'D
PSACONW	Display Connected Drug and Procurement History - CONT'D
PSACOST	Invoice Cost Summary
PSACREDO	Outstanding Credits
PSACREDR	Credit Resolution
PSADA	Pharmacy Location Lookup Utility
PSADAI	Drug Balances by Location
PSADJ	Balance Adjustments
PSADJI	Balance Initialization
PSADJR	Balance Adjustments History
PSADRU	Drugs Not Found in Linked Inventory
PSADRUG	Add/edit Pharmacy Location drugs
PSADRUGP	Enter/Edit a Drug
PSAENT	Set Up/Edit a Pharmacy Location
PSAENTO	Set Up/Edit a Pharmacy Location - CONT'D
PSAENVIR	Environment Check
PSAGIP	DA receiving from GIP
PSAGIP1	DA receiving from GIP - CONT'D
PSAHIS	Drug Transaction History
PSAHIS1	Drug Transaction History - CONT'D
PSALEVEL	Enter/Edit Stock and Reorder Levels
PSALEVRP	Stock and Reorder Report
PSALFA	Automated DRUG/ITEM MASTER file Link by Federal Stock Number (FSN)
PSALFM	Controlled Connection by FSN Match

<b>Routine Names</b>	Routine Descriptions
PSALFS	Report Potential FSN Matches
PSALNA	Automated DRUG/ITEM MASTER file Link by NDC
PSALND	Report Potential NDC Matches
PSALNM	NDC Duplicates Report (ITEM MASTER file)
PSALOC	Set Up/Edit a Pharmacy Location
PSALOC1	Set Up/Edit a Pharmacy Location
PSALOC2	Set Up/Edit a Pharmacy Location
PSALOCO	Set Up/Edit a Pharmacy Location
PSALOG	Unposted Procurement History
PSALOG0	Unposted Procurement History - CONT'D
PSALOG1	Unposted Procurement History - CONT'D
PSALOG1H	Unposted Procurement History - CONT'D
PSALOG2	Post Drug Procurement History
PSALOG3	Post Drug Procurement History - CONT'D
PSALOGON	Logon Utility
PSAMON	Monthly Summary
PSAMON1	Monthly Summary - CONT'D
PSANAC	Populate Pharmacy Location with Inventory Items
PSANDC	NDC Duplicates Report
PSANDF	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSANDF1	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSANDCUT	Utility for handling NDC (National Drug Code)
PSAOP	Outpatient Dispensing (Single Drug)
PSAOP1	Outpatient Dispensing (Single Drug) & (All Drugs)
PSAOP2	Outpatient Dispensing (All Drugs)
PSAOP3	Nightly Background Job
PSAOP4	Outpatient Dispensing (Single Drug) & (All Drugs) - CONT'D
PSAORDP	Print Orders
PSAORDP1	Print Orders - CONT'D
PSAORDP2	Print Orders - CONT'D
PSAOUT	Outdated Medications
PSAP67	New Prime Vendor field checker/displayer
PSAPOST	Post Init
PSAPROC	Process Uploaded Prime Vendor Invoice Data
PSAPROC1	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC2	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC3	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC4	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC5	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC6	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC7	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC8	Process Uploaded Prime Vendor Invoice Data - CONT'D
PSAPROC9	Process Uploaded Prime Vendor Invoice Data - CONT'D

<b>Routine Names</b>	Routine Descriptions
PSAPSI	IV Dispensing (Single Drug)
PSAPSI1	IV Dispensing (Single Drug) & (All Drugs)
PSAPSI2	IV Dispensing (All Drugs)
PSAPSI3	Nightly Background Job
PSAPSI4	IV Dispensing (Single Drug) & (All Drugs)
PSAPSI5	Nightly Background Job - CONT'D
PSAPUR	Nightly Background Job - CONT'D
PSAPV	Processor and Verifier
PSARDCBA	Listman – Display Return Drug Batch
PSARDCBL	Listman – Display Return Drug Batch List
PSARDCIT	Listman – Display Return Drug Batch Item
PSARDCRD	Return Drug Report (Detailed)
PSARDCRP	Return Drug Report (Driver)
PSARDCRS	Return Drug Report (Summary)
PSARDCU1	Return Drug utility routine 2
PSARDCUT	Return Drug utility routine 1
PSAREC	Receiving Directly into Drug Accountability
PSAREC1	Receiving Directly into Drug Accountability - CONT'D
PSAREORD	Nightly Background Job - CONT'D
PSAREPV	Invoice Review
PSAREV	Purchase Order Review
PSAREVC	Control Point Transaction Review
PSAREVD	Drug Receipt History Review
PSARIN	Loadable Inventory Items Report
PSARWS	Collect Ward Stock Data
PSASIG	Transfer Signature Sheet
PSATI	Single Drug Match
PSATRAN	Transfer Drugs between Pharmacies
PSATRAN1	Transfer Drugs between Pharmacies - CONT'D
PSAUDP	Nightly Background Job - CONT'D
PSAUNI	Unlinked Drugs in the ITEM MASTER file
PSAUNL	Connect Unlinked DRUG/ITEM MASTER file Entries
PSAUNM	Report of Unlinked DRUG/ITEM MASTER file Entries
PSAUP	Upload and Process Prime Vendor Invoice Data
PSAUP1	Upload and Process Prime Vendor Invoice Data - CONT'D
PSAUP2	Upload and Process Prime Vendor Invoice Data - CONT'D
PSAUP3	Upload and Process Prime Vendor Invoice Data - CONT'D
PSAUP4	Upload and Process Prime Vendor Invoice Data - CONT'D
PSAUP5	Upload and Process Prime Vendor Invoice Data - CONT'D
PSAUP6	Upload and Process Prime Vendor Invoice Data - CONT'D
PSAUTL	GIP Utility
PSAUTL1	Prime Vendor Invoice Data Utility
PSAUTL2	Upload and Process Prime Vendor Invoice Data Utility

<b>Routine Names</b>	Routine Descriptions
PSAUTL3	Upload and Process Prime Vendor Invoice Data Utility –
	CONT'D
PSAUTL4	Verify Invoices Utility
PSAVER	Verify Invoices
PSAVER1	Verify Invoices - CONT'D
PSAVER2	Verify Invoices - CONT'D
PSAVER3	Verify Invoices - CONT'D
PSAVER4	Verify Invoices - CONT'D
PSAVER5	Verify Invoices - CONT'D
PSAVER6	Verify Invoices - CONT'D
PSAVER7	Verify Invoices - CONT'D
PSAVER8	Multiple Division Selection
PSAVERA	Change verified invoice data
PSAVERA1	Edit previously verified invoices
PSAVERA2	Edit previously verified invoices #2
PSAVERA3	Record Transaction & Update DRUG file
PSAVIN	Report of Inventory items' link to DRUG file
PSAVIN1	Physical Inventory Balance Review
PSAVIN2	Compares Prices (DA/GIP)
PSAVINC	Update Prices
PSAWARD	Set Up/Edit a Pharmacy Location

# 5. File List

This package requires 23 files in addition to those of the Kernel and other files to which it points. Information about all files, including these can be obtained by using the VA FileMan to generate a list of file attributes.

