



# **NATIONAL DRUG FILE (NDF)**

## **TECHNICAL MANUAL**

Version 4.0  
October 1998

(Revised October 2004)



# Revision History

The table below lists changes made since the initial release of this manual. Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. Either update the existing manual with the Change Pages document, or replace it with the updated manual.

**Note:** The Change Pages document may include unedited pages needed for two-sided copying. Only edited pages display the patch number and revision date in the page footer.

| Date  | Revised Pages                             | Patch Number | Description  |
|-------|---|--------------|--|
| 10/04 | i, 2, 6, 8                                | PSN*4*80     | Added routines and a reference to the <i>Pharmacy Re-Engineering (PRE) Application Program Interface (API) Manual</i> created for the Pharmacy Re-Engineering (PRE) project Encapsulation cycle 1  |
| 09/03 | 7   | PSN*4*70     | -Added two new options to the list of exported options.  |
| 07/03 | Title Page, i-ii, 10b                     | PSN*4*65     | - Noted changes to CS Federal Schedule field.  |
| 04/03 | Title Page, i, 15                         | PSN*4*20     | -Changed the RD access on several files.   |
| 04/03 | Title Page, i, 6                          | PSN*4*68     | -Added the PSNPPPIO routine to the list of routines.   |
| 02/03 | Title Page, i-iv, 4a-4d, 6                | PSN*4*62     | -Replaced the Title Page, Revision History Page, and Table of Contents.<br>-Added the Patient Medication Information (PMI) Sheet enhancement files and printer set-up.<br>-Added print routine to the list of routines.  |
| 10/02 | Title Page, i-iv, 12, 12a, 12b            | PSN*4*64     | -Replaced the Title Page (and associated blank page) and the Revision History Page (and associated blank page).<br>-Added page numbers to the Revision History Pages and Table of Contents Pages.<br>- Updated the Electronic MailMan Messages for Drugs Unmatched from the National Drug File.  |
| 10/02 | Title Page 10, 10a, 10b, 11, 12, 12a, 12b | PSN*4*58     | - Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.)<br>- Updated the Electronic MailMan Messages for Data Update for NDF, Updated Interactions, and Drugs Unmatched from National Drug File. This included new screen captures and required the addition of new pages. |

| <b>Date</b> | <b>Revised Pages</b> | <b>Patch Number</b> | <b>Description</b>  |
|-------------|----------------------|---------------------|---|
| 09/01       | Title Page<br>10-12  | PSN*4*53            | - Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.)<br>- Added a new Electronic Mail Message for Updated Interactions and added new screen captures for the Electronic Mail Messages for Data Update and Drugs Unmatched from National Drug File. |
| 02/00       | 6,7,9                | PSN*4*22            | Added a new option called <i>Inquire to National Files</i> .  |
| 10/98       |                      |                     | Original Released Technical Manual.   |

## Introduction

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The National Drug File (NDF) V. 4.0 software module provides standardization of the local drug files in all Department of Veterans Affairs Medical Centers (VAMCs). Standardization includes the adoption of new drug nomenclature and drug classification, and links the local drug file entries to data in the National Drug files.

For drugs approved by the Food and Drug Administration (FDA), VAMCs have access to information concerning dosage form, strength and unit; package size and type; manufacturer's trade name; and National Drug Code (NDC). The NDF software lays the foundation for sharing prescription information among VAMCs.

The NATIONAL DRUG file (#50.6) has been redesigned from a file seven multiples deep to a new file structure of four separate files. The new files are the VA PRODUCT file (#50.68), the NDC/UPN file (#50.67), the VA DISPENSE UNIT file (#50.64), and File #50.6, which is now the VA GENERIC file.

With this version of NDF, the new design of the NATIONAL DRUG file (#50.6) will lay the foundation for timely data releases by Pharmacy Benefits Management (PBM) personnel to field facilities using the NDF Management System. As new drug products are released, this information can be quickly sent to facilities. Pharmacy end users will be able to match (classify) a greater percentage of their local drug files for new products. Update/delivery of data will be controlled by PBM personnel. Frequent updating of NDF will be possible with minimal time for installation and downtime.

In addition to the redesign of NATIONAL DRUG file (#50.6), Version 4.0 will provide the following enhancements:

- Addition of new fields to NDF, such as National Formulary and restriction indicators.
- Lay foundation for interfaces to other Commercial Off The Shelf (COTS) software to update NDF fields for new/revised drug information.
- Update current NDF with new/revised product information.
- Creation of an Application Programmer's Interface (API) to accommodate all existing VISTA software Database Integration Agreements (DBIAs) with NDF.
- A clean-up of associated files, such as DRUG MANUFACTURER (#55.95), DRUG UNITS (#50.607), etc.
- Incorporation of approved enhancement requests by Pharmacy/Information Resources Management (IRM) end users.

