



Outpatient Pharmacy (PSO)

ePharmacy

Technical Manual/Security Guide

Version 7.0

December 1997

(November 2013)

**Department of Veterans Affairs
Product Support**

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
11/13	Cover, Cover back, i-iii, v, 5, 13-14, 16, 30	PSO*7*421	Changed graphic from VA Seal to VistA logo; changed layout for cover page. Update other front matter including TOC, revision history, etc. Update routine count. Add new routines: PSO7P421, PSOBPSSL Add PSO EPHARMACY SITE MANAGER to security keys (added twice to document). (S. Spence/S. Taubenfeld, PM; K. McGarghan, Tech Writer)
05/13	i- iii, 13-14, 16	PSO*7*391	Added new routine PSOPKIV2 to the list of routines. PSDRPH key added to Security key section. (N. Goyal, PM; J. Owczarzak, Tech Writer)
01/13	i-ii 9 13-14 33-34 & 38-39 53-54	PSO*7*390	Update Revision History Added option Automate Internet Refill that was missed in the manual for PSO*7*264 Add new routines: PSODGAL2, PSODDPR7, PSODDPR8 Add menu option; Check Drug Interaction Added BSA & CrCL to the Glossary (G. Tucker, PM; S. Heiress, Tech Writer)
09/12	i, 15, 30	PSO*7*386	Added description of patch’s new security key PSO TECH ADV and modifications to the HOLD/UNHOLD functionality. (N. Goyal, PM; J. Owczarzak, Tech Writer)
03/12	i, 13-14, 60, 60a-60b, 63	PSO*7*367	Added routine PSOFDAUT. Updated NTE Segment listing. (N. Goyal, PM; B. Thomas, Tech Writer)
03/12	i, 9, 11, 31, 34, 69, 70, 71	PSO*7*354	Added new menu option Enter/Edit Automated Dispensing Devices Updated list of files with file 52.53 Added file 52.53 to file security section Added new menu option Enter/Edit Automated Dispensing Devices Added RXD-13 Dispense-To location (N. Goyal, PM; J. Owczarzak, Tech Writer)

Date	Revised Pages	Patch Number	Description
02/12	i-vi, 11 16, 30-31 36, 38-39 58, 60, 63-64	PSO*7*385	Removed "TRICARE" from file 52.87 name Changed name of PSO TRICARE and PSO TRICARE MGR security keys to PSO TRICARE/CHAMPVA and PSO TRICARE/CHAMPVA MGR respectively. Updated ePharmacy Menu with correct menu items Added Advanced Beneficiary Notice Code for ePharmacy Rx in Appendix A references (S. Spence, PM; B. Tomlin, Tech Writer)
02/12	i, ii, 9, 11, 31, 34, 69, 70, 71	PSO*7*354	Updated list of files with file 52.53 (N. Goyal, PM; J. Owczarzak, Tech Writer)
09/11	i, ii, 5, 13-14	PSO*7*382	Added routine PSOMPHRC. (N. Goyal, PM; J. Owczarzak, Tech Writer)
04/11	i-ii, 13-14	PSO*7*343	Added routine PSOFDAMG. (T. Leggett, PM; B. Thomas, Tech Writer)
04/11	i, 13-14	PSO*7*316	Removed routine PSOQUAP. Documentation released with PSO*7*343. (G. Pickwood, DM; D. Dertien, Tech Writer)
04/11	i-iv 11 13-14 19 23 31 36 & 38 40	PSO*7*251	Updated the Table of Contents. Change the number of files from 24 to 26. Added the following routines per Bill Tatum, developer for PRE: PSO251PO, PSOCPPRE, PSODDPR1, PSODDPR2, PSODDPR3, PSODDPR4, PSODDPR5, PSODDPRE, PSODGAL1, PSODGDGP, PSODOSCL, PSODOSUN, PSODOSUT, PSORROC, PSODOSU2, PSORVPT. Added information under Callable Routines section. And Removed links and added references under the External Interfaces. Updated the External Relations table Change the number of files from 24 to 26. Changed menu item Process Drug/Drug Interactions to Process Order Checks. Removed heading and information under Routine Mapping. (B. Tatum, Developer, M. Colyvas & S. Heiress, Tech Writer)
11/10	i, ii, 5-6, 11- 14, 16, 30- 31, 36	PSO*7*358	Update routine list, security keys, file list, and options for the Bypass/Override functionality and added in the TRICARE Active Duty Release. (S. Spence, PM; Jon Bolas, Tech Writer)
06/10	i, 14, 27, 35, 36	PSO*7*348	Added routines PSORLST & PSORLST2; added options Prescription List for Drug Warnings and List of Patients/Prescriptions for Recall Notice in Output Reports menu; (N. Goyal, PM; E. Phelps, Tech Writer)
10/09	13-14	PSO*7*326	Added routine PSOPATLK. (E. Wright, PM; S. B. Scudder, Tech Writer)
08/09	14	PSO*7*320	Added routines PSORMRX, PSORMRXD, and PSORMRXP. (G. Tucker, PM; S. B. Scudder, Tech Writer)