## **5.1.** GIP Interface Files

File Numbers	File Names
42	WARD LOCATION
50	DRUG
50.8	IV STATS
51.5	ORDER UNIT
52	PRESCRIPTION
52.6	IV ADDITIVES
52.7	IV SOLUTIONS
58.1	PHARMACY AOU STOCK
58.5	AR/WS STATS
58.8	DRUG ACCOUNTABILITY STATS
58.81	DRUG ACCOUNTABILITY TRANSACTION
58.812	DA UPLOAD
58.84	DRUG ACCOUNTABILITY TRANSACTION TYPE
59	OUTPATIENT SITE
59.4	INPATIENT SITE
59.7	PHARMACY SYSTEM
410	CONTROL POINT ACTIVITY
441	ITEM MASTER
442	PROCUREMENT & ACCOUNTING
	TRANSACTIONS
445	GENERIC INVENTORY
445.2	INVENTORY TRANSACTION

# **5.2.** Prime Vendor Interface

File Numbers	File Names
42	WARD LOCATION
50	DRUG
50.8	IV STATS
51.5	ORDER UNIT
52	PRESCRIPTION
52.6	IV ADDITIVES
52.7	IV SOLUTIONS
58.1	PHARMACY AOU STOCK
58.5	AR/WS STATS
58.8	DRUG ACCOUNTABILITY STATS
58.81	DRUG ACCOUNTABILITY TRANSACTION
58.812	DA UPLOAD
58.84	DRUG ACCOUNTABILITY TRANSACTION TYPE
58.811	DRUG ACCOUNTABILITY ORDER FILE
59	OUTPATIENT SITE
59.4	INPATIENT SITE
59.7	PHARMACY SYSTEM
8980	KERMIT HOLDING

# **5.3.** Return Drug Credit Menu

File Numbers	File Names
50	DRUG
51.5	ORDER UNIT
58.35	RETURN DRUG
58.36	RETURN DRUG CONTRACTOR/MFR
58.8	DRUG ACCOUNTABILITY STATS
58.81	DRUG ACCOUNTABILITY TRANSACTION
58.84	DRUG ACCOUNTABILITY TRANSACTION TYPE
59	OUTPATIENT SITE
200	NEW PERSON

## **5.4.** File Descriptions

#### 58.35 RETURN DRUG FILE

This file contains a record for all the drugs that are returned to a contractor and/or manufacturer for a credit or to be destroyed. It includes drug items that have been credited, denied, or are still pending.

#### 58.36 RETURN DRUG CONTRACTOR/MFR FILE

This file contains contractors and/or manufacturers to whom drugs are returned for credit or destruction. This file is pointed to by the CONTRACTOR/MANUFACTURER field (#4) of the RETURN BATCH sub-field (#58.351) of the RETURN DRUG (#58.35) file.

#### 58.8 DRUG ACCOUNTABILITY STATS FILE

This file contains data associated with the Pharmacy Drug Accountability Stats location. Entries in this file may be edited but not deleted. Entries in this file should NOT be edited directly using VA FileMan.

This file is designed to be shared between the DA V. 3.0 module and the Controlled Substances V. 3.0 module of the Pharmacy software. The Controlled Substances V. 3.0 module will recognize a location as a Narcotic Area of Use (NAOU). The menu *Inactivate NAOU* [PSD INACTIVATE NAOU] option is used to inactivate NAOUs no longer in use. The menu *Inactivate NAOU Stock Drug* [PSD INACTIVATE NAOU STOCK DRUG] option is used to inactivate drugs no longer stocked within that NAOU.

INPUT TEMPLATE(S):
PSAENT
PSAGIP

PRINT TEMPLATE(S):
PSAINV

#### 58.81 DRUG ACCOUNTABILITY TRANSACTION FILE

This file contains the data associated with drug accountability transactions. This file design is to share between the DA V. 3.0 module and the Controlled Substances V. 3.0 module. Entries in this file should NOT be edited directly for Controlled Substances V. 3.0 use. The CS V. 3.0 module contains all appropriate checks for this file's use.

#### **58.812 DA UPLOAD**

This file contains Supply Items and Order Units used in matching uploaded Prime Vendor invoice data.

The user inputs the name of a supply item and the item's corresponding Vendor Stock Number (VSN). When an item is uploaded from the vendor, the DA V. 3.0 software attempts to identify

the item by the NDC. If a match cannot be found, the entries in this file will be checked. By storing the supply items, the user does not have to identify the item on the invoice as a supply item each time it is uploaded.

The Prime Vendor ships drugs in a variety of order unit sizes. In some instances, the order unit on an invoiced item does not match the order unit in the facility's files. When this occurs the user has to perform a manual match on the item.

By entering the order unit sent by the Prime Vendor to the order unit in VISTA, the matching can be performed automatically during the upload process.

#### 58.84 DRUG ACCOUNTABILITY TRANSACTION TYPE FILE

This file contains the standard types of transactions utilized in the pharmacy DA V. 3.0 package. This file is shared between the DA V. 3.0 module and the Controlled Substances V. 3.0 module. This is a standard file exported by both the Controlled Substances V. 3.0 and DA V. 3.0 modules and additional entries should not be added. Existing data will be merged.

**Note**: Data comes with this file and overwrites the existing data.

#### 58.811 DRUG ACCOUNTABILITY ORDER FILE

This file contains prime vendor pharmacy orders with all adjustments. The prime vendor invoice data is uploaded from the prime vendor. All data is processed and verified before it increments the drug balances in DA pharmacy locations.

#### None XTMP("PSAPV")

This temporary file holds the uploaded invoice data that has not been processed. When the data is processed, it is moved to the DRUG ACCOUNTABILITY ORDER file (#58.811). If data in this file is not processed or more data is not added to this file for 16 days, a MailMan message is sent to holders of the PSA ORDERS key. The message states that if the invoices are not processed in four calendar days or if more invoices are not uploaded in four calendar days, the invoices in the file will be deleted. If the data remains unprocessed and data is not added to the file for five more days, all data in the file is deleted. (See Appendix A for the field layout.)

# 6. Exported Options

#### **6.1.** Menus

This package exports the menus. The main menu is *Drug Accountability Menu* [PSA DRUG ACCOUNTABILITY MENU] option.

#### **Example: Drug Accountability Menu**

```
1 GIP Interface Menu ...
2 Prime Vendor Interface ...
3 Return Drug Credit Menu ...
```

#### **6.1.1. GIP Interface**

If the site will only interface with the Generic Inventory Package (GIP), the *GIP Interface Menu* [PSA GIP INTERFACE MENU] option must be distributed to Chief of Pharmacy or a designee. It contains the following menus.

```
Connection Menu (DRUG file/ITEM MASTER file) ...
Pharmacy Location Maintenance Menu ...
Receipts Menu ...
Dispensing Menu ...
Maintenance Reports Menu ...
```

#### **6.1.2.** Prime Vendor Interface

If the site will interface with the prime vendor invoice data, the *GIP Interface Menu* [PSA GIP INTERFACE MENU] option and *Prime Vendor Interface menu* [PSA PRIME VENDOR INTERFACE] option must be distributed. Most drugs will be purchased from the prime vendor. For the drugs that cannot be purchased from the prime vendor, it is necessary to interface with the Generic Inventory Package to receive them into pharmacy location and/or master vault. Therefore, the main menu of *Drug Accountability Menu* [PSA DRUG ACCOUNTABILITY MENU] option must be distributed to Chief of Pharmacy, or a designee, plus the purchasing agent in Pharmacy.

