



# **NATIONAL DRUG FILE (NDF)**

## **TECHNICAL MANUAL**

Version 4.0  
October 1998

(Revised May 2010)



# 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
05/10	i-ii, <a href="#">6</a> , <a href="#">7</a> , <a href="#">17-18</a>	PSN*4*108	Added routines PSNFDAMG, and PSNMEDG to the list of routines. Routine PSNAPIS was modified. Added new option Display FDA Medication Guide [PSN MED GUIDE]. Added FDA Medication Guide to the Glossary. (T. Leggett, PM; B. Thomas, TW)
02/09	6, 10, 10b, 12e-f	PSN*4*169	Added routines PSNEN169 and PSNPO169. Described section added to the VA Product message as part of an NDF Management System change. Updated Notes Regarding Patches section. (G. Tucker, PM; V. Howell, TW)
02/06	6	PSN*4*109	Added routine PSN5067 to the list of routines. (H. Whitley, PM; L. Woodson, TW)
08/05	iii, 6, 10b, 12c-d, 15, 21, 22	PSN*4*101	Added routines PSNVUID and PSNPREDS, an explanation of the data standardization project in a new section called Notes regarding Patches; moved changes to CS Federal Schedule field (patch PSN*4*65) to new section; updated Table of Contents, Glossary and Index. (H. Whitley, PM; L. Woodson, TW)
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 PSNPPIO routine to the list of routines.

<b>Date</b>	<b>Revised Pages</b>	<b>Patch Number</b>	<b>Description</b>
02/03	Title Page, i-iv, 4a-4d, 6	PSN*4*62	-Replaced the Title Page, Revision History Page, and Table of Contents. -Added the Patient Medication Information (PMI) Sheet enhancement files and printer set-up. -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). -Added page numbers to the Revision History Pages and Table of Contents Pages. - 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.) - 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.
09/01	Title Page 10-12	PSN*4*53	- Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.) - 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.

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## 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:

+

Indicates the user should take note of the information.



## Implementation and Maintenance

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### The VA Drug Classification System

The Department of Veterans Affairs Drug Classification system was developed to provide a systematic management approach to the classification of medications, including investigational and over-the counter drugs, prosthetic items, and expendable supplies. The system was designed to do the following:

- Support the inpatient and outpatient pharmacy activities;
- Facilitate the identification of drug-drug, drug-allergy, drug-lab, and drug-food interactions;
- Uphold the requirements for inventory accountability; substantiate and improve all patient medication-related activity;
- Provide an improved database to assist the health care provider;
- Provide a coordinated method of database communication for VA management;
- Facilitate the monitoring of investigational drugs; and
- Facilitate the control of prosthetic and supply items.

Each five-character alpha-numeric code specifies a broad classification and a specific type of product. The first two characters are letters and form the mnemonic for the major classification (e.g., AM for antimicrobials). Characters 3 through 5 are numbers and form the basis for subclassification. For example, the classification system for the penicillins is as follows:

AM000 ANTIMICROBIALS  
AM050 Penicillins  
AM051 Penicillin-G Related Penicillins  
AM052 Penicillins, Amino Derivatives  
AM053 Penicillinase-Resistant Penicillins  
AM054 Extended spectrum Penicillins

The VA Drug Classification system classifies drug products, not generic ingredients. Drug products with local effects are classified by route of administration (e.g., dermatological, ophthalmic). If a product is not classified by route of administration, in most cases, it is classified under a specific chemical or pharmacological classification (e.g., beta-blockers, cephalosporins). If a product is not classified by route of administration, or chemical or pharmacological subclassification, it may be classified under a therapeutic category (e.g., antilipemic agents, antiparkinson agents).

Most combination products are found in the “other” subclassification under each major classification unless a specific subcategory for combination

products has been added or a descriptive comment indicates inclusion elsewhere. In addition, products which are not adequately described by a minor category or subcategory within the major classification are classified as “other” (e.g., metronidazole and vancomycin are classified as “Anti-Infectives, Other”).

## Resource Requirements

The following resources are required for the National Drug File software package:

Routines	
PSN* routines	approx. 4636 bytes

## Implementation Requirements

There are no configurable site parameters involved in the implementation of this product. This module will not be distributed to field facilities. This module will only be installed on the system where the master National Drug files reside.

## System Configuration

There are no site-specific parameters associated with NDF.

