OUTPATIENT PHARMACY

TECHNICAL MANUAL/SECURITY GUIDE

Version 7.0
December 1997

(Revised September 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
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, PSOORROC, PSODOSU2, PSOVRPT. 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)

Implementation and Maintenance

Resource Requirements

Outpatient Pharmacy V. 7.0 contains approximately 521 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
PSON52	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 3 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.

There are no special device requirements for dot matrix labels except to print barcodes on labels. In this case, the label printer must be able to print barcodes and must be able to be set to a form length of either 4 inches or 24 lines. The section in this document on barcodes provides additional information about this function.

Laser printed labels require one or more specially configured printers. The printer must be able to print to a legal length form and must print barcodes. In addition, the printer must support Hewlett Packard's Printer Control Language (PCL) version 5 or greater.

Options to be Deleted during Installation

NOTE: The options listed below are deleted on the initial installation of Outpatient Pharmacy V. 7.0. No options are deleted after the initial installation, up to patch PSO*7*46.

Option Name	Menu Text
PSO DRUG	Drug Enter/Edit
PSO DRUGMENU	Drug/Drug Interaction Functions
PSO HOLDRX	Hold Rx
PSO INTERACTION	Drug Interactions Menu
PSO INTERACTION LOCAL ADD	Enter/Edit Local Drug Interaction
PSO INTERACTION SEVERITY	Edit Drug Interaction Severity
PSO LAB MONITOR	Mark/Unmark Lab Monitor Drugs
PSO NEW	New Prescription Entry
PSO REF	Refill Prescriptions
PSO RXEDIT	Edit Prescriptions
PSO RXHOLD	Hold Features
PSO RXPAR	Partial Prescription
PSO SIGED	Medication Instruction File Add/Edit
PSO UNHOLDRX	Unhold Rx
PSO FACILITY SETUP	Enter Facility Data for Clozapine
PSO MARK DRUG	Mark Clozapine Drug
PSOL UNMARK DRUG	Unmark Clozapine Drug
PSOARCCO	Find
PSOARCHLIST	List One Patient's Archived Rxs
PSOARCIN	Tape Retrieval
PSOARCPURGE	Purge
PSOARCSV	Save

Routine List

The following routine list for Outpatient Pharmacy appears when the new routine set is loaded. Each routine's first line contains a brief description of the routine's function. Use the First Line Routine Print [XU FIRST LINE PRINT] option to print a list of just the first line of each PSO* routine.

