



OUTPATIENT PHARMACY

PHARMACIST'S USER MANUAL

Version 7.0
December 1997

(Revised May 2013)

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 |
|-------|--|--------------|--|
| 05/13 | i, ii, vii-x, 48-48d, 95-96, 160b-160d, 167-167d, 169-170, 177-178 | PSO*7*391 | Updated Revision History Updated Table of Contents New security key named "PSDRPH" introduced. Updated Changes to OERR. Added Changes to Processing a Prescription section. Added Hash Counts and DEA Certification section. Added two System Error messages. Updates to Index (Niha Goyal, PM; John Owczarzak, Tech Writer) |
| 01/13 | i-x, 4, 6, 8, 11, 18a-18d, 28, 29, 30a, 30c, 30d, 39y, 39bb, 39ff, 39hh, 39qq, 39tt - 39uu2, 39vv, 39ww-39ww2, 39mmm, 53, 58, 60-60o, 66, 73, 77, 79, 80, 83, 89, 100, 155, 171-176, 177-178 | PSO*7*390 | Added Check Drug Interaction Added Creatinine Clearance (CrCl) and Body Surface Area (BSA) to the Patient and Medication Profile displays. Added drug allergy changes Added Clinic Order section Updated Glossary Updated Index (D. McCance, PM; G. Tucker, PM; G. Scorca, Tech Writer) |
| 09/12 | i, iib, vii, viii, 83a – 83d, 89 – 91b, 99, 107a, 170m | PSO*7*386 | Added section on HOLD and UNHOLD functionality. Updated Flagging and Unflagging Pending Orders. Updated Activity Log for HOLD/UNHOLD comments. Added PSO TECH ADV key information. (Niha Goyal, PM; John Owczarzak, Tech Writer) |
| 03/12 | i, viii, 8, 15, 24, 35-36, 41, 160, 170a, 170e-170l, 170m-170n, 177-178 | PSO*7*367 | To add functionality to Outpatient Pharmacy for the printing and storing of FDA Medication Guides. Updates to Index (N. Goyal, PM; B. Thomas, Tech Writer) |
| 03/12 | i, vii, 63, 107a-107b, 160-160b, 171, 172, 173 | PSO*7*354 | Update to TOC Automated Dispensing Device (ADD) enhancement ADD, DNS, OPAI added to Glossary. (Niha Goyal, PM; John Owczarzak, Tech Writer) |

| Date | Revised Pages | Patch Number | Description |
|-------|--|--------------|---|
| 02/12 | i-ii, iia-iib, v-viii, 10, 13-14, 36-37, 43, 48a-48b, 50, 67, 67a-67n, 75, 111, 117-119, 122-123, 123a-123b, 125-128, 128a-128b, 130-134, 134a-134b, 135-138, 138a-138b, 139-140, 140a-140b, 141, 141a-141b, 142-146, 147-149, 149a, 150-154, 156a-156b, 157, 170e-170f, 171-178 | PSO*7*385 | <p>Removed incorrect listing of View Additional Reject Info (ARI) action</p> <p>Added signature alerts</p> <p>Updated wording for ¾ Days Supply Hold</p> <p>Added rounding functionality for ¾ Days Supply Hold</p> <p>Added new actions Submit Multiple Actions (SMA) and Suspense Date Calculation (SMA)</p> <p>Added new option View ePharmacy Rx (VER)</p> <p>Corrected earlier formatting errors</p> <p>Corrected typos</p> <p>Updated Service Code values</p> <p>Updated changed security key names</p> <p>Added TRICARE and CHAMPVA examples of rejects on a new order</p> <p>Updated name of TRICARE CHAMPVA Bypass/Override Report</p> <p>Updated screen shots related to patch changes</p> <p>Updated wording based on reviewer feedback</p> <p>Added CHAMPVA functionality</p> <p>Added separate section to list changes to security keys</p> <p>Added CHAMPVA to Glossary</p> <p>(S. Spence, PM; C. Smith, Tech Writer)</p> |
| 10/11 | i-ii, v-viii, 4, 7-10, 36, 56-58, 64, 66, 95, 118, 120-124, 126-127, 128-128b, 135-137, 139-145, 146-146b, 148, 149-149b, 150-153, 154-154b, 155-156, 165, 175-178 | PSO*7*359 | <p>Added new action View Additional Reject Info (ARI)</p> <p>Expanded ECME Numbers to twelve digits</p> <p>Updated screen shots related to patch changes</p> <p>Added TRICARE to Glossary</p> <p>Corrected typos</p> <p>Corrected formatting errors from 11/10 reissue</p> <p>(S. Spence, PM; C. Smith, Tech Writer)</p> |
| 09/11 | i,vi-vii, 30a-30f | PSO*7*382 | <p>Added information regarding the new [PSO HRC PROFILE/REFILL] option.</p> <p>(N. Goyal, PM; J. Owczarzak, Tech Writer)</p> |
| 04/11 | i, viii, 8, 170a-170d, 177-179 | PSO*7*343 | <p>To add functionality to Outpatient Pharmacy for the On-Demand Displaying of FDA Medication Guides.</p> <p>Display FDA Medication Guide [MG] added to Other OP Actions [OTH]</p> <p>Updates to Index</p> <p>(T. Leggett, PM; B. Thomas, Tech Writer)</p> |

