

NSR 20120407 (PSN*4.0*567)

**Deployment, Installation, Back-Out, and Rollback
Guide**



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Revision History

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Artifact Rationale

This document describes the Deployment, Installation, Back-out, and Rollback Plan for new products going into the VA Enterprise. The plan includes information about system support, issue tracking, escalation processes, and roles and responsibilities involved in all those activities. Its purpose is to provide clients, stakeholders, and support personnel with a smooth transition to the new product or software, and should be structured appropriately, to reflect particulars of these procedures at a single or at multiple locations.

Per the Veteran-focused Integrated Process (VIP) Guide, the Deployment, Installation, Back-out, and Rollback Plan is required to be completed prior to Critical Decision Point #2 (CD #2), with the expectation that it will be updated throughout the lifecycle of the project for each build, as needed.

Table of Contents

1	Introduction	1
1.1	Purpose	1
1.2	Dependencies	1
1.3	Constraints	1
2	Roles and Responsibilities	1
3	Deployment	2
3.1	Timeline	2
3.2	Site Readiness Assessment	3
3.2.1	Deployment Topology (Targeted Architecture)	3
3.2.2	Test Site Information (Locations, Deployment Recipients)	3
3.2.3	Site Preparation	3
3.3	Resources	3
3.3.1	Facility Specifics (optional)	3
3.3.2	Hardware	4
3.3.3	Software	4
3.3.4	Communications	4
3.3.4.1	Deployment/Installation/Back-Out Checklist	4
4	Installation	5
4.1	Pre-installation and System Requirements	5
4.1	Platform Installation and Preparation	5
4.2	Database Creation	8
4.3	Installation Scripts	8
4.4	Cron Scripts	8
4.5	Access Requirements and Skills Needed for the Installation	9
4.6	Installation Procedure	9
4.7	Installation Verification Procedure	10
4.8	System Configuration	10
4.9	Database Tuning	10
5	Back-Out Procedure	10
5.1	Back-Out Strategy	10
5.2	Back-Out Considerations	11
5.2.1	Load Testing	11
5.2.2	User Acceptance Testing	11
5.3	Back-Out Criteria	11
5.4	Back-Out Risks	11
5.5	Authority for Back-Out	11

5.6	Back-Out Procedure.....	11
5.7	Back-out Verification Procedure.....	11
6	Rollback Procedure	12
6.1	Rollback Considerations	12
6.2	Rollback Criteria.....	12
6.3	Rollback Risks.....	12
6.4	Authority for Rollback.....	12
6.5	Rollback Procedure.....	12
6.6	Rollback Verification Procedure	12

1 Introduction

This document describes how to deploy and install the National Drug File patch PSN*4.0*567, as well as how to back-out the product and rollback to a previous version or data set. This document is a companion to the project charter and management plan for this effort.

1.1 Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom the National Drug File v4.0 patch PSN*4.0*567 will be deployed and installed, as well as how it is to be backed out and rolled back, if necessary. The plan also identifies resources, communications plan, and rollout schedule. Specific instructions for installation, back-out, and rollback are included in this document.

1.2 Dependencies

The installation of the National Drug File v4.0 patch PSN*4.0*567 requires a fully patched VistA system. Additionally, the following patch must be installed:

- PSN*4*80

1.3 Constraints

N/A

2 Roles and Responsibilities

National Drug File v4.0 patch PSN*4.0*567 is a VistA patch that will make the VA DRUG CLASS file (#50.605) available for selection when performing Health Summary Ad Hoc reports and for using in objects.

The VistA applications support team from IT Operations and Services (ITOPS) will handle the implementation/deployment of this patch as part of their normal patching process.

Table 1: Deployment, Installation, Back-out, and Rollback Roles and Responsibilities

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
	Development Team	Deployment	Plan and schedule deployment (including orchestration with vendors)	
	Development Team	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.	
		Deployment	Test for operational readiness	

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
		Deployment	Execute deployment	
		Installation	Plan and schedule installation	
		Installation	Ensure authority to operate and that certificate authority security documentation is in place	
		Installation	Validate through facility POC to ensure that IT equipment has been accepted using asset inventory processes	
		Installations	Coordinate training	
		Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)	
		Post Deployment	Hardware, Software and System Support	

3 Deployment

The deployment is planned as a typical VistA patch installation.