## Assigning Keys, Menus, and Options

The installer must enter users into the test and production accounts, assigning the PSNMGR option as the primary menu option. The PSNMGR key must be assigned to the package coordinator and/or their designee. This key unlocks the *Allow Unmatched Drugs To Be Classed* [PSNSTCL] and *Local Formulary Report* [PSNFRMLY] menu options. Only users having this key will see these options on their menus.

## Patient Medication Information (PMI) Sheet Redesign Enhancement

The PMI Sheet redesign is an enhancement to the NDF package V. 4.0. These enhancements support a new contract data source for Patient Medication Information that includes a new file structure.

### Files

These files are part of a proprietary vendor database and are not part of the NDF core package. Patches PSN\*4\*67 and PSN\*4\*62 must be installed for the system to have access to these files.

File Number	File Name	Description
50.621	PMI-ENGLISH	This file contains the data provided by the vendor for PMIS monograph text entries in the English language. This file cannot be edited using FileMan options.
50.622	PMI-SPANISH	This file contains the data provided by the vendor for PMIS monograph text entries in the Spanish language. This file cannot be edited using FileMan options.
50.623	PMI-MAP-ENGLISH	This file contains data provided by the vendor required to map GCNSEQNO numbers to PMI-ENGLISH file (#50.621) monograph entries. This file cannot be edited using FileMan options.
50.624	PMI-MAP-SPANISH	This file contains data provided by the vendor required to map GCNSEQNO numbers to PMI-SPANISH file (#50.622) monograph entries. This file cannot be edited using FileMan options.
50.625	WARNING LABEL-ENGLISH	This file contains the data provided by the vendor for WARNING LABEL monograph text entries in the English language. This file cannot be edited using FileMan options.

File Number	File Name	Description
50.626	WARNING LABEL-SPANISH	This file contains the data provided by the vendor for WARNING LABEL monograph text entries in the Spanish language. This file cannot be edited using FileMan options.
50.627	WARNING LABEL MAP	This file contains the data provided by the vendor, required to map GCNSEQNO numbers to WARNING LABEL-ENGLISH file (#50.625) and WARNING LABEL-SPANISH file (#50.626) monograph entries. This file cannot be edited using FileMan options.

### **Set Up of the Patient Medication Information (PMI) Sheet Printers**

The installer must enter information for each printer that will be used to print PMI Sheets. This information controls the bolding of the sub-headings on the sheets.

#### Hardware Set Up

The printer must be physically connected to the network and then defined in the DEVICE (#3.5) and TERMINAL TYPE (#3.2) files.

#### Software Set Up

The type of printer will determine the next step. Please refer to the User's Manual for each printer to establish the correct escape sequences for turning bolding on and off. These escape sequences are input to the following fields in the TERMINAL TYPE (#3.2) file:

HIGH INTENSITY (BOLD) (#27) field  
 NORMAL INTENSITY (RESET) (#29) field

If these fields do not contain escape sequences, then the bolding of the sub-headings on the PMI Sheets will not be displayed.

## Example Set Up

The following is a set up example that was used in the development process. This example is provided to guide the user in this set up. Please note that it is only an example and may not hold true in all cases.

### **Example: Hewlett Packard or LexMark Example Set Up**

From the printer technical manual the following are the escape sequences:

Bold On: `$C(27)_(s3B"`

Bold Off: `$C(27)_(s0B"`

In the TERMINAL TYPE (#3.2) file:

To turn the bold on in the HIGH INTENSITY (BOLD) field (#27):

```
HIGH INTENSITY (BOLD) = $C(27)_(s3B"
```

To turn the bold off in the NORMAL INTENSITY (RESET) field (#29):

```
NORMAL INTENSITY (RESET) = $C(27)_(s0B"
```

(This page included for two-sided copying.)

## 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 DATE DD	SEND SEC. CODE	DATA COMES W/FILE	SITE DATA	RSLV PTS	USER OVER 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	PSN5067	PSN50P41	PSN50P4A
PSN50P6	PSN50P65	PSN50P67	PSN50P68	PSN56
PSNACT	PSNAPIS	PSNAUTO	PSNBLD	PSNCLPR
PSNCLS	PSNCMOP	PSNCOMP	PSNDDI1	PSNDEA
PSNDEX	PSNDI	PSNDINT	PSNDRUG	PSNEN169
PSNEXC	PSNFDAMG	PSNFRMLY	PSNHEADR	PSNHELP
PSNHELP1	PSNHFRM	PSNHFRM1	PSNHIT	PSNLDG
PSNLOOK	PSNMCLS	PSNMEDG	PSNMRG	PSNNDC
PSNNDC1	PSNNFL	PSNNFL1	PSNNGR	PSNOCLS
PSNONDF	PSNOUT	PSNPFN	PSNPO169	PSNPPIO
PSNPPIP	PSNPPIP1	PSNPRE	PSNPRE1	PSNPREDS
PSNPSS	PSNPST	PSNQA	PSNRPT	PSNRPT2
PSNRPT3	PSNSTCK	PSNSTCL	PSNSUPPLY	PSNTER
PSNUPN	PSNVAGN	PSNVER	PSNVFY	PSNVIEW
PSNVOID	PSNXREF			

