

PHARMACY DATA MANAGEMENT

**USER MANUAL**

Version 1.0

September 1997

(Revised April 2011)

Department of Veterans Affairs Product Development

 **Revision History**

Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. If the Revised Pages column lists “All,” replace the existing manual with the reissued manual. If the Revised Pages column lists individual entries (e.g., 25, 32), either update the existing manual with the Change Pages Document or print the entire new manual.

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Revised Pages** | **Patch Number** | **Description** |
| 04/2011 | i, ii, iii, added iv, v; changed 3, 4, 45, 46;added 46a-46d, re-numbered all sections starting on page 87 and endingwith page 106; changed page. 89; added 90e and 90f; changed 99-106; added 106a-b; deleted 107-112;changed 151,153, 154; added 154a-b;updated index; | PSS\*1\*136 & PSS\*1\*117 | Besides the developer’s changes, this document incorporates the comments from REDACTED and colleagues for the PRE functionality included with patch PSS\*1\*117 (a combined patch with PSS\*1\*136).Sections changed are:* Changed overview of menu item descriptions to match application
* Changed menu item description named ***Drug Interaction Management*** to ***Order Check Management*** and changed text
* Changed submenu item ***Enter/Edit Local Drug Interaction*** [PSS-INTERACTION-LOCAL-ADD] to ***Request Changes to Enhanced Order Check Databas***e. [PSS ORDER CHECK CHANGES] and changed text.
* Changed example in ***Report of Locally Entered Interactions*** option

Section deleted:* Deleted ***Enhanced Order Checks Setup Menu*** and all its sub-menu items (*Find Unmapped Local Medication Routes; Map Local Medication Route to Standard; Medication Route Mapping Report; Medication Route File Enter/Edit; Medication Route Mapping History Report; Request Change to Standard Medication Route; Find Unmapped Local Possible Dosages; Map Local Possible Dosages; Local Possible Dosages Report; Strength Mismatch Report; Enter/Edit Dosages; Request Change to Dose Unit; Mark PreMix Solutions; IV Solution Report; Administration Schedule File Report; Medication Instruction File Report*)

The deleted Enhanced Order Checks Setup Menu and its submenus is replaced by the following addition:* Added ***PEPS Services*** menu and its submenus: *Check Vendor Database Link; Check PEPS Services Setup; and Schedule/Reschedule PEPS Interface*

Added a heading for ***Stand-Alone Menu Options*** with the description for the *Enable/Disable Vendor Database Link* option and a short description for the *Other Language**Translation Setup* option. |

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| **Date** | **Revised Pages** | **Patch Number** | **Description** |
|  |  |  | Added definitions in the glossary for PECS and PEPS, and updated the index.REDACTED |
| 04/11 | i-ii, 38, 40,62d-f, 64, 64a | PSS\*1\*153 | Renamed the MED ROUTE field (#.06) of the PHARMACY ORDERABLE ITEM file (#50.7) to be DEFAULT MEDROUTE. Provided the ability to print the POSSIBLE MED ROUTES multiple on *the Default Med Route For OI Report* [PSS DEF MED ROUTE OI RPT] option.REDACTED |
| 06/10 | i, iii, 84, 84a- | PSS\*1\*143 | Added new Schedule Validation Requirements. Updated Index. |
|  | 84b, 203, 205- |  |  |
|  | 206 |  | REDACTED |
| 02/10 | iii-iv, 3-4, 44a- | PSS\*1\*147 | Described new process for requesting changes to Standard |
| d, 47-48, 61- |  | Medication Routes and the New Term Rapid Turnaround |
|  |
|  | 62d, 89-90b, |  | (NTRT) process; |
|  | 112, 203-206 |  | Added *IV Additive/Solution Reports* menu, with suboptions |
|  |  |  | *IV Solution Report* option and *V Additive Report* [PSS IV |
|  |  |  | ADDITIVE REPORT] option |
|  |  |  | Added *Default Med Route for OI Report* option to the |
|  |  |  | *Medication Routes Management...* menu*.*(this change was made |
|  |  |  | but not documented with PSS\*1\*140) |
|  |  |  | Updated *Drug Enter/Edit* option to display NUMERIC DOSE |
|  |  |  | and DOSE UNIT fields defined for Local Possible Dosage |
|  |  |  | Updated the Drug Enter/Edit option display to include the new |
|  |  |  | ADDITIVE FREQUENCY field |
|  |  |  | Updated Table of Contents and Index |
|  |  |  | REDACTED |
| 10/09 | i, 64a-b, 65,65a-b, 66 | PSS\*1\*141 | Added ASSOCIATED IMMUNIZATION field to *Edit Orderable Items* option and *Dispense Drug/Orderable Item Maintenance* option. Reorganized content within sections to accommodate new information.REDACTED |
| 08/09 | iii-iv, 53,62a-b, 63, 81,203 | PSS\*1\*140 | Added DEFAULT MED ROUTE FOR CPRS field and *Default Med Route For OI Report* [PSS DEF MED ROUTE OI RPT] option for the enhancement of default medication route being defined for an orderable item.REDACTED |
| 07/09 | 27-34 | PSS\*1\*131 | Added explanations of DEA special handling code U for sensitive drug.REDACTED |
| 05/09 | 81 | PSS\*1\*137 | Added Automate CPRS Refill field to the *Pharmacy System Parameters Edit* [PSS MGR] option.REDACTED |

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| --- | --- | --- | --- |
| **Date** | **Revised Pages** | **Patch Number** | **Description** |
| 02/09 | All | PSS\*1\*129 | Pages renumbered to accommodate added pages. Pharmacy Reengineering (PRE) V.0.5 Pre-Release. Restructured *Pharmacy Data Management* menu:* Grouped related options under the following new sub-menus: *Drug Text Management, Medication Instruction Management, Medication Routes Management,* and *Standard Schedule Management*
* Added temporary *Enhanced Order Checks Setup Menu*
* Added the following options: *Find Unmapped Local Medication Routes, Find Unmapped Local Possible Dosages, Map Local Medication Route to Standard, Map Local Possible Dosages, Mark PreMix Solutions, Request Change to Dose Unit*, and *Request Change to Standard Medication Route*
* Added the following reports: *Administration Schedule File Report, IV Solution Report, Local Possible Dosages Report, Medication Instruction File Report, Medication Route Mapping Report, Medication Route Mapping History Report,* and *Strength Mismatch Report*
* Updated Table of Contents, Index, and Glossary (G. Tucker, PM; V. Howell, Tech. Writer)
 |
| 09/97 |  |  | Original Release of User Manual |

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# Chapter One Pharmacy Data Management Options

The PDM options are listed below. Each of these options is explained in detail later in this user manual.

CMOP Mark/Unmark (Single *drug) * *Dosages ...*

The *CMOP Mark/Unmark (Single drug)* option is displayed before the *Warning Builder* option in the PDM Main Menu. For documentation purposes, it is being left at the beginning of this menu.

*Auto Create Dosages Dosage Form File Enter/Edit Enter/Edit Dosages*

*Most Common Dosages Report Noun/Dosage Form Report Review Dosages Report*

*Local Possible Dosages Report Request Change to Dose Unit*

*Drug Enter/Edit*

*Order Check Management*

*Request Changes to Enhanced Order Check Database Report of Locally Entered Interactions*

*Electrolyte File (IV)*

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*Patient Instructions Report Orderable Item Report*

*Formulary Information Report Drug Text Management ...*

*Drug Text Enter/Edit Drug Text File Report*

*Pharmacy System Parameters Edit Standard Schedule Management ...*

*Standard Schedule Edit Administration Schedule File Report*

*Synonym Enter/Edit*

*Other Language Translation\* Controlled Substances/PKI Reports*

*DEA Spec Hdlg & CS Fed Sch Discrepancy Controlled Substances Not Matched to NDF CS (DRUGS) Inconsistent with DEA Spec Hdlg*

*CS (Ord. Item) Inconsistent with DEA Spec Hdlg Send Entire Drug File to External Interface*

*IV Additive/Solution*

*IV Additive Report IV Solution Report*

*Mark PreMix Solutions*

*Warning Builder Warning Mapping PEPS Services Menu*

*Check Vendor Database Link Check PEPS Services Setup*

*Schedule/Reschedule Check PEPS Interface*

### Stand-Alone Menu Options

***\*Enable/Disable Vendor Database Link*** *is a stand-alone option that is to be used* ***ONLY*** *by* technical personnel to turn on/off the database connection if required for debugging. Normally it is enabled and the Vendor Database updates are performed centrally in Austin and Martinsburg, not at the individual sites. This option is rarely used. *It is* ***NOT*** *exported as part of the main PDM menu [PSS MGR]*

\*Other Language Translation Setup is a stand-alone option that must be assigned to the person(s) responsible for maintaining it.

