

OUTPATIENT PHARMACY

TECHNICAL MANUAL/SECURITY GUIDE

Version 7.0 December 1997

(Revised March 2012)

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
03/12	i, 13-14,	PSO*7*367	Added routine PSOFDAUT.
	60, 60a-		Updated NTE Segment listing.
	60b, 63		(N. Goyal, PM; B. Thomas, Tech Writer)
03/12	i, 9, 11, 31, 34, 69, 70,	PSO*7*354	Added new menu option Enter/Edit Automated Dispensing Devices
	71		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)
02/12	i-vi, 11	PSO*7*385	Removed "TRICARE" from file 52.87 name
	16, 30-31		Changed name of PSO TRICARE and PSO TRICARE MGR
			security keys to PSO TRICARE/CHAMPVA and PSO
			TRICARE/CHAMPVA MGR respectively.
	36, 38-39		Updated ePharmacy Menu with correct menu items
	58, 60, 63- 64		Added Advanced Beneficiary Notice Code for ePharmacy Rx in Appendix A references
			(S. Spence, PM; B. Tomlin, Tech Writer)
09/11	i, ii, 5, 13-	PSO*7*382	Added routine PSOMPHRC.
	14		(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)

i

Date	Revised Pages	Patch Number	Description
04/11	i-iv	PSO*7*251	Updated the Table of Contents.
	11		Change the number of files from 24 to 26.
	13-14		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.
	19		Added information under Callable Routines section. And Removed links and added references under the External Interfaces.
	23		Updated the External Relations table
	31		Change the number of files from 24 to 26.
	36 & 38		Changed menu item Process Drug/Drug Interactions to Process Order Checks.
	40		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)
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)

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	PSOFDAUT	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
PSOLMP01	PSOLMPO2	PSOLMRN	PSOLMUTL	PSOLSET	PSOMAUEX	PSOMGCM1	PSOMGCOM
PSOMGM31	PSOMGMN1	PSOMGMN2	PSOMGMN3	PSOMGMN4	PSOMGMRP	PSOMGR31	PSOMGREP
PSOMGRP1	PSOMGRP2	PSOMGRP3	PSOMGRP4	PSOMHV1	PSOMLLD2	PSOMLLDT	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	PSOSURST	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						

Segments used in the Outpatient Pharmacy HL7 interface Dispense Request:

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	EXAMPLE
MSH	1	1	ST	R			Field Separator	
	2	4	ST	R			Encoding Characters	~^\&
	3	180	HD	R		0361	Sending Application	PSO VISTA
	4	180	HD	R		0362	Sending Facility – station	521~FO-
							ID and station DNS name	BIRM.MED.VA.
								GOV~DNS
	5	180	HD	R		0361	Receiving Application	PSO DISPENSE
	6	180	HD	R		0362	Receiving Facility – DNS	~DISPENSE.VH
							name and port of	A.MED.VA.GOV
							dispensing machine	:9300~DNS
	7	26	TS				Date/Time of Message	20040405152416
	9	15	CM	R	0076		Message Type	RDS~013
	10	20	ST	R			Message Control ID	10001
	11	3	PT	R	0103		Processing ID	P
	12	3	VID	R	0104		Version ID	2.4
	15	2	ID			0155	Accept Ack. Type	AL
	16	2	ID			0155	Application Ack Type	AL
PID	3	250	CX	R	Y		Patient ID (will contain	218~~~USVHA&
							IEN, SSN, ICN, Claim #,	&0363~PI~VA
							etc if exists)	FACILITY
	_							ID&500&L
	5	250	XPN	R			Patient Name	OPPATIENT~ON
		2.6	TT C				D. (TE)	E 10200 (22
	7	26	TS	R		0001	Date/Time of Birth	19280622
	8	1	IS		X7./0	0001	Administrative Sex	M
	11	250	XAD	R	Y/3		Patient Address	164 Friendship
								DR~""~TROY~N
	1.2	250	VTNI	D	V/2		Diama Ni anti anti anti	Y~12180~~P~""
	13	250	XTN	R	Y/3		Phone Number-Home	(555)555-5555
PV1	2	1	IS	R		0004	Patient Class	O for Order ediant
PVI		1	19	K		0004	Patient Class	O for Outpatient
PV2	24	15	IS	R	Y		Patient Status Code	SC~NO COPAY
r v Z	24	13	10	K	1		Fatient Status Code	SC~NO COFAT
IAM	2	250	CE	О	Y	0127	Allergen Type Code	D~DRUG~LGM
IAWI	2	230	CE	U	1	0127	Allergell Type Code	R120.8
	3	250	CE	R	Y		Allergen	128~ASPIRIN~L
	3	230	CL	K	1		Code/Mnemonic/Descripti	GMR120.8
							on	GWIK120.0
	4	250	CE	О	Y	0128	Allergy Severity Code	SV
	5	15	ST	0	Y	0120	Allergy Reaction Code	ALLERGY
	13	26	TS	0	Y		Reported Date/Time	19961205
	17	250	CE	0	Y	0438	Allergy Clinical Status	C
	1/	230	CL	9	1	0-50	Code	