#### 6.1.3. Return Drug Credit Menu

The *Return Drug Credit Menu* [PSA RET DRG MENU] option is accessible for users holding the PSORPH (pharmacist key) security key. Other users must be assigned the PSORET security key before they can access this menu.

```
Batch Work List [PSA RET DRG BATCH WORKLIST]
Batch Complete List [PSA RET DRG BAT COMPLETE LIST]
View/Update Batch [PSA RET DRG VIEW/UPDATE BATCH]
Return Drug Credit Report [PSA RET DRG REPORT]
```

# **6.2.** Options

This package exports the following options.

OPTION	MENU TEXT			
PSA ACTIVE DRUGS/ITEM FILE	Active, Unlinked Drugs in the ITEM			
	MASTER file			
PSA BALANCE ADJUSTMENTS	Balance Adjustments			
	Locked by the PSAMGR key			
PSA BALANCE ADJUSTMENTS REPORT	Balance Adjustments History			
PSA BALANCE INITIALIZE	Balance Initialization			
PSA COMPARISON REPORT	DRUG file/ITEM MASTER file Comparison			
	Report			
PSA CONNECTION MENU	Connection Menu (DRUG file/ITEM			
	MASTER file)			
PSA CP TRANSACTION REVIEW	Control Point Transaction Review			
PSA CREDIT RESOLUTION	Credit Resolution			
	Locked by the PSAMGR key			
PSA DELETE INVOICES	Delete Un-processed Invoices			
PSA DISPENSING MENU	Dispensing Menu			
PSA DISPLAY CONNECTED DRUG	Display Connected Drug and Procurement			
	History			
PSA DISPLAY LOCATION	Drug Balances by Location			
PSA DRUG ACCOUNTABILITY MENU	Drug Accountability Menu			
PSA DRUG DISPLAY	Drug Transaction History			
PSA DRUG ENTER/EDIT	Enter/Edit a Drug			
PSA DRUG HISTORY	Drug Receipt History Review			
PSA DRUG INQUIRE	Inquire/Compare DRUG file/ITEM MASTER			
	file			
PSA DRUGS NOT IN INVENTORY	Drugs Not Found in Linked Inventory			
PSA EDIT VERIFIED INVOICE	Edit Verified Invoices			
PSA FSN AUTO LOOP	Automated DRUG/ITEM MASTER file Link			
	by FSN			
PSA FSN CONTROL LOOP	Controlled Connection by FSN Match			
PSA FSN MENU	FSN Menu			
PSA FSN REPORT	Report Potential FSN Matches			
PSA GIP COMPARE	Physical Inventory Balance Review			
PSA GIP CONT BAL UPDATE	Update Prices			
PSA GIP DISCREPANCIES	Compare Prices (DA/GIP)			
PSA GIP INTERFACE MENU	GIP Interface Menu			
PSA GIP LINK REPORT	Report of Inventory Items' Link to DRUG file			
PSA GIP LOCATION MENU	Pharmacy Location Maintenance Menu			
PSA GIP MAINTENANCE RPT MENU	Maintenance Reports Menu			
PSA GIP MENU	Inventory Interface			

OPTION	MENU TEXT				
PSA GIP POPULATE	Populate Pharmacy Location with Inventory				
	Items				
PSA GIP REPORT	Loadable Inventory Items Report				
PSA GUI UPLOAD	UPLOAD UTILITY				
PSA INVOICE COST SUMMARY	Invoice Cost Summary				
PSA INVOICE REVIEW	Invoice Review				
PSA IV ALL DRUGS	IV Dispensing (All Drugs)				
PSA IV ALL LOCATIONS	All Location Dispense/Purge				
PSA IV SINGLE	IV Dispensing (Single Drug)				
PSA LOCATION EDIT	Set Up/Edit a Pharmacy Location				
PSA MONTHLY SUMMARY	Monthly Summary				
PSA MSG RECIPIENTS	Setup Mail Message Recipients				
PSA NDC AUTO LOOP	Automated DRUG/ITEM MASTER file Link				
	by NDC				
PSA NDC CONTROL LOOP	Controlled Connection by NDC Match				
PSA NDC DUPLICATE REPORT	NDC Duplicates Report (ITEM MASTER file)				
PSA NDC MENU	NDC Menu				
PSA NDC REPORT	Report Potential NDC Matches				
PSA OP ALL DRUGS	Outpatient Dispensing (All Drugs)				
PSA OP SINGLE	Outpatient Dispensing (Single Drug)				
PSA ORDERS ALERT	Prime Vendor Processing/Verifying Alerts at				
	Signon				
PSA ORDERS MENU	Orders Menu				
	Locked by the PSA ORDERS key				
PSA OUTDATED MEDICATIONS	Outdated Medications				
PSA OUTSTANDING CREDITS	Outstanding Credits				
PSA POSTED DRUG REPORT	Posted Drug Procurement History				
PSA PRIME VENDOR INTERFACE	Prime Vendor Interface Menu				
PSA PRINT ORDERS	Print Orders				
	Locked by the PSA ORDERS key				
PSA PROCESS PRIME VENDOR DATA	Process Uploaded Prime Vendor Invoice Data				
	Locked by the PSA ORDERS key				
PSA PROCESSOR AND VERIFIER	Processor and Verifier				
	Locked by the PSA ORDERS key				
PSA PURCHASE ORDER REVIEW	Purchase Order Review				
PSA PV DRUG ENTER/EDIT	Enter/Edit a Drug				
PSA PV LOCATION MENU	Pharmacy Location Maintenance Menu				
PSA PV MAINTENANCE RPT MENU	Maintenance Reports Menu				
PSA RECEIPT MENU	Receiving Menu				
PSA RECEIPTS MENU	Receipts Menu				
PSA RECEIVING	Receiving Directly into Drug Accountability				
PSA RET DRG BAT COMPLETE LIST	Batch Complete List				
PSA RET DRG BATCH WORKLIST	Batch Work List				
PSA RET DRG MENU	Return Drug Credit Menu				

OPTION	MENU TEXT			
PSA RET DRG REPORT	Return Drug Credit Report			
PSA RET DRG VIEW/UPDATE BATCH	View/Update Batch			
PSA SINGLE DRUG MATCH	Single Drug Match			
PSA STOCK & REORDER LEVEL RPT	Stock and Reorder Level			
PSA STOCK AND REORDER LEVELS	Enter/Edit Stock and Reorder Levels			
PSA TRANSFER DRUGS	Transfer Drugs Between Pharmacies			
	Locked by the PSAMGR key			
PSA TRANSFER SIGNATURE SHEET	Transfer Signature Sheet			
PSA UNLINKED LOOP	Connect Unlinked DRUG/ITEM MASTER file			
	Entries			
PSA UNLINKED REPORT	Report of Unlinked DRUG/ITEM MASTER			
	file Entries			
PSA UNPOST PROCUREMENT HISTORY	Unposted Procurement History			
PSA UPLOAD PRIME VENDOR DATA	Upload and Process Prime Vendor Invoice			
	Data			
	Locked by the PSA ORDERS key			
PSA VERIFY INVOICES	Verify Invoices			
	Locked by the PSA ORDERS key			

# 7. Archiving and Purging

## 7.1. Archiving

At present, the DA V. 3.0 package does not provide for archiving of its data.