# Order Check Management

#### [PSS ORDER CHECK MANAGEMENT]

**Note**: Dosing Checks during Drug Order Entry will be available ***only*** with the release of MOCHA V2.0.

The *Order Check Management* sub-menu provides options to request custom changes to the Enhanced Order Check (drug interaction, duplicate therapy, and dosing) vendor database. It also allows the user to review drug interactions and their severity, which have been added locally to the DRUG INTERACTION file (#56) in order to determine whether the same changes need to be requested as custom changes to the new vendor database.

### Request Changes to Enhanced Order Check Database

#### [PSS ORDER CHECK CHANGES]

The Request Changes to Enhanced Order Check Database option allows Pharmacy users to request custom changes to the Enhanced Order Check (drug interaction, duplicate therapy and dosing) vendor database. The user can request the following custom changes:

* + - * Add a new drug interaction
			* Change an existing drug interaction severity
			* Change to a duplicate therapy
			* Change to a dosing record for a drug

*Note that although the ability to request a custom dosing record change is available with the release of MOCHA V1.0, the introduction of dosing order checks via backdoor Pharmacy will be available only with MOCHA V2.0.*

Depending on the request, the user is prompted for different pieces of information.

The request is directed to an Outlook mail group REDACTED that will review and act on the requests. A copy of the request is also sent to the user’s VistA email account. If the user is not ready to send the request just yet, answering ‘No’ at the transmit prompt will send the request just to the user’s VistA email account. Once the user is ready to send the request, if no changes are needed, the user can retrieve the VistA email message and forward it to the Outlook mail group (VAOITVHITPSCUSTOMREQ). If the VistA email message is no longer available for retrieval, the user must reenter and transmit the request.

NOTE: The option will use whatever editor (line or screen) the user has defined for his or her “Preferred editor” in the NEW PERSON (#200) File.

**Example 1: Requesting to Add a New Drug Interaction**

Select Pharmacy Data Management Option: **ORDER CHECK** Management

Select Order Change Management Option: **REQuest Changes to Enhanced Order Check Database**

Select one of the following:

**N** - New Drug Interaction

1. - Drug Interaction Severity Change
2. – Duplicate Therapy Change

**D** – Dosing Change

Select one of the choices above, for instance: **N** ew Drug Interaction Enter Interacting Drug Names (free text): Drug A & Drug B

Select one of the following:

1. Critical
2. Significant

Enter Severity: 1

You must now enter a reason or references for this request. <word processing > Press Return to continue, '^' to exit:

1> This is a request to add a new Drug-Drug Interaction. 2>

EDIT Option:

NOTE: This is a test account. Regardless of your response to the 'Transmit' prompt, this request will NOT be sent forward for national review.

Transmit New Drug Interaction Request? Y// NO Mail message only sent to you in Vista Mail.

Press Return to continue:

**Example of Email Message:**

Subj: New Drug Interaction Request [#89442] 05/28/08@12:51 4 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket. Page 1

Request New Drug Interaction:

DRUG A NAME & DRUG B NAME

Severity:

CRITICAL

This is a request to add a new Drug Interaction.

Enter message action (in IN basket): Ignore// **QD** Query Detailed

Subj: New Drug Interaction Request [#89442] 05/28/08@12:51 4 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket.

Local Message-ID: 89442@PEPCACHE.FO-BIRM.MED.VA.GOV (2 recipients) PHARMACIST,TWENTYTHREE Last read: 05/28/08@12:52 [First read: 05/28/08@12:51]

Enter message action (in IN basket): Ignore//

**Example 2: Requesting a Drug Interaction Severity Change**

Select Pharmacy Data Management Option: **ORDER CHECK** Management

Select Order Check Management Option: **REQuest Changes to Enhanced Order Check Database**

Select one of the following:

**N** – New Drug Interaction

1. – Drug Interaction Severity Change
2. – Duplicate Therapy Change

**D** – Dosing Change

Select one of the choices above, for instance: **S** Drug Interaction Severity Change Enter Interacting Drug Names (free text): Drug A & Drug B

Select one of the following:

1. Critical
2. Significant

Change Severity To: 1

You must now enter a reason or references for this request <word processing>. Press Return to continue, '^' to exit:

1> This is a Drug Interaction severity change request. 2>

EDIT Option:

NOTE: This is a test account. Regardless of your response to the 'Transmit' prompt, this request will NOT be sent forward for national review.

Mail message transmitted for review.

Transmit Drug Interaction Severity Change Request? Y// YES Press Return to continue:

**Example of Email Message:**

Subj: Drug Interaction Severity Change Request [#89442] 05/28/08@12:51 4 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket. Page 1

Drug-Drug Interaction:

DRUG A NAME & DRUG B NAME

Severity Change To:

CRITICAL

This is a Drug Interaction severity change request.

Enter message action (in IN basket): Ignore// **QD** Query Detailed

Subj: Drug Interaction Severity Change Request [#89442] 05/28/08@12:51 4 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket.

Local Message-ID: 89442@PEPCACHE.FO-BIRM.MED.VA.GOV (2 recipients) PHARMACIST,TWENTYTHREE Last read: 05/28/08@12:52 [First read: 05/28/08@12:51]

Enter message action (in IN basket): Ignore//

**Example 3: Requesting a Duplicate Therapy Change**

**Select Pharmacy Data Management Option: ORDER CHECK Management**

**Select Order Check Management Option: REQuest Changes to Enhanced Order Check Database**

**Select one of the following:**

**N – New Drug Interaction**

**S – Drug Interaction Severity Change T – Duplicate Therapy Change**

**D – Dosing Change**

Select one of the choices above, for instance **T** Duplicate Therapy Change

**You must now enter a description of the change/problem. <word processing field>**

**Press Return to continue, '^' to exit:**

**1> This is a Duplicate Therapy change request.**

**2>**

**EDIT Option:**

**Transmit Duplicate Therapy Change Request? Y// es**

**Press Return to continue:**

**Subj: Duplicate Therapy Change Request [#89442] 05/28/08@12:51 4 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket. Page 1**

**Duplicate Therapy Change Description/Problem:**

**This is a Duplicate Therapy change request.**

**Enter message action (in IN basket): Ignore// QD Query Detailed**

**Subj: Duplicate Therapy Change Request [#89442] 05/28/08@12:51 4 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket.**

**Local Message-ID:** **89442@PEPCACHE.FO-BIRM.MED.VA.GOV** **(2 recipients)**

**PHARMACIST,TWENTYTHREE Last read: 05/28/08@12:52 [First read: 05/28/08@12:51]**

**Enter message action (in IN basket): Ignore//**

**Example 4: Requesting a Dosing Change**

**Select Order Check Management Option: REQuest Changes to Enhanced Order Check Da tabase**

**Select one of the following:**

**N S T D**

**New Drug Interaction**

**Drug Interaction Severity Change Duplicate Therapy Change**

**Dosing Change Select one of the above: Dosing Change**

**You must now enter a description of the change/problem. <word processing>**

**Press Return to continue, '^' to exit:**

**1>No dosing information available for a 81 yo on Drug A. 2>**

**EDIT Option:**

**NOTE: This is a test account. Regardless of your response to the 'Transmit' prompt, this request will NOT be sent forward for national review.**

**Transmit Dosing Change Request? Y// ES Mail message transmitted for review.**

**Press Return to continue:**

**Example of Email Message:**

|  |  |
| --- | --- |
| **Subj: Dosing Change Request [#57209] 08/12/10@10:55 3 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket. Page 1** |  |
| **Dosing Change Description/Problem:****No dosing information available for a 81 yo on Drug A.****Enter message action (in IN basket): Ignore// QD Query Detailed****Subj: Dosing Change Request [#57209] 08/12/10@10:55 3 lines From: PHARMACIST,TWENTYTHREE In 'IN' basket.****Local Message-ID:** **57209@EVL.DEV.FO-HINES.MED.VA.GOV** **(1 recipient) PHARMACIST,TWENTYTHREE Last read: 08/12/10@10:57 [First read: 08/12/10@10:55]****Enter message action (in IN basket): Ignore//** |

### Report of Locally Entered Interactions

#### [PSS REPORT LOCAL INTERACTIONS]

The *Report of Locally Entered Interactions* option allows sites to print a report of locally entered drug interactions and their severity. This information can be used to determine whether or not a change request needs to be made to the enhanced order check database.