Segments used in the Outpatient Pharmacy HL7 interface Dispense Request: (continued)

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	EXAMPLE
ORC	1	2	ID	R	-	0119	Order Control	NW
	2	80	EI	C			Placer Order Number	402331~OP7.0
	9	26	TS	O			Date/Time of Transaction	20040405
	10	250	XCN	R			Entered By	10~OPPROVIDE
								R~TWO
	12	250	XCN	O			Ordering Provider	987~OPPROVID
								ER~ONE
	13	80	PL	O			Enterer's Location	_TNA1225:
	15	26	TS	O			Order Effective Date	20030616
	16	10	ST	R			Order Control Code Reason	NEW
	17	250	CE	О			Entering Organization	57~7 TH
								FLOOR~99PSC
	19	250	XCN	О			Action By	65421~OPPROVI
								DER5~THREE
	20	250	CE	O		0339	Advanced Beneficiary Notice Code	VA5
	21	250	XON	О			Ordering Facility Name	AL BANY~~500
	22	250	XAD	О			Ordering Facility Address	101 CHURCH
								AVE~~ALBANY
								~NY~12208
	23	250	XTN	O			Ordering Facility Phone #r	(518)555-5554
NTE	1	1	SI	O			Set ID	1
	3	6553	FT	O			Comment	USE 50 FOR
		6						TESTING BY
								MOUTH TWICE
								A DAY FOR 30
								DAYS
	4	250	RE	O			Comment Type –	Medication
							1 = Medication	Instructions
							Instructions	
							2 = Patient Instructions	
							Narrative	
							3 = Drug Warning Narrative	
							4 = Profile Information	
							5 = Drug Interactions	
							6 = Drug Allergy	
							Indications	
							7 = PMI Sheet	
							8 = Medication	
							Instructions	
							9 = Privacy Notification	
							,	

Segments used in the Outpatient Pharmacy HL7 interface Dispense Request: (continued)

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	EXAMPLE
RXE	1	200	TQ	R			Quantity/Timing	Null
	2	250	CE	R			Give Code	XH001~HEMAT
								EST TAB (NOT
								FOR ORAL
								USE)~99PSNDF~
								3207.12039.4321
								~HEMATEST
								REAGENT TAB.
								100/BTL~99PSD
	3	20	NM	R			Give Amount-Minimum	Null
	5	250	CE	R			Give Units	20~MG~99PSU
	6	250	CE	О			Give Dosage Form	165~TAB,TEST~
								99PSF
	8	200	CM	О			Deliver-To Location	WINDOW

(This page included for two-sided copying.)