3.1 Timeline

The deployment and installation is scheduled to run as a typical maintenance type patch. There will be a 30-day compliance for all sites to install the patch. The approximate timeline for this effort is shown in the table below:

Table 2 National Drug File PSN*4*567 Deployment Timeline

Phase	Activity	Start	Finish
General Release	IOC Testing	3/11/2019	5/24/2019
	National Implementation	6/4/2019	7/5/2019
	Warranty Period	7/5/2019	10/5/2019
(Dates shown are subject to change due to unforeseen circumstances.)			

3.2 Site Readiness Assessment

3.2.1 Deployment Topology (Targeted Architecture)

National Drug File v4.0 patch PSN*4.0*567 will be deployed to each VistA instance. That will include local sites as well as regional data processing centers. The first set of sites to install will be the test sites.

3.2.2 Test Site Information (Locations, Deployment Recipients)

The following test sites are participating in the testing of the National Drug File v4.0 patch PSN*4.0*567 software:

Table 3 Test Sites

Test Sites
VA Boston Healthcare System
Tuscaloosa VA Medical Center
San Diego Healthcare System

3.2.3 Site Preparation

The following table describes preparation required by the site prior to deployment.

Table 4 Site Preparation

Site/Other	Problem/Change Needed	Features to Adapt/Modify to New Product	Actions/Steps	Owner
VistA Instance	N/A	N/A	N/A	N/A

3.3 Resources

N/A

3.3.1 Facility Specifics (optional)

N/A

3.3.2 Hardware

N/A

3.3.3 Software

The only software required is a fully patched Vista instance.

The following table describes software specifications required at each site prior to deployment.

Associated patches that must be installed before PSN*4.0*567:

- PSN*4*80

Documentation describing the new functionality and/or a host file containing a build may be included in this release.

- The preferred method is to retrieve the files from download.vista.med.va.gov. This transmits the files from the first available server. Sites may also elect to retrieve the files directly from a specific server.
- Sites may retrieve the software and/or documentation directly using Secure File Transfer Protocol (SFTP) from the ANONYMOUS.SOFTWARE directory at the following OI Field Offices:
- <ftp://download.vista.med.va.gov/>
- (Files will be in an anonymous.software directory)

OIT FIELD OFFICE	FTP ADDRESS	DIRECTORY
Hines	ftp.fo-hines.med.va.gov	[anonymous.software]
Salt Lake City	ftp.fo-slc.med.va.gov	[anonymous.software]

Documentation can also be found on the VA Software Documentation Library at:

<https://www.va.gov/vdl/>

Documentation Title	File Name	FTP Mode
API Manual – Pharmacy Reengineering (PRE)	phar_1_api_r0619	Binary

3.3.4 Communications

This patch is required for the installation of GMTS*2.7*125. In some facilities that may mean two different installers will be involved and will need to coordinate.

3.3.4.1 Deployment/Installation/Back-Out Checklist

N/A

4 Installation

4.1 Pre-installation and System Requirements

The expectation is that this patch will be installed in a fully patched VistA system, running on the standard Department of Veterans Affairs configuration.

4.1 Platform Installation and Preparation

The only required patch is PSN*4*80.

It is imperative that you back-up the data dictionary for the VA DRUG CLASS file (#50.605) BEFORE you install PSN*4*567.

This is in addition to the backup that should be performed during the KIDS installation process.

In order to back up the data dictionary, you will be creating a KIDS build and then sending it to the same recipients that would receive backup messages when you back-up builds before installation.

To create the KIDS build data dictionary, perform the following:

1. Select the Kernel Installation & Distribution System menu:

```
Select OPTION NAME: XPD MAIN          Kernel Installation & Distribution System
```

```
Edits and Distribution ...
Utilities ...
Installation ...
Patch Monitor Main Menu ...
```

```
You have PENDING ALERTS
```

```
Enter "VA" to jump to VIEW ALERTS option
```

2. Choose option: Edits and Distribution

```
Select Kernel Installation & Distribution System <TEST ACCOUNT> Option: EDits
and Distribution
```

```
Create a Build Using Namespace
Copy Build to Build
Edit a Build
Transport a Distribution
Old Checksum Update from Build
Old Checksum Edit
Routine Summary List
Version Number Update
```

3. Choose option: Edit a Build and select the BUILD NAME of ZPSN*4.0*567. Using the screen shots that follow as a guide, complete the build definition.

```
Select Edits and Distribution <TEST ACCOUNT> Option: EDit a Build
```

```
Select BUILD NAME: ZPSN*4.0*567
```