Date	Revised Pages	Patch Number	Description
08/09	9, 34	PSO*7*311	Deleted Pharmacy Patient Non-VA Meds Report/Clean-up menu. (A. Scott, PM; T. Dawson, Tech Writer)
07/09	11, 13-16, 30, 36	PSO*7*289	Added files, routines, and the NDC Validation and ePharmacy Site Parameter options to the list. (M. Anthony, PM; G. O'Connor, S. B. Scudder, Tech Writers)
01/09	13-15, 63	PSO*7*305	Added routine PSOATRFC. Extended the PSOAUTRF security key description. Added the Privacy Notification element to the NTE segment. (G. Tucker, PM; S. B. Scudder, Tech Writer)
08/08	13, 14, 56a-b	PSO*7*225	The following changes are included in this patch. New routines have been added: PSOCAN3N, PSOHLSN3, PSOORFI5, PSOORFI6, PSOORFL, PSOORRL3, PSOORRLN, and PSOORRLO. Special Escaping Characters information has been added. (S. Templeton, PM; S. B. Scudder, Tech Writer)
07/08	15	PSO*7*279	Update for the addition of the PSOAUTRF key. (A. Scott, PM; T. Dawson, Tech Writer)
06/08	9, 34	PSO*7*288	Update for the new menu option [Pharmacy Patient Non-VA Meds Report/Clean-up]. (A. Scott, PM, T. Dawson, Tech Writer)
05/08	13-14	PSO*7*294	Update Routine List with routines PSOQ0076, PSOQ0186, PSOQ0236, PSOQ0496, PSOQ0595, PSOQCF04, PSOQMCAL, PSOQRART, PSOQTIU4, PSOQUAP, PSOQUAP2, and PSOQUTIL. (S. Templeton, PM; S. B. Scudder, Tech Writer)
10/07	i-iv, 13-14, 38-43	PSO*7*260	Updated Routine List with routines PSO260PI, PSOBPSR1, PSOBPSRP, PSOBPSU1, PSOBPSU2, PSONVAVW, PSOPMP0, PSOPMP1, PSOPMPPF, and PSOREJP3. Updated menu listing with new ePharmacy menu options. (S. Spence, PM; S. Krakosky, Tech Writer)
10/07	All	PSO*7*264	Re-numbered pages; removed section heading numbering. Updated Routine List with routines PSOATRD, PSOATRF, PSOATRF1, PSOATRP, PSOATRPP, PSOATRR, and PSORESUS. Updated menu listing with new option. (E. Williamson, PM; S. Krakosky, Tech Writer)

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Implementation and Maintenance

Resource Requirements

Outpatient Pharmacy V. 7.0 contains approximately 527 routines including all PSO* routines and compiled templates, PSOX* and APSPT* that take up approximately 1.5MB disk space.