**Example: Requesting to Print a Report of Locally Entered Drug Interaction and Their Severity**

Select Pharmacy Data Management Option: **ORDER CHECK** Management

Select Order Check Management Option: **REP**ort of Locally Entered Interactions

This report gives you a printed copy of locally added drug interactions and their severity. You may queue the report to print, if you wish.

DEVICE:

VIRTUAL

Right Margin: 80//

LOCALLY ADDED DRUG INTERACTION LIST NAME

FEB 22,2010 15:26 PAGE 1 SEVERITY

DIGITALIS/DIPHENHYDRAMINE ALPRAZOLAM/COLCHICINE AMOXICILLIN/CISAPRIDE AMINOPHYLLINE/AZITHROMYCIN AZITHROMYCIN/THEOPHYLLINE AZITHROMYCIN/OXTRIPHYLLINE AMPICILLIN/ASCORBIC ACID ASCORBIC ACID/ATENOLOL ACACIA/ACETIC ACID AMIKACIN/ASPIRIN

ASCORBIC ACID/ASPIRIN CHLORPHENIRAMINE/HYDROXYZINE

SIGNIFICANT CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL SIGNIFICANT SIGNIFICANT SIGNIFICANT CRITICAL CRITICAL

Select Order Check Management Option:

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The Section that was numbered 1.15 and entitled ***Other Language Translation Setup*** has been removed. A new section, ***Stand-Alone Menu Options***, has been added at the end of this chapter. It contains a new stand-alone menu option and the Other Language Translation Setup option and its examples.

Also note that even though page numbering is not affected except where change pages have been created, the heading numbers have been moved back one number; thus, all the appropriate pages have been included in the change pages document for patches PSS\*1\*136 and PSS\*1\*117.

# Controlled Substances/PKI Reports

#### [PSS CS/PKI REPORTS]

A post-installation routine for patch PSS\*1\*61 identifies those drugs with discrepancies between the CS FEDERAL SCHEDULE field (#19) of the VA PRODUCT file (#50.68) and DEA, SPECIAL HDLG field (#3) of the DRUG file (#50), and generates four mail messages with the following subjects to the installer and to holders of the PSNMGR keys:

CS FEDERAL SCHEDULE AND DEA, SPECIAL HDLG DISCREPANCIES CONTROLLED SUBSTANCES NOT MATCHED

CONTROLLED SUBSTANCES NOT SET CORRECTLY DISCREPANCY IN DEA WITHIN DRUGS TIED TO AN OI

These mail messages can be used to clean up the DEA, SPECIAL HDLG code in the DRUG file (#50) where appropriate.

The post-install also checks to see if the DEA, SPECIAL HDLG field (#3) of the DRUG file (#50) is null and if the drug is matched to an entry in the VA PRODUCT file (#50.68), and the CS FEDERAL SCHEDULE field (#19) of the VA PRODUCT file (#50.68) has data, then it updates the DEA, SPECIAL HDLG field (#3) of the DRUG file (#50) with the DEA, SPECIAL HDLG code mapped to corresponding CS FEDERAL SCHEDULE code.

This new *Controlled Substances/PKI Reports* option is added to the *Pharmacy Data Management* menu to re-generate these post-install Mailman messages on demand.

# Send Entire Drug File to External Interface

#### [PSS MASTER FILE ALL]

This option sends updated information for every entry in the DRUG file (#50) to the external interface for Outpatient Pharmacy dispensing systems, using HL7 standard V. 2.4 messages. All entries are sent, regardless of how they are marked for Application Package Use.

To use this option, the following items must be set up properly in the OUTPATIENT SITE file (#59):

* + - In the AUTOMATED DISPENSE field (#105), the value should be set to **V. 2.4**. This enables sending data through the Interface Engine using HL7 V. 2.4 standard.
		- In the ENABLE MASTER FILE UPDATE field (#105.2), the value should be set to

**YES**.

* + - In the DISPENSE DNS NAME field (#2006), there should be some value defined. This value sends the DNS name of the dispensing system (for example, **dispensemachine1.vha.med.va.gov**) to the Interface Engine, so that the Interface Engine knows where to route the HL7 messages.

**Example: Send Entire Drug File to External Interface**

Select Pharmacy Data Management Option: **PSS MASTER FILE ALL**

External Interface

Send Entire Drug File to External Interface

Send Entire Drug File to

Press RETURN to continue...

The *Enhanced Order Checks Setup Menu* options are located here on the main menu. Because this menu will be removed when PRE V.0.5 is released, the descriptions have been moved to the end of this chapter (1.23).

# IV Additive/Solution

#### [PSS ADDITIVE/SOLUTION]

The *IV Additive/Solution* option was created by Patch PSS\*1\*147 to provide an umbrella for all the options related to reviewing IV Additive and IV Solution data. Note that with the advent of Patch PSS\*1\*117, the menu reads *IV Additive/Solution* and the *Mark PreMix Solutions* option has been added.

### IV Additive Repor t

#### [PSS IV ADDITIVE REPORT]

Patch PSS\*1\*147 creates a new *IV Additive Report* option to display IV Additive information. A user can select to display only entries marked with '1 BAG/DAY' in the Additive Frequency field, or only those entries with nothing entered in the Additive Frequency field, or all entries can be displayed. The report will print the following data elements:

* + - * Print Name
			* Generic Drug
			* Drug Unit
			* Synonyms
			* Pharmacy Orderable Item
			* Inactivation Date
			* Used in IV Fluid Order Entry
			* Additive Frequency

If the user chooses to print only the IV Additives marked with ‘1 BAG/DAY’ in the Additive Frequency field or those entries with nothing entered in the Additive Frequency field and none are found, the report will display ‘No IV Additives marked as '1 BAG/DAY' or ‘No IV Additives marked as null’ respectively.

**Example 1: User selects only IV Additives marked with no value in the Additive Frequency Field**

Select IV Additive/Solution Reports Option: **IV ADditive Report**

This report displays entries in the IV ADDITIVES (#52.6) File. You can select to display only entries marked with '1 BAG/DAY' in the ADDITIVE FREQUENCY (#18) Field, or only those entries with nothing entered in the ADDITIVE FREQUENCY (#18) Field, or all entries can be displayed.

Select one of the following:

1

N A

Print entries marked as '1 BAG/DAY' for ADDITIVE FREQUENCY Print entries marked as Null for ADDITIVE FREQUENCY

Print all IV Additives

Print which IV Additives: A// **N** Print entries marked as Null for ADDITIVE FREQUENCY

This report is designed for 80 column format!