## 7.2. Purging

The DRUG ACCOUNTABILITY TRANSACTION file (#58.81) and the DRUG ACCOUNTABILITY ORDER file (#58.811) are purged by the same nightly job of *All Location Dispense/Purge*, [PSA IV ALL LOCATIONS] option. All transactions greater than 120 days in the DRUG ACCOUNTABILITY TRANSACTION file (#58.81) are purged. The orders in the DRUG ACCOUNTABILITY ORDER file (#58.811) are purged if they are greater than the number of days in the DRUG ACCOUNTABILITY STATS file's (#58.8) DAYS TO KEEP INVOICE DATA field (#35) or greater than 120 days if the field is blank. This job should be scheduled to run during non-peak hours to lessen the impact on system operations. Once scheduled, this job will reschedule to run again every 24 hours.

# 8. Callable Routines

None of the DA V. 3.0 package routines are designed for calling outside of the package.

# 9. External Relations

DA V. 3.0 has IA agreements with Automatic Replenishment/Ward Stock, Controlled Substances, Inpatient Medications, Outpatient Pharmacy, National Drug File, Pharmacy Data Management, and Kernel. For complete information regarding the IA agreements for DA V. 3.0, please refer to the *DBA* [DBA] menu option on FORUM and then the *Integration Agreements* option.

## 10. Internal Relations

This package does not require a Standards and Conventions Committee (SACC) agreement.

# 11. Package-Wide Variables

This package does not contain any package-wide variables.

# 12. Software Product Security

## **12.1.** Legal Requirements

This package does not impose any additional legal requirements on the user, nor does it relieve the user of any legal requirements.

## 12.2. Sign-On Event

# Prime Vendor Processing/Verifying Alerts at Signon [PSA ORDERS ALERT]

The *Prime Vendor Processing/Verifying Alerts at Signon* [PSA ORDERS ALERT] option checks to see if there are any invoices that need to be processed or verified by a user that holds the PSA ORDERS key. If so, a message is displayed when the user signs on the system stating the number of invoices the user needs to process and/or verify.

# **12.3.** Electronic Signatures

Electronic signatures may be established in two ways. The IRM service can enter a code for the user. Alternately, the *Electronic Signature code Edit* [XUSESIG] option is provided by Kernel for the user to accomplish this task. In Kernel V. 8, the *Electronic Signature code Edit* [XUSESIG] option has been tied to the *User's Toolbox* [XUSERTOOLS] submenu, for easy access by all users.

## 12.4. Security Keys used in DA

The security keys listed below control the access necessary to operate the DA V. 3.0 software.

#### **GIP Interface**

The following keys should be assigned to the Chief of Pharmacy or a designee.

PSAMGR This security key locks the *Balance Adjustments* [PSA

BALANCE ADJUSTMENTS] option, Credit

Resolution [PSA CREDIT RESOLUTION] option, and

the Transfer Drugs Between Pharmacies [PSA

TRANSFER DRUGS] option.

#### **Prime Vendor Interface**

The following keys should be assigned to the Chief of Pharmacy or a designee.

PSAMGR This security key locks the *Balance Adjustments* [PSA

BALANCE ADJUSTMENTS] option, *Credit Resolution* [PSA CREDIT RESOLUTION] option,

Delete Unprocessed Invoices [PSA DELETE

INVOICES] option, *Edit Verified Invoices* [PSA EDIT VERIFIED INVOICE] option, *Outdated Medications* [PSA OUTDATED MEDICATIONS] option, *Setup Mail Message Recipients* [PSA MSG RECIPIENTS] option, and the *Transfer Drugs Between Pharmacies* 

[PSA TRANSFER DRUGS] option.

PSA ORDERS This security key locks the *Orders Menu* [PSA

ORDERS MENU] option, *Credit Resolution* [PSA CREDIT RESOLUTION] option, *Print Orders* [PSA PRINT ORDERS] option, *Process Uploaded Prime Vendor Invoice Data* [PSA PROCESS PRIME VENDOR DATA] option, and *Verify Invoices* [PSA

VERIFY INVOICES] option.

This key should be assigned to the Pharmacy purchasing agent.

PSA ORDERS This security key locks the *Orders Menu* [PSA

ORDERS MENU] option, Credit Resolution [PSA CREDIT RESOLUTION] option, Print Orders [PSA PRINT ORDERS] option, Process Uploaded Prime Vendor Invoice Data [PSA PROCESS PRIME

VENDOR DATA] option, and Verify Invoices [PSA

VERIFY INVOICES] option.

#### **Return Drug Credit Menu**

At least one of the following keys should be assigned to the Chief of Pharmacy or a designee.

PSARET, PSORPH

These security keys lock the *Batch Work List* [PSA RET DRG BATCH WORK LIST] option, *Batch Complete List* [PSA RET DRG BATCH COMPLETE LIST] option, *View/Update Batch* [PSA RET DRG VIEW/UPDATE BATCH] option, and the *Return Drug Credit Report* [PSA RET DRG REPORT] option.

#### **12.5.** File Security

This package requires 23 files in addition to those of the Kernel and other files to which it points, for example, the PATIENT file (#2). Information about all files, including these can be obtained by using the VA FileMan to generate a list of file attributes.

FILE NUMBERS	File Names	D D	R D	W R	DEL	LAYGO
58.8	DRUG ACCOUNTABILITY STATS	@	@	@	@	@
58.81	DRUG ACCOUNTABILITY	@	@	@	@	@
	TRANSACTION					
58.811	DRUG ACCOUNTABILITY ORDER	@	@	@	@	@
58.812	DA UPLOAD	@	@	@	@	@
58.84	DRUG ACCOUNTABILITY	@	@	@	@	@
	TRANSACTION TYPE					
50	DRUG	@				

# 12.6. Mail Groups

DA V. 3.0 uses two mail groups for transferring information to the user.

#### **PSA NDC UPDATES**

This mail group is accessed to determine the personnel who should be notified by the DA V. 3.0 software when an item's price or NDC has changed.

#### PSA REORDER LEVEL

This mail group contains the personnel who are to receive the message generated for the drugs whose stock level has fallen below the reorder level. Previously, anyone holding the PSA ORDERS key would receive this message.

# 13. Glossary

**DA** Acronym for **D**rug **A**ccountability/Inventory Interface

V. 3.0.

FSN Acronym for Federal Stock Number.

GIP Acronym for Generic Inventory Package that

automatically generates purchase orders and manages

inventory.

Master Vault An inventory location created to store a select group of

controlled substances and track their balance and

activity.

**Pharmacy Location** An inventory location created to store a select group or

all of non-controlled drugs to track their balance and

activity.

**Prime Vendor** A vendor who is on contract with the VA to be the main

supplier of drugs.

**Process Invoices** To process invoices, the prime vendor's invoice data is

matched to the data in **V***ISTA* and the data is validated. Matching is accomplished by comparing the line item data on the invoice with its entry in the DRUG file (#50). Validating is accomplished by confirming the quantity received verses the quantity invoiced. Anyone holding the PSA ORDERS key can process the invoice.

VISTA Acronym for Veterans Health Information Systems and

Technology Architecture.

**XTMP file** The XTMP file is a temporary file that holds the

uploaded invoices that have not been processed. The

invoice data remains in this file up to 21 days.