77 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]  
FDA Display FDA Medication Guide [PSN MED GUIDE]

\* 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

The build will check to make sure that the site has the following patches installed:

<u>Package</u>	<u>Patch Needed</u>
Adverse Reaction Tracking V. 4.0	GMRA*4*13
Consolidated Mail Outpatient Pharmacy V. 2.0	PSX*2*18
Decision Support System V. 3.0	ECX*3*10
Drug Accountability V. 3.0	PSA*3*8
Immunology Case Registry V. 2.1	IMR*2.1*3
Inpatient Medications V. 4.5	PSJ*4.5*59
Inpatient Medications V. 5.0	PSJ*5*11, PSJ*5*14
Order Entry/Results Reporting V. 3.0	OR*3*33 <i>[CPRS sites only]</i>
Outpatient Pharmacy V. 6.0	PSO*6*173
Outpatient Pharmacy V. 7.0	PSO*7*10, PSO*7*11
Pharmacy Data Management V. 1.0	PSS*1*29

## **External Relations**

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### **Data Base Integration Agreements (DBIAs)**

National Drug File (NDF) V. 4.0 has Data Base Integration Agreements (DBIAs) with the packages listed above. For complete information regarding the DBIAs for NDF V. 4.0, please refer to the *DBA [DBA]* menu option on FORUM and then the *Integration Agreement Menu [DBA IA ISC]*.

### **Internal Relations**

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All of the National Drug File software package options have been designed to stand-alone.

### **Package-Wide Variables**

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The National Drug File routines do not use package-wide variables.

## Electronic MailMan Messages

When the data patches have been sent, you and holder(s) of the PSNMGR key will receive Mailman messages similar to the following examples.

The first MailMan message lists new VA products that have been added to the National Drug File, the active VA products that are unmarked for CMOP, the VA products for which the National Formulary Indicator is changed, and the VA products that have had the OVERRIDE dosage form excluded from dosage checks flag edited. The second MailMan message lists the interactions that have been added, edited, or inactivated in the National Drug File. The third MailMan message contains a list of drugs unmatched from the National Drug File.

### MailMan Message 1: Data Update for NDF

```
Subj: DATA UPDATE FOR NDF [#112345] 03 May 02 11:31 420 lines
From: NDF MANAGER In 'IN' basket. Page 1
```

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The following VA Products have been added to the National Drug File. You may wish to review, then match or unmatch local drug file entries based on this updated information.

```
ACCU-CHEK ACTIVE (GLUCOSE) TEST STRIP
(CMOP - XZ355) (DISPENSE UNIT - EA)
050924-0681-01 050924-0475-50
BOSENTAN 125MG TAB
(CMOP - B0477) (DISPENSE UNIT - TAB)
066215-0102-06
CHONDROITIN NA 40MG/HYALURONATE 30MG/ML INJ,OPH,SYRINGE,0.75ML
(CMOP - C1041) (DISPENSE UNIT - SYRINGE)
008065-1839-75
DIGOXIN (LANOXIN) 0.125MG TAB
(CMOP - D0080) (DISPENSE UNIT - TAB)
000173-0242-75 000173-0242-30 000173-0242-55
ESTRADIOL 25MCG TAB,VAG,APPLICATOR
(CMOP - E0335) (DISPENSE UNIT - EA)
000009-5173-03 000009-5173-02 000009-5173-04
FERROUS SO4 325MG TAB,EC,UD
(CMOP - F0297) (DISPENSE UNIT - TAB)
000574-0608-11
GLYCERIN 3%/SODIUM CL 0.75% SOLN,NASAL
(CMOP - G0220) (DISPENSE UNIT - ML)
050930-0280-50 050930-0280-32
HYDROGEN PEROXIDE 1.5% RINSE,ORAL
(CMOP - H0408) (DISPENSE UNIT - ML)
010310-3186-00 038341-0800-80 038341-0801-60
IBRITUMOMAB TIUXETAN IN-111 INJ,KIT
(CMOP - I0336) (DISPENSE UNIT - KIT)
064406-0104-04
```

-----report continues-----

## MailMan Message 1: Data Update for NDF (continued)

The National Formulary Indicator has changed for the following VA Products. The National Formulary Indicator will automatically be changed in your local DRUG file (#50). Please review the VISN and Local Formulary designations of these products and make appropriate changes.