DEVICE: HOME// **<ENTER>**

:

:

IV Additives marked as null for ADDITIVE FREQUENCY

Page: 1

Print Name: CALCIUM GLUCONATE

Drug Unit: MEQ Synonyms: CAGLUC

Generic Drug: CALCIUM GLUCONATE 1GM

Pharmacy Orderable Item: CALCIUM GLUCONATE INJ,SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

Additive Frequency:

Print Name: POTASSIUM CHLORIDE

Drug Unit: MEQ Synonyms: KCL

Generic Drug: POTASSIUM CL 2MEQ/ML (10ML) INJ

Pharmacy Orderable Item: POTASSIUM CHLORIDE INJ,SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

Additive Frequency:

End of Report.

**Example 2: User Selects Only IV Additives marked with ‘1BAG/DAY’ in the Additive Frequency Field**

Select IV Additive/Solution Reports Option: **IV ADDitive Report**

This report displays entries in the IV ADDITIVES (#52.6) File. You can select to display only entries marked with '1 BAG/DAY' in the ADDITIVE FREQUENCY (#18) Field, or only those entries with nothing entered in the ADDITIVE FREQUENCY (#18) Field, or all entries can be displayed.

Select one of the following:

1

N A

Print entries marked as '1 BAG/DAY' for ADDITIVE FREQUENCY Print entries marked as Null for ADDITIVE FREQUENCY

Print all IV Additives

Print which IV Additives: A// **1** Print entries marked as '1 BAG/DAY' for ADDITIVE FREQUENCY

This report is designed for 80 column format!

DEVICE: HOME// **<ENTER>**

IV Additives marked as '1 BAG/DAY' for ADDITIVE FREQUENCY

Page: 1

No IV Additives marked as '1 BAG/DAY'.

End of Report.

**Example 3: User selects all IV Additives**

Select IV Additive/Solution Reports Option: **IV Additive Report**

This report displays entries in the IV ADDITIVES (#52.6) File. You can select to display only entries marked with '1 BAG/DAY' in the ADDITIVE FREQUENCY (#18) Field, or only those entries with nothing entered in the ADDITIVE FREQUENCY(#18)

Field, or all entries can be displayed.

Select one of the following:

1 Print entries marked as '1 BAG/DAY' for ADDITIVE FREQUENCY N Print entries marked as Null for ADDITIVE FREQUENCY

A Print all IV Additives

Print which IV Additives: A// **<ENTER>** Print all IV Additives This report is designed for 80 column format!

DEVICE: HOME// **<ENTER>**

All IV Additives Page: 1

Print Name: AMINOPHYLLINE Drug Unit: MG

Synonyms:

Generic Drug: AMINOPHYLLINE 25MG/ML 20ML INJ

Pharmacy Orderable Item: AMINOPHYLLINE INJ,SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

Additive Frequency: ALL BAGS

Print Name: CALCIUM GLUCONATE

Drug Unit: MEQ Synonyms: CAGLUC

Generic Drug: CALCIUM GLUCONATE 1GM

Pharmacy Orderable Item: CALCIUM GLUCONATE INJ,SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

Additive Frequency:

Print Name: HEPARIN Drug Unit: UNITS

Synonyms:

Generic Drug: HEPARIN 10,000 UNITS 4ML

Pharmacy Orderable Item: HEPARIN INJ,SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

Additive Frequency: ALL BAGS

Print Name: TRACE ELEMENTS Drug Unit: ML

Synonyms:

Generic Drug: TRACE ELEMENTS 5ML INJ

Pharmacy Orderable Item: TRACE ELEMENTS INJ,CONC-SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

Additive Frequency: 1 BAG/DAY End of Report.

### IV Solution Repor t

#### [PSS IV SOLUTION REPORT]

The *IV Solution Report* option displays only IV solutions marked as PreMixes or all IV solutions.

The report will print the following data elements:

* + - * Print Name
			* Print Name {2}
			* Volume
			* Synonyms
			* Generic Drug
			* Pharmacy Orderable Item
			* Inactivation Date
			* Used in IV Fluid Order Entry
			* PreMix

If the user chooses to print only the IV solutions marked as PreMixes and none are found the report will display ‘No IV Solutions marked as PreMixes found.’

**Example 1: User selects only solutions marked as PreMix**

Page: 1

Solution PreMix report for IV Solutions marked as PreMix

Print report for PreMix (P), or All IV Solutions (A): (P/A): Premix: P// <**ENTER**> rint only IV Solutions marked as PreMix

This report is designed for 80 column format!

DEVICE: HOME// <**ENTER**>

Print only IV Solutions marked as PreMix Print All IV Solutions

P A

Select Enhanced Order Checks Setup Menu Option: **IV SOLUTION** Report

This report displays only those solutions in the IV Solutions (#52.7) File that are marked as PreMix IV Solutions, or it displays all Solutions.

Select one of the following:

Print Name: DOPAMINE 400MG IN DEXTROSE 5% Volume: 500 ML

Print Name {2}:

Synonyms: INTROPIN

DOPAMINE D5

Generic Drug: DOPAMINE 400MG IN 5% DEXTROSE 500ML

Pharmacy Orderable Item: DOPAMINE IN DEXTROSE 5% INJ,SOL Inactivation Date:

Used in IV Fluid Order Entry: YES

PreMix: YES

End of Report

**Example 2: User Selects all IV Solutions**

Select Enhanced Order Checks Setup Menu Option: **IV Solution Report**

This report displays only those solutions in the IV Solutions (#52.7) File that are marked as PreMix IV Solutions, or it displays all Solutions.

Select one of the following:

P Print only IV Solutions marked as PreMix A Print All IV Solutions

Print report for PreMix (P), or All IV Solutions (A): (P/A): Premix: P// **a** Print All IV Solutions

This report is designed for 80 column format!

DEVICE: HOME// <**ENTER**>

Solution PreMix report for all IV Solutions Page: 1 Print Name: 0.9% SODIUM CHLORIDE Volume: 100 ML

Print Name {2}:

Synonyms: 2673

Generic Drug: SODIUM CHLORIDE 0.9% 100ML

Pharmacy Orderable Item: SODIUM CHLORIDE INJ Inactivation Date:

Used in IV Fluid Order Entry: YES

PreMix:

Print Name: 0.9% SODIUM CHLORIDE Volume: 50 ML Print Name {2}:

Synonyms: 2672

Generic Drug: SODIUM CHLORIDE 0.9% 50ML

Pharmacy Orderable Item: SODIUM CHLORIDE INJ Inactivation Date:

Used in IV Fluid Order Entry: YES

PreMix:

Print Name: 20% DEXTROSE Volume: 500 ML Print Name {2}:

Synonyms:

Generic Drug: DEXTROSE 20% IN WATER 500ML

Pharmacy Orderable Item: DEXTROSE INJ,SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

PreMix:

Print Name: METRONIDAZOLE 500MG IN NACL Volume: 100 ML

Print Name {2}:

Synonyms:

Generic Drug: METRONIDAZOLE 500MG/100ML NACL

Pharmacy Orderable Item: METRONIDAZOLE/SODIUM CHLORIDE INJ,SOLN Inactivation Date:

Used in IV Fluid Order Entry: YES

PreMix: YES

End of Report.

### Mark PreMix Solutions

[PSS MARK PREMIX SOLUTIONS]

The *Mark PreMix Solutions* option allows a user to quickly mark an IV Solution as a PreMix. The following data fields can be edited:

* + - * Print Name
			* Print Name {2}
			* Generic Drug
			* Volume
			* Inactivation Date
			* Used in IV Fluid Order Entry
			* PreMix

After an entry has been edited successfully, the user is prompted to enter another IV Solution to edit. Press **<ENTER>**, to exit out of the option.

