PHARMACY DATA MANAGEMENT

TECHNICAL MANUAL/ SECURITY GUIDE

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
04/11	i-iii, 5, 6, 8a-b, 33	PSS*1*153	Renamed the MED ROUTE field (#.06) of the PHARMACY ORDERABLE ITEM file (#50.7) to be DEFAULT MED ROUTE. 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. <mark>REDACTED</mark>
02/11	i, 25	PSS*1*151	Added PSSDSAPA routine to the Routine List. Released with CPRS version 28. <mark>REDACTED</mark>
02/11	i, 33-34	PSS*1*142	Added functionality to denote the default med route for IV orders in the selection list in CPRS if all of the orderable items on the order have the same default med route defined. Released with CPRS version 28. <mark>REDACTED</mark>
02/10	i-iii, 5, 8, 24f, 25, 29-30, 31b-32, 32a-32h, 45-50	PSS*1*147	Updated patch references to include PSS*1*147. Described files, fields, options and routines added/modified as part of this patch. <mark>REDACTED</mark>
10/09	i-ii, 5, 8	PSS*1*141	Updated patch references to include PSS*1*141. Added ASSOCIATED IMMUNIZATION field (#9) to the PHARMACY ORDERABLE ITEM file (#50.7). <mark>REDACTED</mark>
08/09	24f	PSS*1*140	Added new option *Default Med Route OI Rpt* [PSS DEF MED ROUTE OI RPT]. <mark>REDACTED</mark>
02/09	i-ii, 24b-f, 25, 29-31b, 48-52, 55-58	PSS*1*129	Pharmacy Re-Engineering (PRE) V.0.5 Pre-Release. Restructured main PSS MGR menu and added new *Enhanced Order Checks Setup Menu*. Described files, fields, options and routines added/modified as part of this project. <mark>REDACTED</mark>
08/08	iii, 25, 33-34	PSS*1*94	Added Medication Routes and Administration Scheduling sections. Added PSSSCHED routine. <mark>REDACTED</mark>
10/06	i, ii, 25	PSS*1*112	Pharmacy Re-Engineering (PRE) Encapsulation Cycle II project. Added routines PSS55MIS and PSS50TMP to the Routine List. <mark>REDACTED</mark>

Date	Revised Pages	Patch Number	Description
09/06	i, ii, 25	PSS*1*108	Pharmacy Re-Engineering (PRE) Encapsulation Cycle II project. Added routine PSS551 to the Routine List. <mark>REDACTED</mark>
04/06	i, 25	PSS*1*90	HIPAA NCPDP Global project. Added routines PSSDAWUT and PSSNDCUT to the Routine List. <mark>REDACTED</mark>
04/06	i, ii, 25	PSS*1*106	Pharmacy Re-Engineering (PRE) Encapsulation Cycle II project. Added routine PSS781 to the Routine List. <mark>REDACTED</mark>
11/05	i, ii, 25	PSS*1*101	Pharmacy Re-Engineering (PRE) Encapsulation Cycle II project. Added routines PSS55 and PSS59P7 to the Routine List. <mark>REDACTED</mark>
03/05	i, ii, 24a, 25, 29-31, 48	PSS*1*87	Laser Labels Phase II project. Added *Warning Builder* and *Warning Mapping* options descriptions and updated the menu options. Added four new routines to the routine list. Cleaned up misspelled words and such on many pages. <mark>REDACTED</mark>
10/04	i., 25, 33	PSS*1*85	Added routines and a reference to the *Pharmacy Re-Engineering (PRE) Application Program Interface (API) Manual* created for the Pharmacy Re-Engineering (PRE) project Encapsulation cycle 1.
10/04	i, 24a, 25, 29-31, 32d-h, 48, 53	PSS*1*82	Updated the option description to include *Send Entire Drug File to External Interface* [PSS MASTER FILE ALL] option. Added new master file update information to the "HL7 Messaging with an External System" section. Updated routine list to include PSSMSTR. Updated the web address for the VistA Documentation Library (VDL).
07/03	i, 25, 31, 48	PSS*1*61	Updated routine list to four new add PKI routines. Added new *Controlled Substances/PKI Reports* [PSS/PKI REPORTS] menu and four associated report options to the *Pharmacy Data Management* [PSS MGR] menu.
04/03	i, 5, 8, 29, 35, 48	PSS*1*68	Updated patch references to include PSS*1*68. Added NON-VA MED field (#8) to the PHARMACY ORDERABLE ITEM file (#50.7).
03/03	i., 5, 8, 24a, 29, 31, 35, 48	PSS*1*47	Updated patch references to include PSS*1*47. Added new field OTHER LANGUAGE INSTRUCTIONS (#7.1) to the PHARMACY ORDERABLE ITEM file (#50.7) list and *Other Language Translation Setup* option description.
11/02	i, ii 5, (6) 23 - 25, (26) 29-30,(47), 48	PSS*1*55	Renumbered front matter starting from this Revision History page. Updated Patch number. Updated Option descriptions to include *Drug Text File Report* option. Added routine PSSDTR in the Routines section. Added the *Drug Text File Report* option to the current PDM Menu in the Exported Options section.
10/02	Title, i-iv, 32a-32d	PSS*1*57	Updated Title Page, Revision Page and Table of Contents. A section was added for the new HL7 Messaging with an External System.

