

# **CONTROLLED SUBSTANCES (CS)**

## **TECHNICAL MANUAL**

Version 3.0 March 1997

(Revised November 2018)

## **Revision History**

The table below lists changes made since the initial release of this manual. Use the Change Pages document to update an existing manual or use the entire updated manual.

Date	Revised	Patch	Description
Dute	Pages	Number	Description
11/2018	18, 40, 57	PSD*3*84	Updated the PSD DAILY LOG and PSD DAILY LOG TECH option descriptions to add the ^ALL CII DRUGS group name to search for all Schedule II drugs.  Updated the PSD OUTPATIENT option description to include a new prompt requiring pharmacists to enter a narcotic on-hand count that is confirmed against the VistA on-hand count.  Updated the number of routines in the CS package.  REDACTED
06/2018	97	PSD*3*82	Added NAOU Usage Report [PSD NAOU USAGE] option to the PSD TECH ADV key.  REDACTED
05/2013	i, 18-18b, 45	PSD*3*73	Added two new options to Descriptions table.  Added two new reports to Production Reports Menu.  REDACTED
05/2013	i, 41c, 96-98	PSD*3*76	Page 41c is no longer necessary and has been removed.  Updated Glossary with description of patch's new security key PSDRPH  REDACTED
04/2011	i, 15, 41- 41c, 97-98	PSD*3*71	Clarified description of PSD TECH ADV key. Corrected option name in PSD TRAN entry. Made revision to PSD PHARM TECH option description.  REDACTED
05/2010	15, 41-41c, 97-98	PSD*3*69	Added description of patch's new security key PSD TECH ADV, and options from the pharmacist menu added to the <i>Technician (CS Pharmacy) Menu</i> [PSD PHARM TECH], which allow holders of this new key to perform these additional functions.  REDACTED
08/08	24, 37, 39, 40	PSD*3*64	New menu options added to the Transfer Green Sheet Menu REDACTED
07/03	19-20, 44-45	PSD*3*40	Added two new reports associated with the Electronic Order Entry for Schedule II Controlled Substances project to the <i>Production Reports</i> [PSD PRODUCTION REPORTS] menu: <i>Digitally Signed CS Orders Report</i> [PSD DIGITALLY SIGNED ORDERS] and <i>Digitally Signed OP Released Rx Report</i> [PSD DIG. SIGNED RELEASED RX].
04/03	All	PSD*3*41	Updated the manual to Standards. Added the <i>CS Monitoring Menu</i> options and routines.
03/97			Original Released Technical Manual.

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### 1. Introduction

The Controlled Substances V. 3.0 module provides functionality to monitor and track the receipt, inventory, and dispensing of all controlled substances. This module provides the pharmacy with the capability to define a controlled substance location and a list of controlled substances to maintain a perpetual inventory. The capability for pharmacy personnel to receive a controlled substance order automatically, updating the quantity on hand and receipt history is also provided. Nursing personnel are provided with the capability to request orders for controlled substances via on-demand requests. Pharmacy may dispense controlled substances via the software automating all necessary documents (VA FORMs 10-2321 and 10-2638) to complete an order request. The software provides functionality to address returns to stock, destructions, and transfers between locations; log outpatient prescriptions and order cancellations; report Automated Management Information System (AMIS) and cost data; and maintain perpetual inventory balances.

#### 1.1. Orientation

This manual is divided into sections addressing such items as routines, files, security, options, etc. to provide a method of quick reference for the Site Manager and Information Resources Management (IRM) and Automated Data Processing (ADP) staff. For more detailed information about the package functionality, refer to the Controlled Substances V. 3.0 User Manual.

Within this documentation, several notations need to be outlined.

- Menu options will be italicized. Example: *Controlled Substance Balances Report* indicates a menu option.
- Screen prompts will be denoted with quotation marks around them. Example: "Select INPATIENT SITE NAME" indicates a screen prompt.
- Responses in bold face indicate what the user is to type in. Example: Okay to Continue? No// 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: The PSDMGR key is required. Please contact the Pharmacy Supervisor.
- ?, ??? 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.

#### 1.2. Package Functional Description

The Controlled Substances V. 3.0 software process usually consists of the following functions:

- Pharmacy set up of narcotic vaults and nursing wards (Narcotic Area Of Use NAOUs).
- Monitors/tracks the receipt, inventory, and dispensing of controlled substances.
- Allows management inspections to automatically identify discrepancies in stock levels.
- Allows nursing to place orders for controlled substances via on-demand requests.
- Allows pharmacy to dispense controlled substance drugs, update on-hand balances, automate VA FORM 10-2321, and print VA FORM 10-2638.
- Review VA FORM 10-2638 when completed and returned to pharmacy.
- Provides AMIS and cost reporting data.
- Maintains perpetual inventory balances.
- Provides ability to return to stock, transfer between locations, cancel orders, and log outpatient prescriptions.
- Automates current inventory requirements, which allows Department of Veterans Affairs Medical Centers (VAMCs) to detect discrepancies or diversions of controlled substances, thereby improving overall drug accountability.

• Display history of actions taken on controlled substances orders.

## 1.3. Package Management

This package does not impose any additional legal requirements on the user, nor does it relieve the user of any legal requirements. Names and social security numbers used in the examples are fictitious.

## 2. Implementation and Maintenance

#### 2.1. Installation

For installation of the Controlled Substances (CS) V. 3.0 software package, please refer to the Installation Guide.

#### 2.2. Site Parameters

The following is the site parameter that is used in defining the CS module for each site.

#### • IS SITE SELECTABLE FOR CS

How should the IS SITE SELECTABLE FOR CS parameter be answered? This parameter was created because Inpatient Medications V. 5.0, Auto Replenishment/Ward Stock V. 2.3, and Controlled Substances V. 3.0 share the INPATIENT SITE file (#59.4). Therefore, this parameter will screen out inpatient site names that are not used by the Controlled Substances V. 3.0 module. For every entry in this file, it should be determined if the site name should be shown to the users of the Controlled Substances V. 3.0 package. If the site name should be shown, enter 1 or YES for this parameter, otherwise, enter 0 or NO.

## 3. Routines

#### 3.1. Descriptions

Use the following option to print routine descriptions:

#### **Example: Print Routine Descriptions**

```
Select Systems Manager Menu Option: PROgrammer Options

Select Programmer Options Option: ROUtine Tools

Select Routine Tools Option: FIRst Line Routine Print

PRINTS FIRST LINES

routine(s) ? > PSD*
searching directory ...
routine(s) ? >

(A) lpha, (D) ate, (P) atched, OR (S) ize ORDER: A//Enter>
Include line 2? NO// <Enter>
DEVICE: HOME// <Enter>
```

#### 3.2. Checksum

This option determines the current checksum of selected routine(s). The Checksum of the routine is determined as follows:

- 1. Any comment line with a single semi-colon is (presumed) to be followed by comments and only the line tag will be included.
- 2. Line 2 will be excluded from the count.
- 3. The total value of the routine is determined by taking, excluding the exception, as noted above, and multiplying the ASCII value of each character by its position on the line being checked.

#### **Example: Checksum Option**

```
routine(s) ? > PSD*
searching directory .<Enter>..
routine(s) ? > <Enter>
```

-----example follows-----

#### **Example: Checksum Option (continued)**

PSDNMBA	value = 7638815
PSDNMKY	value = 5224255
PSDNMPR	value = 7345943
PSDNMRP	value = 7410643
PSDNMSP	value = 6584930
PSDNMU	value = 6690662
PSDNMWE	value = 10976237

### 3.3. Callable Routines

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

## 3.4. Routine Mapping

There are no specific recommendations for routine mapping.

#### 4. File List

The following files are owned by the Controlled Substances V. 3.0 package:

```
58.82
      CS ORDER STATUS
58.83
      CS COMPLETION STATUS
58.84
      DRUG ACCOUNTABILITY TRANSACTION TYPE
58.85
      CS WORKSHEET
58.86
      CS DESTRUCTION
58.87
      CS CORRECTION LOG
58.88
      CS IRL PROGRAM
58.89
      CS ERROR LOG
59.4
      INPATIENT SITE
```

For a complete list of the files and templates exported by the CS module use the *Build File Print* option, which is a Kernel Installation and Distribution System (KIDS) option.

```
>D ^XQ1

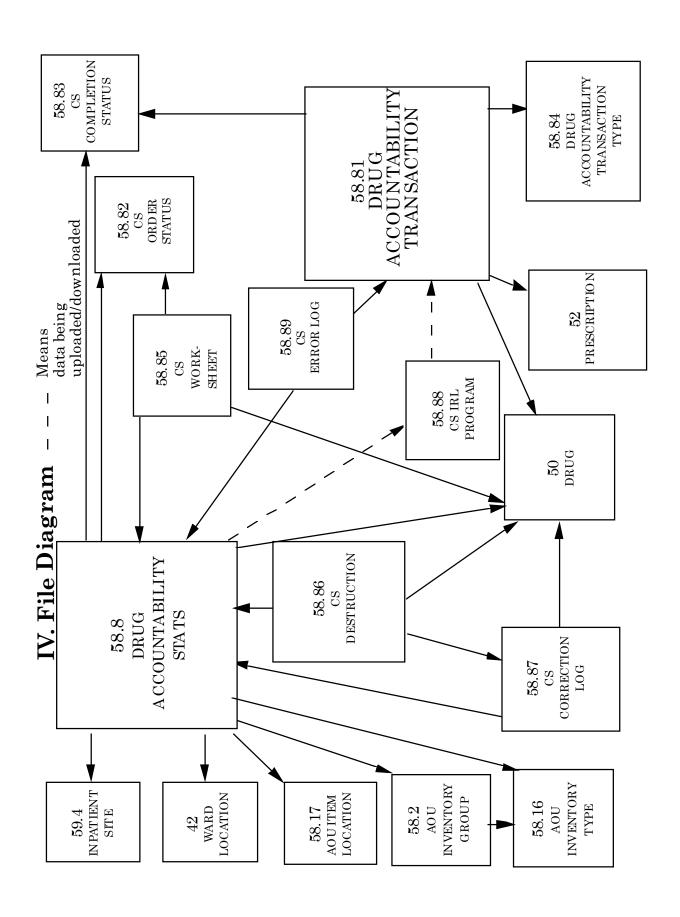
Select OPTION NAME: XPD MAIN Kernel Installation & Distribution System

Select Kernel Installation & Distribution System Option: Utilities

Select Utilities Option: BUIld File Print

Select BUILD NAME: CONTROLLED SUBSTANCES 3.0

DEVICE: [Select Print Device]
```



## 5. Archiving and Purging

#### 5.1. Archiving

At present, the CS module does not provide for the archiving of its data.

#### 5.2. Purging

#### **Auto-Purging**

There is a background job, which should be scheduled through TaskMan to run each night at a convenient time. The routine should run nightly; therefore the rescheduling frequency is 1D. The purpose of the option is to purge the CS WORKSHEET file (#58.85). This file is the holding area for CS order requests pending pharmacy processing. The data should remain in the file until the orders have been received in an NAOU or cancelled by pharmacy. Once the order is received on an NAOU or cancelled, the data is purged from the system through this background job.

Using the TaskMan Manager's *Schedule/Unschedule Options* [XUTM SCHEDULE] option, select the *Purge CS WORKSHEET File* [PSD PURGE] option. At the "QUEUED TO RUN AT WHAT TIME:" prompt, enter **T**@ followed by the time the job is to begin. The time should be one that does not conflict with system backup. At the "RESCHEDULING FREQUENCY:" prompt, enter **1D**. The "DEVICE FOR QUEUED JOB OUTPUT" prompt should remain blank since this is a background job.

#### **Example: How to Schedule a TaskMan Task**

```
Select Systems Manager Menu Option: TASK Manager

Select Task Manager Option: SCHedule/Unschedule Options

Select OPTION to schedule or reschedule: PSD PURGE

QUEUED TO RUN AT WHAT TIME: T@2200

DEVICE FOR QUEUED JOB OUTPUT: <Enter>

RESCHEDULING FREQUENCY: 1D

QUEUED TO RUN ON VOLUME SET: [At this prompt, select the Volume Set name that the option should run on.]

SPECIAL QUEUEING: <Enter>

Select OPTION to schedule or reschedule: <Enter>
```

## 6. External Relationships

The Controlled Substances V. 3.0 module relies on, at least, the following external packages to run effectively:

Minimum version needed
8.0
21.0
7.1
2.5
6.0
2.2
4.0
2.0
2.0
1.6

To run this module, the NEW PERSON file (#200), WARD LOCATION file (#42), DRUG file (#50), PHARMACY SYSTEM file (#59.7), INPATIENT SITE file (#59.4), and PRESCRIPTION file (#52) files are needed. The system does not need to be taken down, but the CS and Drug Accountability menus must be made <u>unavailable</u> to the users. This is now handled within the KIDS install process.

- Patches XU\*8\*26 and XU\*8\*44 must be installed to support the witness identification for Nurse dispensing functionality and the HL7 interface.
- 6 Please note that patch PSGW\* 2.2\*2 should be installed to ensure compatibility between AR/WS V. 2.2 and Controlled Substances V. 3.0.
- \* Patch PSO\*6\*134 should be installed to ensure compatibility between Outpatient V. 6.0 and Controlled Substances V. 3.0.
- ☑ This package is required to support the Health Level 7 (HL7) Interface to Narcotic dispensing Equipment Systems.

## 7. Internal Relationships

All of the Controlled Substances V. 3.0 package options have been designed to stand-alone. Each option requires the use of the package-wide variable PSDSITE that is set as users enter the package. Even though **all** options are independently invoked, users will be repeatedly asked to select an Inpatient Site (if there are two or more sites that are flagged as selectable for CS use) if top-level CS menus do not contain the following entry and exit code in the OPTION file (#19):

ENTRY ACTION: I '\$D(PSDSITE) D ^PSDSET EXIT ACTION: K PSDSITE

The entry and exit code should not be included on submenus in order to preserve the variable PSDSITE.

## 8. Exported Options

#### 8.1. Stand-Alone Options

All of the CS package options have been designed to stand alone. All pharmacy personnel may be assigned the *Controlled Substances Menu* [PSD MENU] as a menu option. Pharmacy managers may be assigned the *CS Monitoring Menu* [PSD NM MENU] option. All nursing personnel, using the CS software, may be assigned the *Controlled Substances Nurses'* (CS) *Menu* [PSD NURSE MENU] as a menu option. Controlled Substances inspectors may be assigned the *Controlled Substances Inspector Menu* [PSD INSPECTOR MENU] option and the *CS Monitoring Menu* [PSD NM MENU] option. Each option utilizes the package-wide variable PSDSITE that is set as users enter the package.

Controlled Substances (CS) V. 3.0 package technicians may be assigned the *Technician (CS Pharmacy) Menu* [PSD PHARM TECH] option. They may also be assigned the PSD TECH ADV security key. With the PSD TECH ADV security key, technicians can perform the functions from the pharmacist menu that have been added to the *Technician (CS Pharmacy) Menu* [PSD PHARM TECH]. The CS technician may perform all the *Outpatient Rx's* menu functions except releasing prescriptions.

### 8.2. Descriptions

Option Name	Routine	Menu Text / Description
PSD AMIS	PSDAMIS	AMIS Report This option provides the pharmacy with AMIS report information by NAOU.
PSD BALANCE ADJUSTMENT REVIEW	PSDADJD	Balance Adjustment Report This report allows the selection of drugs and a date range for which to review all balance adjustments.

Option Name	Routine	Menu Text / Description
PSD BALANCE	PSDADJ	Balance Adjustments
ADJUSTMENTS		This option is used to review or enter adjustments
Lock: PSDMGR		needed to correct the balance of a drug. CS drugs
		not dispensed with a VA FORM 10-2638 returned
		to stock, or returned to manufacturer and held for
		destruction are deducted from the vault on-hand
		amount using this option.
PSD BALANCE	PSDADJI	Initialize Balance at Setup
INITIALIZE		This option will be used at package initialization
		only. It provides pharmacy a method of entering
		on-hand balances for CS drugs stocked within
		their dispensing vaults. The drugs will be listed
		alphabetically, displaying narcotic breakdown and
		package size for each. This option should be used
		only when the CS package is ready to be "turned
		on" for production use.
PSD COMPLETE	PSDGSRV	Complete Green Sheet
GS		Pharmacy uses this option to complete a reviewed
		Green Sheet. Green Sheets with no discrepancies,
		math errors, drugs returned to stock, and drugs
		holding for destruction, associated with this Green
		Sheet, are processed utilizing this option.
PSD CORRECT	EN2^PSDCOR	Existing Green Sheets Correction
EXISTING GS		This option allows the pharmacy supervisor
		access to make corrective actions on CS orders.
		The CS software allows pharmacy to add existing
		Green Sheets active orders on an NAOU at
		package setup. These orders may be tracked
		using the CS software. Sometimes one of these
		existing Green Sheets may be incorrectly entered
		in the software. Using this option, the pharmacy
		supervisor may delete this erroneous existing
		Green Sheet. An entry in the CS CORRECTION
		LOG file (#58.87) will be created to log a history
		of all corrective actions.
PSD CORRECT GS	EN3^PSDCOR	Error on Completed Green Sheets
STATUS		This option allows the Pharmacy Supervisor to
		correct the completed status of a Green Sheet
		from COMPLETED - REVIEWED to
		COMPLETED - PENDING PROBLEM
		RESOLUTION. An entry in the CS
		CORRECTION LOG file (#58.87) will be created
		to track this error.
		to track this effor.