**Example: User chooses Mark PreMix Solutions to mark an IV Solution as premixed**

|  |  |  |
| --- | --- | --- |
| Select | IV Additive/Solution Option: MARK |  |
| Select | IV SOLUTIONS PRINT NAME: HEP |
| 1 | HEPARIN 1,000U/0.9% NS-2U/ML | 500 ML |
| 2 | HEPARIN 25,000U/D5W (50U/ML) | 250 ML |
| 3 | HEPARIN 25000 UNITS/0.45% NACL | 250 ML |
| CHOOSE | 1-3: 3 HEPARIN 25000 UNITS/0.45% NACL | 250 ML |
| PRINT NAME: HEPARIN 25000 UNITS/0.45% NACL Replace PRINT NAME {2}:GENERIC DRUG: HEPARIN 25,000 UNITS IN 0.45% NACL 250ML// VOLUME: 250 ML// INACTIVATION DATE:USED IN IV FLUID ORDER ENTRY: YES// PREMIX: YES// |

*(This page left blank for two-sided copying)*

# Warning Builder

#### [PSS WARNING BUILDER]

The *Warning Builder* option allows the user to print a copy of the old and new warning file entries. The user can choose various ways to select drugs to review which warnings will print when the flag is turned on to use the new warning label source. This option also allows the user to override the default warning labels to create a custom warning label list for the selected drug. This is accomplished by specifying a list of warning numbers from the old RX CONSULT file (#54) and/or the new commercial data source warning file.

**Example: Warning Builder**

Select Pharmacy Data Management Option: **WARNING BU**ilder

The RX CONSULT File (#54) contains local label expansions.

The WARNING LABEL-ENGLISH file (#50.625) contains national label expansions in English.

The WARNING LABEL-SPANISH file (#50.626) contains national label expansions in Spanish.

It is important to note that RX Consult entry numbers do not correlate with the other files (i.e. Number 7 in file 54 is not included in file 50.625).

**Example: Warning Builder (continued)**

|  |
| --- |
| You should print a list of the current RX CONSULT file entries and the current WARNING LABEL-ENGLISH file entries.Would you like to print a list of the entries in these files? N// **Y**ES Would you like to include the Spanish translations? N// **Y**ESYou may queue the report to print, if you wish. DEVICE: HOME// COMPUTER ROOMRX CONSULT file - WARNING LABEL TEXTDate printed: JAN 18,2005 Page: 1=============================================================================== RX CONSULT NUMBER: 1-MAY CAUSE DROWSINESS-Alcohol may intensify this effect.USE CARE when driving orwhen operating dangerous machinery. |
| RX CONSULT NUMBER: 2IMPORTANT: Finish all this medication unless otherwise directed by prescriber. |  |
| RX CONSULT NUMBER: 3Take medication on an EMPTY STOMACH1 hour before or 2-3 hours after a meal unless otherwise directed by your doctor. |
| RX CONSULT NUMBER: 4Do not take antacids or iron preparations or eat dairy productswithin 1 hour of taking this medication. |
| RX CONSULT NUMBER: 5Take with plenty of WATER. |
| RX CONSULT NUMBER: 6May cause discolored urine or feces. |
| RX CONSULT NUMBER: 7It may be advisable to drink a full glass of orange juice or eat a banana daily while on this medication |
| RX CONSULT NUMBER: 8DO NOT DRINK ALCOHOLIC BEVERAGESwhen taking this medication. |
| RX CONSULT NUMBER: 9DO NOT TAKEnon-prescription drugswithout medical advice. |

**Example: Warning Builder (continued)**

|  |  |
| --- | --- |
|  |  |
| RX CONSULT NUMBER: 10TAKE WITH FOOD OR MILK. |
| RX CONSULT NUMBER: 11Avoid prolonged exposure to SUNLIGHT and finish all this medicationunless otherwise directed by prescriber. |
| RX CONSULT NUMBER: 12SHAKE WELL |
| RX CONSULT NUMBER: 13For external use ONLY. |
| RX CONSULT NUMBER: 14NOTE DOSAGE STRENGTH |
| RX CONSULT NUMBER: 15REFRIGERATE -DO NOT FREEZE |
| RX CONSULT NUMBER: 16This prescription CANNOT be refilled without a written duplicate from your physician. |
| RX CONSULT NUMBER: 17Do not use after specified date. |
| RX CONSULT NUMBER: 18THIS PRESCRIPTION CANNOT BE REFILLED. |
| RX CONSULT NUMBER: 19This is the same medication you have been getting. Color, size or shape may appear different. |
| RX CONSULT NUMBER: 20CAUTION: Federal law prohibits the transfer of this drug to any person other than the patient for whom it was prescribed.Spanish translation:PRECAUCION: La ley federal prohibe la transferencia de este medicamento a otro paciente para el que no fue recetado. |
| End of Rx Consult file Report. Press Return to continue: **<Enter>** |  |

**Example: Warning Builder (continued)**

|  |
| --- |
| WARNING LABEL-ENGLISH file - WARNING LABEL TEXTDate printed: JAN 18,2005 Page: 1=============================================================================== WARNING LABEL-ENGLISH NUMBER: 1May cause drowsiness. Alcohol may intensify this effect. Use care when operating a car or dangerous machines.Spanish translation:Puede causar somnolencia. El alcohol puede intensificar este efecto. Tenga cuidado cuando conduzca vehiculos automotores u opere maquinaria peligrosa. |
| WARNING LABEL-ENGLISH NUMBER: 2Important: Finish all this medication unless otherwise directed by prescriber.Spanish translation:Importante: Acabe todo este medicamento a menos que quien le escriba la receta le indique lo contrario. |  |
| WARNING LABEL-ENGLISH NUMBER: 3Take medication on an empty stomach one hour before or two to three hours after a meal unless otherwise directed by your doctor.Spanish translation:Tome este medicamento con el estómago vacío una hora antes o dos a tres horas después de comer, a menos que su médico le indique lo contrario. |
| WARNING LABEL-ENGLISH NUMBER: 4Do not take dairy products, antacids, or iron preparations within one hour of this medication.Spanish translation:Una hora antes de tomar este medicamento y hasta una hora después de tomarlo, no tome productos lácteos, antiácidos, o preparados de hierro. |
| WARNING LABEL-ENGLISH NUMBER: 5Medication should be taken with plenty of water.Spanish translation:Debe tomar este medicamento con mucha agua. |
| ...*(Report continues)* |

**Example: Warning Builder (continued)**

This will print all warning labels in the commercial data source’s warning file.

(*To save space, only the first five warning labels are displayed in this example.)*

Select one of the following to display drugs that match that criteria to examine or edit their drug warnings:

1. Drug has WARNING LABEL filled in but there are no FDB warnings for the drug
2. Drug has WARNING LABEL numbers higher than 20
3. Select by range of drug names
4. Drug has more than 5 warning labels
5. Drugs containing specific WARNING LABEL number
6. Drug has WARNING LABEL that does not map to new data source
7. Drugs containing specific new data source warning number
8. Drugs containing gender-specific warnings
9. Drugs with warning mapping, but drug doesn't contain "mapped to" number Enter selection: // **4** GREATER THAN 5 WARNINGS

Exclude drugs with NEW WARNING LABEL LIST filled in? Y// **<Enter>** ES

NOTE: Only the first 5 warnings will print on the yellow auxillary labels. Do you want to see the warning text for all warnings? Y// **<Enter>** ES

Warnings (>5) that won't print and won't be sent to CMOP will be marked with a "\*" on the following screens.

Current Warning labels for ACETAMINOPHEN AND CODEINE 30MG

Labels will print in the order in which they appear for local and CMOP fills:

1N May cause drowsiness. Alcohol may intensify this effect. Use care when operating a car or dangerous machines.

62N May cause dizziness

45N Taking more of this medication than recommended may cause serious breathing problems.

8N Do not drink alcoholic beverages when taking this medication.

20 CAUTION: Federal law prohibits the transfer of this drug to any person other than the patient for whom it was prescribed.

\*66N This medicine contains ACETAMINOPHEN.Taking more ACETAMINOPHEN than recommended may cause serious liver problems.

\*70N Do not take other ACETAMINOPHEN containing products at the same time without first checking with your doctor. Check all medicine labels carefully.

\*14N Obtain medical advice before taking non-prescription drugs as some may

affect the action of this medication.

Pharmacy fill card display: DRUG WARNING 1N,62N,45N,8N,20,66N,70N,14N

NOTE: Because the NEW WARNING LABEL LIST field is empty, the warnings above are the warnings that our national data source distributes for this drug.

