**State Prescription Monitoring Program (SPMP) Enhancement**

**Patch PSO\*7\*451**

Installation, Back-Out, and Rollback Guide

**(1st Draft)**



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# Introduction

The Installation, Back-Out, Rollback Guide defines the ordered, technical steps required to install the product, and if necessary, to back-out the installation, and to roll back to the previously installed version of the product. It provides installation instructions for PSO\*7\*451, as managed through the State Prescription Monitoring Program (SPMP) Enhancement project.

After PSO\*7\*408 was released it was identified during the implementation phase that some state’s PDMPs had unique requirements that could not be fulfilled by the functionality released in PSO\*7\*408 which caused the SPMP transmissions from sites in such states to be rejected. This patch

(PSO\*7\*451) will enhance the SPMP functionality to allow VHA to fulfill specific state requirements and successfully transmit data to those state’s PDMPs. This patch also enhances the security of SSH Keys management by streamlining the SSH Key creation and restricting user access to the Private SSH Key content. In addition, a few smaller miscellaneous issues have also been addressed.

All the changes introduced by this patch are related to the options under the State Prescription Monitoring Program (SPMP) Menu [PSO SPMP MENU] which is located under the Supervisor Functions [PSO SUPERVISOR] menu option.

## Purpose

The purpose of this Installation Guide is to provide installation steps for the SPMP Enhancement project patch PSO\*7\*451. The intended audience for this document is the Information Resources Management Service (IRMS) staff and Pharmacy staff responsible for installing and maintaining the Pharmacy files.

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# Pre-installation and System Requirements

PSO\*7.0\*437 is a required patch for PSO\*7\*451 so must be installed prior to installing PSO\*7\*451.

## System Requirements

|  |  |
| --- | --- |
| Package | Minimum Version Needed |
| VA FileMan | 22.0 |
| Kernel | 8.0 |
| MailMan | 8.0 |
| Health Level 7 | 1.6 |
| Order Entry/Results Reporting | 3.0 |
| CMOP | 2.0 |
| NDF | 4.0 |
| Outpatient Pharmacy | 7.0 |
| Pharmacy Data Management | 1.0 |
| Controlled Substances | 3.0 |
| Toolkit | 7.3 |
| Drug Accountability | 3.0 |

## Platform Installation and Preparation

Do not install this patch while Outpatient Pharmacy users are on the system. Installation will take no longer than three (3) minutes. **Also, avoid scheduling this patch to install around 1:00 AM local time.**

## Download and Extract Files

N/A

## Database Creation

N/A

## Installation Scripts

N/A

## Cron Scripts

N/A

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## Access Requirements and Skills Needed for the Installation

N/A

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# Installation Procedure

## Installation from the Patch Description

1. Use the INSTALL/CHECK MESSAGE option on the PackMan menu.
2. From the Kernel Installation & Distribution System (KIDS) menu, select the Installation menu.
3. From this menu, you may select to use the following options (when prompted for INSTALL NAME, enter PSO\*7.0\*451).
4. Backup a Transport Global - This option will create a backup message of any routines exported with the patch. It will NOT back up any other changes such as DDs or templates.
5. Compare Transport Global to Current System - This option will allow you to view all changes that will be made when the patch is installed. It compares all components of the patch (routines, DDs, templates, etc.).
6. Verify Checksums in Transport Global - This option will ensure the integrity of the routines that are in the transport global.
7. Print Transport Global - This option will allow you to view the components of the KIDS build.
8. Use the Install Package(s) option and select the package PSO\*7.0\*451.
9. When prompted "Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//" respond NO.
10. When prompted "Want KIDS to INHIBIT LOGONs during the install? NO//" respond NO.
11. When prompted "Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//" respond NO.

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# Implementation Procedure

## Post-Install Routine (No Action Required)

The post-install routine in the patch PSO\*7\*451 will perform a few updates related to the SPMP functionality:

* The FILE ACCESS setting for the files below will be opened up so users can use FileMan to view and search their content. The files were unintentionally released in PSO\*7\*408 as restricted.
  + SPMP ASAP RECORD DEFINITION (#58.4)
  + SPMP EXPORT BATCH (#58.42)
* If SPMP parameters have been previously entered for a state, the new field/parameter RENAME FILE AFTER UPLOAD (#17) in the SPMP STATE PARAMETERS file (#58.41) will automatically be set to 1 (YES).
* If SPMP parameters have been previously entered for a state using Appriss AWARxE, the parameter setting workaround will be automatically corrected the following way:

Before:

     STATE SFTP SERVER IP ADDRESS:  **IP\_redacted**

     STATE SFTP SERVER USERNAME  : **-oUser=username**

After:

     STATE SFTP SERVER IP ADDRESS: **IP\_redacted**

     STATE SFTP SERVER USERNAME  : **username@**

* The mail group PSO SPMP NOTIFICATIONS will be changed to type PUBLIC. This mail group was incorrectly released as PRIVATE by PSO\*7\*408.