Option Name	Routine	Menu Text / Description
PSD CORRECT	EN1^PSDCOR	Correct Order Status - GS Ready for Pickup
STATUS		This option allows the Pharmacy Supervisor
		access to correct the order status of certain CS
		orders. Sometimes nursing may erroneously flag
		a Green Sheet ready for pharmacy pickup. Using
		this option, the Pharmacy Supervisor may change
		the Green Sheet order status from COMPLETED
		- GREEN SHEET READY FOR PICKUP to
		DELIVERED - ACTIVELY ON NAOU to
		correct this problem. An entry in the CS CORRECTION LOG file (#58.87) will be created
		to log a history of all corrective actions.
PSD CORRECTION		Correction Menu
LOG		This menu option allows the pharmacy supervisor
Log		access to make corrective actions on CS orders.
		An entry in the CS CORRECTION LOG file
		(#58.87) will be created to log a history of all
		corrective actions.
		Menu Items:
		PSD CORRECT STATUS
		Correct Order Status - GS Ready for Pickup
		PSD CORRECT EXISTING GS
		Existing Green Sheets Correction
		PSD EDIT/CANC VER ORD
		Edit/Cancel Verified Orders
		PSD CORRECT GS STATUS
		Error on Completed Green Sheets
		PSD ERR/ADJ PENDING REPORT
		List Pending Errors/Adjustments Logged by
		TRAKKER
		PSD ERR/ADJ RESOLVED REPORT
		Print Resolved Errors/Adjustments Log
		PSD ERR/ADJ EDIT
		Enter Error/Adjustment Resolution

Option Name	Routine	Menu Text / Description
PSD CORRECTION LOG REPORT	PSDCORP	Correction Log Report This report lists all corrective actions logged for a selected date range. This report may be generated by order status changes or by Green Sheet deletions.
PSD COST REPORTS	PSDCOST	Cost Reports This option provides pharmacy cost reporting data for CS drugs, by NAOU, for a specified date range.
PSD CP TRANSACTION REVIEW	PSDREVC	Control Point Transaction Review Use this option to review the receipt transactions processed for a selected control point transaction number.
PSD CS PRESCRIPTIONS REPORT	PSDDSOR	Controlled Substance Prescriptions Report This option provides a report of digitally signed orders that have been filled for Schedules I-V controlled substances. The report is for a date range with the option of including discontinued and/or expired orders and various sort criteria. For example, list by patient, by provider, by drug, and by schedule, etc. It is an 80-column report queued to a printer.
PSD DAILY LOG	PSDACT	Daily Activity Log (in lieu of VA FORM 10-2320) The Daily Activity Log lists all transactions for a CS dispensing site (vault). It includes a forwarding balance on each transaction. This document may be generated for a single drug, some drugs, all Schedule II drugs (by typing the ^ALL CII DRUGS group name), or ALL drugs within a specified date range.
PSD DAILY LOG TECH Lock: PSD TECH	PSDACT	Daily Activity Log (in lieu of VA FORM 10-2320) The Daily Activity Log lists all transactions for a CS dispensing site (vault). It includes a forwarding balance on each transaction. This document may be generated for a single drug, some drugs, all Schedule II drugs (by typing the ^ALL CII DRUGS group name), or ALL drugs with a specified date range.

PSD DEA LIST	PSDEA	DEA Special Handling List This report alphabetically lists the drug name, DEA Special Handling, and NDC data for all drugs within the DRUG file (#50) marked for CS package use. This report will be helpful in researching drugs incorrectly marked for CS package use.
PSD DEA SUBOXONE	PSDSUBOX	DEA DATA – Waived Practitioner Report This report provides a list of patients that were prescribed with Suboxone drugs. Two views are available, one with details, and another with just the counts of Suboxone patients per prescriber.
PSD DEST DRUGS REPORT	PSDESTP	Destroyed Drugs Report This report lists, alphabetically by drug; all destroyed controlled substances, within a narcotic dispensing site, for a given period of time. Pharmacy Supervisor certifying the destruction, quantity destroyed, and date destroyed is also included on this report. The report may be generated for a single drug, several drugs, or ALL drugs stocked within a specific dispensing site.

Option Name	Routine	Menu Text / Description
PSD DEST NON-CS	PSDESTO	Hold a CS Drug (No Inventory Update)
DRUG		This option allows Pharmacy Supervisors to place
Ditto		a CS VA drug, from the DRUG file (#50), on hold
		for destruction. When using this option, the CS
		inventory balance will not be updated. A CS
		DESTRUCTION file (#58.86) entry is made and
		can be tracked through the CS software.
PSD DEST TEXT	PSDESTF	Non-VA Drug Placed on Hold for Destruction
DRUG		This option allows the Pharmacy Supervisors to
		place a non-VA drug, not existing in the DRUG
		file (#50), on hold for destruction. A CS
		DESTRUCTION file (#58.86) entry is made and
DGD DEGEDON	DCDE A 41	can be tracked through the CS software.
PSD DESTROY	PSDEA41	DEA Form 41 Destroyed Drugs Report
DEA41		This report lists information on destroyed CS that
DCD DECTROY	DODECT	is required in completing the DEA Form 41.
PSD DESTROY	PSDEST	Destroy a Controlled Substances Drug This option provides the supervisor ability to
DRUGS		enter the destruction information for any CS drug
Lock: PSDMGR		being destroyed.
PSD DESTROY		Destructions Menu
MENU		This menu allows Pharmacy Supervisors to
MILINU		maintain the necessary records when destroying a
		CS drug.
		Menu Items:
		PSD DESTROY DRUGS
		Destroy a Controlled Substances Drug
		PSD DEST NON-CS DRUG
		Hold a CS Drug (No Inventory Update)
		PSD DEST TEXT DRUG
		Non-VA Drug Placed on Hold for Destruction
PSD	PSDHRPT	Destructions Holding Report
DESTRUCTION		This report lists all CS drugs being held for
HOLDING		destruction.
PSD DIGITALLY	PSDDSOR	Digitally Signed CS Orders Report
SIGNED ORDERS		Only functional when DEA regulations are
		revised and PKI functionality can be fully
		implemented nationally. Sites opting to activate
		PKI functionality for pharmacy can use this
		option to retrieve and list all digitally signed
		orders for controlled substances.
PSD DIG. SIGNED	PSDDSOR2	Digitally Signed OP Released Rx Report
RELEASED RX		Only functional when DEA regulations are
		revised and PKI functionality can be fully
		implemented nationally. Sites opting to activate
		PKI functionality for pharmacy can use this option to retrieve and list all released digitally
		signed orders for controlled substances.
		signed orders for controlled substances.

Option Name	Routine	Menu Text / Description
PSD DISPENSE TO NDES	PSDNDES	Narcotic Dispensing Equipment Orders This option is for dispensing from Pharmacy to
NDES		narcotic dispensing equipment systems.
PSD DISPENSE	PSDDFP	Pharmacy Dispense without (VA FORM 10-2638)
W/O GS		This option provides pharmacy the ability to dispense CS drugs from a dispensing site without
		generating the VA FORM 10-2638. Drugs
		dispensed using this option will not be displayed
		on the Inspector's Log for controlled substances for the NAOUs. These drugs will be included on
		the Pharmacy Dispensing Report and the Daily
		Activity Log.
PSD DISPENSING		Dispensing Menu
MENU		This menu contains access to all options associated with the dispensing of controlled
		substances.
		Menu Items:
		PSD WORKSHEET PRINT Print CS Dispensing Worksheet
		PSD WORKSHEET DISPENSING
		Fill/Dispense CS Orders from Worksheet
		PSD PRINT 2321
		Dispensing/Receiving Report (VA FORM 10-2321)
		PSD PRINT 2638
		Green Sheet - Print (VA FORM 10-2638)
		PSD DISPENSE W/O GS
		Pharmacy Dispense without (VA FORM 10-2638)
		PSD REPRINT MENU
		Reprint Reports Menu
		PSD LABEL DRUG/NUMBER
		Label for Dispensing (Barcode)
		PSD DISPENSE TO NDES
DOD DDITO CARGO	DODA ( DI )	Narcotic Dispensing Equipment Orders
PSD DRUG CHECK	PSDMAPU	Check Stocked Drugs for CS Use This option guess a background job to check all
		This option queues a background job to check all ACTIVE drugs stocked, within an ACTIVE
		NAOU, for use with the CS package. If a stocked
		drug has been unmarked for CS use the drug will
		then be inactivated. At job completion a
		MailMan message will be sent listing any drug
		discrepancies.

Option Name	Routine	Menu Text / Description
PSD DRUG FILE	PSDCSL	Drug File Stats for CS Drugs
DATA		This report lists the drug name, order unit, price
		per order unit, dispense unit, dispense units per
		order unit, and price per dispense unit. These
		statistics are compiled from the DRUG file (#50)
		and may be used when loading stock drugs into a
		NAOU. All drugs marked for CS package use will
		print on this report.
PSD DRUG LOC	PSDCODE	Enter/Edit CS Drug Location Codes
EDIT		This option allows editing of the codes used to
		define the locations of stocked drugs in NAOU or
		in the pharmacy.
PSD DRUG LOC	CODE^PSDPRT	List CS Drug Location Codes
PRINT		This report will list the codes used to define the
		location of drugs stocked in NAOU or in the
Don David	DCD DEVE	pharmacy.
PSD DRUG	PSDREVD	Drug Receipt History
RECEIPT HISTORY		This option is used to review all receipts
		processed over a selected time range for a selected
DCD EDIT/CANG	DCDEVO	drug.
PSD EDIT/CANC	PSDEVO	Edit/Cancel Verified Orders
VER ORD		This option allows the Pharmacy Supervisor
		access to edit or cancel a verified order. The
		order must be edited or cancelled prior to being
		delivered to the NAOU. A verified order may be
		edited only once. It must be cancelled and re-
		entered if a second edit is required. Quantity,
		manufacturer, lot number, and expiration date are
		the only fields in which edits can be made.

Option Name	Routine	Menu Text / Description
PSD EDIT/CANC	PSDEVOR	Edited Verified Orders Report
VER ORD RPT		This report lists all verified orders that have been
		edited or cancelled within a specified date range.
		Data listed includes pharmacy dispensing #
		(Green Sheet #), date edited, drug, type of action
		(edited or cancelled), original quantity, new
		quantity, and name of the pharmacist. The
		manufacturer, lot #, or expiration date fields will
		also be listed if edited.
PSD EMERGENCY	PSDEM	Unscheduled Order Report
ORDER REPORT		A report to show by drug or by NAOU a list of
DOD ENTER EDIT		unscheduled orders.
PSD ENTER/EDIT		Enter/Edit Menu
MENU		This menu contains the enter/edit options
		associated with setting up the files for the CS module.
		Menu Items:
		PSD INVEN TYPE EDIT
		Inventory Types - Enter/Edit
		Inventory Types Emer/Butt
		PSD DRUG LOC EDIT
		Enter/Edit CS Drug Location Codes
		PSD NAOU EDIT
		Create/Edit the Narcotic Area of Use
		PSD STOCK DRUG EDIT
		Stock CS Drugs - Enter/Edit
		Section of a long and
		PSD MFG/LOT/EXP DATE EDIT
		Manufacturer, Lot #, and Exp. Date - Enter/Edit
		PSD NARC EDIT
		Narcotic Breakdown Unit/Package Size -
		Enter/Edit
		PSD NAOU INV GROUP EDIT
		NAOU Inventory Group - Enter/Edit
		11100 Inventory Group · Emeribun
		PSD MARK
		Mark/Unmark Drugs for controlled substances
		use

Option Name	Routine	Menu Text / Description
PSD ERR/ADJ EDIT Lock: PSD ERROR	PSDERD	Enter Error/Adjustment Resolution This option allows designated Pharmacy Supervisors the ability to enter a resolution comment for each error or adjustment created when using the barcode TRAKKER.
PSD ERR/ADJ PENDING REPORT Lock: PSD ERROR	PSDERP	List Pending Errors/Adjustments Logged by TRAKKER  This option lists all pending errors/adjustments logged from the barcode TRAKKER for a specific Dispensing Site within a given time frame.
PSD ERR/ADJ RESOLVED REPORT Lock: PSD ERROR	PSDERCP	Print Resolved Errors/Adjustments Log This report prints a listing of all resolved errors/adjustments logged by the barcode TRAKKER for a specific Dispensing Site within a given time frame.
PSD EXISTING GS	PSDEXGS	Add Existing Green Sheets at Setup This option provides pharmacy the ability to enter existing Green Sheets and active orders on an NAOU, at package setup. These orders may be tracked through the CS software.
PSD EXP REPORT	PSDEXP	Expiration Date Report This option will print a Controlled Substances Expiration Date Report for a single NAOU, several NAOUs, or ALL NAOUs. This report may be sorted by DATE/DRUG/NAOU or by DATE/NAOU/DRUG.
PSD GS DISCREPANCY REPORT	PSDCRP	Completed Green Sheet Discrepancy Report This report lists all Green Sheets with a completion status of MATH ERROR, GREEN SHEET NOT SIGNED BY NURSE, or OTHER - REFERRED TO SUPERVISOR. This report may be printed for a single NAOU, several NAOUs, or ALL NAOUs.
PSD GS HISTORY	PSDGSH	Green Sheet History The Green Sheet history provides pharmacy with a detailed account of every transaction affecting this VA FORM 10-2638. This history may be displayed to the user's screen or directed to a printer.
PSD GS LISTING	PSDGSL	Listing of Green Sheet Log This option numerically lists all Green Sheets for a given date range or for a given Green Sheet number range. The logs list Green Sheet number, date dispensed, and current status.

Option Name	Routine	Menu Text / Description
PSD GS TRANS	PSDNBT	Transferred Green Sheets - Pending NAOU
NOT RECD (NAOU)		Receipt
		This report lists all Green Sheets that have been
		transferred from an NAOU and are pending
DCD CC TD ANGEED	DCDATED	receipt in another NAOU.
PSD GS TRANSFER (NAOU) REPORT	PSDNTR	Green Sheet Transfer Between NAOUs Report This report lists all Green Sheets transferred and
(NAOO) KETOKT		received between NAOUs for a given date range.
		This report may be printed for a single NAOU,
		several NAOUs, or ALL NAOUs.
PSD INACTIVATE	PSDNACT	Inactivate NAOU
NAOU		This option will allow a user to inactivate an
		NAOU. An inactivation date may be entered for a
		future time.
PSD INACTIVATE	PSDNSTK	Inactivate NAOU Stock Drug
NAOU STOCK		This option is used to inactivate a drug that is
DRUG		currently on a NAOU stock list. Drugs should not
DCD INITIALION		be deleted, but simply inactivated.
PSD INFUSION MENU		Infusion Order Processing Menu This many contains the infusion order/entry and
WIENU		This menu contains the infusion order/entry and transferring a Green Sheet options associated with
		the IV pharmacist processing a CS infusion order.
		Menu Items:
		PSD INFUSION O/E
		Infusion Order Entry
		PSD NURSE TRANSFER GS
		Transfer Green Sheet and Drug to another NAOU
		Transfer GS for PCA/Infusion Signed Out to
DCD DIFLICION O/F	DCDODY	Patient
PSD INFUSION O/E	PSDORV	Infusion Order Entry The Ny phomposist years this entire to
		The IV pharmacist uses this option to electronically request CS drugs used in IV orders.
		Only infusion orders requiring the VA FORM 10-
		2638 should be requested using this option.
PSD INSP LOG BY	PSDRLOG	Inspector's Log by Rec'd Date
RECD DATE		This report lists all dispensing transactions for
		Narcotic Area of Use received within a given date
		range. The data includes dispensing number, drug
		name, date received, quantity received, expiration
		date (if available), blanks for quantity on hand,
Dan Dian :	Dan car	and a signature blank for verification.
PSD INSP PLACE	PSDCSI	Place Green Sheet on Hold
HOLD		This option allows the CS Inspector to place a
		Green Sheet on hold for review.

Option Name	Routine	Menu Text / Description
PSD INSP REMOVE	PSDRSI	Remove Green Sheet from Hold
HOLD		This option allows the CS Inspector to remove a
		Green Sheet from hold.
PSD INSPECTOR		Controlled Substances Inspector Menu
MENU		This menu contains all options associated with a
Action: I		CS inspection.
'\$D(PSDSITE) D		Menu Items:
^PSDSET		PSD INSP PLACE HOLD
Exit Action: K PSDSITE		Place Green Sheet on Hold
TODOTTE		PSD INSP REMOVE HOLD
		Remove Green Sheet from Hold
		PSD PRINT INSPECTOR LOG
		Inspector's Log for Controlled Substances
		PSD PRT GS INSP HOLD
		Under Inspector's Review - Green Sheets
		Chack Inspector's Review Greek Sheets
		PSD INVEN SHEET PRT
		Inventory Sheet Print
		PSD INSP LOG BY RECD DATE
		Inspector's Log by Rec'd Date
		PSD IRL INSP MENU
		Barcode TRAKKER for CS Inspections
		PSD GS HISTORY
		Green Sheet History
		PSD NAOU BALANCE REPORT
		Narcotic Count - Shift Report
PSD INVEN SHEET	PSDBALI	Inventory Sheet Print
PRT		This option prints an Inspector's Sheet, which is
		used to inventory on-hand amounts within a
		pharmacy-dispensing site (vault). This form lists
		current on-hand amounts and provides a blank
		space for the inspector to list actual on-hand
		counts. A signature line is included on each page.
		This sheet may be generated for one drug, some
		drugs, or ALL drugs. The drugs are listed
		alphabetically.