Response Time monitor hooks have been placed in the following routines:

Routine	Purpose
PSOR52	File New Prescriptions in File (#52)
PSORN52	File Renewed Prescriptions in File (#52)
PSOR52	File Refill Prescriptions in File (#52)

This package requires 27 files (see “Files” section in this manual). A typical site may require the following disk space:

1 Mbyte	DRUG file (#50) (4000 entries)
3 Mbytes per month	DRUG COST file (#50.9) (800 items dispensed by 200 dispensing physicians)
150 Mbytes	PRESCRIPTION file (#52) (500,000 prescriptions)
50 Mbytes	PHARMACY PATIENT file (#55) (500,000 prescriptions)
About 1 to 2 Mbytes	Routines and the other files (except for RX VERIFY file (#52.4), RX SUSPENSE file (#52.5), and PHARMACY ARCHIVE file (#52.8))
3 to 5 Mbytes of “swing space”	RX VERIFY file (#52.4), RX SUSPENSE file (#52.5), and PHARMACY ARCHIVE file (#52.8)

Outpatient Pharmacy V. 7.0 may be expected to require about 350 Mbytes of disk space. The actual disk utilization will, of course, depend primarily on the size of the three large files – PRESCRIPTION file (#52), PHARMACY PATIENT file (#55) and DRUG COST file (#50.9).

The requirements for Video Display Terminals (VDTs) and printers also depend on the number of transactions Outpatient Pharmacy V. 7.0 performs. Approximately three VDTs and one printer are needed for each 500 prescriptions (or fraction of 500) issued each day. If mail-out refills are handled separately, at least one VDT and one printer for each 500 refills are required. An additional VDT and a printer may be desired in the supervisor’s office, and 1 VDT in the office of people who are assigned to consult with patients about their medication regimens.

PSOPOLY	PSOPOST	PSOPOST1	PSOPOST2	PSOPOST3	PSOPOST4	PSOPOST5	PSOPOST6
PSOPOST7	PSOPOST8	PSOPRA	PSOPRF	PSOPRFSS	PSOPRI	PSOPRVW	PSOPST68
PSOPTPST	PSOQ0076	PSOQ0186	PSOQ0236	PSOQ0496	PSOQ0595	PSOQCF04	PSOQMCAL
PSOQRART	PSOQTIU4	PSOQUAP2	PSOQUTIL	PSOR52	PSORDS	PSOREF	PSOREF0
PSOREF1	PSOREF2	PSOREJJP0	PSOREJJP1	PSOREJJP2	PSOREJJP3	PSOREJJP4	PSOREJU1
PSOREJU2	PSOREJU3	PSOREJU4	PSOREJUT	PSORELD1	PSORELDT	PSORENW	PSORENW0
PSORENW1	PSORENW2	PSORENW3	PSORENW4	PSORESK	PSORESK1	PSORESUS	PSORFL
PSORLST	PSORLST2	PSORMRX	PSORMRXD	PSORMRXP	PSORN52	PSORN52A	PSORN52C
PSORN52D	PSORPTS	PSORPTS1	PSORX1	PSORXCLE	PSORXDL	PSORXED	PSORXED1
PSORXEDT	PSORXI	PSORXL	PSORXL1	PSORXLAB	PSORXPA1	PSORXPR	PSORXPR1
PSORXRP1	PSORXRP2	PSORXRPT	PSORXVW	PSORXVW1	PSORXVW2	PSOSD	PSOSD0
PSOSD1	PSOSD2	PSOSD3	PSOSDP	PSOSIG	PSOSIGCX	PSOSIGDS	PSOSIGMX
PSOSIGNO	PSOSIGTX	PSOSITED	PSOSPSIG	PSOSTART	PSOSUBCH	PSOSUCH1	PSOSUCHG
PSOSUCLE	PSOSUDCN	PSOSUDEL	PSOSUDP1	PSOSUDP2	PSOSUDPR	PSOSUINV	PSOSULB1
PSOSULBL	PSOSULOG	PSOSUP	PSOSUPAT	PSOSUPOE	PSOSUPRX	PSOSURST	PSOSUSTR
PSOSUSRP	PSOSUTL	PSOSUTL1	PSOTALK	PSOTALK1	PSOTALK2	PSOTALK3	PSOTPCAN
PSOTPCEE	PSOTPCL	PSOTPCLP	PSOTPCLR	PSOTPCLW	PSOTPCR	PSOTPCR	PSOTPCUL
PSOTPENV	PSOTPHL1	PSOTPHL2	PSOTPPS	PSOTPPRE	PSOTPPRV	PSOTPRX1	PSOTRI
PSOTRBL	PSOUTIL	PSOUTL	PSOUTLA	PSOUTLA1	PSOVCNT	PSOVDF1	PSOVDF2
PSOVDF3	PSOVDFK	PSOVER	PSOVER1	PSOVER2	PSOVERC	PSOVRPT	