## New PSO SPMP ADMIN Security Key (Action Required)

This new Security Key was created to restrict access to the following SPMP functionalities:

* ASAP Definition Customization updates through the View/Edit ASAP Definitions [PSO SPMP ASAP DEFINITIONS] option. Viewing the current ASAP Definition is not restricted.
* SPMP Parameters value updates through the View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] option. Viewing the current SPMP parameters is not restricted.
* SSH Key generation or replacement through the Manage Secure SHell (SSH) Keys [PSO SPMP SSH KEY MANAGEMENT] option. Viewing the current public key is not restricted.

|  |  |
| --- | --- |
| clapboard-icon-SM-GR | **Action**: The new security key PSO SPMP ADMIN should be assigned to the Outpatient Pharmacy coordinator at your site responsible for managing the State Prescription Monitoring Program (SPMP) functionality. |

## New RENAME FILE AFTER UPLOAD Parameter (May Require Action)

|  |  |
| --- | --- |
| stop_sign-512 | If your site is not currently transmitting SPMP data you can skip this step. |

This new parameter was introduced in the View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] option to control whether the data export file should be created and uploaded with a .DAT (or .TXT) extension directly or if the file should be created and uploaded with a .UP extension and once the upload completes the file would be renamed to .DAT (or .TXT). This new parameter is being exported with a default value of YES.

NO - File will be uploaded as .DAT/.TXT directly (no renaming)

YES - File will be uploaded as .UP and then renamed to .DAT/.TXT

|  |  |
| --- | --- |
| clapboard-icon-SM-GR | **Action** (Optional): If you are currently transmitting and you are aware that the renaming of the file is an issue for the state/vendor that you report to, you should set this parameter to NO. This is a known issue for West Virginia sites, so if your site is located in WV please set this field to NO. |

|  |  |
| --- | --- |
| MC900434805[1] | **If your site is currently successfully transmitting data to the SPMP you can skip the subsequent installation steps as no further configuration is necessary. Just make sure the transmissions are not interrupted due to the installation of this patch by making sure the state has successfully received your data transmission in the days following this installation.** |

## New Transmission Configuration

If your site has never transmitted data to the SPMP or if it did in the past but is no longer transmitting, or if your transmissions are not being successfully accepted due to issues related to state specific requirements or blocked connection, follow the steps below to successfully configure and perform SPMP data transmission.

### Register your Outpatient Pharmacy site with the SPMP (Action Required)

If you haven’t yet registered with your SPMP you need to do so prior to starting transmitting data to them. In summary, you have to gather the Pharmacy information such as Pharmacy Name, Address, Phone #, DEA #, and NPI #, and then fill out a form which is usually available online at their website where you can also find a detailed Implementation Guide. You must specify that you will be reporting data via Secure File Transfer Protocol (sFTP) using Secure SHell (SSH) Encryption keys. Some states refer to such type of registration as “sFTP Uploaders”.

Once you successfully register with the SPMP they will provide you with the following information: ASAP Version (e.g., 4.2), your assigned Username, the SPMP Server IP Address and in some cases the Port Number. They may also specify a specific Directory at their server where they want the data to be uploaded to. You will need this information when configuring the transmission in VistA.

Pharmacy Benefits Management (PBM) maintains a SharePoint site that might be a good source of information regarding the registration process.

https://domain.ext /cmop/PBM/Public/SPMP/Documents/Forms/AllItems.aspx

### Open Network Traffic between your site and the SPMP (Action Required)

Before you can start transmitting data to your SPMP your local site needs to work with the appropriate VA Regional and National support to request that the SSH traffic between your site and the state server be open for SPMP transmissions. This process consists of submitting a request through the Enterprise Security Change Control Board (ESCCB) through the System Request for Change (RFC) ticket process. This is a complex request and requires a number of steps to get it accomplished. Please, refer to the following document in the PBM repository for instructions on how to submit a request for your site:

Document: SPMP\_Port\_Request\_Process\_Document.docx

Repository:

https://domain.ext /cmop/PBM/Public/SPMP/Documents/Forms/AllItems.aspx

### OpenVMS Directory (May Require Action)

|  |  |
| --- | --- |
| stop_sign-512 | If your site has fully migrated to Linux you can skip this step. |

If your site has not fully migrated to Linux you will need a new OpenVMS directory (e.g. USER$:[SPMP]) to be used by the SPMP transmissions. The proposed naming convention is only a recommendation. A more knowledgeable and experienced System Manager may choose to setup the extract directory using existing drives and definitions. The directory name chosen must have the appropriate READ, WRITE, EXECUTE, and DELETE privileges. You must have administrator privileges when you perform this task in order to assure the directory is set up/created with the necessary permissions.