Option Name	Routine	Menu Text / Description
PSD INVEN TYPE	PSDNVT	Inventory Types - Enter/Edit
EDIT		This option will edit the entries in the AOU
		INVENTORY TYPE file (#58.16) used to
		classify NAOU drugs.
PSD INVEN TYPE	INVEN^PSDPRT	Print Inventory Types
PRINT		Use this option to print the entries in the AOU
		INVENTORY TYPE file (#58.16) used to
		classify NAOU stocked drugs.
PSD IRL INSP	UPLOAD^PSDUP3	Send Inspections Inventory TRAKKER Data to
DATA		DHCP
		This option contains the access to upload or send
		narcotic vault inspections inventory from the
		barcode TRAKKER to VISTA.
PSD IRL INSP		Barcode TRAKKER for CS Inspections
MENU		This menu contains the options associated with
		performing narcotic vault inspections using the
		barcode TRAKKER device.
		Menu Items:
		PSD IRL INSPECTOR INV
		Load Software and Insp. Inventory into
		TRAKKER
		PSD IRL INSP DATA
		Send Inspections Inventory TRAKKER Data to
		DHCP
PSD IRL	PSDUP3	Load Software and Insp. Inventory into
INSPECTOR INV		TRAKKER
		This option contains the access to download an
		IRL program to the TRAKKER and download the
		narcotic inspections inventory to the TRAKKER.
		This option is used for the Narcotic Inspectors
		only.
PSD IRL INV DATA	UPLOAD^PSDUP2	Send Vault TRAKKER Inventory Data to DHCP
		This option contains the access to upload or send
		vault inventory from the barcode TRAKKER to
		VISTA.

Option Name	Routine	Menu Text / Description
PSD IRL INV		Barcode TRAKKER for Inventory
MENU		This menu contains the options associated with
		performing narcotic vault inventories using the
		barcode TRAKKER device.
		Menu Items:
		PSD IRL VAULT INV
		Load Software and Inventory into TRAKKER
		PSD IRL INV DATA
		Send Vault TRAKKER Inventory Data to DHCP
PSD IRL VAULT	PSDUP2	Load Software and Inventory into TRAKKER
INV		This option contains the access to download an
		IRL program to the TRAKKER and download the
		vault inventory to the TRAKKER, in one step.
		This option is used for pharmacy service only.
PSD LABEL	PSDLBL	Label for Dispensing (Barcode)
DRUG/NUMBER		This option allows pharmacy to print the
		dispensing number/drug barcode label that is
		attached to the drug delivered to the NAOUs.
PSD LABEL INSP	PSDLBLI	Inspectors Label Print
		This option allows the inspector or Pharmacy
		Supervisor to print the CS Inspector's barcode
		labels.
PSD LABEL	PSDLBL3	Print Pharmacist ID Labels
PHARM		This option allows Pharmacy Supervisors to print
Lock: PSDMGR		the pharmacists barcoded ID label. This label is
		scanned when pharmacists inventory CS drugs in
		the dispensing vault.
PSD LABEL	PSDLBL1	Barcode Drug Labels for Vault
VAULT		This option allows pharmacy to print the barcode
		labels for dispensing-site (vault) stocked drugs.
PSD MARK	PSDAPU	Mark/Unmark Drugs for Controlled Substances
		Use
		This option provides the ability to mark/unmark
		entries in the DRUG file (#50) for use with the CS
		package.

Option Name	Routine	Menu Text / Description
PSD MENU		Controlled Substances Menu
Action: I		This menu contains access to all options
'\$D(PSDSITE) D		associated with the CS module of the Pharmacy
^PSDSET		software.
Exit Action: K		Menu Items:
PSDSITE		PSD MGR
		Supervisor (CS) Menu
		PSD TRANSACTION MENU
		Pharmacist Menu
		PSD PRODUCTION REPORTS
		Production Reports
		PSD PHARM TECH
		Technician (CS Pharmacy) Menu
		PSD LABEL VAULT
		Barcode Drug Labels for Vault
PSD MFG REPORT	PSDPMFG	Manufacturer and Narcotic Information Report
PRINT		This report prints an alphabetical listing of all
		ACTIVE drugs within an ACTIVE NAOU that
		have been defined in the DRUG
		ACCOUNTABILITY STATS file (#58.8). This
		report lists NAOU, drug name, manufacturer, lot #, expiration date, narcotic breakdown unit, and
		narcotic package size. This report may be sorted
		alphabetically by NAOU, then drug name or drug
		name, then NAOU. The user may select one
		NAOU, several NAOUs, or all NAOUs to print.
PSD MFG/LOT/EXP	PSDMFG	Manufacturer, Lot #, and Exp. Date - Enter/Edit
DATE EDIT		This option allows the user to enter or edit
		manufacturer, lot #, and expiration dates for
		stocked drugs in an NAOU.

Option Name	Routine	Menu Text / Description
PSD MGR		Supervisor (CS) Menu
Lock: PSDMGR		This menu contains the options used for the
		NAOU set-up and maintenance.
		Menu Items:
		PSD SETUP
		Set Up CS (Build Files) Menu
		PSD MGR REPORTS
		Management Reports
		PSD BALANCE ADJUSTMENTS
		Balance Adjustments
		PSD CORRECTION LOG
		Correction Menu
		PSD EXISTING GS
		Add Existing Green Sheets at Setup
		PSD LABEL PHARM
		Print Pharmacist ID Labels
		PSD DESTROY MENU
		Destructions Menu
		PSD LABEL INSP
		Inspectors Label Print
		PSD EMERGENCY ORDER REPORT
		Unscheduled Order Report
PSD MGR		Management Reports
REPORTS		This option contains all reports or lists associated
		with drug accountability for narcotics.  Menu Items:
		PSD NOT DELIVERED
		Orders Filled Not Delivered
		PSD PEND VAULT ORDERS
		Pending CS Orders by Dispensing Site
		PSD DESTRUCTION HOLDING
		Destructions Holding Report
		PSD EDIT/CANC VER ORD RPT
		Edited Verified Orders Report

Option Name	Routine	Menu Text / Description
option runne	Routine	PSD GS TRANSFER (NAOU) REPORT
		Green Sheet Transfer Between NAOUs Report
		PSD GS TRANS NOT RECD (NAOU)
		Transferred Green Sheets - Pending NAOU Receipt
		PSD GS DISCREPANCY REPORT Completed Green Sheet Discrepancy Report
		PSD CORRECTION LOG REPORT Correction Log Report
		PSD NAOU USAGE NAOU Usage Report
		PSD DESTROY DEA41 DEA Form 41 Destroyed Drugs Report
		PSD DEST DRUGS REPORT Destroyed Drugs Report
		PSD AMIS AMIS Report
		PSD GS LISTING
		Listing of Green Sheet Log
		PSD COST REPORTS
		Cost Reports
		PSD PRT GS INSP HOLD
		Under Inspector's Review - Green Sheets
		PSD BALANCE ADJUSTMENT REVIEW
		Balance Adjustment Report
PSD NAOU ADJ	PSDADJN	Balance Adjustments – NAOU
		This option may be used to adjust the balance of controlled substances.
PSD NAOU BAL	PSDADJIN	Initialize NAOU Drug Balance
INITIAL		This option may be used to establish beginning
		balances for drugs.
PSD NAOU	PSDBAN	Narcotic Count - Shift Report
BALANCE REPORT		This report will show the balance for one or all drugs on a ward.

Option Name	Routine	Menu Text / Description
PSD NAOU EDIT	PSDEN	Create/Edit the Narcotic Area of Use
Lock: PSD PARAM		This option allows the user to initially define the
		NAOU.
PSD NAOU INV	PSDGEN	NAOU Inventory Group - Enter/Edit
GROUP EDIT		This option allows the user to enter and edit
		inventory groups. These groups define a cluster
		of NAOUs. For each of these NAOUs, one or
		more inventory types may be defined. This lets
		pharmacy detail a list of standard NAOUs and
		inventory types that can be easily selected when
		doing inventory.
PSD NAOU INV	PSDGPR	Inventory Group List (80 column)
GROUP PRINT		This option prints a list of the currently defined
		NAOU inventory groups with their associated
		inventory types.
PSD NAOU INV	PSDGSK	Sort NAOUs in Inventory Group
GROUP SORT		This option allows the user to change the order in
		which the NAOUs will sort within an inventory
		group. NAOUs should sort in the order that they
DCD NA OLI DDINIT	NAOLIADEDDDT	will be visited.
PSD NAOU PRINT	NAOU^PSDPRT	Show Narcotic Area of Use
		This option allows the user to print the
		NAOUs/Location Type/Primary Dispensing Site created in the Create/Edit the Narcotic Area of
		Use option.
PSD NAOU USAGE	PSDNU	NAOU Usage Report
I SD NAOO OSAGE	ISDNO	This report will print an NAOU drug usage report
		for a selected date range. The report may be
		sorted by drug (one, some, or ALL) or by NAOU
		(one, some, or ALL). A detailed list of orders,
		including the pharmacy dispensing # (Green Sheet
		#), date filled, quantity, and who ordered the drug
		will be printed. Summary totals by order and
		quantity are also generated.
PSD NARC EDIT	PSDNARC	Narcotic Breakdown Unit/Package Size -
		Enter/Edit
		This option allows the user to enter or edit
		narcotic breakdown unit and narcotic package size
		for stocked drugs in an active NAOU.

Option Name	Routine	Menu Text / Description
PSD NM CS ADJ	PSDNMBA	CS Balance Adjustments Report
		This option lists Drug Accountability
		Transactions in which the CS vault inventory
		balance was adjusted manually during the date
		range entered. The adjuster and reason will
		display on the report for the Narcotic Inspectors
		and Pharmacy Managers to review regularly for
		appropriateness and authorization.
PSD NM MENU		CS Monitoring Menu
		This standalone menu contains CS Monitoring
		reports to help facilitate the monitoring of CS and
		Schedule II narcotics. The menu should be
		assigned to the appropriate Narcotic Inspectors
		and Pharmacy Managers at the site. IA 3882 -
		Gives permission for Kernel's Option Access by
		User [XUOPTWHO] option to be included on this menu.
		Menu Items:
		PSD NM SECURITY KEY
		CS Application Security Key Report
		CS Application Security Rey Report
		PSD NM CS ADJ
		CS Balance Adjustments Report
		PSD NM RX SAME PERSON
		CS RXs by Same Person Report
		PSD NM RX REPRINT
		Label Reprint for CS RXs Report
		VILORTVIIO
		XUOPTWHO
		Option Access By User
		PSD NM RX PARTIAL
		Partial Request for CS RXs Report
		1 w. www request for Co Iulis Report
		PSD NM RX WITHOUT VA
		Patients Without VA Visit Report

Option Name	Routine	Menu Text / Description
PSD NM RX	PSDNMPR	Partial Request for CS RXs Report
PARTIAL		This option lists CS prescriptions for which a
		prescription partial fill was requested. An
		individual could partially fill the same
		prescription more than once and be diverting
		prescription drugs. Narcotic Inspectors and
		Pharmacy managers should monitor this activity.
		This report should be queued to run during non-
		peak hours.
PSD NM RX	PSDNMRP	Label Reprint for CS RXs Report
REPRINT		This option lists CS prescriptions for which a
		prescription label reprint was requested. An
		individual could fill the same prescription more
		than once and be diverting prescription drugs.
		Narcotic Inspectors and Pharmacy managers
		should monitor this activity. This report should be
		queued to run during non-peak hours.
PSD NM RX SAME	PSDNMSP	CS RXs by Same Person Report
PERSON		This option lists CS prescriptions that were
		entered, finished and released by the same person
		for the date range entered. Different pharmacists
		in the prescription filling process normally
		perform these functions. Although frequently
		necessary on off-shifts and weekends, CS
		Inspectors and Pharmacy Managers should
		monitor this activity. This report should be
		queued to run during non-peak hours.
PSD NM RX	PSDNMWE	Patients Without VA Visit Report
WITHOUT VA		This option lists patients that receive prescriptions
		but have not had a VA clinic visit within one year
		of a RX release date for the date range entered.
		Excluding RXs released on the same day as a
		discharge and within a user defined discharge date
		range. Patients in Fee Basis and Aid and
		Attendance programs may be included on the list
		and should be reviewed. This lists represents a
		potential diversion tactic that could be employed
		to prevent detection and suspicion. This report
		should be queued to run during non-peak hours.

Option Name	Routine	Menu Text / Description
PSD NM SECURITY KEY	PSDNMKY	CS Application Security Key Report This option lists holders of the PSJ RPHARM and/or PSDMGR security keys. Holders of these keys have the ability to override discrepancies, make CS vault inventory adjustments and transfer medications between vaults. The list requires routine monitoring and validation for accuracy.
PSD NOT DELIVERED	PSDFND	Orders Filled Not Delivered This option generates a list of all CS orders filled from the pharmacy-dispensing site (vault) but not yet delivered to the NAOUs. A summary total sorted by drug is also generated.
PSD NOT DELIVERED NURSE Lock: PSJ RNURSE	PSDFND	Orders Filled Not Delivered This option generates a list of all CS orders filled from the pharmacy-dispensing site (vault) but not yet delivered to the NAOUs. A summary total sorted by drug is also generated.
PSD NURSE DEFECTIVE DOSE	PSDRF4	Record Defective Dose When a nurse discovers a damaged drug that cannot be dispensed to a patient, this option may be used to record the wasting.
PSD NURSE DELAYED DISPENSE	PSDRFS	Delayed Sign Out Dose for Patient This option may be used when there is computer down time and it is necessary to sign out doses that were already given to patients.
PSD NURSE DISP MENU Action: D ^PSDRFD Exit Action: K NAOU,NAOUN		Sign Out Menu This is a menu to assist nurses in tracking doses signed out for patients.  Menu Items: PSD NURSE DISPENSING Sign Out Dose for Patient  PSD PAT ID LIST Patient ID List Print  PSD NURSE DISP REPORT Activity Report  PSD NURSE WASTE Record Delayed Wastage  PSD NURSE NOT GIVEN Not Given, Return to Stock  PSD NURSE DEFECTIVE DOSE

Option Name	Routine	Menu Text / Description
		Record Defective Dose
PSD NURSE DISP	PSDPAT	Activity Report
REPORT		This option provides a detailed and summary
		listing of activity.
PSD NURSE	PSDRF	Sign Out Dose for Patient
DISPENSING		This option is designed for signing out doses via a radio frequency device.
PSD NURSE GS		Green Sheet Menu
MENU		This menu contains options for handling green
WILING		sheets.
		Menu Items:
		PSD REC GS
		Receipt of Controlled Substance from Pharmacy
		PSD READY GS FOR PICKUP
		Complete a Green Sheet - Ready for Pickup
		Complete a Green Sheet Ready for Flewap
		PSD GS HISTORY
		Green Sheet History
		PSD NURSE TRANS GS MENU
		Transfer Green Sheet Menu
PSD NURSE HELP	PSDHELP	Help Online
		Use this option to view or print online help.
PSD NURSE	PSDORNV	Infusion or PCA Syringe Order Entry For Patient
INFUSION		This option is for ordering an infusion or PCA
		syringe for a specific patient.

Option Name	Routine	Menu Text / Description
PSD NURSE MENU		Controlled Substances Nurses' (CS) Menu
Action: I		This menu provides nurses access to all options
'\$D(PSDSITE) D		associated with requesting and receiving CS drugs
^PSDSET		from pharmacy.
Exit Action: K		Menu Items:
PSDSITE		PSD NURSE SHIFT LOG
		Ward (NAOU) Drug History
		PSD NURSE HELP
		Help Online
		PSD NURSE DISP MENU
		Sign Out Menu
		PSD NURSE ORDER MENU
		Ordering Menu
		PSD NURSE GS MENU
		Green Sheet Menu
		PSD NAOU BALANCE REPORT
		Narcotic Count - Shift Report
		PSD REC GS
		Receipt of Controlled Substance from Pharmacy
		PSD NURSE ONLINE COUNT
		Verify Count
PSD NURSE NOT	PSDRFR	Not Given, Return to Stock
GIVEN		This option may be used when a dose is not given
		to a patient and must be returned to stock. This
		option must be used within one hour of the last
		dispensed dose (by the nurse that dispensed that
DGD AH ID GE	DGD + D IG	dose).
PSD NURSE	PSDADJC	Verify Count
ONLINE COUNT		This option may be used to verify and correct
		balances.