Would you like to edit this list of warnings? N// **<Enter>** O

**Example: Warning Builder (continued)**

Current Warning labels for ALPRAZOLAM 0.25MG TABS

Labels will print in the order in which they appear for local and CMOP fills:

1N May cause drowsiness. Alcohol may intensify this effect. Use care when operating a car or dangerous machines.

82N Warning: Do not use if you are pregnant, suspect that you are pregnant, or while breastfeeding. Consult your doctor or pharmacist.

71N Do not eat grapefruit or drink grapefruit juice at any time while taking this medication.

14N Obtain medical advice before taking non-prescription drugs as some may affect the action of this medication.

20 CAUTION: Federal law prohibits the transfer of this drug to any person other than the patient for whom it was prescribed.

\*94N Herbal/dietary supplement products may interact with this medication. Discuss any such product with your doctor or pharmacist before taking.

Pharmacy fill card display: DRUG WARNING 1N,82N,71N,14N,20,94N

NOTE: Because the NEW WARNING LABEL LIST field is empty, the warnings above are the warnings that our national data source distributes for this drug.

Would you like to edit this list of warnings? N// **YES**

NEW WARNING LABEL LIST: **1,2,3N**

Current Warning labels for ALPRAZOLAM 0.25MG TABS

Labels will print in the order in which they appear for local and CMOP fills:

1. -MAY CAUSE DROWSINESS- Alcohol may intensify this effect. USE CARE when driving or when operating dangerous machinery.
2. IMPORTANT: Finish all this medication unless otherwise directed by prescriber.

3N Take medication on an empty stomach one hour before or two to three hours after a meal unless otherwise directed by your doctor.

20 CAUTION: Federal law prohibits the transfer of this drug to any person other than the patient for whom it was prescribed.

Pharmacy fill card display: DRUG WARNING 1,2,3N,20 NEW WARNING LABEL LIST: 1,2,3N

Would you like to edit this list of warnings? N// **<Enter>** O

# Warning Mapping

#### [PSS WARNING MAPPING]

The *Warning Mapping* option is used to match an entry from the RX CONSULT file (#54) to the WARNING LABEL-ENGLISH file (#50.625) to aid in using the *Warning Builder* option to identify local warnings that do not have an equivalent entry in the commercial data source. The user can also enter a Spanish translation for an RX CONSULT file (#54) entry, if desired, but whenever possible, the commercial data source’s warnings should be used.

**Example: Warning Mapping**

Select Pharmacy Data Management Option: **WARNING MA**pping

Note: Warning mapping is only used as an aid when using the warning builder. If a DRUG WARNING is defined with a warning mapping of 0, that entry will be skipped when choosing option 6 Drug has WARNING LABEL that does not map to new data source.

Enter RETURN to continue or '^' to exit:

CURRENT WARNING MAPPING

DRUG WARNING

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

DROWSINESS FINISH

EMPTY STOMACH

NO DAIRY PRODUCTS WATER DISCOLORATION DIURETIC K

NO ALCOHOL ADVICE

Mapped to New data source number

1

2

3

4

5

6

WITH FOOD SUNLIGHT SHAKE WELL EXTERNAL STRENGTH REFRIGERATE DUPLICATE

EXPIRATION DATE NO REFILL

SAME DRUG NO TRANSFER

8

9

10

11

19

20

30

Enter a valid Rx Consult file number: **1** DROWSINESS

-MAY CAUSE DROWSINESS-

Alcohol may intensify this effect.

USE CARE when driving or

when operating dangerous machinery.

Rx Consult file number 1 is mapped to WARNING LABEL-ENGLISH number 1 May cause drowsiness. Alcohol may intensify this

effect. Use care when operating a car or dangerous machines.

Do you want to change the mapping? N// **y** YES

**Example: Warning Mapping (continued)**

WARNING MAPPING: 1// **8**

Do not drink alcoholic beverages when taking this medication.

Do you want to enter/edit a Spanish translation for this entry? N// **<Enter>** O

Enter a valid Rx Consult file number: **20** NO TRANSFER CAUTION: Federal law prohibits the

transfer of this drug to any person other than the patient for whom it was prescribed.

Enter a number from WARNING LABEL-ENGLISH file to map to: : // **0**

Do you want to enter/edit a Spanish translation for this entry? N// **y** YES SPANISH TRANSLATION: PRECAUCION: La ley federal prohibe la transferencia de este

medicamento a otro paciente para el que no fue recetado.

Enter a valid Rx Consult file number: **<Enter>**

# Pharmacy Enterprise Product System (PEPS)

**Services Menu**

#### [PSS PEPS Services]

The *PEPS Services* sub-menu contains options that are used to check and validate that the connection to the vendor database used for enhanced order checking (i.e., drug interactions, duplicate therapy, and dosing) is enabled and operational. It also provides the ability to execute various order checks to ensure that the database is installed properly and is reachable. One option allows the scheduling of a background job, which monitors the connection to the vendor database and notifies the user when the connection goes down.

This sub-menu contains the following options:

* + - Check Vendor Database Link
		- Check PEPS Services Setup
		- Schedule/Reschedule Check PEPS Interface

### Check Vendor Database Link

#### [PSS CHECK VENDOR DATABASE LINK]

The *Check Vendor Database Link* option allows you to check whether VistA can or cannot communicate with the vendor database. If the communication link is up and running, the vendor database version, build version and date it was issued will be displayed for both standard and custom databases. Standard data is as received from the vendor, while custom data is modified standard or new data provided by the VA. The date and time of the connection will also display.

If the connection could not be made, this status is displayed with the date and time a successful connection was last made.

**Example 1: Successful Connection Made to Vendor Database.**

Select Pharmacy Data Management Option: PEPS Services Select PEPS Services Option: CHECK VENDOR Database Link

Database Version: 6

Build Version: 3.2

Issue Date: 01/29/2010

Custom Database Version: 6 Custom Build Version: 3.2

Custom Issue Date: 08/07/2009

Connected to Vendor database successfully @FEB 22, 2010@16:31 Press Return to Continue:

Select PEPS Services Option:

**Note**: If no data has been installed in the custom table, the connection check returns “Unavailable” for all three fields, as shown below:

CHOOSE 1-2: 2 Check Vendor Database Link

Database Version: 7

Build Version: 3.2

Issue Date: 06/04/2010

Custom Database Version: NOT AVAILABLE Custom Build Version: NOT AVAILABLE Custom Issue Date: NOT AVAILABLE

Connected to Vendor database successfully @AUG 12, 2010@09:05 Press Return to Continue:

**Note**: The above example could also happen to standard tables as well.

**Example 2: Connection Could Not Be Made to Vendor Database:**

Select PEPS Services Option: CHECK Vendor Database Link Connection could not be made to Vendor database.

Last reached @OCT 25, 2010@14:52 Press Return to Continue:

### Check PEPS Services Setup

#### [PSS CHECK PEPS SERVICES SETUP]

The *Check PEPS Services Setup* option provides the ability to check and validate that the link to the vendor interface used for enhanced order checking (drug interaction, duplicate therapy and dosing) is enabled and operational. The option executes various predetermined order checks against the vendor database to ensure that the database is installed correctly and is reachable.

**Example 1: Vendor Database Reachable; Enhanced Order Checks Executed.**

<CPM> Select PEPS Services Option: CHECK

1. Check PEPS Services Setup
2. Check Vendor Database Link CHOOSE 1-2: 1 Check PEPS Services Setup Checking Vendor Database Connection...OK

Press Return to Continue:

Performing Drug-Drug Interaction Order Check for ASPIRIN 325MG TAB and WARFARIN 10MG TAB...OK

Significant Drug Interaction: The concurrent use of anticoagulants and salicylates may result in increased INR values and increase the risk of bleeding.