The following is an example for you to follow to create the file transmission directory.

$ CREATE/DIRECTORY USER$:[SPMP] /own=CACHEMGR /PROTECTION=(S:RWED,O:RWED,G:RWED,W:RWED)/LOG

**NOTE:**

• The owner of the directory should be CACHEMGR.

• Where USER$=the disk of your choice (e.g. USER$, PQ$, etc. - SYS$ is not recommended).

• Confirm that the extract directory has similar protections and permissions.

$DIR/PROT/OWNER SPMP.DIR

Directory USER$:[000000]

SPMP.DIR;1 [CACHEMGR] (RWED,RWED,RWED,RWED)

|  |  |
| --- | --- |
| clapboard-icon-SM-GR | **Action**: Once the directory has been created, please pass this directory name (e.g., “USER$:[SPMP]”) to the ADPAC/Pharmacy Chief/Pharmacy Informaticist. |

### SPMP State Parameter Configuration (Action Required)

Next, you will need to correctly enter the SPMP parameters through the View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] option, which are explained below individually:

|  |  |
| --- | --- |
| key-clipart-1310382299_Clip_Art | The View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] option requires the PSO SPMP ADMIN Security Key for editing the parameters (see step 4.2). |

**STATE**Select the state that you want to enter, view or edit the SPMP parameters. There should be an entry for all states in which there is a physical Outpatient Pharmacy facility that either dispenses outpatient prescriptions or order Consolidated Mail Outpatient Pharmacy (CMOP) prescriptions to be dispensed.

**ASAP VERSION**This is the American Society for Automation in Pharmacy (ASAP) version required for the SPMP data transmission, which was obtained during Step 4.4.1. It should be one of the following versions: 1995, 3.0, 4.0, 4.1 or 4.2.

**INCLUDE NON-VETERAN PATIENTS**This field indicates whether controlled substances prescriptions dispensed to non-veteran patients should be included in the export file transmitted to a state. Due to VHA Regulations in place at the time of the release of this patch this field should be set to “**NO**”.

**REPORTING FREQUENCY IN DAYS**This is the frequency at which a state requires pharmacies to report data. The value must be entered in days. Example: 1 (daily), 7 (weekly), 3 (every 3 days), etc. This field should be set to 1 (one).

**OPEN VMS LOCAL DIRECTORY**If your site has fully migrated to Linux you can leave this field blank. Otherwise, you will need to fill this parameter with the local OpenVMS directory created on step 4.4.3 above.

**UNIX/LINUX LOCAL DIRECTORY**This is the name of the local Unix/Linux local directory where the SPMP export file will be created before it can be transmitted to the state (e.g., /srv/vista/okl/user/sftp/spmp/). When running this option for the first time there will be default directory (e.g., /srv/vista/okl/user/sftp/spmp/) and the option may prompt you for the following after pressing <RET> through it:

The directory above could not be found.

Would you like to create it now? N//

Answer YES.

**FILE NAME PREFIX**This is the prefix that will be appended to the name of the export file transmitted to the state. If the state has no specific requirement, the recommendation is that you use ‘SPMP\_<Site #>\_’ format (e.g.,’SPMP\_500\_’).

**FILE EXTENSION**The SPMP Implementation Guide for each specific state usually specifies which extension you should choose. If you’re unable to determine this information choose .DAT which is the most commonly used.

**RENAME FILE AFTER UPLOAD**This parameter controls whether the data export file should be created and uploaded with a .DAT (or .TXT) directly or if the file should be created and uploaded with a .UP extension and once the upload completes the file would be renamed to .DAT (or .TXT). This new parameter is being exported with a default value of YES. If you are not sure how to answer this parameter, leave it set to “YES”.

**STATE SFTP SERVER IP ADDRESS**This is the state sFTP IP address of the SPMP server to which the export file will be transmitted. This information should have been provided to you when you registered with the SPMP (Step 4.4.1).

**STATE SFTP SERVER USERNAME**This is the state sFTP username of the SPMP server to which the export file will be transmitted. This information should have been provided to you when you registered with the SPMP (Step 4.4.1).