### FORMULARY ITEMS

ACCU-CHEK ACTIVE (GLUCOSE) TEST STRIP  
AL OH 500MG/MG OH 400MG/SIMETHICONE 40MG/5ML LIQUID(ML)  
ALBUTEROL SO4 0.5% SOLN, INHL, 5ML  
CLARITHROMYCIN 500MG TAB, SA, PKT, 14  
EFAVIRENZ 600MG TAB  
ENOXAPARIN 120MG/0.8ML INJ, SYRINGE, 0.8ML  
FOLIC ACID 1MG TAB, UD  
GUAIFENESIN 100MG/5ML (AF) LIQUID  
HEPATITIS A 720 EL.U/HEPATITIS B 20MCG/1ML VACCINE INJ  
HEPATITIS A 720 EL.U/HEPATITIS B 20MCG/ML VACCINE INJ, SYR, 1ML

### NON-FORMULARY ITEMS

OPIUM 10% TINCTURE  
PROCAINAMIDE HCL 1000MG TAB, SA  
PROCAINAMIDE HCL 250MG CAP  
PROCAINAMIDE HCL 250MG TAB

The following active VA Products are no longer marked for CMOP. All local drug file entries matched to these VA Products will be UNMARKED for CMOP. In order to have these entries dispensed by CMOP any local DRUG file (#50) entries matched to these products must be re-matched to another VA product that is actively marked for CMOP dispensing.

ANTI-THYMOCYTE GLOBULIN (RABBIT) 25MG/VIL INJ      A1108  
BANDAGE, PROFORE FOUR LAYER SYSTEM, S-N #66000016      XX199  
ISOTRETINOIN 10MG CAP      I0085  
ISOTRETINOIN 20MG CAP      I0086  
ISOTRETINOIN 40MG CAP      I0087

The National Formulary Restriction has changed for the following VA Products.

MONTELUKAST NA 10MG TAB  
Refer to leukotriene inhibitor criteria for use.  
MONTELUKAST NA 10MG TAB, UD  
Refer to leukotriene inhibitor criteria for use.  
PROCAINAMIDE HCL (PROCANBID) 500MG TAB, SA  
Refer to Procainamide drug monitoring recommendations.

## MailMan Message 1: Data Update for NDF (continued)

For the following VA Products, the OVERRIDE dosage form exclude from dosage checks flag has been edited.

INSULIN HUMULIN 70/30 (NPH/REG) INJ PEN,3ML	Yes
DOSAGE FORM: INJ (excluded)	
TIOTROPIUM 18MCG CAP,INHL,5	No
DOSAGE FORM: CAP,INHL (not excluded)	
TIOTROPIUM 18MCG CAP,INHL,90	No
DOSAGE FORM: CAP,INHL (not excluded)	
ZER VACCINE LIVE (OKA/MERCK) INJ	Yes
DOSAGE FORM: INJ,LYPHL (not excluded)	

## MailMan Message 2: Updated Interactions

Subj: UPDATED INTERACTIONS [#112242] 31 Jul 01 10:30 17 lines  
From: NDF MANAGER In 'IN' basket. Page 1

-----  
The following interactions in National Drug File (NDF) have been added, edited or inactivated. These changes are the result of review and recommendations from the NDF support group.

### ADDED INTERACTIONS

ALPRAZOLAM/NEFAZODONE	Significant
BUSPIRONE/NEFAZODONE	Significant
NEFAZODONE/TRIAZOLAM	Significant

### EDITED INTERACTIONS

NONE

### INACTIVATED INTERACTIONS

NONE

### MailMan Message 3: Drugs Unmatched from National Drug File

Subj: DRUGS UNMATCHED FROM NATIONAL DRUG FILE [#1970] 03 Apr 02 13:55  
137 lines  
From: NDF MANAGER In 'IN' basket. Page 1

---

The following active entries in your DRUG file (#50) have been unmatched from the National Drug File (NDF). The VA Product name and CMOP ID corresponding to the unmatched local drug file name are listed on the indented line beneath each entry. An Inactivation Date may be listed for entries when this reason applies. Until you rematch these entries to NDF, they will not transmit to CMOP and drug-drug interaction checks will not check for these products. It is critical that you rematch these products immediately. You may also need to match a new orderable item. Any possible dosages and local possible dosages for these unmatched products have been deleted. Therefore, the dosages for each unmatched product should be reviewed after the rematch or recreated if the product can not be rematched to a VA Product through the NDF matching process.