Press Return to Continue:

Performing Duplicate Therapy Order Check for CIMETIDINE 300MG TAB and RANITIDINE 150MG TAB...OK

Therapeutic Duplication with CIMETIDINE 300MG TAB and RANITIDINE 150MG TAB

Duplicate Therapy Class(es): Peptic Ulcer Agents,Histamine-2 Receptor Antagonists (H2 Antagonists)

Press Return to Continue:

Performing Dosing Order Check for ACETAMINOPHEN 500MG TAB - 3000MG Q4H...OK

Single dose amount of 3000 MILLIGRAMS exceeds the maximum single dose amount of 1000 MILLIGRAMS.

Total dose amount of 18000 MILLIGRAMS/DAY exceeds the dosing range of 320 MILLIGRAMS/DAY to 4000 MILLIGRAMS/DAY.

Press Return to Continue:

Performing Custom Drug-Drug Interaction Order Check for CLARITHROMYCIN 250MG TAB and DIAZEPAM 5MG TAB...OK

Significant Drug Interaction: Serum concentrations of certain benzodiazepines may be increased enhancing their pharmacological effects.

Press Return to Continue:

**Example 2: Vendor database unreachable; enhanced order checks cannot be executed.**

Select PEPS Services Option: check

1. Check PEPS Services Setup
2. Check Vendor Database Link CHOOSE 1-2: 1 Check PEPS Services Setup Checking Vendor Database Connection...

Connection could not be made to Vendor database.

Last reached @MAR 02, 2010@11:44 Press Return to Continue:

### Schedule/Reschedule Check PEPS Interface

#### [PSS SCHEDULE PEPS INTERFACE CK]

The *Schedule/Reschedule Check PEPS Interface* option allows you to schedule/reschedule the Interface Scheduler [PSS INTERFACE SCHEDULER] option. This job runs every 15 minutes to check if the communication link (PEPS Interface) from VistA to the vendor database is up and reachable.

**Example**: **Schedule/Reschedule Check PEPS Interface**

Select Pharmacy Data Management Option: **PEPS** Services

Select PEPS Services Option: **SCH**edule/Reschedule Check PEPS Interface

Edit Option Schedule Option Name: PSS INTERFACE SCHEDULER

Menu Text: Interface Scheduler

TASK ID: **47820**

QUEUED TO RUN AT WHAT TIME: FEB 24,2010@12:09:50 DEVICE FOR QUEUED JOB OUTPUT:

QUEUED TO RUN ON VOLUME SET: RESCHEDULING FREQUENCY: 900S

TASK PARAMETERS:

SPECIAL QUEUEING:

Exit

Save

Next Page

Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: e

Press <PF1>H for help

Insert

Select PEPS Services Option:

If the PEPS Interface is down, a priority mail message will be sent to the G.PSS ORDER CHECKS mail group. When the interface is back up again, another priority mail message will be sent to the G. PSS ORDER CHECKS mail group. Only *one* message per occurrence (interface being down or coming back up) is sent because the background job runs every 15 minutes.

Here is an example of the mail message when the database is down:

|  |
| --- |
| **Subj: ORDER CHECK DATABASE DOWN [#55252] 03/02/10@11:59 2 lines** |
| **From: PSS INTERFACE SCHEDULER In 'IN' basket. Automatic Deletion Date: Mar 30,** |  |
| **2010** |
|  |
| **Connection to Vendor Database is down! No Drug-Drug Interactions, Duplicate** |
| **Therapy or Dosing Order Checks will be performed until the connection is****reestablished!!!** |
| **Enter message action (in IN basket): Ignore//** |

Here is an example of the mail message when the database is back up:

**Subj: ORDER CHECK DATABASE IS BACK UP [#57254] 08/15/10@02:44 2 lines From: PSS INTERFACE SCHEDULER In 'IN' basket.**

**Automatic Deletion Date: Aug 18, 2010 Page 1 Priority!**

**Connection to Vendor Database has been restored! Drug-Drug Interactions, Duplicate Therapy and Dosing Order Checks can now be performed.**

**Enter message action (in IN basket): Ignore//**

# Stand-Alone Menu Options

This section describes the stand-alone menu options that are not exported as part of the main menu.

## Enable/Disable Vendor Database Link

[PSS ENABLE/DISABLE DB LINK]

The Enable/Disable Vendor Database Link is a stand-alone option that exists **ONLY** as a way for technical personnel to turn on/off the database connection if required for debugging. When disabled, NO drug-drug interactions, duplicate therapy, or dosing order checks will be performed in Outpatient Pharmacy, Inpatient Medication applications, or in the Computerized Patient Record System (CPRS).

Normally the link is enabled and the Vendor Database updates are performed centrally in Austin and Martinsburg, not at the individual sites.

The option is rarely used. It is NOT exported as part of the main Pharmacy Data Management [PSS MGR] menu option. ***The examples provided are for technical personnel only.***

**Example 1: Disabling the Vendor Database Link**

Select OPTION NAME: **PSS ENA**BLE/DISABLE DB LINK

Enable/Disable Vendor Database Link

Enable/Disable Vendor Database Link

The connection to the Vendor database is currently ENABLED.

Do you wish to DISABLE the connection to the Vendor database? **NO**//y Yes

NO Drug-Drug Interactions, Duplicate Therapy or Dosing Order Checks will be performed while the connection is disabled!!!

Are you sure you want to DISABLE the connection to the Vendor Database? **NO//y Yes**

Vendor database connection DISABLED.

REMEMBER to ENABLE the Vendor database connection AFTER task completed. Press Return to Continue:

**Example 2: Enabling the Vendor Database Link**

Select OPTION NAME: PSS ENABLE/DISABLE DB LINK

Enable/Disable Vendor Database Link

Enable/Disable Vendor Database Link

WARNING: The connection to the Vendor database is currently DISABLED.

NO Drug-Drug Interactions, Duplicate Therapy or Dosing Order Checks will be performed while the connection is disabled!!!

Do you wish to ENABLE the connection to the Vendor database? **YES//y Yes**

Vendor database connection ENABLED.

Connected to Vendor database successfully. Press Return to Continue:

## Other Language Translation Setup

#### [PSS OTHER LANGUAGE SETUP]

This is a stand-alone menu option that is not exported with the main menu. The *Other Language Translation Setup* option provides the ability to enter/edit data in the PHARMACY SYSTEM file (#59.7). This option allows sites to enter appropriate terms in another language that make up parts of the SIG when printing prescription bottle labels. If the user does not enter a translation, the English word will print. The *Other Language Translation Setup* option is a stand-alone option that must be assigned to the person(s) responsible for maintaining it. See Appendices C-G for lists of Spanish equivalents for some of the more common terms used for administration schedules, dosage forms, local possible dosages, medication instructions, and medication routes.

**Example: Other Language Translation Setup**

USE OF ANOTHER LANGUAGE: **YES** <If No is entered the remaining fields will not be prompted for

SECONDS: **SEGUNDOS** MINUTES: **MINUTOS** DAYS: **DIAS**

WEEKS: **SEMANAS** HOURS: **HORAS** MONTHS: **MESES** AND: **Y**

THEN: **LUEGO** EXCEPT: **EXCEPTO** ONE: **UNA**

TWO: **DOS** THREE: **TRES** FOUR: **CUATRO** FIVE: **CINCO** SIX: **SEIS** SEVEN: **SIETE** EIGHT: **OCHO** NINE: **NUEVE** TEN: **DIEZ**

ONE-HALF: **MEDIA**

ONE-FOURTH: **UN-CUARTO** ONE-THIRD: **UN**-**TERCIO** TWO-THIRDS: **DOS**-**TERCIOS**

THREE-FOURTHS**: TRES**-**CUARTOS**

FOR: POR

### All Stand-Alone Menu Items

Here is a list of all the stand-alone menu options:

Other Language Translation Setup [PSS OTHER LANGUAGE SETUP]

Dispense Drug Fields

[PSSJU DRG]

Dispense Drug/ATC Set Up [PSSJU DRUG/ATC SET UP]

Drug Inquiry (IV)

[PSSJI DRUG INQUIRY]

Edit Cost Data [PSSJU DCC]

EDit Drug Cost (IV)

[PSSJI EDIT DRUG COST]

Electrolyte File (IV)

[PSSJI ELECTROLYTE FILE]

MARk/Unmark Dispense Drugs For Unit Dose [PSSJU MARK UD ITEMS]

PRimary Solution File (IV) [PSSJI SOLN]

And below is a stand-alone option that is **NOT** exported as part of the main PDM menu [PSS MGR]:

Enable/Disable Vendor Database Link [PSS ENABLE/DISABLE DB LINK]

This option exists **ONLY** as a way for technical personnel to turn on/off the database connection if required for debugging. Normally it is enabled and the Vendor Database updates are performed centrally in Austin and Martinsburg, not at the individual sites. This option is rarely used.