## **Related Manuals**

*National Drug File V. 4.0 Release Notes*

*National Drug File V. 4.0 Installation Guide*

*National Drug File V. 4.0 User Manual*

*Pharmacy Re-Engineering (PRE) Application Program Interface (API) Manual*

## **Icons**

Icons used to highlight key points in this manual are defined as follows:

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Indicates the user should take note of the information.

## Files

The NATIONAL DRUG file (#50.6) has been redesigned from a file seven multiples deep to a new file structure of four separate files. The new files are the VA PRODUCT file (#50.68), the NDC/UPN file (#50.67), the VA DISPENSE UNIT file (#50.64), and File #50.6, which is now the VA GENERIC file.

The files required to run the NDF software are listed below.

| FILE #      | NAME                      | UP<br>DATE<br>DD | SEND<br>SEC.<br>CODE | DATA<br>COMES<br>W/FILE | SITE<br>DATA | RSLV<br>PTS | USER<br>OVER<br>RIDE |
|-------------|---------------------------|------------------|----------------------|-------------------------|--------------|-------------|----------------------|
| 50.416      | DRUG INGREDIENT           | YES              | YES                  | YES                     | OVER         | NO          | NO                   |
| 50.6        | VA GENERIC                | YES              | YES                  | NO                      |              |             |                      |
| 50.605      | VA DRUG CLASS             | YES              | YES                  | YES                     | OVER         | NO          | NO                   |
| 50.606      | DOSAGE FORM               | YES              | YES                  | YES                     | OVER         | NO          | NO                   |
| Partial DD: | subDD 50.606              |                  |                      | fld: .01                |              |             |                      |
| 50.607      | DRUG UNITS                | YES              | YES                  | YES                     | OVER         | NO          | NO                   |
| 50.608      | PACKAGE TYPE              | YES              | YES                  | YES                     | OVER         | NO          | NO                   |
| 50.609      | PACKAGE SIZE              | YES              | YES                  | YES                     | OVER         | NO          | NO                   |
| 50.612      | NATIONAL DRUG TRANSLATION | YES              | YES                  | NO                      |              |             |                      |
| 50.64       | VA DISPENSE UNIT          | YES              | YES                  | NO                      | OVER         | NO          | NO                   |
| 50.67       | NDC/UPN                   | YES              | YES                  | NO                      |              |             |                      |
| 50.68       | VA PRODUCT                | YES              | YES                  | NO                      |              |             |                      |
| 51.2        | MEDICATION ROUTES         | YES              | YES                  | NO                      | MERG         | NO          | YES                  |
| Partial DD: | subDD 51.2                |                  |                      | fld: .01                |              |             |                      |
| 55.95       | DRUG MANUFACTURER         | YES              | YES                  | YES                     | OVER         | NO          | NO                   |
| 56          | DRUG INTERACTION          | YES              | YES                  | NO                      | OVER         | NO          | NO                   |
| 59.7        | PHARMACY SYSTEM           | YES              | YES                  | NO                      |              |             |                      |
| Partial DD: | subDD 59.7                |                  |                      | fld: 10                 |              |             |                      |
|             |                           |                  |                      | fld: 10.1               |              |             |                      |
|             |                           |                  |                      | fld: 10.2               |              |             |                      |
|             |                           |                  |                      | fld: 11                 |              |             |                      |
|             |                           |                  |                      | fld: 12                 |              |             |                      |

## Templates

| Sort      | File |
|-----------|------|
| PSNFRMSRT | 50   |

| Print     | File   |
|-----------|--------|
| PSNFRMPRT | 50     |
| PSNHEAD   | 50     |
| PSNLDG1   | 50     |
| PSNPRINT  | 50.605 |
| PSNRPT4   | 50     |
| PSNACTION | 56     |

## Routines

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The following is a list of routines you will see for NDF when you load the new routine set. The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (*First Line Routine Print*) to print a list of just the first line of each PSN\* routine.

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| PSN4P4   | PSN4POST | PSN4PRE  | PSN50612 | PSN50625 |
| PSN50626 | PSN50627 | PSN50P41 | PSN50P4A | PSN50P6  |
| PSN50P65 | PSN50P67 | PSN50P68 | PSN56    | PSNACT   |
| PSNAPIS  | PSNAUTO  | PSNBLD   | PSNCLPR  | PSNCLS   |
| PSNCMOP  | PSNCOMP  | PSNDDI1  | PSNDEA   | PSNDEX   |
| PSNDI    | PSNDINT  | PSNDRUG  | PSNEXC   | PSNFRMLY |
| PSNHEADR | PSNHELP  | PSNHELP1 | PSNHFRM  | PSNHFRM1 |
| PSNHIT   | PSNLDG   | PSNLOOK  | PSNMCLS  | PSNMGR   |
| PSNNDCC  | PSNNDCC1 | PSNNFL   | PSNNFL1  | PSNNGR   |
| PSNOCLS  | PSNONDF  | PSNOUT   | PSNPFN   | PSNPPIO  |
| PSNPPIP  | PSNPPIP1 | PSNPRE   | PSNPRE1  | PSNPSS   |
| PSNPST   | PSNQA    | PSNRPT   | PSNRPT2  | PSNRPT3  |
| PSNSTCK  | PSNSTCL  | PSNSUPLY | PSNTER   | PSNUPN   |
| PSNVAGN  | PSNVER   | PSNVFY   | PSNVIEW  | PSNXREF  |