### 14. Appendix A - XTMP("PSAPV") Global Layout

#### 14.1. ^XTMP("PSAPV",CTRL#,"IN") – Invoice data

Piece 1	Invoice Date
Piece 2	Invoice Number
Piece 3	Order Date
Piece 4	Order Number
Piece 5	Delivery Date Requested
Piece 6	Invoice's Delivery Date
Piece 7	Pharmacy Location IEN – File #58.8 IEN
Piece 8	Invoice Status ("OK"= Uploaded no errors "P"= Processed, ""=Uploaded
	with errors)
Piece 9	"CS" if at least 1 item is a CS
Piece 10	"ALL CS" if all items are CS
Piece 11	Date Drugs Received
Piece 12	Master Vault IEN File #58.8 IEN
Piece 13	"SUP" if all supplies items on invoice

#### 14.2. XTMP("PSAPV",CTRL#,"IT",LINE ITEM#) – Line Item Data

Piece 1	Quantity
Piece 2	Unit of Measure ~ FILE #51.5 IEN
Piece 3	Unit Price
Piece 4	NDC ~ # with same NDC ~ Different Vendor Stock Number (VSN) ~ "1"
	if overwrite
Piece 5	VSN ~ # with same VSN ~ Different NDC
Piece 6	File #50 IEN
Piece 7	File #50 SYNONYM IEN ~ New SYNONYM?
Piece 8	Adjusted Quantity
Piece 9	Adjusted Quantity DUZ
Piece 10	Adjusted Quantity Date
Piece 11	Adjusted Quantity Reason
Piece 12	Adjusted File #51.5 IEN
Piece 13	Adjusted Order Unit DUZ
Piece 14	Adjusted Order Unit Date
Piece 15	Adjusted File #50 IEN
Piece 16	Adjusted File #50 IEN DUZ
Piece 17	Adjusted File #50 IEN Date
Piece 18	Line Item Status (""=Uploaded With Errors, "OK"= Uploaded Without
	Errors, "P" = Processed)

Piece 19	"CS" if item is a CS
Piece 20	Dispense Units per Order Unit
Piece 21	Reorder Level
Piece 22	Invoice's. Price per Order Unit Correct?
Piece 23	File Price per Order Unit
Piece 24	Price per Order Unit DUZ
Piece 25	Price per Order Unit Date
Piece 26	Universal Product Code (UPC) ~ # with same UPC ~ Different UPC
Piece 27	Stock Level
Piece 28	Generic Description
Piece 29	Item Description
Piece 30	Inner Pack Unit of Measure Code (i.e. # pills in bottle)
Piece 31	Package Size (i.e. # bottles in sell unit)

# 14.3. XTMP("PSAPV",CTRL#,"IT",LINE ITEM#, "SUP") – Supply Line Item Data

Piece 1 DUZ Piece 2 Date

Piece 3 "SUPPLY ITEM" or Supply item description

#### 15. Appendix B - Invoice file with formatting errors

The data is sent from the prime vendor in the Accredited Standards Committee (ASC) X12 release 3.2 formatting for an invoice transaction (set #810). The formatting specifications document is ASC X12 Electronic Data Interchange Draft Specifications for Prime Vendor Interface with Decentralized Hospital Computer Program. It is part of the contract between the VA and the prime vendor. The DA V. 3.0 software checks the INVOICE.DAT formatting to assure formatting rules have been followed. There are many rules that may cause an error.

Many different errors may be listed under the "ERROR MESSAGES:" section on the screen.

In the following table, the reason the error message was displayed and the actions needed to fix the error are listed.

Problem Explanation	Action
INVOICE.DAT contains data out of sequence,	1. DO NOT upload more data until this
missing data, and/or incorrect data.	problem is resolved.
	2. Record or screen print the errors.
	3. Call the prime vendor and report all errors.
	4. Instruct the prime vendor to create a new
	corrected INVOICE.DAT file.
	5. Delete INVOICE.DAT and INVCRC.DAT
	from the PCs root directory.
	6. When the corrected data is ready, retrieve
	the invoice data from the prime vendor
	again.
	7. Upload the new invoice data.

In the following table, the reason the error message was displayed and the action needed to fix the error are listed.

Problem Explanation	Action
The data element or segment terminator in INVOICE.DAT is null. They can never be null.	<ol> <li>DO NOT upload more data until this problem is resolved.</li> <li>Call the prime vendor and report the error.</li> <li>Instruct the prime vendor to create a new corrected INVOICE.DAT file.</li> <li>Delete INVOICE.DAT and INVCRC.DAT from the root directory on Pharmacy's prime vendor PC.</li> <li>When the corrected data is ready, retrieve the invoice data from the prime vendor again.</li> <li>Select the <i>Upload and Process Prime Vendor Invoice Data</i> [PSA UPLOAD PRIME VENDOR DATA] option again to upload the new invoice data.</li> </ol>

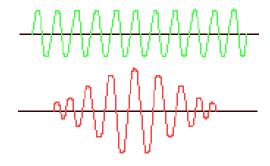
The software looks at the uploaded unprocessed and processed invoices to see if the incoming invoices have already been received. If so, the invoice number, invoice date, order number, order date, and invoice status is displayed.

There are no valid invoices to process.

Problem Explanation	Action
All of the invoices that were just uploaded	Do nothing.
were previously uploaded and/or processed.	
There are no invoices to process.	

# **16. Appendix C - ASC X12 Electronic Data Interchange Draft Specifications**

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# ASC X12 Electronic Data Interchange Draft Specifications

for Prime Vendor Interface

with Decentralized Hospital Computer Program (DHCP)

**May 1995** 

Department of Veteran Affairs Information Systems Center Birmingham, Alabama

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## **ASC X12, Electronic Data Interchange Prime Vendor Interface Specifications**

#### 1. Purpose

This document specifies an interface to the Decentralized Hospital Computer Program (DHCP) based on the ASC X12 Protocol for Electronic Data Interchange (EDI). It is the intent that this interface form the basis for creating export files compatible with the DHCP Prime Vendor Interface. Outlined are the segments and data elements which will be used by all prime vendors to export Invoice data to such an interface. The segments and data elements which are used from the 810 transaction set will still be in strict accordance with the ASC X12 Standard as set forth in the Draft Version 3 Release 2. It is the responsibility of the Department of Veteran Affairs, Birmingham Information Systems Center (ISC) to update these guidelines for the 810 transaction set as it pertains to the prime vendor. The following information is provided as a specific guide, however, the vendor shall refer to ASC X12 Version 3 Release 2 documentation for details concerning the general rules and standards of the ASC X12 810 transaction set.

#### 2. Overview

#### 2.1 Statement of Intent

Birmingham Information Systems Center (ISC) plans to implement a generic interface to DHCP for prime vendors exporting invoice files to be used within DHCP. The vendor will continue to provide the normal paper invoices and related documents as agreed upon prior to this interface. The file format will adhere to the ASC X12 Standard, Draft Version 3 Release 2 and the guidelines as set forth in this document. This form of EDI seems to be prevalent within the health care industry and the method for exchange of information will be compatible in the future should the Department of Veterans Affairs decide to implement interactive EDI.