DRUG	IEN	INACTIVATION DATE
CYCLOPHOSPHAMIDE 50MG C.T. (CMOP C0332)      CYCLOPHOSPHAMIDE 50MG TAB STRENGTH: 50      UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE      DOSE      PACKAGE      BCMA UNITS/DOSE 1                      50              IO 2                      100             IO	6	3/4/2002
HYDROMORPHONE 2MG C.T. (CMOP H0297)      HYDROMORPHONE HCL 2MG TAB STRENGTH: 2      UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE      DOSE      PACKAGE      BCMA UNITS/DOSE 1                      2              O 2                      4              IO LOCAL POSSIBLE DOSES DOSE      PACKAGE      BCMA UNITS/DOSE TEST              O	301	
METHOCARBAMOL 750MG TAB (CMOP M0055)      METHOCARBAMOL 750MG TAB STRENGTH: 500      UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE      DOSE      PACKAGE      BCMA UNITS/DOSE 1                      500             IO 2                      1000            IO 3                      1500            IO LOCAL POSSIBLE DOSES DOSE      PACKAGE      BCMA UNITS/DOSE	132	

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-----report continues-----



**MailMan Message 3: Drugs Unmatched from National Drug File  
(continued)**

The following investigational entries in your DRUG file (#50) have been unmatched from the National Drug File (NDF). The VA Product name and CMOP ID corresponding to the unmatched local drug file name are listed on the indented line beneath each entry. An Inactivation Date may be listed for entries when this reason applies. Until you rematch these entries to NDF, they will not transmit to CMOP and drug-drug interaction checks will not check for these products. It is critical that you rematch these products immediately. You may also need to match a new orderable item. Any possible dosages and local possible dosages for these unmatched products have been deleted. Therefore, the dosages for each unmatched product should be reviewed after the rematch or recreated if the product can not be rematched to a VA Product through the NDF matching process.

DRUG	IEN	INACTIVATION DATE
CHLORAMBUCIL 2MG TAB. (CMOP C0551) CHLORAMBUCIL 2MG TAB STRENGTH: 2 UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE DOSE PACKAGE BCMA UNITS/DOSE 1 2 IO 2 4 IO 3 6 IO	5	
NITROGLYCERIN 0.3MG S.L.T. (CMOP N0056) NITROGLYCERIN 0.3MG TAB,SUBLINGUAL STRENGTH: .3 UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE DOSE PACKAGE BCMA UNITS/DOSE 1 .3 IO 2 .6 IO LOCAL POSSIBLE DOSES DOSE PACKAGE BCMA UNITS/DOSE 1 PATCH I	245	
TEST DRUG IV (CMOP N0147) NIZATIDINE 150MG CAP STRENGTH: 150 UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE DOSE PACKAGE BCMA UNITS/DOSE 1 150 IO 2 300 IO LOCAL POSSIBLE DOSES DOSE PACKAGE BCMA UNITS/DOSE	44	

-----report continues-----

**MailMan Message 3: Drugs Unmatched from National Drug File  
(continued)**

The following inactive entries in your DRUG file (#50) have been unmatched from the National Drug File (NDF). The VA Product name and CMOP ID corresponding to the unmatched local drug file name are listed on the indented line beneath each entry. An Inactivation Date may be listed for entries when this reason applies. Until you rematch these entries to NDF, they will not transmit to CMOP and drug-drug interaction checks will not check for these products. It is critical that you rematch these products immediately. You may also need to match a new orderable item. Any possible dosages and local possible dosages for these unmatched products have been deleted. Therefore, the dosages for each unmatched product should be reviewed after the rematch or recreated if the product can not be rematched to a VA Product through the NDF matching process.