Are you adding 'ZPSN*4.0*567' as a new BUILD (the 10681ST)? No// **Y** (Yes)
BUILD PACKAGE FILE LINK:
BUILD TYPE: SINGLE PACKAGE// SINGLE PACKAGE
BUILD TRACK PACKAGE NATIONALLY: YES// YES

Edit a Build

PAGE 1 OF 5

Name: **ZPSN*4.0*567**

TYPE: **SINGLE PACKAGE**

Name: **ZPSN*4.0*567**

Date Distributed:

Description:

Delete Routine
after install

Environment Check Routine:

Y/N:

Pre-Install Routine:

Y/N:

Post-Install Routine:

Y/N:

Pre-Transportation Routine:

COMMAND: **N**

Press <PF1>H for help Insert

Edit a Build

PAGE 2 OF 5

Name: **ZPSN*4.0*567**

TYPE: **SINGLE PACKAGE**

File List (Name or Number)

50.605

COMMAND:

Press <PF1>H for help Insert

Edit a Build

PAGE 2 OF 5

Name: **ZPSN*4.0*567**

TYPE: **SINGLE PACKAGE**

File List (Name or Number)

DD Export Options

File: **VA DRUG CLASS**
Send Full or Partial DD...: **FULL**
Update the Data Dictionary: **YES** Send Security Code: **YES**
Screen to Determine DD Update
Data Comes With File...: **NO**

COMMAND: **Close**

Press <PF1>H for help Insert

Name: **ZPSN*4.0*567** Edit a Build PAGE 2 OF 5
TYPE: **SINGLE PACKAGE**

File List (Name or Number)

VA DRUG CLASS

COMMAND: **EXIT**

Press <PF1>H for help Insert

Create a Build Using Namespace
Copy Build to Build
Edit a Build
Transport a Distribution
Old Checksum Update from Build
Old Checksum Edit
Routine Summary List
Version Number Update

Select Edits and Distribution <TEST ACCOUNT> Option: **TRAN**sport a Distribution

Enter the Package Names to be transported. The order in which
they are entered will be the order in which they are installed.

First Package Name: **ZPSN*4.0*567**
Another Package Name:

```
ORDER  PACKAGE
1      ZPSN*4.0*567
```

```
OK to continue? YES//
Transport through (HF)Host File or (PM)PackMan: PM PackMan
```

```
      ZPSN*4.0*567...
No Package File Link
Subject: ZPSN*4.0*567
Please enter description of Packman Message
```

```
==[ WRAP ]==[INSERT ]===== < >===== [Press <PF1>H for help]=====
```

```
<=====T=====T=====T=====T=====T=====T=====T=====T=====T=====T>=====
```

```
Created by PSUSER,ONE at YOUR.SITE.MED.VA.GOV (KIDS) on Friday, 03/01/
19 at 11:35
Do you wish to secure this message? NO//
Send mail to: PSUSER,ONE// PSUSER,ONE
Select basket to send to: IN//
And Send to:
```

```
      Create a Build Using Namespace
      Copy Build to Build
      Edit a Build
      Transport a Distribution
      Old Checksum Update from Build
      Old Checksum Edit
      Routine Summary List
      Version Number Update
```

4.2 Database Creation

N/A

4.3 Installation Scripts

N/A

4.4 Cron Scripts

N/A

4.5 Access Requirements and Skills Needed for the Installation

Installing this patch requires a person with programmer access to VistA and the ability to install VistA patches using the KIDS menus.

4.6 Installation Procedure

1. Choose the PackMan message containing this build. Then select the INSTALL/CHECK MESSAGE PackMan option to load the build.
2. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu:
 - A. Select the Verify Checksums in Transport Global option to confirm the integrity of the routines that are in the transport global. When prompted for the INSTALL NAME enter the patch or build name: PSN*4.0*567

NOTE: Using <spacebar><enter> will not bring up a Multi-Package build even if it was loaded immediately before this step. It will only bring up the last patch in the build.

- B. Select the Backup a Transport Global option to create a backup message of any routines exported with this patch. It will not backup any other changes such as DDs or templates.

It is imperative this backup be performed.

- C. You may also elect to use the following options:
 - i. Print Transport Global - This option will allow you to view the components of the KIDS build.
 - ii. Compare Transport Global to Current System - This option will allow you to view all changes that will be made when this patch is installed. It compares all the components of this patch, such as routines, DDs, templates, etc.
 - D. Select the Install Package(s) option and choose the patch to install.