Date	Revised Pages	Patch Number	Description
09/01	All	PSS*1*38	Added this Revision History Page. Added Patch Release changes and Pharmacy Ordering Enhancements (POE) edits. Updated manual to comply with current documentation standards.
09/97	N/A	N/A	Original Release of Technical Manual.

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Implementation and Maintenance

The PHARMACY ORDERABLE ITEM file (#50.7) must be built prior to the installation of Outpatient Pharmacy V. 7.0 and Inpatient Medications V. 5.0. The PHARMACY ORDERABLE ITEM file (#50.7) will be similar to the PRIMARY DRUG file (#50.3) used by Inpatient Medications V. 4.5. The main difference is that each entry in the PHARMACY ORDERABLE ITEM file (#50.7) has an associated Dosage Form that will always print next to the name. The PHARMACY ORDERABLE ITEM file (#50.7) will be duplicated in the ORDERABLE ITEM file (#101.43) that will reside in CPRS V. 1.0. Any update to the PHARMACY ORDERABLE ITEM file (#50.7) will automatically update the corresponding entry in the ORDERABLE ITEM file (#101.43). The NAME field (#.01) and the DOSAGE FORM field (#.02) values in the PHARMACY ORDERABLE ITEM file (#50.7) will print on Outpatient Pharmacy reports, profiles, Inpatient Medication reports, MAR labels etc., in place of the Primary Drug Name.

The PHARMACY ORDERABLE ITEM file (#50.7) includes the following fields. These fields reflect the package content up to and including the release of patch PSS*1*153.

☒ These fields were necessary for the initial installation but were deleted following later patches.

* These fields were not exported with the initial installation but were added with later patches.

Field Number		Field Name	Description
.01		NAME	This is the name of the Pharmacy Orderable Item. It is a free text field that can be up to 40 characters in length.
.02		DOSAGE FORM	This is a pointer to the DOSAGE FORM file (#50.606). This is a required field and will always print next to the Pharmacy Orderable Item name.
.03		IV FLAG	This field will be set to 1 to indicate that the Pharmacy Orderable Item entry is pointed to by either the IV ADDITIVES file (#52.6), or the IV SOLUTIONS file (#52.7). If this field is not set to 1, it indicates that the entry is pointed to from the DRUG file (#50).
.04		INACTIVE DATE	This will contain the date the entry had been made inactive.
.05		DAY (nD) or DOSE (nL) LIMIT	This is a free text field used to calculate a default value for the "STOP DATE" prompt of the order.

Field Number		Field Name	Description
.06		**DEFAULT MED ROUTE**	This is a pointer to the MEDICATION ROUTES file (#51.2). If a MED ROUTE is entered here, it will be used as the default value during order entry when this drug is selected.
.07		**SCHEDULE TYPE**	This field is a set of codes and will be used as a default value when selecting this drug in order entry.
.08		**SCHEDULE**	This is a free text field and will be used as a default value during order entry when this drug is selected.
.09		**SUPPLY**	This is a set of codes with 1 (one) indicating that the Orderable Item is a supply.
2		**SYNONYM (multiple)**	This multiple will contain all the associated synonyms for the Pharmacy Orderable Item.
	.01	**SYNONYM**	A free text synonym name up to 30 characters long.
☒3		**CORRESPONDING UD ITEM**	If CHANGE TYPE OF ORDER FROM OERR field (#20.412) in the PHARMACY SYSTEM file (#59.7) parameter in Inpatient Mediations package is set, this field will be asked to user. This field will indicate corresponding Orderable Items to choose from and which package (UD or IV) to finish the order.