PSOINTERFACE	This key is used to access the <i>External Interface Menu</i> [PSO EXTERNAL INTERFACE] option.
PSOAUTRF	This key allows the use of the Automate Internet Refill functionality and the Automate CPRS Refill functionality.
PSO TRICARE/CHAMPVA	This key is required to be able to do an override on TRICARE or CHAMPVA prescription.
PSO TRICARE/CHAMPVA MGR	This key is required to access the <i>TRICARE CHAMPVA Bypass/Override Report</i> [PSO TRI CVA OVERRIDE REPORT] option
PSO EPHARMACY SITE MANAGER	This key is required to access the <i>PSO ePharmacy Site Parameters</i> [PSO ePHARM SITE PARAMETERS] option.

Package Security

Electronic signatures may be established by using the *Electronic Signature code Edit* [XUSESIG] option.

In Kernel V. 8.0 the *Electronic Signature code Edit* [XUSESIG] option has been tied to the Common Options, under the *User's Toolbox* [XUSERTOOLS] submenu, for easy access by all users.

Security Keys

PSORPH	This key is required to use all of the Outpatient Pharmacy V. 7.0 options. It should be assigned to all pharmacists, the package coordinator, and all appropriate members of the ADP/IRMS staff.
PSO TECH ADV	This security key is used by pharmacy technicians to HOLD and UNHOLD prescriptions using a subset of the HOLD reasons available to PSORPH key holders.
PSO COPAY	This key should be assigned to any users who need to be notified when a copay exemption cannot be determined at the time a prescription fill is released. Holders of this key are also notified any time the <i>Exempt Rx Patient Status from Copayment</i> [PSOCP EXEMPTION] option is used to change the copay exemption for an Rx Patient Status.
PSO REJECTS BACKGROUND MESSAGE	When prescriptions remain on the Third Party Payer Reject - Worklist over the specified number of days, the system will send a Mailman Message to holders of this key.
PSOA PURGE	<i>NOTE: Disabled until further notice.</i> This key should be assigned to the package coordinator and/or any person who will be responsible for archiving prescriptions.
PSOLOCKCLOZ	This key is used to override the lockouts in the Clozapine option. All members of the Clozapine treatment team must be entered as users on the system and must be given this key. All pharmacists who have the ability to override the lockouts in this option must also hold this key. The Pharmacy Service representative of the Clozapine treatment team should identify these pharmacists.
PSOINTERFACE	This key is used to access the <i>External Interface Menu</i> [PSO EXTERNAL INTERFACE] option.
PSO TRICARE/CHAMPVA	This key should be assigned to a pharmacist in order to perform an Override and electronically sign a prescription for a TRICARE or CHAMPVA patient.
PSO TRICARE/CHAMPVA MGR	This key is required to access the <i>TRICARE CHAMPVA Bypass/Override Report</i> [PSO TRI CVA OVERRIDE REPORT] option.
PSO EPHARMACY SITE MANAGER	This key is required to access the <i>PSO ePharmacy Site Parameters</i> [PSO ePHARM SITE PARAMETERS] option