- i. If prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', answer NO.
 - ii. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', answer NO.
 - iii. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//': answer NO.
 - a. When prompted, 'Enter options you wish to mark as 'Out Of Order': select the following option(s):

<u>Option Name</u>	<u>Menu Text</u>
N/A	

Press the Enter key when you are done selecting options.

- b. When prompted, 'Enter protocols you wish to mark as 'Out Of Order': select the following protocol<s>:

<u>Protocol Name</u>	<u>Menu Text</u>
N/A	

Press the Enter key when you are done selecting protocols.

- c. When prompted, 'Delay Install (Minutes): (0 - 60): 0//': answer 0.

4.7 Installation Verification Procedure

1. Verify the checksum for the PSN50P65 routine matches the checksum in the patch description.
2. Once GMTS*2.7*125 is also installed, perform the following at the programmer mode prompt to confirm the APPLICATION GROUP is properly updated:

```
ZW ^DIC("AC","GMTS")  
^DIC("AC","GMTS",50.605,1)=" " **this confirms installation**  
^DIC("AC","GMTS",50.7,1)=" "  
^DIC("AC","GMTS",60,2)=" "  
^DIC("AC","GMTS",71,2)=" "  
^DIC("AC","GMTS",81,2)=" "  
^DIC("AC","GMTS",120.51,1)=" "  
^DIC("AC","GMTS",601.71,1)=" "  
^DIC("AC","GMTS",811.9,1)=" "  
^DIC("AC","GMTS",853.8,1)=" "  
^DIC("AC","GMTS",853.85,1)=" "  
^DIC("AC","GMTS",853.875,1)=" "  
^DIC("AC","GMTS",8925.1,2)=" "  
^DIC("AC","GMTS",9999999.64,1)=" "
```

4.8 System Configuration

N/A

4.9 Database Tuning

N/A

5 Back-Out Procedure

N/A

5.1 Back-Out Strategy

If, within a 14-day period of being installed, catastrophic issues arise, the facility area manager, working with product support as well as the development team, may make the decision to back out this patch.

5.2 Back-Out Considerations

The facility area manager has the ultimate responsibility for making the decision to back out this patch.

5.2.1 Load Testing

N/A

5.2.2 User Acceptance Testing

Testing was performed at three test sites: Boston, MA; Tuscaloosa, AL; and San Diego, CA.

5.3 Back-Out Criteria

A catastrophic failure of the system or significant patient safety risk would suggest the need to evaluate the possibility of backing out PSN*4.0*567.

5.4 Back-Out Risks

Other than the loss of the ability to run Health Summary objects, using the VA DRUG CLASS file (#50.605) as a selection item, there are no significant risks to backing out the patch.

5.5 Authority for Back-Out

The facility area manager has the final authority to order the back out of PSN*4.0*567.

5.6 Back-Out Procedure

1. Install the back-out KIDS build (ZPSN*4.0*567) created in section 4.2.
2. Install the back-up message created during the KIDS installation of PSN*4.0*567.

5.7 Back-out Verification Procedure

1. Verify the checksum for the routine PSN50P65 matches the pre-patch checksum value in the patch description.
2. Verify the 'AC' cross reference after backing out GMTS*2.7*125:

```
ZW ^DIC("AC", "GMTS")
^DIC("AC", "GMTS", 50.7, 1) = " "
^DIC("AC", "GMTS", 60, 2) = " "
^DIC("AC", "GMTS", 71, 2) = " "
^DIC("AC", "GMTS", 81, 2) = " "
^DIC("AC", "GMTS", 120.51, 1) = " "
^DIC("AC", "GMTS", 601.71, 1) = " "
^DIC("AC", "GMTS", 811.9, 1) = " "
^DIC("AC", "GMTS", 853.8, 1) = " "
^DIC("AC", "GMTS", 853.85, 1) = " "
^DIC("AC", "GMTS", 853.875, 1) = " "
^DIC("AC", "GMTS", 8925.1, 2) = " "
```

`^DIC("AC", "GMTS", 9999999.64, 1) = " "`

Note that 50.605 is no longer listed.

6 Rollback Procedure

N/A

6.1 Rollback Considerations

No data was modified with the installation of this patch, so no rollback is required.

6.2 Rollback Criteria

N/A

6.3 Rollback Risks

N/A

6.4 Authority for Rollback

N/A

6.5 Rollback Procedure

N/A

6.6 Rollback Verification Procedure

N/A