- [ORC-10] Entered By is the person's pointer to the NEW PERSON file (#200) and name in VistA who keyed in the order.
- [ORC-12] Ordering Provider is a composite ID field. The first component is the Provider's pointer to the NEW PERSON file (#200) in VistA and the second component is his/her name.
- [ORC.13] Enterer's Location is the printer where the dispensing machine should print the label.
- [ORC-15] Order Effective Date is the date/time the order took effect.
- [ORC-16] Order Control Code Reason is a coded element field. The fifth component reflects the status of the order (for example, New, Refill, Partial, Reprint, or Partial Reprint).
- [ORC-17] Entering Organization is the Clinic number and name.
- [ORC-19] Action By is the physician who cosigned, if any, and is a composite field. The first component is the physician's pointer to the NEW PERSON file (#200) in VistA and the second component is his/her name.
- [ORC-20] Advanced Beneficiary Notice Code is used to send an indicator to an automated dispensing system that the RX being dispensed is for an electronically billed prescription and that a patient signature is needed. The value of "VA5" will be sent as the indicator in the RDS^O13 Dispense Request message for an ePharmacy patient prescription.
- [ORC-21] Ordering Facility Name is the facility name and number found in the OUTPATIENT SITE file (#59).
- [NTE] The Set ID field will identify the NTE segment (1=Med. Instructions; 2=Patient Instructions Narrative; 3=Drug Warning Narrative; 4=Profile Information; 5=Drug Interactions; 6=Drug Allergy Indications; 7=PMI Sheet; 8=Medication Instructions; 9=Privacy Notification.) The Comment field will contain the respective information.
- [RXE-1] Quantity Timing is a required field but it will not be used in Outpatient Pharmacy V. 7.0. It will always be a null value ("").
- [RXE-2] Give Code identifies the substance ordered as encoded by the Pharmacy. The components, in order, are the VA Product ID, VA Product Name, National Drug File, local file pointer, local drug name, and the local file.
- [RXE-3] Give Amount Minimum is a required field but it will not be used in Outpatient Pharmacy V. 7.0. It will always be a null value ("").
- [RXE-5] Give Units identifies the units for the give amount as encoded by the VA National Drug file.
- [RXE-6] Give Dosage Form is a coded element field. The fourth component is the pointer to the DOSAGE FORM file (#50.606). The fifth component is the form name, and the sixth component is the name of coding system (99PSF).
- [RXE-8] Deliver-To-Location is the Method of Pickup (Window or Mail).

[RXE-9] Substitution Status is the value of the TRADE NAME field (#6.5) found in the PRESCRIPTION file (#52).

[RXE-10] Dispense Amount identifies the quantity.

[RXE-11] Dispense Units identifies the units for the dispense amount as encoded by the Pharmacy. [RXE-13] Ordering Provider's DEA Number will contain the physician's DEA number if the drug is a controlled substance.

[RXE-14] Pharmacist/Treatment Supplier's Verifier ID identifies the pharmacist who verified the order. The first component is the DFN pointer in the NEW PERSON file (#200) of VistA and the second component is the name.

[RXE-18] D/T of Most Recent Refill or Dose Dispensed contains the last date/time the patient received this particular drug. This is the PRIOR FILL DATE field (#102.1) from the PRESCRIPTION file (#52).

[RXE-21] Pharmacy/treatment dispense Instructions. (Label name & VA PRINT NAME).

[RXE-31] Supplementary Code contains three pieces of information:

- An indicator that the drug is a controlled substance or not (Y/N).
- An indicator if the patient is a ScripTalk patient (0 or 1).
- An indicator if the patient's PMI language preference is something other than English (Y/N).

[RXD-1] Dispense Sub-ID Counter identifies the prescription fill number.

[RXD-2] Dispense/Give code will contain the same give code as in RXE-2.

[RXD-9] Dispense Notes have two pieces of information:

- DEA, SPECIAL HDLG field (#3) from the DRUG file (#50).
- NDC field (#27) from the PRESCRIPTION file (#52).

[RXD-10] Dispensing Provider is the person who finished the order.

[RXD-12] Total Daily Dose is the days of supply for a partial fill.

[RXD-13] Dispense-To-Location will contain how the patient will receive the medication. Possible answers are WINDOW, REGULAR MAIL, CERTIFIED MAIL or DO NOT MAIL.

[RXD-15] Pharmacy/Treatment Supplier's Special Dispensing Instructions will indicate what sort of bottle cap should be employed. It is a safety cap or non-safety cap.

[RXD-25] Supplementary Code is the drug warning number and text.

[NTE] This segment following the RXD segment will contain the Patient Medication Instructions if any.

[RXR-1] Route is the medication route.