**STATE SFTP SERVER PORT #**This is the Port # used by the state sFTP server to receive data. Usually states use the default sFTP port #22 and in this case it does not need to be entered. This information should have been provided to you when you registered with the SPMP (Step 4.4.1) or it can be found in the SPMP Implemetation Guide.

**STATE FTP SERVER DIRECTORY**This is the name of the remote state directory of the SPMP server to which the export file will be saved. Usually states do not require the file to be placed in a specific directory and in this case this field should be left blank. If required, this information can usually be found in the SPMP Implementation Guide.

**SFTP TRANSMISSION MODE**

This field indicates whether the sFTP transmissions will happen automatically by a scheduled background job using SSH encryption keys or if it will be performed manually by a user. Please, choose “A” for Automatic Transmissions.

**Example:** View/Edit SPMP State Parameters **[**PSO SPMP STATE PARAMETERS]

Select State Prescription Monitoring Program (SPMP) Menu Option: SP View/Edit SPMP State Parameters

Select STATE: NEBRASKA// NEBRASKA

ASAP VERSION: 4.2// 4.2 ASAP 4.2

INCLUDE NON-VETERAN PATIENTS: NO// NO

REPORTING FREQUENCY IN DAYS: 1// 1

OPEN VMS LOCAL DIRECTORY: USER$:[SPMP]

UNIX/LINUX LOCAL DIRECTORY: /srv/vista/neb/user/sftp/spmp/

Replace

The directory above could not be found.

Would you like to create it now? N// YES

FILE NAME PREFIX: SPMP\_

RENAME FILE AFTER UPLOAD: NO// YES

FILE EXTENSION: .DAT// .DAT

STATE SFTP SERVER IP ADDRESS:

STATE SFTP SERVER USERNAME: VAUSERNAME

STATE SFTP SERVER PORT #:

STATE SFTP SERVER DIRECTORY:

SFTP TRANSMISSION MODE: A// AUTOMATIC [RSA KEYS]

### Create a new SSH Key Pair (Action Required)

Once the SPMP State parameters have been entered the next step is to create a pair of SSH encryption keys that will be used for authenticating the sFTP connection to the state automatically bypassing the need for the user to type in an sFTP password. This will enable the transmissions to be scheduled to run overnight through TaskMan. Use the Manage Secure SHell (SSH) Keys [PSO SPMP SSH KEY MANAGEMENT] option and follow the steps below:

|  |  |
| --- | --- |
| key-clipart-1310382299_Clip_Art | The Manage Secure SHell (SSH) Keys [PSO SPMP SSH KEY MANAGEMENT] option requires the PSO SPMP ADMIN Security Key for creating or deleting SSH Key pairs (see step 4.2). |

#### Verify that you don’t have an SSH Key pair in place for the state you are trying to set up transmissions. You can use the Action ‘V’ (View Public SSH Key) for this purpose, as seen in the example below:

Select STATE: NEBRASKA//

Select one of the following:

V View Public SSH Key

N Create New SSH Key Pair

D Delete SSH Key Pair

H Help with SSH Keys

Action: V// v View Public SSH Key

**[No SSH Key Pair found for NEBRASKA]**

Press Return to continue:

The message [No SSH Key Pair found for NEBRASKA] displayed above indicates that there are no SSH keys for the state of Nebraska meaning that it is okay to proceed with the creation of a new SSH Key Pair.

#### If you are not sure how to create and share the Public SSH Key invoke the Action ‘H’ for detailed information to help you successfully create and share the key with the state.

Action: V// Help with SSH Keys

Secure SHell (SSH) Encryption Keys are used to automate the data transmission to the State Prescription Monitoring Programs (SPMPs). Follow the steps below to successfully setup SPMP transmissions from VistA to the state/vendor server:

Step 1: Select the 'N' (Create New SSH Key Pair) Action and follow the

Prompts to create a new pair of SSH keys. If you already have

an existing SSH Key Pair you can skip this step.

You can check whether you already have an existing SSH Key Pair

through the 'V' (View Public SSH Key) Action.

Encryption Type: DSA or RSA?

----------------------------

Digital Signature Algorithm (DSA) and Rivest, Shamir & Adleman

(RSA) are two of the most common encryption algorithms used by

the IT industry for securely sharing data. The majority of SPMP

servers can handle either type; however there are vendors that

accept only one specific type. You will need to contact the

SPMP vendor support to determine which type to select.

Step 2: Share the Public SSH Key content with the state/vendor. In

order to successfully establish SPMP transmissions the

state/vendor will have to install/configure the new SSH Key

created in step 1 for the user id they assigned to your site.