Option Name	Routine	Menu Text / Description
PSD NURSE		Ordering Menu
ORDER MENU		This menu contains options for ordering and
		checking on orders.
		Menu Items:
		PSD ORDER ENTRY
		CS Order Entry For Ward
		PSD PEND NAOU ORDERS
		Pending CS Orders Report for an NAOU
		PSD NOT DELIVERED NURSE
		Orders Filled Not Delivered
		DCD MUDGE DDIODITY ODDED CHECK
		PSD NURSE PRIORITY ORDER CHECK
		Check on Priority Orders
		PSD NURSE INFUSION
		Infusion or PCA Syringe Order Entry For Patient
PSD NURSE	PSDEM4	Check on Priority Orders
PRIORITY ORDER	1 SDENIT	This option will check the status of Priority
CHECK		Orders that Pharmacy has filled today for a
CILCK		selected NAOU.
PSD NURSE REC	PSDNTT	Receive Green Sheet & Drug from another NAOU
TRANSFER GS		This option provides nurses the ability to receive
		CS drugs and their associated Green Sheet from
		another NAOU. The transferring of CS drugs
		between NAOUs requires two processing steps.
		Step 1 - Transfer Green Sheet and Drug to
		another NAOU
		Step 2 - From an NAOU - Receive Green Sheet
		Transfer & Drug
PSD GS REC	PSDNTTPC	Receive GS for PCA/Infusion Signed Out to
PCA/INF FOR		Patient
PATIENT		This option provides nurses the ability to receive
		Green Sheets for PCA/Infusions from another
		NAOU. The transferring of these Green Sheets
		between NAOUs requires two processing steps.
		Charles Transfer CC for DCA/I C ' C' 1
		Step 1 – Transfer GS for PCA/Infusion Signed
		Out to Patient  Step 2 Paging GS for PCA/Infusion Signed
		Step 2 – Receive GS for PCA/Infusion Signed
		Out to Patient

Option Name	Routine	Menu Text / Description
PSD NURSE	PSDRPT	Reprint Transfer Between NAOUs (VA FORM 10-
REPRINT 2321		2321)
		Nurses may reprint the transfer between NAOUs
		form (in lieu of VA FORM 10-2321) for any
		Green Sheet and drug transferred from their
		NAOU. The form may be reprinted only if the
		transferred Green Sheet and drug has not been
		received into the NAOU receiving the transfer.
PSD NURSE SHIFT	PSDNSCL	Ward (NAOU) Drug History
LOG		Use this report to list all ACTIVE CS orders
		currently on a specific NAOU.
PSD NURSE SUPR		Nursing Supervisor Menu
MENU		This is a menu with special options to support the
		signing out of CS.
		Menu Items:
		PSD NAOU BAL INITIAL
		Initialize NAOU Drug Balance
		PSD NAOU ADJ
		Balance Adjustments - NAOU
		PSD PAT INQUIRY
		Patient/Location Inquiry
		PSD EMERGENCY ORDER REPORT
		Unscheduled Order Report
		PSD EXP REPORT
		Expiration Date Report
		PSD PAT ID LIST
		Patient ID List Print
		PSD NURSE DELAYED DISPENSE
		Delayed Sign Out Dose for Patient

Option Name	Routine	Menu Text / Description
PSD NURSE		Transfer Green Sheet Menu
TRANS GS MENU		Use this menu to transfer and receive Green
		Sheets between NAOUs.
		Menu Items:
		PSD NURSE TRANSFER GS
		Transfer Green Sheet and Drug to another NAOU
		PSD NURSE REC TRANSFER GS
		Receive Green Sheet & Drug from another NAOU
		PSD GS TRANS PCA/INF PATIENT
		Transfer GS for PCA/Infusion Signed Out to
		Patient
		PSD GS REC PCA/INF FOR PATIENT
		Receive GS for PCA/Infusion Signed Out to
		Patient
		PSD NURSE REPRINT 2321
		Reprint Transfer Between NAOUs (VA FORM 10-
		2321)
		PSD GS TRANS NOT RECD (NAOU)
		Transferred Green Sheets - Pending NAOU
		Receipt
PSD NURSE	PSDNTF	Transfer Green Sheet and Drug to another NAOU
TRANSFER GS		This option provides nurses the ability to transfer
		CS drugs and their associated Green Sheet to
		another NAOU. The transferring of CS drugs
		between NAOUs requires two processing steps.
		Step 1 - Transfer Green Sheet and Drug to another
		NAOU Stan 2 Fram on NAOU Bassiya Green Sheet
		Step 2 - From an NAOU - Receive Green Sheet Transfer & Drug
PSD GS TRANS	PSDNTFPC	Transfer GS for PCA/Infusion Signed Out to
PCA/INF PATIENT		Patient
		This option provides nurses the ability to transfer
		Green Sheets for PCA/Infusions to another
		NAOU. The transferring of these Green Sheets
		between NAOUs requires two processing steps.
		Step 1 – Transfer GS for PCA/Infusion Signed
		Out to Patient
		Step 2 – Receive GS for PCA/Infusion Signed
		Out to Patient

Option Name	Routine	Menu Text / Description
PSD NURSE	PSDRFW	Record Delayed Wastage
WASTE		This option can be used when a dispensed dose
		needs to be wasted.
PSD ON-HAND	PSDBAL	List On-Hand Amounts
		This option lists current on-hand amounts for
		drugs stocked in a pharmacy-dispensing site
		(vault). The report is selectable by one drug,
		some drugs, or ALL drugs. The drugs are listed
		alphabetically to the user's screen or a selected
		printer.
PSD ON-HAND	PSDBAL	List On-Hand Amounts
TECH		This option lists current on-hand amounts for
Lock: PSD TECH		drugs stocked in a pharmacy-dispensing site
		(vault). The report is selectable by one drug,
		some drugs, or ALL drugs. The drugs are listed
		alphabetically.
PSD ORDER	PSDORN	CS Order Entry For Ward
ENTRY		Use this option to electronically request CS drugs
		from pharmacy requiring the VA FORM 10-2638.
PSD OUTPATIENT	PSDOPT	Outpatient Rx's
		This option provides pharmacy the ability to log
		outpatient prescriptions from their CS dispensing
		vault. The pharmacist will select an outpatient
		prescription and the software will display the
		most recently filled Rx. It will display new, refill,
		and partial prescriptions. The option includes a
		failsafe requiring users to enter the correct on- hand narcotic medication count. If the user's entry
		does not match the count in VistA after three
		attempts, personnel in the CS BALANCE
		DISCREPANCY mail group are notified to
		investigate further. This failsafe can be switched
		on or off for each dispensing site using the
		BALANCE DISCREPANCY CHECK field (#37)
		in the DRUG ACCOUNTABILITY STATS file
		(#58.8), since it may not be practical for
		automated dispensing sites that cannot perform an
		on-hand medication count while dispensing drugs.
PSD PAT ID LIST	PSDLBLP	Patient ID List Print
		This option supports the printing of barcode labels
		for patient ID.
PSD PAT INQUIRY	PSDPATI	Patient/Location Inquiry
		This option may be used to verify the location of a
		patient.

Option Name	Routine	Menu Text / Description
PSD PEND NAOU	PSDORSN	Pending CS Orders Report for an NAOU
ORDERS		Use this option to list all pending CS orders. This
		report may be generated for a single drug or ALL
DCD DENID MALIL T	DCDODCT	drugs within the NAOU.
PSD PEND VAULT ORDERS	PSDORST	Pending CS Orders by Dispensing Site Pharmacy uses this option to list all pending CS
OKDEKS		orders for a specific dispensing site.
PSD PHARM TECH		Technician (CS Pharmacy) Menu
15D TH HUVI TECH		This menu provides the Pharmacy Technicians
		access to options associated with requesting,
		receiving, and processing CS orders handled by
		pharmacy and nursing. This menu is a
		combination of CS options used by both
		pharmacy technicians and RPhs. Note: Some
		menu items are accessed by certain keys.
		Menu Items:
		PSD WORKSHEET PRINT
		Print CS Dispensing Worksheet
		PSD WORKSHEET DISPENSING Fill/Dispense CS Orders from Worksheet
		·
		PSD PRINT GS PICKUP Green Sheet Ready for Pickup Log
		PSD PICKUP GS Pick Up Green Sheet
		PSD ORDER ENTRY CS Order Entry For Ward
		PSD REC GS Receipt of Controlled Substance from Pharmacy
		PSD COMPLETE GS Complete Green Sheet
		PSD GS HISTORY Green Sheet History
		PSD ON-HAND TECH List On-Hand Amounts
		PSD DAILY LOG TECH Daily Activity Log (in lieu of VA FORM 10-2320)
		PSD PRINT VAULT TRANSFERS TECH Transfer Drugs between Dispensing Sites Report
		PSD RECEIPTS MENU Receipts Into Pharmacy menu.

Option Name	Routine	Menu Text / Description
		PSD DISPENSING MENU Dispensing Menu
		PSD DESTROY MENU Destructions Menu
		PSD MFG/LOT/EXP DATE EDIT  Manufacturer, Lot #, and Exp. Date - Enter/Edit
		Complete Green Sheet [PSD COMPLETE GS]
		Destroyed Drugs Report [PSD DEST DRUGS REPORT]
		DEA Form 41 Destroyed Drugs Report [PSD DESTROY DEA41]
		Destructions Holding Report [PSD DESTRUCTION HOLDING]
		Add Existing Green Sheets at Setup [PSD EXISTING GS]
		Green Sheet Transfer Between NAOUs Report [PSD GS TRANSFER (NAOU) REPORT]
		Transfer Drugs between Dispensing Sites [PSD TRANSFER VAULT DRUGS]
		Receipts Into Pharmacy [PSD RECEIPTS MENU] menu.
		PSD RECEIVING Receiving
		PSD PURCHASE ORDER REVIEW Purchase Order Review
		PSD CP TRANSACTION REVIEW Control Point Transaction Review
		PSD DRUG RECEIPT HISTORY Drug Receipt History
		PSD PV INVOICE REVIEW Invoice Review (Prime Vendor)
		Dispensing Menu [PSD DISPENSING MENU]
		PSD WORKSHEET PRINT Print CS Dispensing Worksheet
		PSD WORKSHEET DISPENSING Fill/Dispense CS Orders from Worksheet
		PSD PRINT 2321 Dispensing/Receiving Report (VA FORM 10-

Option Name	Routine	Menu Text / Description
-		2321)
		PSD PRINT 2638 Green Sheet - Print (VA FORM 10-2638) Reprint Reports Menu [PSD REPRINT MENU]
		PSD REPRINT 2321 Reprint Disp/Receiving Report (VA FORM 10-2321)
		PSD REPRINT 2638 Green Sheet Reprint (VA FORM 10-2638)
		PSD REPRINT WORKSHEET Dispensing Worksheet Reprint
		PSD REPRINT LABEL Label Reprint for Dispensing Drug
		PSD NURSE REPRINT 2321 Reprint Transfer Between NAOUs (VA FORM 10-2321
		PSD DISPENSE W/O GS Pharmacy Dispense without (VA FORM 10-2638)
		PSD LABEL DRUG/NUMBER Label for Dispensing (Barcode)
		PSD DISPENSE TO NDES Narcotic Dispensing Equipment Orders
		Destructions Menu [PSD DESTROY MENU]
		PSD DEST NON-CS DRUG Hold a CS Drug (No Inventory Update)
		PSD DEST TEXT DRUG Non-VA Drug Placed on Hold for Destruction
		PSD MFG/LOT/EXP DATE EDIT Manufacturer, Lot #, and Exp. Date - Enter/Edit
		PSD OUTPATIENT Outpassent Rx's
		Note: The CS technician may perform all the Outpatient Rx's menu functions except releasing a prescription.

Option Name	Routine	Menu Text / Description
PSD PICKUP GS	PSDGSPU	Pick Up Green Sheet
		This option provides pharmacy the ability to
		receive a Green Sheet into pharmacy that has been
		marked as Ready for Pickup by Nursing.
PSD PRINT 2321	PSDPDR	Dispensing/Receiving Report (VA FORM 10-
		2321)
		This report lists all CS orders dispensed to a
		NAOU. This report requires the Dispensing
		Pharmacist signature and the signature of the nurse receiving the CS drugs. This report will be
		retained within pharmacy after the controlled
		substances are delivered to the ward.
		substances are derivered to the ward.
		This report replaces the VA FORM 10-2321.
PSD PRINT 2638	PSDPGS	Green Sheet - Print (VA FORM 10-2638)
		Pharmacy prints Green Sheets using this option.
		All Green Sheets, not previously printed for a
		specific NAOU, will be generated. A single
		Green Sheet print may also be selected.
PSD PRINT GS	PSDPUGS	Green Sheet Ready for Pickup Log
PICKUP		This report lists all Green Sheets ready on the
		wards to be picked up by pharmacy. This report
		requires a signature of the pharmacy employee
		picking up the Green Sheet and a signature of the
		nurse releasing the Green Sheet. This document will be retained on the ward for nurse's records.
PSD PRINT	PSDPLOG	Inspector's Log for Controlled Substances
INSPECTOR LOG		This report lists all active Green Sheets by
I WI LOT LOO		NAOU. The data includes Green Sheet number,
		drug name, date dispensed, quantity dispensed,
		expiration date (if available), blanks for quantity
		on hand, and a signature blank for verification.
PSD PRINT PHARM	PSDPND	Pharmacy Dispensing Report
DISP		This report lists by dispensing site and date range
		the drug name, pharmacy dispensing number
		(Green Sheet #), quantity dispensed, date
		dispensed, and dispensing pharmacist. Also
		there's a summary by drug of total number
		dispensed. The summary may be generated
		without the individual dispensing data.

Option Name	Routine	Menu Text / Description
PSD PRINT SETUP		Print CS Set Up Lists
LISTS		This option contains all reports or lists associated
		with setting up the files for the CS module.
		Menu Items:
		PSD DRUG LOC PRINT
		List CS Drug Location Codes
		PSD INVEN TYPE PRINT
		Print Inventory Types
		PSD NAOU PRINT
		Show Narcotic Area of Use
		PSD DRUG FILE DATA
		Drug File Stats for CS Drugs
		PSD DEA LIST
		DEA Special Handling List
		PSD STOCK PRINT
		Stock Drug Print (Stock Level and Location)
		PSD STOCK LIST
		Stock Drug List (Inventory Type and Location)
		PSD NAOU INV GROUP PRINT
		Inventory Group List (80 column)
		PSD MFG REPORT PRINT
		Manufacturer and Narcotic Information Report
		PSD STOCK UNIT LIST
		Breakdown/Dispensing Unit Report
PSD PRINT VAULT	PSDTRVR	Transfer Drugs between Dispensing Sites Report
TRANSFERS		This report displays all transactions, which
		transferred CS between dispensing sites, for a
		given period of time. The transactions list within
		dispensing site, by drug, the date/time transferred,
		quantity transferred, and pharmacist transferring
		the drug.

Option Name	Routine	Menu Text / Description
PSD PRINT VAULT	PSDTRVR	Transfer Drugs between Dispensing Sites Report
TRANSFERS TECH		This report displays all transactions, which
Lock: PSD TECH		transferred CS between dispensing sites, for a
		given period of time. The transactions list within
		dispensing site, by drug, the date/time transferred,
		quantity transferred, and pharmacist transferring.
PSD PRODUCTION		Production Reports
REPORTS		Pharmacy uses the production reports to maintain CS drug accountability and proper inventory controls. Reports generated in lieu of VA FORM
		10-2321 and VA FORM 10-2638 may be
		generated from this menu.
		Menu Items: PSD PRINT INSPECTOR LOG
		Inspector's Log for Controlled Substances
		PSD STOCK PRINT
		Stock Drug Print (Stock Level and Location)
		DOD DDIN'T DILADA DIOD
		PSD PRINT PHARM DISP
		Pharmacy Dispensing Report
		PSD PRINT GS PICKUP
		Green Sheet Ready for Pickup Log
		7 7 7 8
		PSD PEND VAULT ORDERS
		Pending CS Orders by Dispensing Site
		DCD NOT DELIVEDED
		PSD NOT DELIVERED
		Orders Filled Not Delivered
		PSD GS HISTORY
		Green Sheet History
		, and the second
		PSD DAILY LOG
		Daily Activity Log (in lieu of VA FORM 10-2320)
		PSD INVEN SHEET PRT
		Inventory Sheet Print
		Inventory Successive
		PSD ON-HAND
		List On-Hand Amounts
		DOD EVEN DED ODE
		PSD EXP REPORT
		Expiration Date Report

Option Name	Routine	Menu Text / Description
		PSD PRINT VAULT TRANSFERS
		Transfer Drugs between Dispensing Sites Report
		PSD PRT GS PICKED UP GS Picked Up Awaiting Pharmacy Review
		PSD INSP LOG BY RECD DATE Inspector's Log by Rec'd Date
		PSD RX DISPENSING REPORT Rx (Prescription) Outpatient Dispensing Report
		PSD DIGITALLY SIGNED ORDERS Digitally Signed CS Orders Report
		PSD DIG. SIGNED RELEASED RX Digitally Signed OP Released Rx Report
		PSD CS PRESCRIPTIONS REPORT Controlled Substance Prescriptions Report
		PSD DEA SUBOXONE DEA DATA – Waived Practitioner Report
PSD PRT GS INSP	PSDPSI	Under Inspector's Review - Green Sheets
HOLD		This report lists all Green Sheets placed on hold
		for review by a CS Inspector.
PSD PRT GS	PSDCPO	GS Picked Up Awaiting Pharmacy Review
PICKED UP		This report lists all Green Sheets picked up by
DCD DLID CILA CE	DCDDEV	pharmacy but still awaiting a pharmacy review.  Purchase Order Review
PSD PURCHASE	PSDREV	Use this option to review all receipt transactions
ORDER REVIEW		for a selected purchase order.
PSD PURGE	PSDPRG	Purge CS WORKSHEET File
TODICKGE	I SDI KG	This option purges the CS WORKSHEET file
		(#58.85) nightly. The CS WORKSHEET file
		(#58.85) is the holding area for CS order requests
		pending pharmacy processing. The data should
		remain in the file until orders have been received
		on an NAOU or cancelled. Once the order is
		received on an NAOU or cancelled, the data is
		purged from the file using this background job. This routine should run nightly. The time to queue
		this option to run should not conflict with system
		backup.
PSD PV INVOICE	PSDREPV	Invoice Review (Prime Vendor)
REVIEW		To list all receipts that has been posted for a
		selected Prime Vendor invoice number.
PSD READY GS	PSDNCGS	Complete a Green Sheet - Ready for Pickup
FOR PICKUP		Use this option to complete a CS Administration
Dan Dec as	PGD ID GG	Record (VA FORM 10-2638).
PSD REC GS	PSDNRGS	Receipt of Controlled Substance from Pharmacy
		Use this option to receive CS orders with a Green Sheet (VA FORM 10-2638).
		DHOUL (VATORIVI 10-2030).