*10		USE DOSAGE FORM MED ROUTE LIST	This flag governs the source of the medication routes that will be used during medication order entry. If this field is set to YES, the optional list of med routes will be derived from the Dosage Form file (#50.606) associated to the orderable item. Otherwise, it will be derived from the Possible Med Routes Sub-file (#50.711) associated to the orderable item.
*11		POSSIBLE MED ROUTES (multiple)	If the DEFAULT MED ROUTE field (#.06) is populated then that value will be returned as the default value. If the DEFAULT MED ROUTE field (#.06) is not populated and the POSSIBLE MED ROUTES multiple (#11) is populated with a single entry and the USE DOSAGE FORM MED ROUTE LIST field (#10) is set to "NO", the single entry will be returned as the default value. If the DEFAULT MED ROUTE (#.06) field is not populated and the POSSIBLE MED ROUTES multiple (#11) is populated with more than one entry and the USE DOSAGE FORM MED ROUTE LIST field (#10) is set to "NO", no value will be returned as the default value. The med routes selection list in CPRS will be populated with entries in all the medication routes associated with the orderable item's dosage form if the USE DOSAGE FORM MED ROUTE LIST field (#10) is set to "YES", otherwise from the POSSIBLE MED ROUTES multiple (#11).
*11	.01	POSSIBLE MED ROUTES	POINTER TO MEDICATION ROUTES FILE (#51.2) (Multiply asked)

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Data Archiving and Purging

There are no archiving and purging functions necessary with this release of the PDM package.

Callable Routines/Entry Points/Application Program Interfaces (APIs)

APIs, callable routines, and entry points can be viewed by first choosing the *DBA* menu option on FORUM and then choosing the *Integration Agreements Menu* option.
For detailed information on all supported Pharmacy Data Management APIs, see the *Pharmacy Re-Engineering (PRE) Application Program Interface (API) Manual* posted on the VistA Documentation Library (VDL) at http://www.va.gov/vdl/.

Medication Routes

The following paragraphs provide an explanation of medication route information.

If there is one and only one orderable item in the IV order, the Pharmacy Orderable Item file (#50.7) will be checked to see if there is a default med route. Additionally, any med route defined for the dosage form of the orderable item will be checked. Duplicate entries will be filtered by inpatient pharmacy. The list of possible med routes sent back to CPRS will include the default med route (if defined), as well as any other med routes defined for the dosage form.

If there is more than one orderable item on the IV order, the Pharmacy Orderable Item file will be checked for each orderable item to see if a default is defined. This default will be pooled with the other possible med routes for each dosage form for each orderable item. Duplicates will be filtered by inpatient pharmacy. If all of the orderable items on the order have the same default med route defined, the default med route will be denoted in the selection list in CPRS. Regardless of whether all orderable item defaults match or not, a default med route will not be marked as a default if there is more than one orderable item on the order. The list of possible med routes returned to CPRS will include only those med routes that every orderable item in the order shares in common.

Administration Scheduling

The following rules apply to administration scheduling.

If there is a duplicate schedule, and if one of them contains ward-specific administration times for the ward location of the patient, the schedule returned for inclusion in the array of selectable schedules in CPRS will be the one with the ward-specific administration times.

If no duplicate has ward-specific administration times for the ward location of the patient, the schedule with the lowest IEN number will be returned. If both (or more than one) duplicate schedules have ward-specific administration times for the ward location of the patient, the

schedule with the lowest IEN number in the ADMINISTRATION SCHEDULE file (#51.1) will be the schedule in the array returned to CPRS.

External Relations

Integration Agreements

IAs can be viewed by first choosing the *DBA* option on FORUM and then the *Integration Agreement*s *Menu* option.

Example: DBA Option

```
Select Primary Menu Option: DBA


Select DBA Option: INTEGration Agreements Menu


Select Integration Agreements Menu Option:  Custodial Package Menu

Select Custodial Package Menu Option:  ACTIVE by Custodial Package
Select PACKAGE NAME: PHARMACY DATA MANAGEMENT      PSS
DEVICE: HOME//
```

Internal Relations

All PDM options can function independently.

Package-Wide Variables

There are no package-wide variables for this version.