DRUG	IEN	INACTIVATION DATE
AZATHIOPRINE 50MG TAB (CMOP A0478)      AZATHIOPRINE 50MG TAB STRENGTH: 50      UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE      DOSE      PACKAGE      BCMA UNITS/DOSE 1                              50              IO 2                              100             IO                      3 LOCAL POSSIBLE DOSES DOSE      PACKAGE      BCMA UNITS/DOSE DOSE      IO              2	1	2/2/1994
BUSULFAN 2MG TAB (CMOP B0232)      BUSULFAN 2MG TAB STRENGTH: 2      UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE      DOSE      PACKAGE      BCMA UNITS/DOSE 1                              2              IO 2                              4              IO	4	3/4/2002
CLOFIBRATE 500MG CAP (CMOP C0284)      CLOFIBRATE 500MG CAP STRENGTH: 500      UNITS: MG POSSIBLE DOSES DISP UNITS/DOSE      DOSE      PACKAGE      BCMA UNITS/DOSE 1                              500             IO 2                              1000            IO LOCAL POSSIBLE DOSES DOSE      PACKAGE      BCMA UNITS/DOSE TEST      IO              2	189	3/4/2002

## Notes Regarding Patches

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### Note on CS Federal Schedule

Patches PSN\*4\*64 and PSN\*4\*66 assign a CS Federal Schedule to controlled substances and identify controlled substances as narcotic or non-narcotic by populating the CS FEDERAL SCHEDULE field (#19) of the VA PRODUCT file (#50.68). Patch PSN\*4\*65 changes the *Merge National Drug File Data Into Local File* [PSNMRG] option so that the software checks each entry to see if the CS FEDERAL SCHEDULE field contains data. If an entry has a value for the CS FEDERAL SCHEDULE but its corresponding DEA, SPECIAL HDLG field (#3) of the DRUG file (#50) is blank, the DEA, SPECIAL HDLG field will be populated with the corresponding value using the following table:

	If a drug entry has a CS FEDERAL SCHEDULE of:	And its corresponding DEA, SPECIAL HDLG field is blank, the following DEA, SPECIAL HDLG code will be inserted:
Schedule I narcotics	1	1
Schedule II narcotics	2	2A
Schedule II non-narcotics	2n	2C
Schedule III narcotics	3	3A
Schedule III non-narcotics	3n	3C
Schedule IV narcotics	4	4
Schedule V narcotics	5	5

Patch PSN\*4\*65 ensures that the newly populated CS FEDERAL SCHEDULE field is included as part of the National Drug File details in the *Inquire to National Files* [PSNACT], *NDF Info From Your Local Drug File* [PSNRPT], *Verify Matches* [PSNVFY] and *Verify Single Match* [PSNVER] options.

## **Note regarding Patch PSN\*4\*101 Pharmacy Data Standardization**

This patch does not affect any Pharmacy functionality or end-users. This patch requires the HEALTH DATA & INFORMATICS (HDI) 1.0 package in addition to required patch release checks.

The scope of Data Standardization - Pharmacy enhancement project is to modify the VISTA Pharmacy National Drug File (NDF) structures in order to meet the established standards for elements required by Data Standardization to implement a common set of standards for Clinical Health Data Repository (CHDR) and the Health Data Repository (HDR).

To accomplish data standardization with VISTA Pharmacy and data flow to CHDR and HDR, a Veterans Health Administration Unique Identifier (VUID) and the TERMSTATUS subscript Effective Date/Status will be populated in four files within the VISTA Pharmacy National Drug File package. VUID numbers will be generated dynamically and programmatically for each product. The VUID numbers have been assigned to National Drug File with a predetermined range (4000624- 4500623). There will be a one-time conversion to update the National Drug File package files. Once the Application Patch (PSN\*4\*101) and the VUID data have been installed in the four Globals for the Data Domain (NDF), the Application Post-install routine calls an API in the HDI package to update the VUID Seeding Process as Complete.

The four VISTA Pharmacy files being "standardized" are:

- VA PRODUCT file (#50.68)
- DRUG INGREDIENTS file (#50.416)
- VA DRUG CLASS file (#50.605)
- VA GENERIC file (#50.6)

## Note regarding Patch PSN\*4\*169

This patch makes these corrections to the INQUIRE TO VA PRODUCT INFO FOR LOCAL DRUG [PSNLOOK] option:

Problem: Sometimes the Active Ingredients would not display.

Solution: The Active Ingredients will now always display.

Problem: Sometimes the Strength that is displayed next to the Active Ingredient is actually the Strength of the VA Product.

Solution: The Strength of the Active Ingredient will now accurately display.

Problem: The Drug Unit was not always displaying.

Solution: The Drug Unit will now always display.

Problem: Only the CS FEDERAL SCHEDULE code was displaying, and not the text.

Solution: For the CS FEDERAL SCHEDULE, both the code and text will now display.