#### 2.2 Scope and Audience

This document describes the file format for electronic invoicing data as exported by prime vendors. It is intended for use by vendors offering proposals concerning prime vendor contracts and provides guidelines on the specific data and data format required for a successful interface with DHCP.

#### 3. General Specifications

#### 3.1 Segment Requirement Designators

M = Required by the ASC X12 Version 3 Release 2 Standard or as a part of the Prime Vendor Interface specifications.

R = Required by DHCP

O = Optional

#### 3.2 Data Element

#### A. Data Element Types

AN = String containing letters, digits, spaces, and/or special characters

DT = Date

ID = Identifier

N = Numeric

R = Decimal

TM = Time

#### B. Data Element Length

The Data Element length is the range, minimum to maximum, of the number of character positions available to represent the data element.

#### 3.3 Data Element Descriptions

Table 1: Interchange Control Header

Reference		Data Element Data Element						
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code		
ISA01	I01.	Authorization Information Qualifier This qualifier identifies the type of information in the Authorization information.	М	ID	2/2	00 - No Authorization Information Present		
ISA02	102	Authorization Information This information is used for additional identification or authorization of the sender or the data in the interchange.	М	AN	10/10	Leave blank		
ISA03	103	Security Information Qualifier  This qualifier is used for identifying the type of information in the security information	М	ID	2/2	00 - No Security Information Present		
ISA04	104	Security Information This is used for identifying the security information about the sender of the data in the interchange.	М	AN	10/10	Leave blank		
ISA05	105	Interchange ID Qualifier This qualifier indicates the system (or method) of code structure used to designate the sender or receiver ID element that is being qualified.	М	ID	2/2	ZZ - Mutually Defined		
ISA06	106	Interchange Sender ID This is the identification code of the sender.	М	AN	15/15	Dunn & Bradstreet number or vendor telephone number		
ISA07	105	Interchange ID Qualifier  This qualifier indicates the system (or method) of code structure used to designate the sender or receiver ID element that is being qualified.	М	ID	2/2	ZZ - Mutually Defined		
ISA08	107	Interchange Receiver ID  This is the identification code of the receiver of the data.	М	AN	15/15	588 or Customer Account Number		
ISA09	108	Interchange Date This is the date in YYMMDD format	М	DT	6/6			

Table 1: Interchange Control Header - Continued

Reference			Data Element			
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
ISA10	109	Interchange Time Time is expressed in 24-hour clock time (HHMMSS). The time range is 000000 through 235959.	М	TM	4/4	
ISA11	l10	Interchange Control ID  This code identifies the agency responsible for the control standard used by the message.	М	ID	1/1	U - U.S. EDI Community of ASC X12, TDCC, & UCS
ISA12	I11	Interchange Version Number This is the version number of the interchange control segments.	M	TM	5/5	00200 - Standard Issued as ASNI X12.5 - 1987
ISA13	l12	Interchange Control Number This number uniquely identifies the interchange data to the sender. Note: This is the same number as in the IEA02 data element.	М	N	9/9	
ISA14	l13	Acknowledgment Requested This is sent by the sender to request an interchange acknowledgment.	M	ID	1/1	0 - No acknowledgment requested
ISA15	l14	Test Indicator This indicates whether data enclosed by this interchange envelope is test or production.	М	ID	1/1	P - Production
ISA16	I15	Sub-element Separator Reserved for future expansion in separating data element subgroups. It must be different from the data element separator.	М	AN	1/1	

Table 2: Functional Group Header

Sample: GS^IN^999999^588^950214^1005^012345678^X^003020~

Reference		Data Element					
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code	
GS501	479	Functional ID Code This code identifies a group of application related transaction sets.	М	ID	2/2	IN - Invoice	
GS02	142	Application Sender's Code This code identifies the party sending the transmission. The codes are agreed to by the trading partners.	М	AN	2/15	Dunn & Bradstreet number or vendor telephone number	
GS03	124	Application Receiver's Code This code identifies the party receiving the transmission. The codes are agreed to by the trading partners.	М	AN	2/15	588 or Customer Account Number	
GS04	373	<b>Date</b> The date is in YYMMDD format.	М	DT	6/6		
GS05	337	Time Time is expressed in 24-hour clock time ( HHMMSS). The time range is 000000 through 235959.	М	TM	4/6		
GS06	28	Group Control Number This is an assigned number that is initiated and maintained by the sender Note: This is the same Group Control Number as in the GE102 data element.	М	N	1/9		
GS07	455	Responsible Agency Code This is used with data element GS08 to identify the issuer of the standard.	М	ID	1/2	X - Accredited Standards Committee X12	
GS08	480	Version/Release/Industry Identifier Code This indicates the version, release, subrelease, and industry identifier (including GS and GE segments) of the EDI standard being used.	М	AN	1/12	003020 - Draft Standards Approved by ASC X12 though June 1991.	

Table 3: Transaction Set Header (ST)

Sample: ST^810^000000022~

Reference		Data Element				
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
ST01	143	Transaction Set ID Code This code is a unique identification of a transaction set.	М	ID	3/3	810 - X12.2 Invoice
ST02	329	Transaction Set Control Number The control number is assigned by the originator for the transaction set. The entry a four-digit number with leading zeros beginning with 0001 at the start of a new entry. It increments by one (+1) for every transaction set exported on that business day. Note: This is the same control number as in the SE02 data element	М	AN	4/9	

Table 4: Beginning Segment for Invoice (BIG)

Sample: BIG^950214^201^950214^P2O01~

Reference			Data Element			
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
BIG01	245	Invoice Date This is the invoice issue date.	M	DT	6/6	
BIG02	76	Invoice Number The number is the identifying number assigned by issuer.	M	AN	1/22	
BIG03	323	Purchase Order Date This date is assigned by the Department of Veterans Affairs.	R	DT	6/6	
BIG04	324	Purchase Order Number This is the identifying purchase order number as assigned by the Department of Veterans Affairs .	R	AN	1/22	
BIG05 thru BIG07		not used				

Table 5: Reference Numbers (REF)

Sample: REF^CR^23201~ REF^TJ^102030~

Reference			Data Element					
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code		
REF01	128	Reference Number Qualifier The code qualifies the reference number.	М	ID	2/2	CR - Customer Reference Number TJ - Federal Taxpayer's Identification Number		
REF02	127	Reference Number  If the Reference Number Qualifier REF01 is CR, enter the customer account number. If the Reference Number Qualifier is TJ, enter the federal taxpayer's identification number.	R	AN	1/30			
REF03		not used						

Table 6: Name (N1)

#### Sample: N1^BY^VA MEDICIAL CENTER^21^RA1000C00~ N1^DS^DRUGS DISTRIBUTOR INC.^21^KA1000R00~ N1^ST^VA MEDICAL CENTER^21^JR1000P00~

Reference			Data Element						
Designator	No.	Name and Description	Requirement Designator	Type	Length	Code			
N101	98	Entity Identifier Code This identifies an organizational entity or a physical location.	M	ID	2/2	BY - Buying Party (purchaser) DS - Distributor ST - Ship To			
N102	93	Name This is a free-form name.	R	AN	1/35				
N103	66	Identification Code Qualifier This designates the system/method of code structure used for Identification Code (67).	R	ID	1/2	21 - Health Care Industry ID Number			
N104	67	Identification Code This code identifies the party (as indicated in data element N103)	R	ID	2/17	Health Industry Number (HIN) of the Buying Party (BY), Distributor (DS), and Ship To (ST)			

Table 7: Additional Name Information (N2) -- This segment is optional if N3 contains data.