Use the 'V' (View Public SSH Key) Action to retrieve the

content of the Public SSH key. The Public SSH Key should not

contain line-feed characters, therefore after you copy & paste

it from the terminal emulator into an email or text editor make

sure it contains only one line of text (no wrapping).

#### Once you have read the Help text above proceed to creating the SSH Key Pair by selecting the Action ‘N’ (Create New SSH Key Pair)

Action: V// n Create New SSH Key Pair

Enter your Current Signature Code: SIGNATURE VERIFIED

Select one of the following:

DSA Digital Signature Algorithm (DSA)

RSA Rivest, Shamir & Adleman (RSA)

SSH Key Encryption Type: DSA// ?

Digital Signature Algorithm (DSA) and Rivest, Shamir & Adleman

(RSA) are two of the most common encryption algorithms used by

the IT industry for securely sharing data. The majority of SPMP

servers can handle either type; however there are vendors that

accept only one specific type. You will need to contact the

SPMP vendor support to determine which type to select.

Select one of the following:

DSA Digital Signature Algorithm (DSA)

RSA Rivest, Shamir & Adleman (RSA)

SSH Key Encryption Type: DSA// Digital Signature Algorithm (DSA)

Confirm Creation of SSH Keys for NEBRASKA? NO// YES

Creating New SSH Keys, please wait...Done.

#### Once you have created the new SSH Key Pair use the Action ‘V’ (View Public SSH Key) one more time to retrieve the content of the Public SSH Key so that you can share with the state.

Action: V// View Public SSH Key

NEBRASKA's Public SSH Key (DSA) content (does not include dash lines):

-----------------------------------------------------------------------

ssh-dss NzaC1kc3MAAACBAOVOrS3sCHlFheWjM8wT0JHEtCx37c+0IRD0IJLjQIs0WLXvj

2qW/67OxYWymNqNVBWrUf1qoVbOkXtSAlnXp1ZtbMdZbkzeRIvUCG5PYx8RHHqI/BOZ604S

JVJXdXAB2Z1JzOs/9Yhh9XCcwv1gJG5SMYtHvAAAAFQCWQqn1nhbsdePmMq+v543zDx0Scw

sOqMj1HjVNjzjylpjbGBjh5QY+MhXxc0CtMZodvNV4aNukIU3MJ4w8hq9NnBA4U7dIrIgWo

UlFRjK7yCwb3POCe/jxaefLJfqzZ7pUXIuSG1Vpn+adas7cASAUPlgJ/fwWBOUrB2aDhQJy

fXhPLf1a0S0AAACAb+gJQb/Cx9Rl5vNdBbgbZ7myjpMoTTsSRJ9kUhxjJwuxDURA/9E17Oh

kWgPZ3lFFGamsLniUDJIDGJTMod+XsfG04+leMR0PQbhHRnxhOL0VSQDSQuoENlt4WAeJpw

ri74CZMBsJIKpn6vy3y37zil4OA=

-----------------------------------------------------------------------

|  |  |
| --- | --- |
| clapboard-icon-SM-GR | **Action**: You will need to share the text content above (between the dash lines, with all the line breaks removed) with the state/vendor so they can install it on their server for the username assigned to your site. |

### Customize the ASAP Definition with state specific data requirements (May Require Action)

|  |  |
| --- | --- |
| stop_sign-512 | If your state is not listed in the Appendix A at the end of this document you can skip this step. |

Before you execute this step, go to the Appendix A in this document and verify if the state you are setting up transmissions for is listed. If so, take note of the specific customizations your state requires and use the View/Edit ASAP Definitions [PSO SPMP ASAP DEFINITIONS] option to perform the required adjustments so that your state will accept the data from your site.

|  |  |
| --- | --- |
| key-clipart-1310382299_Clip_Art | The View/Edit ASAP Definitions [PSO SPMP ASAP DEFINITIONS] option requires the PSO SPMP ADMIN Security Key for customizing the ASAP Definition Segments and Data Elements (see step 4.2). |

|  |  |
| --- | --- |
| Infobox_info_icon_svg | The specific customization listed in the Appendix A have been identified as of February 2016. Therefore, please check with the SPMP of your state to make sure no additional specific requirements have been made since then. |

**Example 1**: Customizing the AIR Segment (Additional Information Reporting) from NOT USED to REQUIRED through the View/Edit ASAP Definitions [PSO SPMP ASAP DEFINITIONS] option.