Problem: When displaying the Active Ingredients, the text (Primary) will no longer display next to an Active Ingredient that is a Primary Ingredient.

Solution: The Primary Ingredient will now display if the Ingredient of the VA Product has a Primary Ingredient.

This patch makes these corrections to the INQUIRE TO NATIONAL FILES [PSNACT] option:

Problem: Only the CS FEDERAL SCHEDULE code was displaying, and not the text.

Solution: For the CS FEDERAL SCHEDULE, both the code and text will now display.

Problem: The National Formulary Restriction display was being truncated after one line if it was two or more lines in length.

Solution: The entire text entered for the National Formulary Restriction will now display.

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## **Software Product Security**

## Security Management

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National Drug File V. 4.0 does not impose any additional legal requirements on the user, nor does it relieve the user of any legal requirements.

### PSNMGR Key

The PSNMGR key is assigned to the package coordinator or his/her designee. This key unlocks the *Allow Unmatched Drugs to be Classed* [PSNSTCL] and the *Local Formulary Report* [PSNFRMLY] options. Only users having this key will see these options on their menu.

These menu options are locked because the first allows you to assign a VA classification to an unmatched or unmatchable drug in the local DRUG file (#50), and the second allows you to print a Hospital Formulary Report.

The NATIONAL DRUG CLASS field (Field 25 of File 50) cannot be edited through VA FileMan, so **only** designated holders of the PSNMGR key can directly alter this field. The field may be altered in one of the following ways:

If the drug is matched to the National Drug files, the field is edited through the matching process in the National Drug File software. This change is automatic and not under user control.

If the drug is not matched, the NATIONAL DRUG CLASS field may be edited through the menu option *Allow Unmatched Drugs To Be Classed*, accessible only to users with the PSNMGR key.

### Precautions and Potential Problems

It is strongly recommended that the DRUG file (#50) and the NATIONAL DRUG TRANSLATION file (#50.612) be included in the facility's backup procedures on a periodic and systematic basis. It is important to back up these two files before the option, *Merge National Drug File Data Into Local File*, is executed. The Information Resources Management (IRM) staff must be advised before this option is executed to ensure that appropriate back up is done prior to execution.



## File Security

File Numbers	File Names	DD	RD	WR	DEL	LAYGO
*50.416	DRUG INGREDIENTS	@	@	@	@	@
*50.6	VA GENERIC	@	Pp	@	@	@
*50.605	VA DRUG CLASS	@	@	@	@	@
50.606	DOSAGE FORM	@		@	@	@
50.607	DRUG UNITS	@	@	@	@	@
50.608	PACKAGE TYPE	@	@	@	@	@
50.609	PACKAGE SIZE	@	@	@	@	@
50.612	NATIONAL DRUG TRANSLATION	@		@	@	@
50.64	VA DISPENSE UNIT	@	Pp	@	@	@
50.67	NDC/UPN	@	Pp	@	@	@
*50.68	VA PRODUCT	@	Pp	@	@	@
51.2	MEDICATION ROUTES	@				
55.95	DRUG MANUFACTURER	@	@	@	@	@
56	DRUG INTERACTION	@				
59.7	PHARMACY SYSTEM	^	@	^	^	^

\*Denotes files that have been standardized by Patch PSN\*4\*101.

The four VistA Pharmacy files being "standardized" are:

- VA PRODUCT file (#50.68)
- DRUG INGREDIENTS file (#50.416)
- VA DRUG CLASS file (#50.605)
- VA GENERIC file (#50.6)

For more information regarding Pharmacy Data Standardization, please refer to page 12d.

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## Glossary

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Automatic Match by NDC Matching	Pairing of a drug from the local DRUG file (#50) with a drug in the National Drug File with the same NDC number. This matching will be accomplished when the option <i>Automatic Match of Unmatched Drugs</i> is executed for the first time.
Active Drug	Drugs which contain no inactivation date in the INACTIVE DATE field (#100) local DRUG file (#50).
API	Application Programmer Interface.
DEA, SPECIAL HDLG Field	Field #3. A field in the local DRUG file (#50). It contains one or more codes representing special characteristics of a product.
DRUG File	See Local DRUG file.
DRUG INGREDIENTS File	File #50.416. A file that contains individual generic drugs which are components of various drug products.
Error	In the National Drug File (NDF) software, an error is an entry in the NATIONAL DRUG TRANSLATION file (#50.12) that does not have a match in the local DRUG file (#50).
FDA Medication Guide	Paper handouts that come with many prescription medicines given to the patient. The guides address issues that are specific to particular drugs and drug classes, and contain FDA-approved information that can help patients avoid serious adverse events.
FSN	Federal Stock Number. A unique identifying number assigned by the Federal Supply System to a product

(drug, supply, food item, etc.) for ordering and accounting purposes. Synonymous with the National Stock Number (NSN). This is one of the fields in the local DRUG file (#50).