Option Name	Routine	Menu Text / Description
PSD RECEIPTS		Receipts Into Pharmacy
MENU		Use this option to process receipts for purchase
		orders, control point transactions, and Prime
		Vendors.
		Menu Items:
		PSD RECEIVING
		Receiving
		PSD PURCHASE ORDER REVIEW
		Purchase Order Review
		PSD CP TRANSACTION REVIEW
		Control Point Transaction Review
		PSD DRUG RECEIPT HISTORY
		Drug Receipt History
		PSD PV INVOICE REVIEW
		Invoice Review (Prime Vendor)
PSD RECEIVING	PSDREC	Receiving
		Use this option to process receipts from a
		purchase order, control point transaction, or Prime
		Vendor, updating the balance, transaction file, and
		monthly activity.
PSD REPRINT 2321	PSDRDR	Reprint Disp/Receiving Report (VA FORM 10-2321)
		The Dispensing/Receiving Report (in lieu of the
		VA FORM 10-2321) may be reprinted. This
		report may be generated for a single Green Sheet
		or for a single NAOU within a specified date and
		time frame.
PSD REPRINT 2638	PSDRPGS	Green Sheet Reprint (VA FORM 10-2638)
		Pharmacy uses this option to reprint a single
		Green Sheet.
PSD REPRINT	PSDLBLR	Label Reprint for Dispensing Drug
LABEL		This option provides pharmacy the tools to reprint
		CS dispensing drug labels.

Option Name	Routine	Menu Text / Description
PSD REPRINT MENU	Koutine	Reprint Reports Menu This menu allows various narcotic reports and forms to be reprinted. To ensure drug accountability, certain CS documents should only be printed once. This option allows the reprinting of these controlled records.  Menu Items: PSD REPRINT 2321 Reprint Disp/Receiving Report (VA FORM 10-2321)  PSD REPRINT 2638 Green Sheet Reprint (VA FORM 10-2638)  PSD REPRINT WORKSHEET Dispensing Worksheet Reprint  PSD REPRINT LABEL Label Reprint for Dispensing Drug  PSD NURSE REPRINT 2321 Reprint Transfer Between NAOUs (VA FORM 10-
PSD REPRINT WORKSHEET	PSDRWK	Dispensing Worksheet Reprint Pharmacy personnel use this option to reprint a dispensing worksheet. The previously printed dispensing worksheet, for a given dispensing site, is utilized in reprinting this listing. The sort selected during the original printing of the worksheet sequences these orders. The reprinted worksheet lists a worksheet number assigned to this order, drug, quantity ordered, dispense to location, ordered by, comments and blanks for manufacturer, lot #, and expiration date. If this order has been processed by pharmacy since the original printing, the worksheet number will display as asterisk (*). A new worksheet will not be generated during the reprinting process.
PSD RX DISPENSING REPORT	PSDOPTR	Rx (Prescription) Outpatient Dispensing Report A report sorted by drug, prescription number, or inventory type for a date range of outpatient dispensing.

Option Name	Routine	Menu Text / Description
Option Name PSD SETUP	Routine	Menu Text / Description  Set Up CS (Build Files) Menu Options that support management of files typically created and edited during initial set up of the CS module.  Menu Items: PSD PRINT SETUP LISTS Print CS Set Up Lists  PSD SITE Site Parameters  PSD INACTIVATE NAOU Inactivate NAOU  PSD INACTIVATE NAOU STOCK DRUG Inactivate NAOU Stock Drug  PSD WARD CONVERSION Ward (for Drug) Transfer  PSD WARD ADD/DEL Add/Delete Ward (for Drug)  PSD NAOU INV GROUP SORT Sort NAOUs in Inventory Group  PSD TRANSFER MENU Transfer Stock Entries  PSD DRUG CHECK Check Stocked Drugs for CS Use  PSD BALANCE INITIALIZE Initialize Balance at Setup  PSD ENTER/EDIT MENU Enter/Edit Menu
DOD OVER	Dabatas	
PSD SITE Lock: PSD PARAM	PSDSITE	Site Parameters Site parameters for the CS module. This includes selecting an inpatient site for CS use and answering package specific questions concerning this site.
PSD STOCK DRUG	PSDSTK	Stock CS Drugs - Enter/Edit

Option Name	Routine	Menu Text / Description
EDIT		Provides access to enter or edit drugs stocked in the NAOU. This is how stocked drugs within an NAOU are added or changed. Duplicate entries are not allowed.
PSD STOCK LIST	PSDLSTK	Stock Drug List (Inventory Type and Location) This report lists all active stocked drugs you have defined in the DRUG ACCOUNTABILITY STATS file (#58.8). This report can be sorted alphabetically or by inventory type/location/drug. The data includes NAOU, location, drug name, stock level, and reorder level. The report sorted by inventory type/location/drug will include the type as printed data.
PSD STOCK PRINT	PSDPSTK	Stock Drug Print (Stock Level and Location) This report prints an alphabetic listing of all active drugs you have defined in the DRUG ACCOUNTABILITY STATS file (#58.8). This report lists NAOU, drug name, location, stock levels, all ward (for drug) assignments, and all inventory types.
PSD STOCK UNIT LIST	PSDPDU	Breakdown/Dispensing Unit Report This report provides an alphabetic listing of all active drugs you have defined in the DRUG ACCOUNTABILITY STATS file (#58.8). This listing includes breakdown unit and package size from the DRUG ACCOUNTABILITY STATS file (#58.8) and dispense unit and price per dispense unit from the DRUG file (#50).
PSD TRANSACTION MENU		Pharmacist Menu This option provides pharmacy the access to process all CS transactions. This includes receipts into pharmacy; all orders dispensed from pharmacy, and outpatient prescriptions. Completing Green Sheets allows pharmacy to complete those Green Sheets with no discrepancies, math errors, drugs returned to stock, and drugs being held for destruction. Returns to stock and holding for destruction must be drugs associated with the Green Sheet when using this option.  Menu Items: PSD RECEIPTS MENU Receipts Into Pharmacy  PSD DISPENSING MENU Dispensing Menu

Option Name	Routine	Menu Text / Description
Option Name	Routine	PSD COMPLETE GS Complete Green Sheet  PSD OUTPATIENT Outpatient Rx's  PSD TRANSFER VAULT DRUGS Transfer Drugs between Dispensing Sites  PSD INFUSION MENU Infusion Order Processing Menu
		PSD DESTROY MENU  Destructions Menu  PSD ORDER ENTRY  CS Order Entry For Ward  PSD REC GS  Receipt of Controlled Substance from Pharmacy  PSD IRL INV MENU  Barcode TRAKKER for Inventory  PSD MFG/LOT/EXP DATE EDIT  Manufacturer, Lot #, and Exp. Date - Enter/Edit
PSD TRANSFER AOU	PSDTRA	AOU to NAOU Transfer Entries  This option will "copy" the active stock entries from a selected AR/WS Area of Use into one or more selected CS NAOU. As many as 10 NAOUs may be chosen for transfer at one time. The drug name only, or the drug name, stock level, and location code, or drug name, stock level, location code, and inventory types can be transferred. The "copy" process will not copy inactive drugs. The actual transfer takes place in a background job, which is queued automatically. When the transfer is complete, the user will be notified by a MailMan message.
PSD TRANSFER MENU Lock: PSD TRAN		Transfer Stock Entries This menu option supports two distinct methods of transferring active stock. The first "copies" active stock from a NAOU into another NAOU.

Option Name	Routine	Menu Text / Description
•		The second "copies" active stock from an AR/WS
		Area of Use into a CS NAOU.
		Menu Items:
		PSD TRANSFER NAOU
		NAOU to NAOU Transfer Stock Entries
		PSD TRANSFER AOU
		AOU to NAOU Transfer Entries
PSD TRANSFER	PSDTRN	NAOU to NAOU Transfer Stock Entries
NAOU		This option will "copy" the active stock entries
		from a selected NAOU into one or more selected
		NAOUs. As many as 10 NAOUs may be chosen
		for transfer at one time. The drug name only, or
		drug name, stock level, and location code, or drug
		name, stock level, location code, and inventory
		types can be transferred. The "copy" process will
		not copy inactive drugs. The actual transfer takes
		place in a background job, which is automatically
		queued. When the transfer is complete, the user
		will be notified by a MailMan message.
PSD TRANSFER	PSDTRV	Transfer Drugs between Dispensing Sites
VAULT DRUGS		This option is utilized to transfer controlled
		substances between dispensing sites. The
		inventory balances are updated within each
		dispensing site. When drugs are being transferred
		from one dispensing site into another, a MailMan
		message will be generated to the Pharmacy
		Supervisor holding the PSDMGR security key, if
		the receiving dispensing site does not normally
		stock that particular drug.
PSD WARD	PSDWADD	Add/Delete Ward (for Drug)
ADD/DEL		This option will allow a user to add or delete a
		ward (for drug) assignment for all stock drugs in
		one or more active NAOUs.

Option Name	Routine	Menu Text / Description
PSD WARD	PSDWCHG	Ward (for Drug) Transfer
CONVERSION		This option will enable a user to change a ward
		(for drug) designation from the old ward to a new
		ward for all drugs in all NAOUs or in a single
		NAOU. This can be used, for example, when a
		ward is closed down for construction. A
		background job can be queued for a later time to
		do the conversion and a MailMan message will be
		sent to the person who queued the job when it has
		run to completion.
PSD WORKSHEET	PSDDWK	Fill/Dispense CS Orders from Worksheet
DISPENSING		Pharmacy personnel use this option to process and
		verify CS orders. The Pharmacy Dispensing
		Worksheet should be printed first using the Print
		CS Dispensing Worksheet option. CS orders may
		be dispensed by selecting an individual worksheet
		number or by sort order on the worksheet. The
		pharmacist will be prompted for dispensing
		pharmacist, dispensing site, quantity dispensed,
		manufacturer, lot #, and expiration date. The
		prompt for pharmacy dispensing number will only
		appear if your site has elected to enter these
		control numbers manually. Otherwise, the
		software will automatically generate the next
		available dispensing number.

Option Name	Routine	Menu Text / Description
PSD WORKSHEET	PSDPWK	Print CS Dispensing Worksheet
PRINT		Pharmacy personnel use this option to print a
		dispensing worksheet. This worksheet MUST be
		printed prior to pharmacy dispensing CS orders.
		Pharmacy may sort this report within a dispensing
		site, by NAOU (one, some, or ALL), or by
		inventory group. Next, the orders are sorted by
		either (1) drug, then all NAOUs, or (2) NAOU,
		then all drugs. The worksheet lists a worksheet
		number assigned to this order, drug, quantity
		ordered, dispense to location, ordered by,
		comments, and blanks for manufacturer, lot #, and
		expiration date. When using the Fill/Dispense CS
		Orders from Worksheet option, pharmacy may
		process orders by individual request number (the
		assigned worksheet number) or by worksheet. If
		the worksheet method of dispensing is selected,
		the software will display each order to the
		pharmacist in the sequence the order was printed.
		Each time this report is run, a new worksheet will
		be built and all new CS orders will be included.
		The printed sequence of CS orders will change
		with each new worksheet.

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# 9. Package-Wide Variables

# 9.1. Package-Wide Variables

There are no package—wide variables for Controlled Substances V. 3.0.

# 9.2. Package Variables

CS module contains only one package variable - PSDSITE. This variable must be defined and is required for the package to run. PSDSITE is set in the routine PSDSET as package users enter the module.

Some stations design their own menus for individual users. If this is the case, then the top level CS menu only must contain the following entry and exit code in the OPTION file (#19):

ENTRY ACTION: I '\$D(PSDSITE) D ^PSDSET EXIT ACTION: K PSDSITE

This entry and exit code should not be included on the submenus in order to preserve the variable PSDSITE. This entry and exit code must be present because the PSDSITE variable is set as users enter the package. If the Kernel's "^OPTION NAME" feature is used to jump directly into lower levels of the CS package, then the "Inpatient Site Name" prompt <u>must be</u> answered in order to define the PSDSITE variable. <u>All</u> options are independently invoked, however, if the instructions above are not followed, users will be repeatedly asked to select an Inpatient Site if there are two or more sites that are flagged as selectable for CS use.

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# 10. Resource Requirements

There are 298 CS routines that take up approximately 949K of disk space.

The KERNEL response time monitoring hooks, for capacity management studies, have been added to the Nurse Order entry routine PSDORN1 and the Pharmacy dispensing routine PSDDWK3.

# 10.1. Hardware Requirements

The following equipment is recommended to successfully implement V. 3.0:

Intermec TRAKKER 9440 (Barcode Reader)
HP LaserJet III (or any compatible laser printer e.g., 3si, 4si, 5si, and Kyocera)
VT320 (bi-directional only) or any bi-directional flow CRT

The laser single sheet feed printer is required to print the VA FORM 10-2638 and barcode ID labels. It is recommended that the printer be physically located in the narcotic vault for efficiency and security.

The laser printer must be a selectable device via the terminal server. Barcode printing is not available with a slaved printer.

The barcode TRAKKERs and CRTs are required to download/upload data necessary in maintaining a perpetual inventory within the pharmacy vault.

To support barcode label printing and downloading/uploading via the TRAKKER, certain hardware specific parameters for the TERMINAL TYPE file (#3.2) and DEVICE file (#3.5) are necessary. To assist IRM in setting up these devices the routine PSDTER has been included in the routine set. The TERMINAL TYPE file (#3.2) information includes right margin, form feed, page length, backspace, open execute, barcode on, and barcode off. DEVICE file (#3.5) data includes margin width, form feed, page length, backspace and subtype. For the TRAKKER, open printer port and close printer port is included in the terminal type information. See page 73 for examples in setting up the devices using the routine PSDTER.

## 10.1.1. Printing of Bar Codes

## **Introduction**

**Bar Code:** 3 of 9 portrait (most popular and applicable) it is variable-length, bi-directional, self-checking, alphanumeric code. It consists of 36 defined numeric and upper case alphabetic characters, seven special characters, and a stop/start character. Each character is composed of nine elements: five bars and four spaces. Three of nine elements are wide and six are narrow.

**Suggested Typeface:** Letter Gothic has a clean modern appearance and can be read at a glance when used with bar code.

#### **Printer Models tested:**

HP LaserJet III Kyocera F800A

HP LaserJet 3si Output Technology Corporation (OTC) 560 DL.

HP LaserJet 4si

### 10.1.2. HP LaserJet Printer

External Font Cartridge: HP 36596A 3037 (custom font 3-9)(3/4si)

HP C2053A #C06 (bar code and more) HP 92286W1 (bar code 3-9/OCR A)

Paper: Good quality label paper

**Terminal Type File:** An OPEN EXECUTE, BAR CODE OFF and BAR CODE ON are needed to set the print commands (escape sequences).

HP LaserJet printer matches font characteristics in the following order: (symbol set, spacing, pitch, point size, style, stroke weight, typeface)

#### **Example: TERMINAL TYPE File (#3.2)**

```
OPEN EXECUTE:
W *27, (escape sequence)
"E", (reset the printer to default settings)
*27. (escape sequence)
"&100",(&1(type of command)00(portrait orientation)
**use a lower case 1 and a upper case 0 **
*27, (escape sequence)
"(8U", (Roman8 symbol set)
*27, (escape sequence)
"s0p(fixed spacing(zero)
16.66h (pitch # characters/inch)
8.5v(point size(height of a character)
0 (upright style)
s0b (medium stroke weight)
6T", (Gothic typeface)
*27, (escape sequence)
"=" (half line feed)
```

From the HP manual use the PCL TYPEFACE LIST UNDER CARTRIDGE FONTS to select the print commands (escape sequences) for the BAR CODE ON.