Preface

This user manual describes the functional characteristics of Outpatient Pharmacy V. 7.0. It is intended for pharmacists and technicians who are familiar with the functioning of Outpatient Pharmacy in a Veterans Affairs Medical Center (VAMC).

(This page included for two-sided copying.)

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Chapter 1: Introduction

The Outpatient Pharmacy (OP) software provides a way to manage the medication regimen of veterans seen in the outpatient clinics and to monitor and manage the workload and costs in the Outpatient Pharmacy. The Pharmacy Ordering Enhancements (POE) project (patch PSO*7*46 for Outpatient Pharmacy) improves the flow of orders between Inpatient and Outpatient Pharmacy as well as between Computerized Patient Record System (CPRS) and backdoor pharmacy.

The primary benefits to the veteran are the assurance that he or she is receiving the proper medication and the convenience of obtaining refills easily. The clinicians and pharmacists responsible for patient care benefit from a complete, accurate, and current medication profile available at any time to permit professional evaluation of treatment plans. Utilization, cost, and workload reports provide management cost controlling tools while maintaining the highest level of patient care.

Documentation Conventions

This *Outpatient Pharmacy V. 7.0 Manager's User Manual* includes documentation conventions, also known as notations, which are used consistently throughout this manual. Each convention is outlined below.

| Convention | Example |
|---|--|
| Menu option text is italicized. | There are eight options on the <i>Archiving</i> menu. |
| Screen prompts are denoted with quotation marks around them. | The "Dosage:" prompt displays next. |
| Responses in bold face indicate user input. | Select Orders by number: (1-6): 5 |
| <Enter> indicates that the Enter key (or Return key on some keyboards) must be pressed. <Tab> indicates that the Tab key must be pressed. | Type Y for Yes or N for No and press <Enter>. Press <Tab> to move the cursor to the next field. |
|  Indicates especially important or helpful information. |  Up to four of the last LAB results can be displayed in the message. |
|  Indicates that options are locked with a particular security key. The user must hold the particular security key to be able to perform the menu option. |  This option requires the security key PSOLOCKCLOZ. |

If a prescription is not in a releasable status, the user will be given an error message, such as:

- Prescription has a status of (status) and is not eligible for release.
- Prescription was deleted.
- Improper barcode format.
- Non-existent prescription.

Copay is not charged for a partial fill.

*****Important*****

This is a mandatory function that must be used by the pharmacy.

Changes to Releasing Orders function - Digitally Signed Orders Only

The release function in the *Patient Prescription Processing* option has been modified with patch PSO*7*131 to require that all digitally signed orders for Schedule II controlled substances (CSII orders) be released through the *Outpatient Rx* option in the *Controlled Substances* (CS) menu. If DEA/PKI is activated and an order is digitally signed, the user will be advised that the order must be released through the *Outpatient Rx* option in the *Controlled Substances* (CS) menu. The same message will display if a user attempts to release a digitally signed CSII order during Speed Release or when using the *Release Medications* option.