70 Routines

## Exported Options

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The National Drug File [PSNMGR] menu, assigned to all users, contains two locked options — *Allow Unmatched Drugs to Be Classed* [PSNSTCL] and *Formulary Report* [PSNFRMLY]. These options are unlocked by the PSNMGR key. This key must be assigned to the package coordinator or his/her designee. Only users having this key will see these options on their menu.

The following are the options exported with NDF version 4.0:

### National Drug File V. 4.0 Menu

REMA Rematch/Match Single Drugs [PSNDRUG]  
VER Verify Matches [PSNVFY]  
SVER Verify Single Match [PSNVER]  
MERG Merge National Drug File Data Into Local File [PSNMRG]  
AUTO Automatic Match of Unmatched Drugs [PSNAUTO]  
CLAS Allow Unmatched Drugs to be Classed [PSNSTCL]  
[Locked: PSNMGR]  
RPRT National Drug File Reports [PSNSUBM]  
LDF Local Drug File Report [PSNLDG]  
VAGN Report of VA Generic Names from National Drug [PSNVAGN]  
ATMP Report of Attempted Match Drugs [PSNEXC]  
PROD VA Product Names Matched Report [PSNPFN]  
NOCL Local Drugs with No VA Drug Class Report [PSNOCLS]  
CLVA VA Drug Classification [PSNCLS]  
DFL NDF Info from Your Local Drug File [PSNRPT]  
SUPL Supply (XA000) VA Class Report [PSNSUPLY]  
MANC Manually Classed Drugs Report [PSNMCLS]  
NMAT Local Drugs with NO Match to NDF Report [PSNONDF]  
\*LOCF Local Formulary Report [PSNFRMLY] [Locked: PSNMGR]  
NATF National Formulary Report [PSNNFL]  
DDIN Drug-Drug Interaction Report [PSNTER]  
CMOP VA Products Marked for CMOP Transmission [PSNCMOP]  
PNCL VA Product Names By Class Report [PSNCLPR]  
LDRG Local Drugs Excluded from Drug-Drug Interactions [PSNODDI]  
VDRG VA Products Excluded from Drug-Drug Interactions [PSNEXMPT]  
INQ Inquiry Options [PSNQUER]  
LINQ Inquire to Local Drug File [PSNVIEW]  
\*\*PNIN Inquire to VA Product Info For Local Drug [PSNLOOK]  
NDCU NDC/UPN Inquiry [PSNUPN]  
NAT Inquire to National Files [PSNACT]  
PMIS Print a PMI Sheet [PSNPMIS]

\* Formerly *Formulary Report*

\*\* Formerly *Lookup National Drug Info in Local File.*

## Archiving and Purging

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The NDF software contains no archiving or purging capabilities. It is recommended that National Drug File remain online.

## Callable Routines

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The National Drug File contains one callable routine at the present time. This routine, PSNNGR, is used by the Allergy Tracking System software package. The routine is the actual point of entry.

This routine is to be used in conjunction with the allergies package. It expects an input of PSNDA=internal number in File 50.6 (VA GENERIC file). The routine returns ^TMP("PSN",\$J,IFN)=Primary Ingredient. The IFN is the Internal number from File #50.416 (DRUG INGREDIENTS file) of Primary Ingredient. If PSNDA doesn't exist, PSNID and ^TMP("PSN",\$J) are killed. The variables X,J,K,PSNPN are used and are killed before exiting.

For detailed information on all supported National Drug File 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/>.

## External Interfaces

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The National Drug File V. 4.0 relies (minimum) on the following external packages. This software is not included in this package and must be installed before this version of NDF is completely functional.

| <u>Package</u>                        | <u>Minimum Version Needed</u> |
|---------------------------------------|-------------------------------|
| VA FileMan                            | 21.0                          |
| Kernel                                | 8.0                           |
| MailMan                               | 7.1                           |
| Pharmacy Data Management              | 1.0                           |
| National Drug File                    | 3.18                          |
| Adverse Reaction Tracking             | 4.0                           |
| Consolidated Mail Outpatient Pharmacy | 2.0                           |
| Decision Support System               | 3.0                           |
| Drug Accountability                   | 3.0                           |
| Immunology Case Registry              | 2.1                           |
| Inpatient Medications                 | 4.5 or greater                |
| Order Entry/Results Reporting         | 2.5 or greater                |
| Outpatient Pharmacy                   | 6.0 or greater                |