Sample: N2^DEPARTMENT OF VETERANS AFFAIRS~ N2^DEPARTMENT OF VETERANS AFFAIRS^~

Reference		Data Element				
Designator	No.	Name and Description	Requirement	Type	Length	Code
			Designator			
N201	93	Name	R	AN	1/35	
		This is a continuation of the free-form name in N201.				
N202	93	Name	0	AN	1/35	
		This is a continuation of the free-form name in N201.				

Table 8: Address Information (N3) -- This segment is optional if N2 contains data.

Sample: N3^123 VETERANS BLVD.~ N3^456 DRUG LANE~

N3^123 VETERANS BLVD.^RECEIVING DEPT.~

Reference		Data Element				
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
N301	166	Address Information	M	AN	1/35	
N302	166	Address Information	0	AN	1/35	

Table 9: Geographic Location (N4)

Sample: N4^LOUISVILLE^KY^40202~ N4^LEXINGTON^KY^40601~

N4^LOUISVILLE^KY^40202~

Reference			Data Element			
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
N401	19	City Name This is free-form text for the city name.	M	AN	2/19	
N402	156	State or Province Code This is the standard U.S. two letter state abbreviation.	M	ID	2/2	
N403	116	Postal Code This code defines international postal. Note: The U.S. zip code is either 5 digits or 5 digits + 4 digits separated by a dash (e.g., 231434595)	М	ID	4/9	
N404-N406		not used				

Table 10: Terms of Sale/Deferred Terms of Sale (ITD) -- Optional segment.

Sample: ITD^14^^950301^15^950302^16^34.67~

Reference			ata Element			
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
ITD01	336	Terms Type Code This identifies the type of payment terms.	0	ID	2/2	14 - Previously Agreed Upon
ITD02		not used				
ITD03	338	Terms Discount % This is the terms of the discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.	0	R	1/6	
ITD04	370	Terms Discount Due Date This is the date payment is due if the discount is to be earned. The date is in YYMMDD format.	0	DT	6/6	
ITD05	351	Terms Discount Days Due This is the number of days in the terms discount period by which payment is due if the terms discount is earned.	0	N	1/3	
ITD06	446	Terms Net Due Date This is the date when the total invoice amount becomes due.	0	DT	6/6	
ITD07	386	Terms Net Days This is the number of days until the total invoice amount is due (discount is not applicable).	0	N	1/3	
ITD08	362	Terms Discount Amount This is the total amount of the terms discount.	0	N	1/10	
ITD09 thru ITD15		not used				

Table 11: Date/Time Reference (DTM)

Sample: DTM^002^950210~ DTM^035^950212~

Reference		Data Element				
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
DTM01	374	Date/Time Qualifier This specifies the type of date and/or time.	M	ID	3/3	002 - Delivery Requested 035 – Delivered
DTM02	373	Date This is in YYMMDD format.	R	DT	6/6	
DTM03 & DTM05		not used				

Table 12: Baseline Item Data (Invoice) (IT1)

Sample: IT1^1^12^CC^9.32^DS^ND^00032227780^VN^46789~

Reference			Data Element						
Designator	No.	Name and Description	Requirement	Туре	Length	Code			
			Designator						
IT101	350	Assigned Identification	R	AN	1/11				
		The ID consists of alphanumeric characters assigned for							
		differentiation within a transaction set. Note: This data							
		element contains the line item number in order of							
		appearance on the invoice. The format is positive numbers							
IT102	358	with no decimal places.  Quantity Invoiced	M	R	1/10				
11102	336	The quantity is the number of units involved.	IVI	K	1/10				
IT103	355	Unit of Measure Code	M	ID	2/2	See the data element's			
11 103	333	This code identifies the basic unit of measure as follows:	IVI	טו	2/2	description.			
		AM Ampoule JR Jar				docomption.			
		BG Bag KG Kilogram							
		BI Bar LB Pound							
		BO Bottle ME Milligram							
		BX Box ML Milliliter							
		CC Cubic Centimeter OZ Ounce							
		KA Cake PK Package							
		CN Can PH Pack (PAK) CH Container PT Pint							
		CH Container PT Pint CA Case QT Quart							
		CT Carton RA Rack							
		DI Dispenser RL Roll							
		DR Drum ST Set							
		EA Each TY Tray							
		GA Gallon TB Tube							
		GR Gram VI Vial							
IT104	212	Unit Price	M	R	1/14				
		This is the price per unit of product.							

Table 12: Baseline Item Data (Invoice) (IT1) - Continued

Reference			Data Element			
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code
IT105	639	Basic Unit Price Code This identifies the type of unit price for an item.	R	ID	2/2	DS - Discount
IT106	235	Product/Service ID Qualifier This identifies the type or source of the descriptive number used in the Product/Service ID (IT107).	R	ID	2/2	ND - National Drug Code (NDC)
IT107	234	Product/Service ID  This is an identifying number for a product or service as indicated by IT106. Enter the product's national drug code.	R	AN	12/12	
IT108	235	Product/Service ID Qualifier This code identifies the type or source of the descriptive number used in the Product/Service ID (IT109).	R	ID	2/2	VN - Vendor's Item Number
IT109	234	Product/Service ID  This is an identifying number for a product or service as indicated by IT108. Enter the vendor's item number.	R	AN	1/30	
IT110	235	Product/Service ID Qualifier This identifies the type or source of the descriptive number used in the Product/Service ID (IT111) for medical supplies.	R	ID	2/2	UP - UPC Consumer Package Code
IT111	234	Product/Service ID  This is an identifying number for a product or service as indicated by IT110. Enter the product's consumer package code for medical supplies.	R	AN	1/30	
IT112 thru IT125		not used				

Table 13: Transaction Totals (CTT)

Sample: CTT^2^^^^CLOSED~

Reference		Data Element					
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code	
CTT01	354	Number of Line Items This is the total number of IT1 line items in the transaction set.	M	N	1/6		
CTT02 thru CTT06		not used					
CTT07	352	Description This description is the purchase order status. If all items on the purchase order have been shipped, enter the word Closed. If items on the purchase order are outstanding, enter the word Partial.	R	AN	1/80	Closed Partial	

Table 14: Transaction Set Trailer (SE)

Sample: SE^23^000000022~

Reference		Data Element					
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code	
SE01	96	Number of Included Segments This is the total number of segments in the transaction set including ST and SE segments.	М	N0	1/6		
SE02	329	Transaction Set Control Number  The control number is assigned by the originator for the transaction set.  Note: This is the same control number as in the ST02 data element.	М	AN	4/9		

Table 15: Functional Group Trailer

Sample: GE^1^012345678~

Reference		Data Element				
Designator	No.	Name and Description	Requirement	Type	Length	Code
			Designator			
GE01	97	Number of Transaction Sets Included	М	ID	1/6	1
		This is the total number of transaction sets included in the				
		functional group or interchange (transmission) group				
		terminated by the trailer containing this element. There is				
		only one transaction set of 810.				
GE02	28	Group Control Number	M	No	1/9	
		This is the assigned number that is initiated and maintained				
		by the sender. Note: This is the same Group Control				
		Number as in the GS06 data element.				