Use the following device and terminal type files to print:

- (1) Green sheets on plain paper
- (2) Drug labels

#### **Example: DEVICE File (#3.5)**

```
NAME: DEMON BARCODE
                                      $I: <$Ivalue>:
ASK DEVICE: YES
                                      ASK PARAMETERS: YES
SIGN-ON/SYSTEM DEVICE: NO
                                      LOCATION OF TERMINAL: <location>
*MARGIN WIDTH: 0
                                       *FORM FEED: #
                                      *BACK SPACE: $C(8)
*PAGE LENGTH: 58
SUBTYPE: P-HP BARCODER
                                      TYPE: TERMINAL
LAT SERVER NODE: IS3D2
                                      LAT SERVER PORT: <port#>
VMS DEVICE TYPE: NOT SPOOLED
                                     LAT PORT SPEED:96
```

#### **Example: TERMINAL TYPE File (#3.2)**

```
NAME: P-HP BARCODER
                                        SELECTABLE AT SIGN-ON: NO
RIGHT MARGIN: 0
                                        FORM FEED: #
PAGE LENGTH: 58
                                        BACK SPACE: $C(8)
OPEN EXECUTE: W
27) "E" $C(27) "&100" $C(27) "(8U" $C(27) "(s0p" $S($G(PSDC
PI)=10:"10h14",1:"12h12")_"v0s0b6T"
10 PITCH: $C(27) "(s10H"
                                       12 PITCH: $C(27) "(s12H"
HIGH INTENSITY (BOLD): $C(27) "(s4b"
                                     DEFAULT LINES PER INCH:
$C(27) "&18C"
X LINES PER INCH: $C(27) "&112C"
BAR CODE OFF:
"*" $C(27) "&100" $C(27) "(8U" $C(27) "(s0p" $S($G(PSDCPI)=10:"1
0h14",1:"12h12") "v0s0b6T"
BAR CODE ON:
$S($D(PSDX2):$C(27) "*p" (PSDX2-1*300+200) "y*p" (PSDX1-1*810+38)
_"X",1:"")_$C(27)_"(0Y"_$C(27)_"(s0p8.1h12v0s0b0T
```

Use the following device and terminal type files to print:

(1) Patient ID Labels

#### **Example: DEVICE File (#3.5)**

```
NAME: CSHPBAR

ASK DEVICE: YES
SIGN-ON/SYSTEM DEVICE: NO

*MARGIN WIDTH: 0

*PAGE LENGTH: 58
SUBTYPE: P-HPCS
VMS DEVICE TYPE: NOT SPOOLED

$1: 0

ASK PARAMETERS: YES
LOCATION OF TERMINAL: SLAVE FOR

*FORM FEED: #

*BACK SPACE: $C(8)

TYPE: TERMINAL
LAT PORT SPEED: 96
```

#### **Example: TERMINAL TYPE File (#3.2)**

```
NAME: P-HPCS SELECTABLE AT SIGN-ON: NO
RIGHT MARGIN: 0 FORM FEED: #
PAGE LENGTH: 58 BACK SPACE: $C(8)
OPEN EXECUTE: W
*27,"E",*27,"&100",*27,"(8U",*27,"(s0p16.66h8.5v0s0b6T",*27,"=

"BAR CODE OFF:
"*",*27,"&100",*27,"(8U",*27,"(s0p16.66h8.5v0s0b6T",*27,"="
BAR CODE ON: *27,"&100",*27,"(0Y",*27,"(s0p12.00v4.35h0s")
```

#### 10.1.3. OTC Printer

Use the following device and terminal type file to print:

- (1) Patient ID labels
- (2) Drug labels

#### Example: DEVICE File (#3.5)

```
NAME: REX

ASK DEVICE: YES

LOCATION OF TERMINAL: DEVELOPMENT HALLWAY

*MARGIN WIDTH: 132

*FORM FEED: #

*PAGE LENGTH: 66

*BACK SPACE: $C(8)

BARCODE AVAIL: YES

MNEMONIC: SCHMEGMO

MNEMONIC: SMEGMA

MNEMONIC: DEV LP

SUBTYPE: P-OTC560

LAT SERVER NODE: DSV2

LAT SERVER PORT: LC-4-11

VMS DEVICE TYPE: NOT SPOOLED

LAT PORT SPEED: 96
```

#### **Example: TERMINAL TYPE File (#3.2)**

```
NAME: P-OTC560 RIGHT MARGIN: 132

FORM FEED: # PAGE LENGTH: 66

BACK SPACE: $C(8) 10 PITCH: $C(27)_"[w"

12 PITCH: $C(27)_"[2w"

DESCRIPTION: OTC 560DL with Epson FX100 Emulation

16 PITCH: $C(27)_"[3w" BAR CODE OFF: $C(27),"[0t"

BAR CODE ON: $C(27),"[4;4;0;2;4;2;4;2]",$C(27),"[3t"
```

#### 10.1.4. KYOCERA Printer

Prescribe is the native language of the laser printer. It gives the capability to control line and character spacing, adjust margins, change fonts, position text, draw graphics and print multiple copies. It sends commands to the printer to be executed.

#### **Commands:**

!R! causes the printer to switch from normal text printing mode to Prescribe mode.

**EXIT**; returns printer back to normal mode.

There can be an unlimited number of commands between the initial !R! and the final EXIT;.

EX: !R! command; command;

**RES**; causes a page break and reset parameters back to the initial settings.

**MRP**; moves the cursor from its current position to a specified relative position, measured in the units designated by the UNITS command.

**BARC 19**, prints specified data in barcode form. The 19 provide code 39 with no check digits.

A command name should be followed by a space.(sem;)

Each command must end with a semicolon (;).

A comma must follow a parameter and a semicolon must follow the last parameter.

Use the following device and terminal type file to print:

(1) Drug Labels

#### **Example: DEVICE File (#3.5)**

```
NAME: KYOCERA BARCODER

ASK DEVICE: YES

SIGN-ON/SYSTEM DEVICE: NO

MARGIN WIDTH: 0

PAGE LENGTH: 66

SUBTYPE: P-KYOCERA-BARCODE

$1: <$1 value>

ASK PARAMETERS: YES

LOCATION OF TERMINAL: <location>

FORM FEED: #

BACK SPACE: $C(8)

TYPE: TERMINAL
```

#### **Example: TERMINAL TYPE File (#3.2)**

```
NAME: P-KYOCERA-BARCODE

RIGHT MARGIN: 0

PAGE LENGTH: 66

OPEN EXECUTE: W "!R! RES; FONT "_$S($G(PSDCPI) = 10:1,1:6)_"; EXIT;"

10 PITCH: "!R! FONT1; EXIT;"

12 PITCH: "!R! FONT6; EXIT;"

DEFAULT LINES PER INCH: "!R! SLM 2; EXIT;"

X LINES PER INCH: "!R! SLPI 4.1; EXIT;"

BAR CODE OFF: "', 60, 60, 3, 6, 6, 6, 3, 6, 6, 6; "_$S('$D(PSDX1):"", PSDX1=PSDC)

NT: "MRP 0 , 60; ",1:"")_"EXIT;"

BAR CODE ON: "!R! FONT 6; UNIT D; "_$S('$D(PSDX1):"", PSDX1=1: "MRP 0, -60; ",1:"") $S('$D(PSDX1):"",1:"MRP "(PSDX1>1*810+38)", 0;") "BARC 19, N, '"
```

Use the following device and terminal type file to print:

(1) Patient ID labels

#### **Example: DEVICE File (#3.5)**

```
NAME: CSKYWARD

ASK DEVICE: YES

*MARGIN WIDTH: 0

*PAGE LENGTH: 66

BARCODE AVAIL: YES

TYPE: TERMINAL

$I: 0

LOCATION OF TERMINAL: SLAVE FOR

*FORM FEED: #

*BACK SPACE: $C(8)

SUBTYPE: P-KYOCERA-CSWARD-BARCODE
```

### **Example: TERMINAL TYPE File (#3.2)**

```
NAME: P-KYOCERA-CSWARD-BARCODE

RIGHT MARGIN: 0

FORM FEED: #

PAGE LENGTH: 66

OPEN EXECUTE: W "!R! RES; FONT 7; EXIT;"

CLOSE EXECUTE: W "!R!; RES; FXIT;",*27,"[4i"

DESCRIPTION: CONTROLLED SUBSTANCES PATIENT LABLES ON WARD

BAR CODE OFF: "', 60, 60, 2, 10, 10, 10, 2, 10, 10; MRP 0, 60;

EXIT;"

BAR CODE ON: "!R! FONT 7; UNIT D; MRP 0,-30; BARC 19, N, '"
```

## 10.1.5. Portable Barcode Reader (TRAKKER 9440)

CS V. 3.0 includes options for downloading IRL programs to the TRAKKER. For these options to function, the TRAKKER must be connected to your **V***ISTA* computer system. The TRAKKER comes with an RS-232 cable. The end of the cable that connects to your system terminates to a DB-25PIN connector.

The TRAKKER may be connected to the system via the auxiliary port of any CRT that supports complete bi-directional data flow and flow control (XON-XOFF) through the auxiliary port. Whatever strategy works for addressing a slave printer to the CATHODE RAY TUBE (CRT) will also work for the TRAKKER.

The following procedure illustrates stepping through the configuration process to verify whether the TRAKKER is properly prepared to interface with  $\mathbf{V}_{IST}\mathbf{A}$ .

**Note**: A brief example of the TRAKKER setup may be displayed by running the routine PSDTRAK from programmer mode.

To enter the configuration mode use the following steps:

- 1. Turn the TRAKKER on by pressing the **<on-off>** key. The unit should perform a brief self-test and then display a "Ready" prompt.
- 2. Hold down the **Ctrl**> key and press **E**. The words "CONFIGURATION MENU:" should appear on the first line of the TRAKKER display screen. This is the configuration mode.
- 3. Press the **Enter**> key until prompted to "Select or modify operating parameters?", the word **NO** will appear on the fourth TRAKKER display line.
- 4. Change **NO** to **YES** by pressing the **Space**> key.
- 5. Use the **Enter**> key to step through the basic operating parameters. Unless otherwise instructed, use the **Space**> key to make the selections:
  - a. BEEP VOLUME: Set this according to the user's preference. If the work environment is noisy, choose **HIGH**.
  - b. DISPLAY MODE: This tells the TRAKKER how to display data that is entered. Choose **BUFFERED**.
  - c. CHARACTER SET: This selects an alphabet. Choose US-ASCII.

- d. CPU RESP REQD MODE: Tells the TRAKKER whether to wait for an acknowledgment from  $\mathbf{V}_{IST}\mathbf{A}$  after each transmission of uploaded data. Choose **DISABLED**.
- e. PREAMBLE A REQUIRED: Tells the TRAKKER whether to check for one specific preamble on all data entered. Choose **NO**.
- f. LASER SCANNER MODE: Tells the TRAKKER whether to allow continuous scanning of barcode labels without release of the laser trigger in between. Choose **ONE-SHOT TRIGGER**.
- g. APPEND TIME TO DATA: Instructs the TRAKKER to add the correct time to each data record as it is transmitted. Choose **NO**.
- h. TIME IN SECONDS: Tells the TRAKKER whether time displays should include seconds. Choose **YES**.
- i. RESUME IRL PROGRAM: Choose NO.
- j. AUTOMATIC SHUT—OFF: A time-out feature such that the TRAKKER will turn itself off after a specified period of inactivity in order to conserve battery power. Enter the selection (in minutes) as a number. The TRAKKER will ignore the **Space**> key. A **10-minute** time-out period is suggested.
- k. BACKLIGHT TIMEOUT: A time-out feature on backlighting of the TRAKKER display screen. Intended to conserve battery power. Selections are made in seconds. A **60 second** time-out period is suggested.
- 6. The next configuration heading is "Select or modify comm protocol?" Use the **Space**> key to select **POINT TO POINT**.
- 7. Use the **Enter** key to step through the comm protocol:
  - a. CHECK CTS: Tells the TRAKKER whether or not to look for a CTS (clear to send) signal before transmitting data. Since  $V_{IST}A$  uses XON/XOFF, choose NO.
  - b. XON: When XON/XOFF protocol is used, the XON character must be specified here. Hold down the **Ctrl>** key and press **Q. DC1** should appear on the last TRAKKER display line. Press **Enter>** to continue.
  - c. XOFF: Hold down the <Ctrl> key and press S. Observe DC3 and press <Enter> to continue.
  - d. BAUD RATE: The TRAKKER data transmission speed. **1200 baud** is recommended.
  - e. PARITY: Selection is **DISABLED**.

- f. DATA BITS: Select 8.
- g. STOP BITS: Select 1.
- h. TIMEOUT DELAY: Tells the TRAKKER how long to wait for the next character of a downloaded IRL program before declaring an error condition. Choose **10 seconds**.
- i. INTERCHAR DELAY: Tells the TRAKKER how long to pause between characters when uploading data to  $V_{IST}A$ . Choose 50 milliseconds (ms).
- j. TURNAROUND DELAY: Delay time between receipt of a character from  $\mathbf{V}_{IST}\mathbf{A}$  and acknowledgment by the TRAKKER. This parameter is not critical with an XON/XOFF protocol. **Choose 0 ms**.
- 8. When the TURNAROUND DELAY is set, the "Select or modify barcodes?" prompt will display again. The TRAKKER is now configured for use with **V***IST***A**.

To save any changes that have been made, hold down the <**Alt**> key and then press the <**E**> key. Once saved, the changes will remain in a non-volatile section of TRAKKER memory until the TRAKKER is re-configured.

To exit the configuration mode without saving any changes, hold down the  $\langle Crtl \rangle$  key and press  $\langle Z \rangle$ . Do this instead of the escape sequence ( $\langle Alt \rangle$ ,  $\langle E \rangle$ ) described above.

**Note**: If the TRAKKER has been configured differently, first it must be <u>RESET</u>. For details on this procedure, refer to the *INTERMEC 944X TRAKKER READERS User's Manual*. Next, the user must <u>CONFIGURE</u> the TRAKKER, repeating steps 1-8 above.

## **Setting the TRAKKER clock:**

**Note**: The clock should be set on the TRAKKER before users start performing inventories. It is not necessary to press **Enter**> after responding **YES** to setting the clock.

After having turned the TRAKKER on, press < Ctrl> < T>.

The following will be displayed:

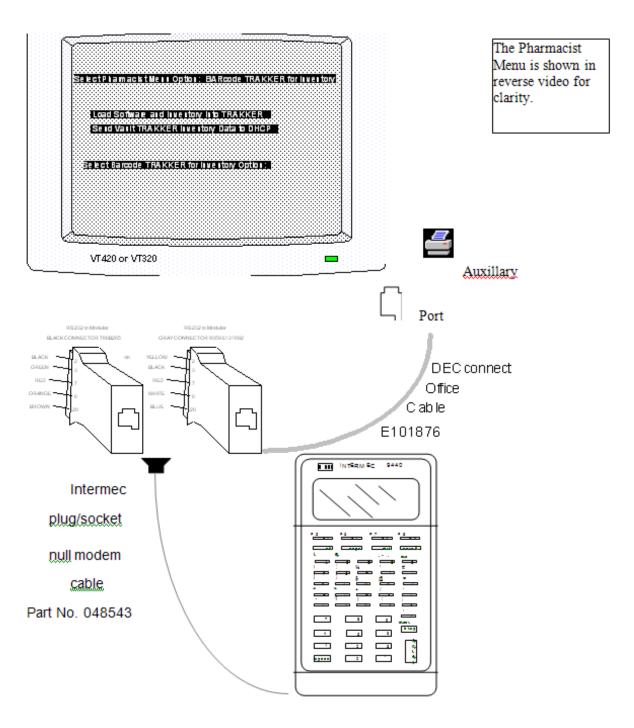
**Example: TRAKKER Clock** 

Clock is set to 93/14/11:21:06 Set the clock? Y Year : **93** 

Month: 12 Day: 28 Hour: 9 Minute: 45 Clock is set to 93/12/28:09:45

## 10.1.6. Interfacing the TRAKKER 9440 to a VT-320 Auxiliary Port

The auxiliary port of the VT-320 is a six pin modular jack, so a cable with a six pin modular plug on one end and a male DB-25 connector on the other is needed.



The PRINTER SET UP SCREEN of the VT-320 will allow configuration of the CRT for use with a TRAKKER. To get to this screen:

- 1. Hold the **Shift**> key and press **SET UP>**.
- 2. Use the cursor control keys < -->>(right arrow) to move the cursor to the box labeled Printer.
- 3. Press the **Enter** key.

From this point, the user can set the software selectable features of the auxiliary port as follows:

- 1. Speed: The baud rate of the auxiliary port. This must match the baud rate of the TRAKKER. **1200** is commonly used.
- 2. Printer to Host Communication: This must be set to **Printer to Host** for the TRAKKER upload/download operations.
- 3. Print Mode: Determines how the auxiliary port is controlled. Proper setting is **Normal Print Mode**.
- 4. XOFF: This selects whether or not the auxiliary port will use XON/XOFF data flow control. Proper setting is **XOFF**.
- 5. Bits and Parity: Selects a character format for the auxiliary port. Must match the character format of the TRAKKER.
- 6. Stop Bit: Selects the number of stop bits. Must match the format of the TRAKKER. **One** stop bit is commonly used.
- 7. Print Region: Unimportant for downloading or uploading. Commonly set to **Print Full Page**.
- 8. Printed Data Type: Used primarily with slaved printer but not critical for downloading or uploading. Commonly set to **National Only**.
- 9. Print Terminator: Selects whether or not the VT-320 should send a form feed at the end of each print operation. Proper setting is **No Terminator**.

Finally, appropriate entries in your TERMINAL TYPE file (#3.2) and DEVICE file (#3.5) are needed. For IRM, the routine PSDTER will allow the user to setup the TERMINAL TYPE file (#3.2) and DEVICE file (#3.5) information. This routine may be run from programmer's mode. Refer to page 9 in the Installation Guide for an example.

#### **Example: DEVICE File (#3.5)**

NAME : TRAKKERSL LOCATION : SLAVED 9440 FROM VT420 AUXILLARY PORT MARGIN WIDTH : 80 : 9999 PAGE LENGTH : TRAKKERSL MNEMONIC FORM FEED BACK SPACE : \$C(8) SUB-TYPE : C-VT420 (9440) TYPE : TERMINAL \$I : 0 (zero)

#### **Example: TERMINAL TYPE File (#3.2)**

NAME : C-VT420 (9440)

FORM FEED : #

OPEN EXECUTE : W \$C(0)

DESCRIPTION : TRAKKER 9440 TO AUXILLARY PORT OF VT420

OPEN PRINTER PORT : W \$C(27)\_"[5i"

CLOSE PRINTER PORT : W \$C(27)\_"[4i"

RIGHT MARGIN : 80

PAGE LENGTH : 9999

### **Functions on the TRAKKER:**

release them, then press <**C**>.

[To clear the data files the user must have already ended the IRL session.]