PSO146PS	PSO153PS	PSO251PO	PSO260PI	PSO5241	PSO5252	PSO525AP	PSO5291
PSO52API	PSO52B	PSO52EX	PSO53	PSO55FX2	PSO55FX3	PSO59	PSOADDR
PSOAMIS	PSOAMIS0	PSOAMIS1	PSOARC	PSOARCCO	PSOARCCV	PSOARCDE	PSOARCF1
PSOARCF2	PSOARCF3	PSOARCF4	PSOARCF5	PSOARCF6	PSOARCIN	PSOARCLT	PSOARCR1
PSOARCR2	PSOARCRR	PSOARCS2	PSOARCSV	PSOARCTG	PSOARCTP	PSOARX	PSOARX1
PSOATRD	PSOATRF	PSOATRF1	PSOATRFC	PSOATRP	PSOATRPP	PSOATRR	PSOAUTOC
PSOB	PSOBAI	PSOBAIR2	PSOBAIRP	PSOBARV	PSOBBC	PSOBGMG1	PSOBGMG2
PSOBGMG3	PSOBGMGR	PSOBING1	PSOBINGO	PSOBKDE1	PSOBKDED	PSOBMST	PSOBORP0
PSOBORP1	PSOBORP2	PSOBORP3	PSOBPSR1	PSOBPSRP	PSOBPSSP	PSOBPSU1	PSOBPSU2
PSOBPSUT	PSOBRPRT	PSOBSET	PSOBSET1	PSOBUILD	PSOCAN	PSOCAN1	PSOCAN2
PSOCAN3	PSOCAN3N	PSOCAN4	PSOCLERK	PSOCLO1	PSOCLOLS	PSOCLPRE	PSOCLUTL
PSOCMOP	PSOCMOPA	PSOCMOPB	PSOCMOPC	PSOCMOPR	PSOCOPAY	PSOCOST	PSOCOSTP
PSOCP	PSOCP1	PSOCPA	PSOCPB	PSOCPBA2	PSOCPBAK	PSOCPC	PSOCPD
PSOCPDUP	PSOCPE	PSOCPIB	PSOCPPRE	PSOCPTRH	PSOCPTRI	PSOCPVW	PSOCSRL
PSOCST	PSOCST10	PSOCST11	PSOCST12	PSOCST2	PSOCST3	PSOCST4	PSOCST5
PSOCST6	PSOCST7	PSOCST8	PSOCST9	PSOCSTD	PSOCSTM	PSOCSTX	PSODACT
PSODAWUT	PSODDPR1	PSODDPR2	PSODDPR3	PSODDPR4	PSODDPR5	PSODDPRE	PSODEA
PSODEDT	PSODELI	PSODEM	PSODGAL	PSODGAL1	PSODGDG1	PSODGDG2	PSODGDGI
PSODGDGP	PSODGNVI	PSODI	PSODIAG	PSODIR	PSODIR1	PSODIR2	PSODIR3
PSODISP	PSODISP1	PSODISP2	PSODISP3	PSODISPS	PSODIV	PSODLKP	PSODOSCL
PSODOSU2	PSODOSUN	PSODOSUT	PSODP	PSODPT	PSODRDU1	PSODRDU2	PSODRDUP
PSODRG	PSODRGN	PSODSPL	PSODSRC	PSODUE	PSOELPST	PSOEXBCH	PSOEXDT
PSOEXREF	PSOEXRST	PSOFDAMG	PSOFSIG	PSOFTDR	PSOFUNC	PSOHCPRS	PSOHCSUM
PSOHDR	PSOHELP	PSOHELP1	PSOHELP2	PSOHELP3	PSOHELP4	PSOHLD	PSOHLDA
PSOHLDC	PSOHLDIS	PSOHLDS	PSOHLDS1	PSOHLDS2	PSOHLDS3	PSOHLDS4	PSOHLEXC
PSOHLEXP	PSOHLINC	PSOHLINL	PSOHLNE1	PSOHLNE2	PSOHLNE3	PSOHLNE4	PSOHLNEW
PSOHLPII	PSOHLPIS	PSOHLSG	PSOHLSG1	PSOHLSG2	PSOHLSG3	PSOHLSG4	PSOHLSG5
PSOHLSIG	PSOHLSIH	PSOHLSN	PSOHLSN1	PSOHLSN2	PSOHLSN3	PSOHLSNC	PSOHLUP
PSOHLUP1	PSOLAB	PSOLBL	PSOLBL1	PSOLBL2	PSOLBL3	PSOLBL4	PSOLBLD
PSOLBLD1	PSOLBLN	PSOLBLN1	PSOLBLN2	PSOLBLS	PSOLBLT	PSOLLL1	PSOLLL2
PSOLLL3	PSOLLL4	PSOLLL5	PSOLLL6	PSOLLL7	PSOLLL8	PSOLLL9	PSOLLLH
PSOLLLHN	PSOLLLI	PSOLLLW	PSOLLU1	PSOLLU2	PSOLLU3	PSOLLU4	PSOLMAL
PSOLMAO	PSOLMDA	PSOLMLST	PSOLMPAT	PSOLMPF	PSOLMPI	PSOLMPO	PSOLMPO1
PSOLMPO2	PSOLMRN	PSOLMUTL	PSOLSET	PSOMAUEX	PSOMGCM1	PSOMGCOM	PSOMGM31
PSOMGMN1	PSOMGMN2	PSOMGMN3	PSOMGMN4	PSOMGMRP	PSOMGR31	PSOMGREP	PSOMGRP1
PSOMGRP2	PSOMGRP3	PSOMGRP4	PSOMHV1	PSOMLLD2	PSOMLLDT	PSOMPHRC	PSON52
PSONCPDP	PSONDCUT	PSONDCV	PSONEW3	PSONEW	PSONEW1	PSONEW2	PSONEWF
PSONEWG	PSONFI	PSONGR	PSONRXN	PSONTEG	PSONTEG0	PSONVAR1	PSONVARP
PSONVAVW	PSONVNEW	PSOORAL	PSOORAL1	PSOORAL2	PSOORAPI	PSOORCPY	PSOORDA
PSOORDER	PSOORDRG	PSOORED1	PSOORED2	PSOORED3	PSOORED4	PSOORED5	PSOORED6
PSOORED7	PSOOREDT	PSOORFI1	PSOORFI2	PSOORFI3	PSOORFI4	PSOORFI5	PSOORFI6
PSOORFIN	PSOORFL	PSOORNE1	PSOORNE2	PSOORNE3	PSOORNE4	PSOORNE5	PSOORNE6
PSOORNEW	PSOORNW1	PSOORNW2	PSOORRD2	PSOORRDI	PSOORRL	PSOORRL1	PSOORRL3
PSOORRLN	PSOORRLO	PSOORRNW	PSOORROC	PSOORUT1	PSOORUT2	PSOORUT3	PSOORUTL
PSOP	PSOP1	PSOP2	PSOPAT	PSOPATLK	PSOPFSU0	PSOPFSU1	PSOPKIV1
PSOPMP0	PSOPMP1	PSOPMPPF	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	PSOREJP0	PSOREJP1	PSOREJP2
PSOREJP3	PSOREJP4	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	PSOSUSTR	PSOSUSRP	PSOSUTL	PSOSUTL1	PSOTALK	PSOTALK1	PSOTALK2
PSOTALK3	PSOTPCAN	PSOTPCEE	PSOTPCL	PSOTPCLP	PSOTPCLR	PSOTPCLW	PSOTPCRP
PSOTPCRX	PSOTPCUL	PSOTPENV	PSOTPHL1	PSOTPHL2	PSOTPPOS	PSOTPPRE	PSOTPPRV
PSOTPRX1	PSOTRI	PSOTRLBL	PSOUTIL	PSOUTL	PSOUTLA	PSOUTLA1	PSOVCNT
PSOVDF1	PSOVDF2	PSOVDF3	PSOVDFK	PSOVER	PSOVER1	PSOVER2	PSOVERC
PSOVRPT							