**ASAP Standard Version 4.2** Feb 25, 2016@11:35:59 Page: 1 of 1

Element Delimiter: **\*** Segment Terminator: **~** End Of Line Escape: **$C(13,10)**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MAIN HEADER

**TH - Transaction Header**

**IS - Information Source**

PHARMACY HEADER

**PHA - Pharmacy Header**

PATIENT DETAIL

**PAT - Patient Information**

PRESCRIPTION DETAIL

**DSP - Dispensing Record**

**PRE - Prescriber Information**

CDI - Compound Drug Ingredient Detail (Not Used)

AIR - Additional Information Reporting (Not Used)

PHARMACY TRAILER

**TP - Pharmacy Trailer**

MAIN TRAILER

**TT - Transaction Trailer**

+ Enter ?? for more actions|\* Custom Segment/Element

CV Copy ASAP Version CE Customize Element ED Edit Delimiters

CS Customize Segment DC Delete Customization SH Show/Hide Details

Select Item(s): Quit// CS Customize Segment

SEGMENT ID: AIR Additional Information Reporting

REQUIREMENT: N// ?

Indicate if the segment is required, optional or not used by the ASAP

version.

Choose from:

R REQUIRED

O OPTIONAL

N NOT USED

REQUIREMENT: N// **REQUIRED**

Save Custom Segment? YES// YES Saving...OK

**Example 2**: Customizing the PAT17 Data Element (Patient’s Phone Number), which was requested by Massachusetts to be reported as “9999999999” when no phone number can be found for the patient. The current standard/default value for this field will be Pharmacy phone number if no valid phone number can be found for the patient.

+ Enter ?? for more actions|\* Custom Segment/Element

CV Copy ASAP Version CE Customize Element ED Edit Delimiters

CS Customize Segment DC Delete Customization SH Show/Hide Details

Select Item(s): Quit// CE Customize Element

DATA ELEMENT ID: PAT17 Phone Number

MAXIMUM LENGTH: 10// 10

REQUIREMENT: O// OPTIONAL

M SET EXPRESSION: $$PAT17^PSOASAP()// **$S($$PAT17^PSOASAP()=$$PHA10^PSOASAP():"9999999999",1:$$PAT17^PSOASAP())**

Save Custom Data Element? YES// Saving...OK

### Test the Transmission (Action Required)

Once the state/vendor confirms installation of the SSH Key it is recommended that the site test the connection through a test transmission of a single prescription fill to make sure it is working properly. Search for a recently released Controlled Substance prescription and use the View/Export Single Prescription [PSO SPMP SINGLE RX VIEW/EXPORT] option to perform this step as shown below:

PRESCRIPTION: 999999 OXYCODONE HCL 5MG TABLET

Select one of the following:

0 Original (6/25/15) WINDOW

Fill: 0// Original (6/25/15) WINDOW

**View/Export Prescription** Feb 25, 2016@09:08:46 Page: 1 of 6 Rx: 999999 - OXYCODONE HCL 5MG TABLET (Fill: Original)

Patient: TESTPATNAM,OUTPATIENT1 ASAP Version: 4.2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TH Transaction Header**

TH\*4.2\*635-0\*01\*\*20160225\*090846\*T\*\*~~

4.2 TH01 Version / Release Number

635-0 TH02 Transaction Control Number

01 TH03 Transaction Type

\* TH04 Response ID

20160225 TH05 Creation Date

090846 TH06 Creation Time

T TH07 File Type

\* TH08 Routing Number

~ TH09 Data Segment Terminator Character

**IS Information Source**

IS\*VA635\*OKLAHOMA CITY VA MEDICAL CENTER\*~

VA635 IS01 Unique Information Source ID

OKLAHOMA CITY VA MEDICAL CENTER IS02 Information Source Entity Name

\* IS03 Message

+ Enter ?? for more actions|\* Custom Segment/Element

VW View Rx AS View ASAP Definition

MP Medication Profile EXP Export Rx Fill

Select Item(s): Next Screen// EXP Export Rx Fill

Enter the type of record to be sent for this prescription fill:

N NEW

R REVISE

Record Type: NEW//

The Prescription Fill will be transmitted to the State

Confirm? N// y YES

Creating Batch #999 for NEBRASKA...Done.

Exporting Batch #999:

Writing to file /srv/vista/neb/user/sftp/spmp/SPMP\_201602250909.UP...Done.

Transmitting file to the State (999.99.9.99)...

sFTP Server 6.4.0 Build 11.18.2011.31

**File Successfully Transmitted.**

Press Return to continue:

# Back-Out Procedure

Back-out pertains to a return to the last known good operational state of the software and appropriate platform settings.

## Back-Out Strategy

See Section 5.6.

## Back-Out Considerations

None

### Load Testing

None

### User Acceptance Testing

User Acceptance Testing in progress.

## Back-Out Criteria

The project is canceled and the implemented features are no longer wanted by the stakeholders.