Local DRUG File (#50)

This file contains the local GENERIC NAME (#.01), INACTIVE DATE (#100), DEA, SPECIAL HDLG (#3), and NDC fields, as well as others. NDF software attempts to match products from this file with products in the VA GENERIC file (#50.6) and the VA PRODUCT file (#50.58).

Manually Classed Drug

A drug from the local DRUG file (#50) which could not be matched, but has been assigned a VA Drug Classification through the use of the *Allow Unmatched Drugs to Be Classed* menu option.

Manufacturer Code

The first portion of the NDC Number (the first 4-6 digits). Identifies the manufacturer of the product.

NATIONAL DRUG File (#50.6)

This file contains a list of available drug products. It includes specific information for each product, including trade name, NDC number, manufacturer, VA Drug Class code, dosage form, route of administration, strength, units, ingredients, ingredient strength and units, package code, package size, package type, VA Product Name, and VA generic name. NDF software attempts to match products from this file with products in the local DRUG file (#50).

National Drug Identifier

A unique, HL7 compatible code assigned to all products marked for CMOP transmission. This code is utilized to transmit VA Print name and dispense unit from VistA to the vendor system.

NATIONAL DRUG File (#50.6)	This file contains a list of available drug products. It includes specific information for each product, including trade name, NDC number, manufacturer, VA Drug Class code, dosage form, route of administration, strength, units, ingredients, ingredient strength and units, package code, package size, package type, VA product name, and VA generic name. NDF software attempts to match products from this file with products in the local DRUG file (#50).
NATIONAL DRUG TRANSLATION File (#50.612)	A temporary file that is created by the NDF software. This file will contain information on drugs that have been matched, or for which a match was attempted.
NDC (NDC Number)	National Drug Code. A unique number assigned to a drug by the manufacturer for identification purposes. The NDC is in one of three formats: 4-4-2, 5-3-2, or 5-4-1. The first part is the manufacturer's code, the second part is the product number, and the last is the code for the package size and type. This is one of the fields in the local DRUG file (#50).
NDF	National Drug File. Refers to the National Drug File software.
Package Code	The last portion of the NDC number (the last two digits). This identifies the package type and size in which the product is supplied.
Package Size	The actual (physical) amount of a drug in the individual package (i.e., 5000 capsules per bottle).

Package Type	The physical container in which a drug is supplied (i.e., bottle, vial).
Product Code	The second portion of the NDC number (the second four digits) that identifies the specific drug.
PSNMGR	The name of the primary menu option and of the key that must be assigned to the pharmacy coordinator and supervisors using the National Drug File software.
Supply Item	A non-drug item entered into the GENERIC NAME field (# .01) of the local DRUG file (#50) that may be a prosthetic or expendable item such as ostomy supply, alcohol pads, syringes, bed pans, etc. identified by the code "S" in the DEA/SPECIAL HDLG field (#3) of the local DRUG file (#50).
Trade Name	This is the brand name. The name given to a generic product to distinguish it as one produced and sold by a specific manufacturer.
UPC	Universal Product Code. A unique number assigned to a product by a manufacturer commonly used for supply items. These may be found in the NDC/UPN file (#50.67).
VA Dispense Unit	The standardized unit assigned to a product when the product is marked for CMOP transmission.
VA DRUG CLASS File (#50.605)	This file contains the VA Drug Classification codes and their descriptions. Each product has one of these codes assigned to it and stored with it.

VA Generic Name	A name given to an item (drug, supply, etc. in the VA GENERIC file (#50.6)). It is this name which is matched with the entry in the GENERIC NAME (local generic name) field (#.01) of the local DRUG file (#50). This name does not contain strength, unit, or dosage form.
VA Print Name	The forty character name assigned as the name which prints on all prescription labels for products marked for CMOP transmission.
VA Product Name	The unique name assigned to each drug product in the National Drug File. This name comes from the VA PRODUCT file (#50.68) and includes strength, unit, and dosage form.
VHA	Veterans Healthcare Administration
VistA	Veterans Health Information Systems and Technology Architecture.
VUID	VHA Unique Identifier. A unique integer assigned to reference terms VHA wide.

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