#### **Example: Using Routine PSDTER**

```
D ^XUP
Setting up programmer environment
Access code: [Enter your access code here]
Terminal Type set to: C-VT100
Select OPTION NAME:
>D ^PSDTER
     Select one of the following:
                    Load all three barcode Terminal Types
                   Load the P-HP BARCODER Terminal Type
                  Load the P-KYOCERA-BARCODE Terminal Type
                   Load the C-VT420 (9440) Terminal Type
                   Select your own Terminal Type
                   Display
                   Nevermind
Enter response: ?
If any of the selected Terminal Types already exist, I will ask for your
approval before proceeding.
     Select one of the following:
                   Load all three barcode Terminal Types
                    Load the P-HP BARCODER Terminal Type
                   Load the P-KYOCERA-BARCODE Terminal Type
          3
                   Load the C-VT420 (9440) Terminal Type
                   Select your own Terminal Type
          6
                   Display
                   Nevermind
Enter response: 1 Load all three barcode Terminal Types
Current settings: [If a P-HP BARCODER TERMINAL TYPE already exists, current settings will be displayed]
Are you sure that you want to stuff the Controlled Substances barcode
set-up into the P-HP BARCODER Terminal Type? No// YES
Updating P-HP BARCODER.
Update the DEVICE file? No// ?
Yes, and I will add the P-HP BARCODER Terminal Type and update a few
fields in the device of your selection.
Update the DEVICE file? No//<Enter>
Current settings: [If a P-KYOCERA BARCODE TERMINAL TYPE already exists, current settings will be
displayed]
Are you sure that you want to stuff the Controlled Substances barcode
set-up into the P-KYOCERA-BARCODE Terminal Type? No// ?
Yes and I'll update OPEN EXECUTE, RIGHT MARGIN, PAGE LENGTH, Etc. fields.
Are you sure that you want to stuff the Controlled Substances barcode
set-up into the P-KYOCERA-BARCODE Terminal Type? No// YES
Updating P-KYOCERA-BARCODE.
Update the DEVICE file? No//<Enter>
Are you sure that you want to stuff the Controlled Substances barcode
set-up into the C-VT420 (9440) Terminal Type? No// YES
Updating C-VT420 (9440).
Update the DEVICE file? No//<Enter>
```

The HP LaserJet III and the Kyocera laser printer setup used in testing the printing of the VA FORM 10-2638 follows:

-----example continues-----

#### **Example: Using Routine PSDTER (continued)**

		LASER	PRINTER	STATUS	
Software version 6.45 - Units: Inches. Current font: 1. Copies: 1.	I (	Page : P Current	eleased 04/9 Portrait. country: emulation:	0.	
Margins           Top         0.300           Bottom         10.300           Left         0.000           Right         8.000		Line Charac	0.167 eter 0.100 dth 0.010		
Memory allocation (Kbyte User memory avail. 187 Prescribe MCRO buff. 4 PCL MCRO buff 3 Parallel buff. size 10 RS232C buff. size 10 Raster size 128  Miscellaneous status Option (Comment)	7.225 1.996 3.500 0.000 0.000 3.000	In u	ase (System) ase ase	0.000	
CO(Reserved) C1(Page orientation)	0	P1(Def	ault Emulat	ion) 6	
C1(Page orientation)	0	P2(C.R	R. action)	1	
C2 (Dflt font Num-mid.) C3 (Dflt font Num-low)	0	P3(L.F	. action)	1	
C3(Dflt font Num-low)	1	P9(Esc	cape Char.)	82	
C4(PCL MCRO buff.)	0	UO(Lin	ne/Inch_high	1) 6	
C5(Dflt font Num-High)	0	U1(Lin	ne/Inch_low)	0	
C4(PCL MCRO buff.) C5(Dflt font Num-High) A1(Top margin_high)	0	U2 (Cha	r/Inch_high	1) 10	
AZ (10p margin_10w)	U	U3 (Cha	ar/Inch_low)	0	
A3(Left margin_high)	0	U5(Sta	itus page)	0	
A4 (Left margin_low) A5 (Page length_high) A6 (Page length_low)	0	U6 (Cou	intry code)		
A5(Page length_high)	13	U7(Dfl	t symbol se		
A6(Page length_low)	61	RO(Res	served)	6	
A7(Page width_high) A8(Page width_low)	8	KI (Kes	served)	0	
A8(Page width_low)	11	R2(Dfl	t paper siz	e) 0	
HO(Prescribe macro)	0	R3 (Res	served)	0	
H1(RS232C baud rate)	96	R4 (Res	served	1	
H2(RS232C data bits)	8		ster size)	1	
H3(RS232C stop bit)	1	R6(Res	served)	0	
H4(RS232C parity bit)	0	R7 (Oth	ner paper si		
H5(RS232C protocol) H6(Zoff threshold[%]) H7(Xon threshold[%])	0	R8(D.W	7. Data leng	th) 7	
H6(Zoff threshold[%])	90	R9(Res	served)	0	
H7(Xon threshold[%])	70	MO (PAR	R buffer siz	e) 1	
H8(RS232C buff. size)	1	M1 (Res	served)	0	
H9(F.F. time out)	3	M2 (Res	served)	0	
Service information /0024/0050/1061/0811/					

-----example continues-----

## **Example: Using Routine PSDTER (continued)**

* SAGG GLOBAL TRENDING DISPLAY FOR ^PSD *								
Site Name: JACKSON Complexity Level: 1 Supporting ISC: 7 System Type: VAX-DSM OS Version: V6.2 Kernel Version: 8 SAGG Version: 1.6T6 MUMPS Version: DSM V6.3D-031 for OpenVMS A								
ACTUAL GLOBAL TREND NORMALIZED GLOBAL TRE								
SESSION # OF   GB SIZE GB GROWTH GB %   GB SIZE GB GROWTH Flag DATES DAYS   In Blks In Blks Eff CHANGE  In Blks In Blks								
JUN 09, 1996 43   22,480 1,356 77% 6.0%   26,436 3,956  * JUN 22, 1996 13   22,819 339 77% 1.5%   24,015 1,196  * OCT 12, 1996 112  30,197 7,378 76% 24.4%   40,501 10,304  * NOV 09, 1996 28   33,643 3,446 76% 10.2%   36,219 2,576  * DEC 07, 1996 28   39,183 5,540 76% 14.1%   41,759 2,576  *								
STATISTICAL INFORMATION FOR ^PSD								
Beginning Global Size: 22,480 Blks (23.0 Mb) Ending Global Size: 39,183 Blks (40.1 Mb) # Sample Sessions: 5 Samples Total # of Sample Days: 181 Days Avg Daily Normalized Global Growth: 92 Blks Avg 28 Day Normalized Global Growth: 2,576 Blks Avg 1 Year Normalized PSD Growth: 33,580 Blks (34.4 Mb)								
Avg 1 Year Projected PSD Size: 72,763 Blks (74.5 Mb) Avg 2 Year Projected PSD Size: 106,343 Blks (108.9 Mb) Avg 3 Year Projected PSD Size: 139,923 Blks (143.3 Mb)								
Note: *H* means that the actual global growth increased 20% more than the average normalized global growth for this site.  *L* means that the actual global growth decreased 20% more than the average normalized global growth for this site.								

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# 11. How to Generate On-line Documentation

Throughout the entire CS module, on-line help is obtained by entering a question mark (?) at any prompt to assist in the choice of actions.

The Data Dictionaries (DDs) are considered part of the on-line documentation for this software application. Use the VA FileMan *DATA DICTIONARY UTILITIES* option to print the DDs. For instructions on obtaining a list of files exported by the CS module refer to page 13 of this manual.

The namespace for the CS module is PSD.

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# 12. Additional Information

## **Templates**

12.1.1. FILE #58.2 AOU INVENTORY GROUP

INPUT TEMPLATE(S)
PSD INV GROUP

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# 13. Appendix A Health Level 7 (HL7)

Appendix A is comprised of the HL7 interface specifications from the Birmingham Information Resources Management Field Office, Department of Veterans Affairs.

#### 13.1. Introduction

### 13.1.1. General Description

The **V**<sub>IST</sub>**A** Controlled Substances (CS) V. 3.0 package provides an interface between **V**<sub>IST</sub>**A** and a Narcotic Dispensing Equipment System (NDES). The CS package uses the HL7 Version 2.2 protocol. Messages are based on the definitions found in the HL7 Interface Standards [1]. The CS package uses Version 1.6 of the HL7 package to assist in exchanging health care information with any NDES [2]. The HL7 package can be divided into two parts: lower level protocol support between sending and receiving applications and the **V**<sub>IST</sub>**A** interface to the HL7 protocol.

#### 13.1.2. Lower Level Protocols

The term lower level refers to a portion of the Open Systems Interconnect (OSI) model. The OSI model is divided into seven layers or levels. The lower levels (layers 1 through 4) support the actual physical connection between the systems and the communications protocol used. The CS package will use the HL7 Hybrid Lower Layer Protocol over an RS-232 connection as supported by the HL7 package.

This lower level interface provides the following functions:

- Receive and send HL7 messages
- Validate the HL7 Message Header (MSH) information
- Invoke the appropriate  $V_{IST}A$  application routine to process the data in the message
- Send HL7 acknowledgment (ACK) messages back to the sending application

## **13.1.3.** Acronyms

**ACK** Acknowledgment messages

**ADT** Admission, Discharge, Transfer

**CS** Controlled Substances

**DHCP** Decentralized Hospital Computer Program

**HL7** Health Level Seven

MSH Message Header

**NDES** Narcotic Dispensing Equipment System

**OSI** Open Systems Interconnect

#### 13.1.4. Terms

#### **Dispense**

Removal of medication by an authorized user, from a system cabinet, on behalf of a patient.

#### Return

The return of unused medication by an authorized user, to a system cabinet, that has previously been dispensed for a patient and not used. Medication that is returned can be reused, and is returned to the cabinet to be dispensed for another patient.

#### Waste

The return of partially used medication, by an authorized user, to a system cabinet, that has previously been dispensed for a patient and partially used. Medication that has been wasted is no longer usable.

## 13.1.5. Assumptions and Dependencies

Each session is begun between the  $V_{IST}A$  system and the NDES at startup and will remain active as long as the supporting network and systems are functioning. The  $V_{IST}A$  system is independent of the NDES. Shut down or startup of the NDES will not adversely affect the  $V_{IST}A$  system. Likewise, shut down or startup of the  $V_{IST}A$  system should not adversely affect the NDES.

### 13.1.6. References

- [1] Health Level Seven Interface Standards Version 2.2
- [2] DHCP Health Level 7 Developer Manual Version 1.5, July 1993

## 13.2. Purpose

This document specifies an interface to the Veterans Health Information Systems and Technology Architecture (**V***IST***A**) Controlled Substances V. 3.0 package based upon the Health Level 7 (HL7) protocol. It is intended that this interface form the basis for the exchange of health care information between the **V***IST***A** Controlled Substances V. 3.0 package and any Narcotic Dispensing Equipment Systems (NDES).

#### 13.3. Overview

#### 13.3.1. Statement of Intent

The Birmingham Information Resources Management Field Office (IRMFO) is developing, and plans to implement, a generic interface to the HL7 protocol for use by the **V**IST**A** Controlled Substances V. 3.0 package in communicating with any NDES for the purpose of exchanging health care information. The interface will strictly adhere to the HL7 protocol and will avoid using Z type extensions to the protocol whenever possible.

## 13.3.2. Scope and Audience

This document describes messages that are exchanged between the  $\mathbf{V}_{IST}\mathbf{A}$  Controlled Substances V. 3.0 package and any NDES for the purpose of exchanging information concerning controlled substances. It is intended for use by vendors wishing to offer proposals for the

Controlled Substances V. 3.0 system interface, as well as facilitate an understanding on the part of the VA clinicians, IRM personnel, and clinical database developers of the nature and types of data to be made available.

## 13.4. General Specifications

#### 13.4.1. Communication Protocol

The HL7 protocol defines only the seventh level of the Open System Interconnect (OSI) protocol. This is the application level. Levels one through six involve primarily communication protocols. The HL7 protocol provides some guidance in this area. The communication protocols that will be used for interfacing with the  $\mathbf{V}_{IST}\mathbf{A}$  Controlled Substances V. 3.0 package will be based on the HL7 Hybrid Lower Level Protocol, which is described in the HL7 Implementation Guide.

### 13.4.2. Application Processing Rules

The HL7 protocol itself describes the basic rules for application processing by the sending and receiving systems. Information contained in the protocol will not be repeated here; therefore, anyone wishing to interface with the  $\mathbf{V}_{IST}\mathbf{A}$  Controlled Substances V. 3.0 package should become familiar with the HL7 protocol Version 2.2.

### 13.4.3. Message Types

Both systems will send an acknowledgment (ACK) message when the incoming message has been validated for correct syntax and content and committed to storage.

The  $V_{IST}A$  system will send admission, discharge, and transfer (ADT) messages to the NDES whenever an admission, discharge, or transfer event occurs.

The NDES will send pharmacy dispense messages (DFT) to  $\mathbf{V}$  is  $\mathbf{V}$  whenever a dispense, return, or waste event occurs\*.

## **13.4.4.** Messages

## **ADT Message Type**

The ADT transaction set provides for transmitting new or updated patient demographic and visit information. The ADT message that the  $\mathbf{V}_{IST}\mathbf{A}$  system will transmit to the NDES should contain the following segments:

SEGMENT	NAME	USER/HL7 DEFINED
MSH	Message Header	HL7
EVN	Event Type	HL7 (Table 0003)
PID	Patient Identification	HL7
PV1	Patient Visit	HL7

## **DFT Message Type**

The DFT message will be transmitted by the NDES for each instance of dispensing drugs to a patient.

SEGMENT	NAME	USER/HL7 DEFINED
MSH	Message Header	HL7
EVN	Event Type	HL7 (Table 0003)
PID	Patient Identification	HL7
PV1	Patient Visit	HL7
FT1	Financial Transaction	HL7

#### 13.4.5. Fields

The segment definition tables list and describe the data fields in the segment and characteristics of their usage. The following information is specified about each data field.

**Sequence Number (SEQ):** The ordinal position of the data field within the segment.

This number is used to refer to the data field in the text comments that follow the segment definition table.

Length (LEN): The maximum number of characters that one occurrence

of the data field may occupy.

**Data Type (DT):** Restrictions on the contents of the data field as defined

by the HL7 Standard.

Optionality (R/O/C): Whether the data field is required, optional, or

conditional in a segment. The designations are: R - required; O (null) - optional; and C - conditional on the

trigger event.

**Repetition (RP/#):** Whether the field may repeat. The designations are: N

(null) - for no repetition allowed; Y - the field may repeat an indefinite or site determined number of times; and (integer) - the field may repeat up to the number of

times specified in the integer.

**Table (TBL#):** A table of values which may be defined by HL7 or

negotiated between he VISTA application and the

vendor system.

**Element Name:** Globally unique descriptive name for the field.

The following HL7 fields will be used to support the exchange of data for each of the segments listed in the segments paragraph. Tables referenced in the segments can be found in the HL7 Interface Standards document. For the standard HL7 segments, definitions of each element are provided for those fields, which are utilized. The field definitions can include specific information (e.g., expected format) for transmission.

## 13.4.6. Message Segment Definitions:

## MSA - Message Acknowledgment

The MSA segment contains information sent while acknowledging another message.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME
1	2	ID	R		8	Acknowledgment Code
2	20	ST	R			Message Control ID
3	80	ST				Text Message

#### MSA field definitions

## (A) Acknowledgment Code (ID)

The ACKNOWLEDGMENT CODE can have the following values:

**HL7 Table 8 - ACKNOWLEDGMENT CODE** 

VALUE	DESCRIPTION
AA	Application Accept
AE	Application Error
AR	Application Reject

## (B) Message Control ID (ST)

This field identifies the message sent by the sending system. It allows the sending system to associate this response with the message for which it is intended.

## (C) Message (ST)

This is an optional text field that further describes an error condition. The text may be printed in error logs or presented to an end user.

### MSH - Message Header

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME
1	1	ST	R			Field Separator
2	4	ST	R			Encoding Characters
3	15	ST				Sending Application
4	20	ST				Sending Facility
5	30	ST				Receiving Application
6	30	ST				Receiving Facility
7	26	TS				Date/Time Of Message
8	40	ST				Security
9	7	CM	R		76	Message Type
10	20	ST	R			Message control ID
11	1	ID	R		103	Processing ID
12	8	ID	R		104	Version ID

#### MSH field definitions

## Separator (ST)

This field is the separator between the segment ID and the first real field, MSH-2-ENCODING CHARACTERS. It serves as the separator and defines the character to be used as a separator for the rest of the message. The  $\mathbf{V}_{IST}\mathbf{A}$  system uses: |.

#### Encoding Characters (ST)

This field is four characters in the following order: the component separator, repetition separator, escape character and sub component separator. The  $\mathbf{V}_{IST}\mathbf{A}$  system uses:  $^{\sim}$   $^{\sim}$  &.

## Sending Application (ST)

This field is used for interface with lower level protocols.

#### Sending Facility (ST)

This field addresses one of several occurrences of the same application within the sending system. It is entirely site-defined.

#### Receiving Application (ST)

This field is used for interface with lower level protocols.

#### Receiving Facility (ST)

This field identifies the receiving application among multiple identical instances of the application running on behalf of different organizations.

#### Date/Time Of Message (TS)

This field is the date/time that the sending system created the message. If the time zone is specified, it is used throughout the message as the default time zone.

### Security (ST)

In some applications of HL7 this field is used to implement security features. Its use is not yet further specified.