## Back-Out Risks

The following New Service Requests (NSRs), Remedy Ticket and Patient Safety will not be addressed:

* **NSR 20150701:** State Prescription Monitoring Program Enhancement

## Authority for Back-Out

The authority would come from the IPT and the project manager .

## Back-Out Procedure

**Restore Pre-Patch Routines (MailMan)**

1. Go to the **Backup of Patch\_XXXXX** message in Mailman.
2. At the Enter message action prompt, enter “X” to “Xtract PackMan”
3. At the Select PackMan Function prompt, enter the number 6 to “Install/Check Message”
4. At the end of this process the pre-patch routines are restored.

Note: See header “Install the Patch Backup” for detail

**Install the Patch Backup**

**BACKUP PATCH** Basket, 144 messages (1-144), 117 new

\*=New/!=Priority.....**Subject**....................................**From**...

  141. **Backup of Patch\_XXXXX** install on Mar 01, 2016   **ADPAC,ONE**

IN Basket Message: 1// 141

Subj: **Backup of XXXXX** install on Mar 01, 2016 [#000000] 03/01/16@11:14

2016 lines

From: **ADPAC,ONE** In 'IN' basket.   Page 1

-----------------------------------------------------------------------

$TXT PACKMAN BACKUP Created on Thursday, 03/1/16 at 11:14:50 by ADPAC,ONE

Enter message action (in IN basket): Ignore// **Xtract PackMan**

Select PackMan function: **6  INSTALL/CHECK MESSAGE**

Warning:  Installing this message will cause a permanent update of globals

and routines.

Do you really want to do this? NO// **YES**

Routines are the only parts that are backed up.  NO other parts

are backed up, not even globals.  You may use the 'Summarize Message'

option of PackMan to see what parts the message contains.

Those parts that are not routines should be backed up separately

if they need to be preserved.

Shall I preserve the routines on disk in a separate back-up message? YES// **NO**

No backup message built.

Line 123  Message #000000  Unloading Routine Routine\_Name1 (PACKMAN\_BACKUP)

Line 345  Message #000000  Unloading Routine Routine\_Name2 (PACKMAN\_BACKUP)

Line 567  Message #000000  Unloading Routine Routine\_Name3 (PACKMAN\_BACKUP)

Line 789  Message #000000  Unloading Routine Routine\_Name4 (PACKMAN\_BACKUP)

**====================================================================**

**New Routine(s)**

The new routines below distributed by the patch PSO\*7\*451 can be deleted/removed by using the following option: **Delete Routines [XTRDEL]**

PSOASAP

PSOSPMA3

PSOSPMB3

PSOSPMKY

PSOSPMU0

PSOSPMU2

PSOSPMU3

This option can be found under the **Routine Tools** menu.

Select OPTION NAME: **XUPROG Programmer Options**

KIDS Kernel Installation & Distribution System ...

NTEG Build an 'NTEG' routine for a package

PG Programmer mode

Calculate and Show Checksum Values

Delete Unreferenced Options

Error Processing ...

Global Block Count

List Global

Map Pointer Relations

Number base changer

**Routine Tools ...**

Test an option not in your menu

Verifier Tools Menu ...

Select Programmer Options <TEST ACCOUNT> Option: **ROUTINE Tools**

%Index of Routines

Check Routines on Other CPUs

Compare local/national checksums report

Compare routines on tape to disk

Compare two routines

**Delete Routines**

First Line Routine Print

Flow Chart Entire Routine

Flow Chart from Entry Point

Group Routine Edit

Input routines

List Routines

Load/refresh checksum values into ROUTINE file

Output routines

Routine Edit

Routines by Patch Number

Variable changer

Version Number Update

Select Routine Tools Option: DELEte Routines

ROUTINE DELETE

All Routines? No => No

Routine: ROUT999

Routine:

1 routine

1 routines to DELETE, OK: NO// **YES**

ROUT999

**Done.**

**Other Components**

New data dictionaries, options, protocols and security keys modifications must be removed using a follow-up backout patch.