A new security key named "PSDRPH", was introduced by the Controlled Substances patch PSD*3*76 that authorizes pharmacists to finish/verify digitally signed Schedule II-V CS orders placed via CPRS.

When processing a digitally signed pending order, the integrity of the original order placed in CPRS is now being checked to ensure that the data fields listed below are not altered from the time the order is signed in CPRS and later selected for processing in backdoor pharmacy. This is done by passing the data elements listed below to a Kernel Application Programming Interface (API), Integration Control Registration (ICR) #3539 along with the CPRS hash count provided by ICR #5709. The Kernel API compares these two hash values and returns an "OK" if the pending order is unaltered; otherwise, a "-1^error code^error message" is returned.

Example: "-1^89802016^Mismatched digital signature hash values."

The following fields are used in the hash check:

- Date of Issuance
- Full Name and Address of the Patient
- Drug Name
- Quantity Prescribed
- Directions for Use
- Prescriber Name
- Prescriber Address (site address)
- Prescriber DEA / VA Registration Number
- Order Number (CPRS)

The Kernel API will also check for the validity of the DEA certificate. If the certificate is revoked or expired, the API will return the appropriate error code. If the error code is related to hash mismatch, or the DEA certificate is revoked, the following events will be triggered during pending order processing:

- The order will be auto discontinued.
- First line of the pending order screen will have the message "Digital Signature Failed: Corrupted (Hash mismatch)" or "Certificate revoked" concatenated with "Order Auto Discontinued", and the message will be highlighted.
- The status bar of the screen will have the message "Signature Failed: Corrupted (Hash mismatch)" or "Certificate revoked."

A mail message will be generated to the holders of the PSDMGR key notifying that the order has been auto-discontinued (similar to the example listed below). If the discontinuation is due to a hash mismatch as a result of altering one of the fields listed above, the mail message will show the altered fields with the discrepancies as shown in the following example.

Example: Mail Message of Discontinuation Due to Hash Mismatch

```

Subj: DIGITALLY SIGNED NEW ORDER AUTO DISCONTINUED  [#196353]
      03/20/12@17:1024 lines
From: POSTMASTER  In 'IN' basket.   Page 1  *New*

-----

Following order was auto discontinued when finishing a pending order
due to Corrupted (Hash mismatch) - 89802016

Division      : GREELEY CLINIC
CPRS Order #  : 5587651
Issue Date    : MAR 7,2012
Patient       : TEST,PATIENT (0908)
Address       : P.O. BOX 31
               LAPORTE, CA 95981
Drug          : CODEINE SULFATE 60MG TAB
Dosage Ordered: 120(MG)
Dosage Form   : TABLETS
Quantity      : 54
Provider      : TEST,PROVIDER
DEA#         : TA1234563
Site Address  : 2360 E PERSHING BLVD
               2360 East Pershing Boulevard
               CHEYENNE

Differences in CPRS and Pharmacy Pending File

Data Name          CPRS File          Pharmacy Pending File
-----
QTY PRESCRIBED    15                               30
  
```

If the error code is related to 'certificate expired', the pending order will be processed (will not be auto-discontinued), and a notification will be sent to the provider with the message "DEA certificate expired. Renew your certificate."

The following changes have been made for finishing a CS order:

- When finishing a pending CS order, if the user does not hold the new PSDRPH security key, the order will be marked as 'Non-Verified'. To verify a 'Non-Verified' CS order, the PSDRPH security key is now required. To discontinue a pending CS order, the PSDRPH security key is now required.
- The pending order screen will now display the provider's DEA/VA #, the DETOX# (if available), and the site address.
- When finishing a new pending CS order, the dosage, provider name, or the number of refills will not be allowed editing; however, the user will be allowed to select other possible dosages for the same drug if available. If the changes to the dispense drug results in creating a new order, the user will be notified by the message " Digitally Signed Order - No such changes allowed." If pharmacy wants to make such changes, then they have to discontinue (DC) the pending order and start a new order. However, the user will be allowed to select other possible dosages for the same drug that does not change the prescribed dosage.
- When finishing a new pending CS order, the day supply or the quantity will not be allowed to increase but can be decreased. If the day supply is decreased, the number of refills will also be adjusted accordingly depending on the drug setup (maximum refills, not refillable, etc). The quantity may be auto-calculated to a higher quantity by the system only when the dosage remains the same, but the dispense drug strength is changed – i.e. 2mg tablets #30 is changed to 1mg tablets, the Sig is updated, and the system changes the quantity to 60. A manual change to a higher quantity is not allowed.
- When finishing a pending CS order or verifying a CS order by the PSDRPH key holder, any edit to some of the key fields, such as dispense drug, dosage, dispense units, issue date, day's supply, quantity or number of refills, will now be captured and stored in the activity log.

Note: In patch PSO*7*99, a change was made for pending orders not to recalculate the quantity for CS drugs on selecting a different strength of the same drug and resulting in the same prescribed dosage. This change is removed in patch PSO*7*391.

Changes to Releasing Orders function - ScripTalk®

The release function in the *Patient Prescription Processing* option has been modified to display a message to the user when the site is using a Bingo Board and when the patient is enrolled in ScripTalk®. This message will alert the user that the patient is enrolled in ScripTalk® and may need to have a verbal announcement that the prescription(s) is ready, instead of a visual announcement.

Example: Releasing Medication to a ScripTalk® Patient

```
Prescription Number 400693 Released
No Refill(s) to be Released
No Partial(s) to be Released

OPPATIENT16,ONE added to the WAITING display.
This patient is enrolled in ScripTalk and may benefit from
```

a non-visual announcement that prescriptions are ready.

Press Return to Continue:

Changes to Releasing Orders Function – Signature Alert

With Patch PSO*7*385, the release function in the *Patient Prescription Processing* option has been modified to display a message to the user when an ECME-billable prescription is being released as a window fill. This message will alert the user that the patient's signature must be obtained. The user is not required to press <Enter> to continue or respond to the alert in any other manner.

Example: Releasing an ePharmacy Window Fill

```
Prescription Number 100003853 Released  
No Refill(s) to be Released  
No Partial(s) to be Released
```

ePharmacy Rx – Obtain Signature

(This page included for two-sided copying.)

Complete Orders from OERR

[PSO LMOE FINISH]

When a clinician has created an order for a patient, the pharmacist then completes and verifies the order. The *Complete Orders from OERR* option is used to complete orders entered into the patient record through Order Entry Results Reporting (OERR) V. 3.0. This option uses the List Manager features. PSO*7*391 added a new sort selection, 'CS' enabling users to select digitally signed CS orders separately.

The user may select orders by patient, route, priority, clinic, flag, or controlled substances. If Clinic is selected, the user may then choose to select by Clinic or Clinic Sort Group. In any sort, orders are completed on a first-in/first-out basis by patient. Clinic Sort Groups can be added or edited in the *Enter/Edit Clinic Sort Groups* option, found under the *Maintenance (Outpatient Pharmacy)* menu option. Orders entered before implementation of patch PSO*7*46 (Pharmacy Ordering Enhancements (POE)) must have the fields used to build the Sig filled in before processing can be completed.

If a temporary address has no end date, the following text is now displayed: “(Temp address from XXX 99,9999 till (no end date))”.

For ePharmacy orders, after an order is finished, the billing data is sent to the Electronic Claims Management Engine (ECME). ECME sends a message back to Outpatient Pharmacy displaying the status of the claim. For an example, see “Finishing an ePharmacy Order” in this section.