#### Message Type (CM)

MESSAGE TYPE is a composite element made up of: <message type> <trigger event> The first component is the message type, found in table 76 - MESSAGE TYPE. The second component is the trigger event code found in table 3 - EVENT TYPE CODE. The receiving system uses this field to know the data segments to recognize, and possibly, the application to which to route this message.

#### Message Control ID (ST)

This field is a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message Acknowledgment segment (MSA).

## Processing ID (ID)

This field is used to decide whether to process the message as defined in the HL7 application processing rules.

**HL7 Table 103 - PROCESSING ID** 

VALUE	DESCRIPTION
D	Debugging
P	Production
Т	Training

## VERSION ID (ID)

This filed is matched by the receiving system to its own version to be sure the message will be interpreted correctly. Only the following values are expected/accepted.

**HL7 Table 104 - VERSION ID** 

VALUE	DESCRIPTION
2.1	Release 2.1 March 1990
2.2	Release 2.2 December 1994

### ERR - Error

The ERR segment is used to add error comments to acknowledgment messages.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME
1	80	CM	R	Y	60	Error Code and Location

#### ERR field definitions

Error code and location (CM)

This field is in standard HL7 format.

## **EVN - Event Type**

The EVN segment is used to communicate necessary trigger event information to the NDES.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME
1	3	ID	R		0003	Event Type Code
2	19	TS	R			Date/Time of Event

#### EVN field definitions

Event Type Code (ID)

A01 Admit a patient

A02 Transfer a patient

A03 Discharge a patient

P03 Post detail financial transaction

Date/Time of Event (TS)

The date/time of the admission, transfer, discharge, or financial transaction.

## **PID - Patient Identification**

The PID segment is used by both applications as the primary means of communicating patient identification information. This segment contains permanent patient identifying, and demographic information that, for the most part, is not likely to change frequently.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME
1	4	SI				Set ID - Patient ID
2	16	CK				Patient ID (External ID)
3	16	CK	R	Y		Patient ID (Internal ID)
5	48	PN	R			Patient Name

#### PID field definitions

Set ID - patient ID (SI)

This is a sequence number used to identify the segment repetitions.

### Patient ID (External ID) (CK)

This is a composite element made up of: check digit <check digit</pre> <check digit</pre>

When the **V***ISTA* Controlled Substances V. 3.0 system transmits to the NDES, the first component is the social security number from the Patient file. The second and third components are the check digit and check digit scheme.

## Patient ID (internal ID) (CM)

This is a composite element made up of: check digit <check digit</pre> <check digit</pre>

When the **V***IST***A** Controlled Substances V. 3.0 system transmits to the NDES, the first component is the unique internal entry number from the Patient file. The second and third components are the check digit and check digit scheme.

## Patient name (PN)

This field is in standard HL7 format.

#### **PV1 - Patient Visit**

The PV1 segment is used by Registration/ADT applications to communicate information on a visit specific basis.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME
1	4	SI				Set ID - Patient Visit
3	12	CM	R			Assigned Patient Location
6	12	CM				Prior Patient Location
7	60	CN	R			Attending Doctor

#### PV1 field definitions

Set ID - patient visit (SI)

This is a sequence number used to identify the segment repetitions.

## **Assigned Patient Location**

This is an HL7 ID type field that consists of three components: Nurse Unit (HL7 terminology), Room, and Bed. For the purposes of this interface, Nurse Unit will be considered synonymous with Ward Location. The value of the Ward Location component of the Assigned field will be a one to three digit code.

#### Prior Patient Location

This is an HL7 ID type field that consists of three components: Nurse Unit (HL7 terminology), Room, and Bed. For the purposes of this interface, Nurse Unit will be considered synonymous with Ward Location. The value of the Ward Location component of the Prior Patient Locations field will be a one to three digit code.

#### Attending doctor (CN)

This field is in standard HL7 format.

## FT1 - Financial Transaction Segment

Housed in the DFT message, the FT1 segment is used for each instance of dispensing, returning, or wasting drugs for a patient.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME
2	12	ST				Transaction ID
4	8	DT	R			Transaction Date
5	8	DT				Transaction Posting Date
6	8	ID	R			Transaction Type
7	20	ID	R			Transaction Code
10	4	NM	R			Transaction Quantity
20	60	CN	R			Performed By Code

## PV1 field definitions-

Transaction ID (ST)

Number assigned by the sending system for control purposes. The number can be returned by the receiving system to identify errors.

Transaction Date (DT)

Date of transaction

Transaction Posting Date (DT)

Date the transaction was sent to  $\mathbf{V}_{IST}\mathbf{A}$ 

Transaction Type (ID)

D - Dispensed, R - Returned, W - Wasted

Transaction Code (ID)

Code for the purpose of uniquely identifying the transaction

Transaction Quantity (NM)

The quantity of medication dispensed, returned, or wasted.

Performed By Code (CN)

The composite number/name of the person, which performed the transaction, with number being the internal entry number (DUZ) from the  $V_{IST}A$  NEW PERSON file (#200)

## 13.5. Transaction Specifications

#### 13.5.1. General

The flow of transactions between the **V***ISTA* system and the NDES may occur in two ways.

- 1. The **V***ISTA* system will send ADT event type HL7 messages to the NDES whenever an admission, discharge, or transfer event occurs.
- 2. The NDES will send pharmacy dispense messages (DFT) to  $\mathbf{V}_{IST}\mathbf{A}$  whenever a dispense, return, or waste event occurs.

## 13.5.2. Specific Transactions

#### Admit a Patient (Event Code A01)

When a patient is admitted, an ADT Message (ADT) with event code A01 is sent from the  $\mathbf{V}_{IST}\mathbf{A}$  system to the NDES. These ADT messages would consist of the following segments.

<u>ADT</u>	ADT MESSAGE
MSH	Message Header
EVN	Event Type
PID	Patient Identification
PV1	Patient Visit

**Example: Admit a Patient (Event Code A01)** 

```
MSH|^~\&|PSD-CS|500|PSD-CS|NDES|199112202359||ADT^A01|12345-1|P|2.1

EVN|A01|19911220100020

PID|1|000-77-1640^8^M10|1^1^M10||CSPATIENT^ONE||||||||||

PV1||I|15^E200^2|||3333^CSPROVIDER^ONE
```

The NDES would then send a General Acknowledgment (ACK) message back to the **V***IST***A** system.

## **Transfer (Event Code A02)**

When a patient is transferred and their location or treating specialty changes, an ADT Message with event code A02 is sent from the  $\mathbf{V}IST\mathbf{A}$  system to the NDES. This ADT message would consist of the following segments.

<b>ADT</b>	ADT MESSAGE
	N
MSH	Message Header
EVN	Event Type
PID	Patient Identification
PV1	Patient Visit

#### **Example: Transfer (Event Code A02)**

```
MSH|^~\&|PSD-CS|500|PSD-CS|NDES|199112202359||ADT^A01|12345-1|P|2.1

EVN|A02|19911220100020

PID|1|000-77-1640^8^M10|1^1^M10||CSPATIENT^ONE||||||||||

PV1||I|15^E200^2|||3333^CSPROVIDER^ONE
```

The NDES would then send a General Acknowledgment (ACK) message back to the **V***IST***A** system.

## **Discharge (Event A03)**

When a patient is discharged, an ADT Message with event code A03 is sent from the **V***IST***A** system to the NDES. This ADT message would consist of the following segments.

<u>ADT</u>	ADT MESSAGE
MSH	Message Header
EVN	Event Type
PID	Patient Identification
PV1	Patient Visit

#### **Example: Discharge (Event A03)**

```
MSH|^~\&|PSD-CS|500|PSD-CS|NDES|199112202359||ADT^A01|12345-1|P|2.1

EVN|A03|19911220100020

PID|1|000-77-1640^8^M10|1^1^M10||CSPATIENT^ONE|||||||||

PV1||I|15^E200^2|||3333^CSPROVIDER^ONE
```

The NDES system would then send a General Acknowledgment (ACK) message back to the  $\mathbf{V}_{IST}\mathbf{A}$  system.

# 14. Glossary

### **Action Prompt**

There are two action prompts that occur during the pharmacy dispensing process. The action codes appear in "()". The following codes are valid:

- V Verify or Dispense the order (Displayed only to the dispensing pharmacist)
- P Process or Fill the order (Displayed only to the pharmacy technician or pharmacist filling but not dispensing the order)
- DC Cancel the order
  E Edit the order
  B Bypass the order
  S Show the order

## **Completion Status**

A review status is attached to each CS Green Sheet returned to pharmacy. The following are valid:

**NO DISCREPANCY**—No discrepancy found.

**TURN IN FOR DESTRUCTION**—CS drug turned in to be destroyed.

**RETURNED TO STOCK**—CS Drug returned to stock. The dispensing site inventory balance will be updated.

MATH ERROR—CS drug discrepancy found.

**GREEN SHEET NOT SIGNED BY NURSE**—GS missing nurse's signature.

**OTHER - REFERRED TO PHARMACY SUPERVISOR**—CS drug discrepancy referred to supervisor for resolution.

**Daily Activity Log** 

The Daily Activity Log lists data, within a selected date range, associated with the VA FORM 10-2320 for a dispensing site.

#### Dispensing #

Control number assigned by pharmacy when dispensing a CS drug. This number is used to track the Green Sheet and drug. Also referred to as the Disp #, Green Sheet #, or GS # throughout the CS package.

Dispensing/Receiving Report (in lieu of VA FORM 10-2321) This report can be printed in lieu of VA FORM 10-2321 and lists all Controlled Substances orders dispensed to an NAOU. The signature of the dispensing pharmacist and the nurse receiving the drug are required.

**Dispensing Site** 

An NAOU set up as a pharmacy vault that dispenses CS drugs.

**Dispensing Worksheet** 

This worksheet compiles a list of all pending CS request orders for a selected dispensing site. A worksheet number, drug name, quantity ordered, requesting NAOU, ordered by, comments, and blanks for pharmacy dispensing number, manufacturer, lot number, and expiration date are listed on the worksheet.

**Drug Address Code Expansion** 

Text used to clarify the meaning of a drug address code. For example, the code S would be expanded and printed as shelf. (These codes and expansions are locally created terms.)

**Drug Address Code** (Location Code)

A code that represents the location of a drug in the NAOU. For example, if TYLOX is stored in an NAOU on the second set of shelves, third shelf from the top, its drug address code could be expressed as S,2,3. The address code can consist of up to three levels separated by a comma. Each level should further define the exact location. The code is associated with an expansion for clarity.

**Green Sheet #** 

Control number assigned by pharmacy when dispensing a CS drug. This number is used to track the Green Sheet and drug. It is also referred to as the GS #, Dispensing #, or Disp # throughout the CS package.

**Green Sheet** 

The CONTROLLED SUBSTANCE ADMINISTRATION RECORD (VA FORM 10-2638) is referred to as a Green Sheet or GS throughout the CS package. Pharmacy dispensing number, drug name, expiration date, quantity dispensed, lot number, ordered by, dispensed by, and ward (NAOU) are printed on the form.

**Inpatient Site** Inpatient Site must be defined for each NAOU. The CS

software utilizes this data to distinguish multi-divisional

sites.

**Inspector's Log**This report lists all active Green Sheets by NAOU. It

includes the following information: Green Sheet #, drug name, date dispensed, quantity dispensed, expiration date (if available), blanks for quantity on hand, and a signature

blank for verification.

Interactive Reader Language (IRL) The Interactive Reader Language (IRL) is a language used to write programs on barcode readers that allow the reader

to interact with the user.

Master Vault An NAOU set up as your primary dispensing site.

**NAOU Inventory Group** An NAOU Inventory Group is defined by pharmacy to

represent the Narcotic Areas of Use, which are inventoried together as a group. By grouping the commonly inventoried NAOUs under an easy to remember group name, the

elements of the inventory are established, and do not have to be redefined every time an inventory is scheduled.

Narcotic Location An NAOU set up for the nursing wards, pharmacy IV

room, or a pharmacy working stock area.

NAOU - Narcotic Area of Use A Narcotic Area of Use (NAOU) is a place where

commonly stocked CS drugs are stored for use by

pharmacy, wards or treatment areas. There are three types of NAOUs: 1) Master Vault, 2) Satellite Vault and 3)

Narcotic Locations.

**Order Status** A processing status is attached to each CS request order.

The following are valid:

ORDERED - NOT PROCESSED—

Ordered by nursing but not processed by pharmacy.

**PROCESSED - NOT DISPENSED**—Processed (filled)

by pharmacy but not yet dispensed.

**FILLED - NOT DELIVERED**—Dispensed and verified by pharmacy but not delivered to the requesting NAOU.

**DELIVERED - ACTIVELY ON NAOU**—Drug stored

on the NAOU.

#### COMPLETED - GREEN SHEET READY FOR

**PICKUP**—Nursing has flagged the Green Sheet ready for pharmacy pickup.

**COMPLETED - GREEN SHEET PICKED UP**—Green Sheet returned to pharmacy but not yet reviewed.

**COMPLETED - REVIEWED**—Pharmacy has reviewed the Green Sheet.

#### **COMPLETED - PENDING PROBLEM**

**RESOLUTION**—Pharmacy has reviewed the Green Sheet and a problem exists.

**CANCELLED**—Order cancelled.

**TRANSFERRED TO ANOTHER NAOU**—Order and drug transferred to another NAOU.

**UNDER REVIEW BY INSPECTOR**—Order and drug pulled from NAOU by CS Inspector for review.

**LOGGED BY TRAKKER**—All drug doses from this order have been logged out to patients using the TRAKKER.

Allocate this key to pharmacy supervisors responsible for maintaining the narcotic vault. This key controls access to

reports listing various errors and exception conditions generated when entries are filed from the barcode TRAKKER. Also, the holders of this key will receive

electronic mail messages created by using the TRAKKER.

Allocate this key to nurses, usually LPNs, who may only receive and administer controlled substances drugs, but cannot place order requests.

Allocate this key to **only** the Inpatient Pharmacy

Coordinators. This key controls the printing of the Green Sheets and the range of automated dispensing numbers for

a dispensing site.

**PSD ERROR** 

**PSD NURSE** 

**PSD PARAM** 

#### **PSD TECH**

Allocate this key to control substance technicians. This key controls access to the *List On-Hand Amounts* [PSD ON-HAND TECH], *Transfer Drugs between Dispensing Sites Report* [PSD PRINT VAULT TRANSFERS TECH], and the *Daily Activity Log (in lieu of VA FORM 10-2320)* [PSD DAILY LOG TECH] options on the *Technician (CS Pharmacy) Menu* [PSD PHARM TECH].

PSD TECH ADV

Allocate this key to specific control substance technicians who perform advance functions. This key controls access to the Receipts Into Pharmacy [PSD RECEIPTS MENU], Dispensing Menu [PSD DISPENSING MENU], Destructions Menu [PSD DESTROY MENU], Manufacturer, Lot #, and Exp. Date - Enter/Edit [PSD] MFG/LOT/EXP], Outpatient Rx's [PSD OUTPATIENT], Complete Green Sheet [PSD COMPLETE GS], Destroyed Drugs Report [PSD DEST DRUGS REPORT], DEA Form 41 Destroyed Drugs Report [PSD DESTROY DEA41], Destructions Holding Report [PSD DESTRUCTION HOLDING], Add Existing Green Sheets at Setup [PSD] EXISTING GS], Green Sheet Transfer Between NAOUs Report [PSD GS TRANSFER (NAOU) REPORT], NAOU Usage Report [PSD NAOU USAGE], Transfer Drugs between Dispensing Sites [PSD TRANSFER VAULT DRUGS] options on the Technician (CS Pharmacy) Menu [PSD PHARM TECH]. The CS technician may perform all functions of the *Outpatient Rx's* [PSD OUTPATIENT] option except releasing prescriptions.

**PSD TRAN** 

Allocate this key only to the Inpatient Pharmacy Coordinator. This key controls the access to the *NAOU to NAOU Transfer Stock Entries* [PSD TRANSFER NAOU] option. Users can copy stock entries from one NAOU into another NAOU or from an Auto Replenishment/Ward Stock (AR/WS) Area Of Use (AOU) into an NAOU.

**PSDMGR** 

Allocate this key to the Inpatient Pharmacy Coordinators. This key controls the editing of CS files for package set up and it locks the *Supervisor (CS) Menu* option.

**PSDRPH** 

This key authorizes pharmacists to verify and dispense controlled substance prescription(s). The PSDRPH security key should be given to registered pharmacists working on controlled substances to honor Drug Enforcement Administration (DEA) regulations and should not be given to non-pharmacists except in cases where the package coordinator (ADPAC) is not a registered pharmacist.

**PSJ PHARM TECH** Allocate this key to pharmacy technicians handling

controlled substances orders.

**PSJ RNURSE** Allocate this key to nurses who request and receive

controlled substances orders on the wards.

**PSJ RPHARM** Allocate this key to pharmacists who can dispense and

receive controlled substances drugs.

Satellite Vault An NAOU set up as a secondary dispensing site.

**Stock Drug** A drug (from the DRUG file (#50)) stored in an

NAOU.

**Stock Level** The quantity of a drug stocked in a specific NAOU.

**TRAKKER** A barcode collection system utilized by scanning

barcode labels or pressing the keypad.

VISTA Veterans Health Information Systems and Technology

Architecture

Ward (for Drug) The name of the ward or wards that will use this particular

drug. It is important to accurately answer this prompt because this is the link between the Inpatient Medications V. 5.0 package and the Controlled Substances V. 3.0 package. The Inpatient Medications V. 5.0 package looks at

this field to know if the drug is a CS stocked drug.