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Pages 99-106 now have different content than the previous release of the manual because the ***Enhanced Order Checks Setup*** menu and all its options have been removed from the application and replaced with the ***Pharmacy Enterprise Product System (PEPS) Services*** menu and because a new section, ***Stand-Alone Menu Options,*** was added. Most of the options deleted under the ***Enhanced Order Checks Setup*** menu can still be found in various areas of the PSS MGR menu. Only the following five options were deleted:

* Find Unmapped Local Medication Routes
* Map Local Medication Route to Standard
* Find Unmapped Local Possible Dosages
* Map Local Possible Dosages
* Strength Mismatch Report

Pages 107-112 have been removed from the manual because of lack of content and the need to keep the next chapter starting on page 113.

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# Glossary

**Administration Schedule File** The ADMINISTRATION SCHEDULE file (#51.1)

contains administration schedule names and standard dosage administration times. The name is a common abbreviation for an administration schedule (e.g., QID, Q4H, PRN). The administration time is entered in military time.

**CPRS** A VistA computer software package called Computerized Patient Record System. CPRS is an application in VistA that allows the user to enter all necessary orders for a patient in different packages from a single application.

**DATUP** Functionality that allows the Pharmacy Enterprise Customization System (PECS) to send out custom and standard commercial-off-the-shelf (COTS) vendor database changes to update the two centralized databases at Austin and Martinsburg.

**Dispense Drug** The Dispense Drug is pulled from DRUG file (#50) and usually has the strength attached to it (e.g., Acetaminophen 325 mg). Usually, the name alone without a strength attached is the Pharmacy Orderable Item name.

**Dosage Form File** The DOSAGE FORM file (#50.606) contains all dosage forms and associated data that are used by Pharmacy packages and CPRS. The dosage form is used in SIG construction, default values and in the determination of the type of each dosage created for each application.

**Dose Unit File** The DOSE UNIT file (#51.24) was created to accomplish the mapping to First Data Bank (FDB). All entries in this file have been mapped to an FDB Dose Unit. Although this file has not yet been standardized by Standards and Terminology Services (SRS), no local editing will be allowed. When populating the Dose Unit field for a Local Possible Dosage, selection will be from this new file.

**Drug Electrolytes File** The DRUG ELECTROLYTES file (#50.4) contains the

names of anions and their cations and concentration units.

**Drug File** The DRUG file (#50) holds the information related to each drug that can be used to fill a prescription or medication order. It is pointed to from several other files and should be handled carefully, usually only by special individuals in the Pharmacy Service. Entries are not typically deleted, but rather made inactive by entering an inactive date.

**Drug Text File** The DRUG TEXT file (#51.7) stores national and/or drug restrictions, guidelines, and protocols to help assure medications are being used according to defined specifications.

**IV Additives File** The IV ADDITIVES file (#52.6) contains drugs that are used as additives in the IV room. Data entered includes drug generic name, print name, drug information, synonym(s), dispensing units, cost per unit, days for IV order, usual IV schedule, administration times, electrolytes, and quick code information.

**IV Solutions File** The IV SOLUTIONS file (#52.7) contains drugs that are used as primary solutions in the IV room. The solution must already exist in the DRUG file (#50) to be selected. Data in this file includes: drug generic name, print name, status, drug information, synonym(s), volume, and electrolytes.

**Local Possible Dosages** Local Possible Dosages are free text dosages that are

associated with drugs that do not meet all of the criteria for Possible Dosages.

**Medication Instruction File** The MEDICATION INSTRUCTION file (#51) is used

by Unit Dose and Outpatient Pharmacy. It contains the medication instruction name, Outpatient Pharmacy expansion, and intended use, as well as other fields.

**Medication Routes File** The MEDICATION ROUTES file (#51.2) contains

medication route names. The user can enter an abbreviation for each route to be used at their site. The abbreviation will most likely be the Latin abbreviation for the term.

**Medication Routes/Abbreviations** The MEDICATION ROUTES file (#51.2) contains the

medication routes and abbreviations, which are selected by each Department of Veterans Affairs Medical Centers (VAMC). The abbreviation cannot be longer than five characters to fit on labels and the Medical Administration Record (MAR). The user can add new routes and abbreviations as appropriate.

**MOCHA** Medication Order Check Healthcare Application.

**National Drug File** The National Drug File provides standardization of the local drug files in all VA medical facilities.

Standardization includes the adoption of new drug nomenclature and drug classification and links the local drug file entries to data in the National Drug File. For drugs approved by the Food and Drug Administration (FDA), VA medical facilities have access to information concerning dosage form, strength and unit; package size and type; manufacturer’s trade name; and National Drug Code (NDC). The NDF software lays the foundation for sharing prescription information among medical facilities.

**Non-Formulary Drugs** Drugs that are not available for use by all providers.

**Orderable Item** An Orderable Item is pulled from the PHARMACY ORDERABLE ITEM file (#50.7) and usually has no strength attached to it (e.g., Acetaminophen). The name, with a strength attached, is the Dispense Drug name (e.g., Acetaminophen 325mg).

**Orderable Item File** The ORDERABLE ITEM file (#101.43) is a CPRS file that provides the Orderable Items for selection within all Pharmacy packages. Pharmacy Orderable Items are a subset of this file

**PECS** Pharmacy Enterprise Customization System. A Graphical User Interface (GUI) web-based application used to research, update via DATUP, maintain, and report VA customizations of the commercial-off-the- shelf (COTS) vendor database used to perform Pharmacy order checks such as drug-drug interactions, duplicate therapy, and dosing.

**Pending Order** A pending order is one that has been entered by a provider through CPRS without Pharmacy finishing the order. Once Pharmacy has finished (and verified for Unit Dose only) the order, it will become active.

**PEPS** Pharmacy Enterprise Product Services. A suite of services that includes Outpatient and Inpatient services.

**Pharmacy Orderable Item File** The PHARMACY ORDERABLE ITEM file (#50.7)

contains the Order Entry name for items that can be ordered in the Inpatient Medications and Outpatient Pharmacy packages.

**Possible Dosages** Dosages that have a numeric dosage and numeric Dispense Units Per Dose appropriate for administration. For a drug to have possible dosages, it must be a single ingredient product that is matched to National Drug File. The National Drug File entry must have a numeric strength and the dosage form/unit combination must be such that a numeric strength combined with the unit can be an appropriate dosage selection.

**Prompt** A point at which the system questions the user and waits for a response.

**Standard Medication Route File** The STANDARD MEDICATION ROUTES file

(#51.23) was created to map Local Medication Routes in VistA to an FDB Route in order to perform dosage checks in PRE V.0.5. This file has been standardized by Standards and Terminology Service (STS) and is mapped to an FDB Route. It cannot be edited locally.

**Standard Schedule** Standard medication administration schedules are stored in the ADMINISTRATION SCHEDULE file (#51.1) and are commonly referred to as "Standard Schedules."

**Units Per Dose** The Units Per Dose is the number of Units (tablets, capsules, etc.) to be dispensed as a dose for an order. Fractional numbers will be accepted for certain dosage forms (i.e. tablets, oral solutions, etc.)

**VA Drug Class Code** A drug classification system used by VA that separates

drugs into different categories based upon their characteristics. Some cost reports can be run for VA Drug Class Codes.

**VA Product File** The VA PRODUCT file (#50.68).

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