Table 16: Interchange Control Trailer

Sample: IEA^1^900456789~

Reference		Data Element						
Designator	No.	Name and Description	Requirement Designator	Туре	Length	Code		
IEA01	I16	Number of Included Functional Groups This is the number of functional groups included in a transmission. There is only one transaction type.	M	N	1/5	1		
IEA02	l12	Interchange Control Number This uniquely identifies the interchange data to the sender. Note: This is the same number as in the ISA13 data element.	М	N	9/9			

#### 3.4 Implementation and Control Structure

#### A. Implementation

The vendor will provide the export file as described in this document. This export file should be available to DHCP, in the user's personal computer operating system, no later than 7:00 A.M. (VAMC site local time) of the scheduled delivery day of the confirmed invoice transaction. This will allow for the information to be processed into DHCP in a timely manner. This file will be located in the Root Directory (i.e., C:\) and will be named INVOICE.DAT. If more than one invoice is to be exported for the same business day or if the file already exists from previous exports, subsequent transaction sets will be appended to the INVOICE.DAT file. A file containing the Cyclical Redundancy Check (CRC) value of the export file (INVOICE.DAT) will also be exported as outlined below. This file will also be in the Root Directory on the user's PC. The CRC value will be recalculated and a new .CRC file will be created in place of the previous one every time a new transaction set is appended to the INVOICE.DAT file. It will be named with the same 8 character name as the export file and have an extension of .CRC (i.e., INVOICE.CRC). The following is the format for the CRC file:

#### INVOICE.DAT^2043^CRC~

Where INVOICE.DAT is the export file name and 2043 is the CRC value. This file will not contain any other data whatsoever.

NOTE: This does not preclude the vendor from providing the normal paper invoices and related documents as agreed upon prior to this interface.

#### B. Control Structure

The INVOICE.CRC file will use the caret (^) as the data element delimiter and the tilde (~) as the segment line terminator followed by a carriage return. In the INVOICE.DAT file, the data element delimiter and segment line terminator are defined in the ISA segment. Segments do not have to be terminated by a carriage return. The transaction set should look like the sample on page 21. Segment lines cannot exceed 245 characters each. All other rules of ASC X12 Draft Version 3 Release 2 apply.

#### C. Segment Layout

ISA <							
GS <							
ST <		į					
BIG	1	į	i				
REF	i	İ	i				
N1		i	i				
N2			i				
N3	I	G	i				
N4	N	R	I				
ITD	V	O	N				
DTM	O	Ü	T				
IT1 <	I	P	İΕ				
line items	C	i	R				
IT1 <	E	O	ic				
CTT	i	F	H				
SE <		į	A				
ST <	I	N					
BIG		ĺN	G				
REF	I	į V	E				
N1	N	O					
N2	V	I	D				
N3	O	C	A				
N4	I	E	T				
ITD	C	S	A				
DTM	E						
IT1 <							
line items							
IT1 <							
CTT							
SE <							
GE <							
TT: A							

#### 3.5 Transaction Set 810 Examples

Electronic Invoice Transaction Set 810 (As Used for the Prime Vendor Interface)

The Prime Vendor sends one electronic invoice (INVOICE NUM) to a VA facility's pharmacy. The pharmacy is using the Tax Identification Number to uniquely identify the vendor, the product's National Drug Code (NDC) to cross-reference with the vendor's product item number, and the UPC Consumer Code to uniquely identify a medical supply. Data Element values in quotes (i.e., "PO NUM") are symbolic in nature and are not intended as the literal representation of valid data as in Example 1. Example 2 is a sample of what actual data might look like.

#### Example 1: Template of a Transaction Set

ISA^00^ ^00^ ^ZZ^"DUNN & BRADSTREET#"^ZZ^588 ^950214^ 1005^U^00200^"INTERCHANGE CONTROL #"^0^P^>~ GS^IN^"DUNN & BRADSTREET#"^588^950214^1005^"GROUP CONTROL #"^X^003020~ ST^810^"TRANACTION SET CONTROL #"~ BIG^950214^"INVOICE#"^950214^"PURCHASE ORDER#"~ REF^CR^"CONSUMER REFERENCE #"~ REF^TJ^"VENDOR'S FEDERAL TAX ID#"~ N1^BY^"BUYING PARTY NAME"^21^"HEALTH INDUSTRY ID#"~ N2^"BUYING PARTY NAME CONT."^"BUYING PARTY NAME CONT."~ N3^"ADDRESS INFO"^"ADDRESS INFO"~ N4^"CITY NAME"^"STATE CODE"^"ZIP CODE"~ N1^DS^"DISTRIBUTOR NAME"^21^"HEALTH INDUSTRY ID#"~ N2^"DISTRIBUTOR NAME CONT."^"DISTRIBUTOR NAME CONT."~ N3^"ADDRESS INFO"^"ADDRESS INFO"~ N4^"CITY NAME"^"STATE CODE"^"ZIP CODE"~ N1^ST^"SHIP TO NAME"^21^"HEALTH INDUSTRY ID#"~ N2^"SHIP TO NAME CONT."^"SHIP TO NAME CONT."~ N3^"ADDRESS INFO"^"ADDRESS INFO"~ N4^"CITY NAME"^"STATE CODE"^"ZIP CODE"~ ITD^14^^^"PAYMENT DATE"^15^"PAYMENT DUE DATE"^16^"TOTAL AMT"~ DTM^002^"DELIVERY REQUESTED DATE"~ DTM^035^"DELIVERY DATE"~ IT1^1^12^CC^9.32^DS^ND^"NDC#"^VN^VENDOR ITEM #^UP^ "UPC CONSUMER CODE"~ IT1^2^10^CA^21.50^DS^ND^"NDC#"^VN^VENDOR ITEM #^UP^ "UPC CONSUMER CODE"~ CTT^2^^^^CLOSED~ SE^23^"TRANSACTION SET CONTROL#"~ GE^1^"GROUP CONTROL #"~ IEA^1^"INTERCHANGE CONTROL #"~

#### Example 2: Mock Transaction Set

950214^1005^U^00200^900456789^0^P^>~

GS^IN^999999^588^950214^1005^012345678^X^003020~

ST^810^000000022~

BIG^950214^201^950214^P2O01~

REF^CR^23201~

REF^TJ^102030~

N1^BY^VA MEDICIAL CENTER^21^RA1000C00~

N2^DEPARTMENT OF VETERANS AFFAIRS~

N3^123 VETERANS BLVD.~

N4^LOUISVILLE^KY^40202~

N1^DS^DRUGS DISTRIBUTOR INC.^21^KA1000R00~

N3^456 DRUG LANE~

N4^LEXINGTON^KY^40601~

N1^ST^VA MEDICAL CENTER^21^JR1000P00~

N2^DEPARTMENT OF VETERANS AFFAIRS^~

N3^123 VETERANS BLVD.^RECEIVING DEPT.~

N4^LOUISVILLE^KY^40202~

ITD^14^^950301^15^950302^16^34.67~

DTM^002^950210~

DTM^035^950212~

IT1^1^12^CC^9.32^DS^ND^00032227780^VN^46789~

IT1^2^10^CA^21.50^DS^ND^00181053725^VN^878212~

CTT^2^^^^CLOSED~

SE^23^000000022~

GE^1^012345678~

IEA^1^900456789~

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