Example: Finishing an Order from OERR

```
Select Outpatient Pharmacy Manager Option: RX (Prescriptions)

      Orders to be completed for all divisions: 16

Do you want an Order Summary? No//  <Enter> NO

      Patient Prescription Processing
      Barcode Rx Menu ...
      Complete Orders from OERR
      Discontinue Prescription(s)
      Edit Prescriptions
      ePharmacy Menu...
      List One Patient's Archived Rx's
      Manual Print of Multi-Rx Forms
      Reprint an Outpatient Rx Label
      Signature Log Reprint
      View Prescriptions

Select Rx (Prescriptions) Option: Complete Orders from OERR

There are multiple Institutions associated with this Outpatient Site for
finishing orders entered through CPRS. Select the Institution for which to
finish orders from. Enter '?' to see all choices.

Select CPRS ORDERING INSTITUTION: ALBANY// <Enter>      NY VAMC 500

You have selected ALBANY.
After completing these orders, you may re-enter this option and select again.

Select By: (PA/RT/PR/CL/FL/CS/E): PATIENT// <Enter>
All Patients or Single Patient: (A/S/E): SINGLE// <Enter>
```

```
Select Patient: OPPACIENT16,ONE  OPPACIENT16,ONE      4-3-41      000246802
YES      SC VETERAN

Do you want to see Medication Profile? Yes//
```

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



The user may enter a question mark at the “Select Patient” prompt to view a list of patients with pending orders. A single patient may be selected for processing, or pending orders for all patients may be processed in sequence by the time of each order’s entry into the system.



Flagged orders will not be processed. They are not a part of any pending orders. To process flagged orders, you should enter **FL** at the “Select By” prompt. This ensures you will view all patients with flagged pending orders, allowing you to address their flagged orders; however, if you know which patients have flagged orders, you can access the flagged orders through the Medication Profile.



If the user answers **YES** to “Do you want to see Medication Profile?” and the patient has remote prescription(s), the following prompt appears.

```
REMOTE PRESCRIPTIONS AVAILABLE!
Display Remote Data? N//
```

If the user answers **YES** to “Display Remote Data?” then the “Remote Facilities Visited” screen appears, allowing the user to see what facilities the patient has prescriptions at and what those prescriptions are.

After the user answers the medication profile prompt, a warning displays if no allergy assessment has been made. The patient’s eligibility and RX patient status also displays.

Example: Reprinting an Outpatient Rx Label – Multiple Dispensing Device

```
Select Rx (Prescriptions) Option: REPRINT AN OUTPATIENT RX LABEL

Reprint Prescription Label: 100002987          BACLOFEN 10MG TABS
Number of Copies? : (1-99): 1//
Print adhesive portion of label only? ? No// NO
Do you want to resend to Dispensing System Device? No// y YES
Comments: Multipe dispensing devices

Rx # 100002987          05/02/11
OPPACIENT,TEN          #7

TAKE ONE TABLET BY BY MOUTH EVERY DAY FOR 7 DAYS

BACLOFEN 10MG TABS
OPPHARMACIST,FOUR          OPPHARMACIST,NINE
# of Refills: 7

Select LABEL DEVICE: LEXMARK5$PRT

LABEL(S) QUEUED TO PRINT

PRESCRIPTIONS SENT TO:
SCRIPTPRO1
  100002987          BACLOFEN 10MG TABS

STORAGE DEVICES
SCRIPTCENTER
  100002987          BACLOFEN 10MG TABS
```

Signature Log Reprint

[PSO SIGLOG REPRINT]

This option allows the user to reprint the Signature Log for a prescription. The system will prompt for a prescription number and printer device. The user will receive a system confirmation that this log has been queued to print.

Example: Reprinting a Signature Log

```
Select Rx (Prescriptions) Option:  Signature Log Reprint
Reprint Signature Log for Prescription:    100002277A    PREDNISONE 20MG S.T.
Select LABEL DEVICE:  LEX2    LEX2$PRT    Bay Pines
Signature Log Reprint queued
```

View Prescriptions

[PSO VIEW]

View the most complete information available for a specific prescription. The activity log lists the date, reason, prescription reference (Rx Ref), the initiator of the activity, and comments. The label log lists the date, prescription (Rx Ref), the person who printed it, and comments. Prescriptions with a deleted status cannot be viewed.

Restrictions to Providers on Controlled Substances Orders

As part of patch PSO*7*391, the Kernel patch XU*8*580 introduced new fields to the NEW PERSON file (#200). Apart from the DEA#/VA# requirement, DEA further classifies what CS schedule a provider is authorized to write. These new fields are:

- 55.1 SCHEDULE II NARCOTIC (S), [PS3;1]
- 55.2 SCHEDULE II NON-NARCOTIC (S), [PS3;2]
- 55.3 SCHEDULE III NARCOTIC (S), [PS3;3]
- 55.4 SCHEDULE III NON-NARCOTIC (S), [PS3;4]
- 55.5 SCHEDULE IV (S), [PS3;5]
- 55.6 SCHEDULE V (S), [PS3;6]

If one of the above fields is populated for a provider, then when placing a new order in backdoor pharmacy, the software will now check for the drug schedule with the provider privileges. If the provider does not have schedule II privileges, the software will display the following message:

"Provider not authorized to write Federal Schedule 2 prescriptions."

When placing an order for a CS Detoxification drug, the software will now check for a valid Detoxification number for the provider. If the provider does not have a Detoxification number, the software will display the following message:

"Provider must have a DETOX# to order this drug."

Prior to PSO*7*391, the default days supply for all drugs was based on Patient Rx Status. PSO*7*391 changes the default for CS schedule II drugs to be set to 30 (or to the current Patient Rx Status if lower than 30). The Integration Control Registration #3278 that returns day supply (DSUP^PSOSIGDS) is modified to return 30 for CS schedule II drugs.

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Chapter 22: CPRS Order Checks: How They Work

Introduction

In CPRS, Order Checks occur by evaluating a requested order against existing patient data. Most order checks are processed via the CPRS Expert System. A few are processed within the Pharmacy, Allergy Tracking System, and Order Entry packages. Order Checks are a real-time process that occurs during the ordering session and is driven by responses entered by the ordering provider. Order Check messages are displayed interactively in the ordering session.

Order Checks review existing data and current events to produce a relevant message, which is presented to patient caregivers. Order Checks use the CPRS Expert System (OCX namespace), to define logical expressions for this evaluation and message creation. In addition to the expert system Order Checks have some hard-coded algorithms. For example, the drug-drug interaction order check is made via an entry point in the pharmacy package whereas Renal Functions for Patients 65 and Over is defined as a rule in the CPRS Expert System.

Hash Counts and DEA Certification

When processing a digitally signed pending order, the integrity of the original order placed in CPRS is now being checked to ensure that the data fields listed below are not altered from the time the order is signed in CPRS and later selected for processing in backdoor pharmacy. This is done by passing the data elements listed below to a Kernel Application Programming Interface (API), Integration Control Registration (ICR) #3539 along with the CPRS hash count provided by ICR #5709. The Kernel API compares these two hash values and returns an "OK" if the pending order is unaltered; otherwise, a "-1^error code^error message" is returned.

Example: "-1^89802016^Mismatched digital signature hash values."

The following fields are used in the hash check:

- Date of Issuance
- Full Name and Address of the Patient
- Drug Name
- Quantity Prescribed
- Directions for Use
- Prescriber Name
- Prescriber Address (site address)
- Prescriber DEA / VA Registration Number
- Order Number (CPRS)

The Kernel API will also check for the validity of the DEA certificate. If the certificate is revoked or expired, the API will return the appropriate error code. If the error code is related to hash mismatch, or the DEA certificate is revoked, the following events will be triggered during pending order processing:

- The order will be auto discontinued.

- First line of the pending order screen will have the message "Digital Signature Failed: Corrupted (Hash mismatch)" or "Certificate revoked" concatenated with "Order Auto Discontinued", and the message will be highlighted.
- The status bar of the screen will have the message "Signature Failed: Corrupted (Hash mismatch)" or "Certificate revoked."

A mail message will be generated to the holders of the PSDMGR key notifying that the order has been auto-discontinued (similar to the example listed below). If the discontinuation is due to a hash mismatch as a result of altering one of the fields listed above, the mail message will show the altered fields with the discrepancies as shown in the following example.

Example: Mail Message of Discontinuation Due to Hash Mismatch

```

Subj: DIGITALLY SIGNED NEW ORDER AUTO DISCONTINUED  [#196353]
      03/20/12@17:1024 lines
From: POSTMASTER In 'IN' basket.    Page 1  *New*

-----

Following order was auto discontinued when finishing a pending order
due to Corrupted (Hash mismatch) - 89802016

Division      : GREELEY CLINIC
CPRS Order #  : 5587651
Issue Date    : MAR 7,2012
Patient       : TEST,PATIENT (0908)
Address       : P.O. BOX 31
               LAPORTE, CA 95981
Drug          : CODEINE SULFATE 60MG TAB
Dosage Ordered: 120(MG)
Dosage Form   : TABLETS
Quantity      : 54
Provider      : TEST,PROVIDER
DEA#          : TA1234563
Site Address  : 2360 E PERSHING BLVD
               2360 East Pershing Boulevard
               CHEYENNE

Differences in CPRS and Pharmacy Pending File

Data Name          CPRS File          Pharmacy Pending File
-----
QTY PRESCRIBED    15                               30

```

If the error code is related to 'certificate expired', the pending order will be processed (will not be auto-discontinued), and a notification will be sent to the provider with the message, "DEA certificate expired. Renew your certificate."

The following changes have been made for finishing a CS order:

- When finishing a pending CS order, if the user does not hold the new PSDRPH security key, the order will be marked as 'Non-Verified'. To verify a 'Non-Verified' CS order, the PSDRPH security key is now required. To discontinue a pending CS order, the PSDRPH security key is now required.

- The pending order screen will now display the provider's DEA/VA #, the DETOX# (if available), and the site address.
- When finishing a new pending CS order, the dosage, provider name, or the number of refills will not be allowed editing; however, the user will be allowed to select other possible dosages for the same drug if available. If the changes to the dispense drug results in creating a new order, the user will be notified by the message " Digitally Signed Order - No such changes allowed." If pharmacy wants to make such changes, then they have to discontinue (DC) the pending order and start a new order. However, the user will be allowed to select other possible dosages for the same drug that does not change the prescribed dosage.
- When finishing a new pending CS order, the day supply or the quantity will not be allowed to increase but can be decreased. If the day supply is decreased, the number of refills will also be adjusted accordingly depending on the drug setup (maximum refills, not refillable, etc). The quantity may be auto-calculated to a higher quantity by the system only when the dosage remains the same, but the dispense drug strength is changed – i.e. 2mg tablets #30 is changed to 1mg tablets, the Sig is updated, and the system changes the quantity to 60. A manual change to a higher quantity is not allowed.
- When finishing a pending CS order or verifying a CS order by the PSDRPH key holder, any edit to some of the key fields, such as dispense drug, dosage, dispense units, issue date, day's supply, quantity or number of refills, will now be captured and stored in the activity log.

Note: In patch PSO*7*99, a change was made for pending orders not to recalculate the quantity for CS drugs on selecting a different strength of the same drug and resulting in the same prescribed dosage. This change is removed in patch PSO*7*391.

Order Check Data Caching

Data caching was recently added to improve the speed of order checks. Before data caching, order checks could be slow because each order check retrieved data from the other VISTA packages—even if the order checks used the same data. With data caching, the first order check in an ordering session retrieves data from other VISTA packages, uses the data to evaluate whether it should display a warning, and then stores the retrieved data in the ^XTMP("OCXCACHE" global for five minutes. The order checks that occur in the next five minutes can use the cached data, if it is the appropriate data, instead of retrieving data from the other packages. After five minutes, the cached data expires, and order checks must retrieve new data from the VISTA packages.

For example, before data caching was implemented, if an order check took 3 seconds to retrieve data from other VISTA packages, and there were 12 order checks, clinicians might wait 36 seconds to sign orders. With data caching, the first order check might take 3 seconds to retrieve the data, but subsequent order checks could use the cache and might take only .03 seconds each. That would be 3.33 seconds compared to 36 seconds. The numbers in this example are for illustration only and do not reflect real system speed. However, data caching should speed up order checks.

To avoid using all available disk space for storing data from order checks, there are several ways to clear the ^XTMP("OCXCACHE" global. ORMTIME removes data from the global when it runs. The suggested frequency for running ORMTIME is every 30 minutes, but not every siteruns it that frequently. Kernel clean up utilities also remove data from the cache when they run, which is usually every 24 hours. If needed, users that have access to the programmer's prompt can manually clear the cache from that prompt by using PURGE^OCXCACHE.

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Chapter 23: Error Messages

| Error Level | Error Message | Reason | Why message is being displayed. |
|-------------|--|---|---|
| System | No Enhanced Order Checks can be performed. | Vendor Database cannot be reached. | The connectivity to the vendor database has gone down. A MailMan message is sent to the G. PSS ORDER CHECKS mail group when the link goes down and when it comes back up. |
| System | No Enhanced Order Checks can be performed. | The connection to the vendor database has been disabled. | A user has executed the Enable/Disable Vendor Database Link [PSS ENABLE/DISABLE DB LINK] option and disabled the interface. |
| System | No Enhanced Order Checks can be performed | Vendor database updates are being processed | The vendor database (custom and standard data) is being updated using the DATUP (Data Update) process. |
| System | “Signed Failed- Order Auto Discontinued” | Hash Mismatch | Original digitally signed CS order placed in CPRS is checked to ensure data fields are not altered from the time the order is signed in CPRS and later selected for processing in backdoor pharmacy. |
| System | “DEA certificate expired. Renew your certificate.” | Validity of the DEA certificate. | Kernel API check for the validity of the DEA certificate. If certificate is revoked or expired, the API will return the appropriate error code. |
| Drug | Enhanced Order Checks cannot be performed for Local or Local Outpatient Drug: <DRUG NAME> | Drug not matched to NDF | The local drug being ordered/ or on profile has not been matched to NDF. Matching the drug to a VA Product will eliminate this message. |
| Drug | Order Checks could not be done for Remote Drug: <DRUG NAME>, please complete a manual check for Drug Interactions and Duplicate Therapy. Remote order indicator | | If this error message is displayed, it means that the VA product that the local or remote drug being ordered/or on the local or remote profile does not have a GCNSEQNO or in rare cases, the GCNSEQNO assigned to the VA Product does not match up with a GCNSEQNO in the vendor database. |
| Drug | Enhanced Order Checks cannot be performed for Orderable Item: <OI NAME> | No active Dispense Drug found | Highly unlikely that this error would be seen. At the time the order check was being performed the orderable item did not have an active dispense drug associated. |
| Drug | Enhanced Order Checks cannot be performed for Orderable Item: <OI NAME> | No active, marked for IV Fluid Order Entry IV Additive/Solution found | The orderable item associate with an IV Fluid order did not have an active IV Additive/IV Solution marked for IV fluid order entry use at the time the order check was executed. This is another error the user will probably not see. |

Error Information

The text in the error message and reason column will be displayed to the user. The type of error is displayed in column 1.

Two Levels of Error Messages

| | |
|--------|--|
| System | When such an error occurs no drug interaction or duplicate therapy order checks will be performed. Other order checks that do not use the COTS database (FDB) will still be performed such as allergy/ADRs, duplicate drug (for outpatient only) and new CPRS order checks, etc. |
| Drug | <p>The second error level is for the drug and no drug interaction/duplicate therapy order checks will be performed for a specific drug. When you are processing an order, you may see a drug level error for a drug that is on the profile. This indicates that a drug interaction or duplicate therapy order check will not be performed for the drug in the order you are processing against this profile drug. Profile drug errors will only be shown once per patient session. So if you process several more orders, you will not see the error again. However, if you exit the option and at some later time reselect this patient to process new orders or take action on any existing orders, you will be shown the profile drug error once again.</p> <p>If a drug level error occurs on the drug in the order you are processing, no profile drug errors will be displayed. No order checks (duplicate therapy or drug interaction) will occur for the processing drug (prospective drug). The only exception to this is when you are processing an IV order with multiple prospective drugs (i.e. multiple additives)</p> |

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