**File Name (#) Field Name (#) New/Modified/Deleted**

SPMP ASAP RECORD DEFINITION (#58.4)

VERSION sub-file (#58.4001)

DATA ELEMENT DELIMITER CHAR (#.02) New

SEGMENT TERMINATOR CHAR (#.03) New

END OF LINE ESCAPE CHAR(S) (#.04) New

SEGMENT sub-file (#58.40011)

LEVEL (#.06) New

DATA ELEMENT sub-file (#58.400111)

ELEMENT VALUE (M EXPRESSION) (#.08) New

SPMP STATE PARAMETERS (#58.41)

RENAME FILE AFTER UPLOAD (#17) New

SFTP SSH KEY FORMAT (#18) New

SFTP SSH KEY ENCRYPTION (#19) New

**Option Name New/Modified/Deleted**

PSO SPMP ASAP DEFINITIONS New

PSO SPMP SSH KEY MANAGEMENT New

**Protocols New/Modified/Deleted**

PSO SPMP3 COPY VERSION New

PSO SPMP3 CUSTOMIZE DATA ELEMENT New

PSO SPMP3 CUSTOMIZE SEGMENT New

PSO SPMP3 DELETE CUSTOMIZATION New

PSO SPMP3 EDIT DELIMETERS New

**Security Key New/Modified/Deleted**

PSO SPMP ADMIN New

# Rollback Procedure

## Rollback Considerations

A follow-up rollback patch would be needed to remove new data entries established by the data dictionary.

Note: These new data entries are the result of a fields added to the data dictionary or the modification of an existing field in the data dictionary.

## Rollback Criteria

The back-out of the SPMP patch PSO\*7\*4551 that modified existing fields, and established new fields would be justification for rollback.

## Rollback Risks

None

## Authority for Rollback

The authority for rollback would come from the project IPT and the VA project manager, .

## Rollback Procedure

In the situation where a rollback would be necessary, the development team will be contacted and a rollback patch will be provided to the site to install. The rollback patch will roll back changes that cannot be affected by the installation back out routines outlined in section 5.6.

# Additional Information

If you have any questions concerning the implementation of this application, contact the VA Service Desk at 1-855-673-4357 directly or log a ticket via CA Service Desk Manager (SDM) application using the Incident Area: **NTL.APP.VistA.Outpatient Pharmacy 7\_0**

## Documentation

Updated documentation describing the new functionality introduced by this patch is available.

The preferred method is to use Secure File Transfer Protocol (sFTP) to retrieve the files from ftp://download.domain.ext

This transmits the files from the first available sFTP server. Sites may also elect to retrieve software directly from a specific server as follows:

|  |  |  |
| --- | --- | --- |
| Albany | ftp.ftpserver.domain.ext | <ftp://ftp.ftpserver.domain.ext> |
| Hines | ftp.ftpserve.domain.ext | <ftp://ftp.ftpserve.domain.ext> |
| Salt Lake City | ftp.ftpsrv.domain.ext | <ftp://ftp.ftpsrv.domain.ext> |

The documentation will be in the form of Adobe Acrobat files.

| File Description | File Name | FTP Mode |
| --- | --- | --- |
| Outpatient Pharmacy V. 7.0 Manager's User Manual | PSO\_7\_MAN\_UM\_R0816.PDF | Binary |
| Outpatient Pharmacy V. 7.0 Technical Manual/Security Guide | PSO\_7\_TM\_R0816.PDF | Binary |
| SPMP Installation Guide | PSO\_7\_P451\_IG.PDF | Binary |
| SPMP Release Notes | PSO\_7\_P451\_RN.PDF | Binary |

Documentation can also be retrieved from the VA Software Documentation Library (VDL) on the Internet at the following address:

http://domain.ext

# Disaster Recovery and Continuity of Operations

Each VistA facility as well as regional data center is responsible for its own Disaster Recovery (DR) and Continuity of Operations (COOP). Please refer to the VistA Disaster Recovery and Continuity of Operations Plans at the specific facility. Most of these documents are considered confidential, as they contain information that could disrupt any of these facilities’ DR or COOP and cause catastrophic data loss. Therefore, the following links are to be considered as examples and not definitive plans for every facility:

* http://domain.ext /projects/ecms\_to\_ifcap/Phase%201%20Archive/References/VistA%20DRP%20and%20CP/VANIHCS%20VISTA%20DRP%20November%202011.docx
* http://domain .ext/techstrategy/TAR/SEDR120578/VA%20Enterprise%20Disaster%20Recovery%20Service%20Tiers%20Standard%2008-16-2012%20Final.pdf

# Appendix A

State/Vendor Specific (unique) requirements.

|  |  |
| --- | --- |
| Infobox_info_icon_svg | The specific customization listed here have been identified as of February 2016. Therefore, please check with the SPMP of your state to make sure no additional specific requirements have been made since then. |

**California (ASAP 4.1)**

To Be Determined (TBD).

**Massachusetts (ASAP 4.2)**

**AIR - Additional Information Reporting (Segment)**

The REQUIREMENT field for the AIR segment should be changed from NOT USED to REQUIRED, as shown by Example 1 in Section 4.4.6 above.

**AIR05 - ID of Person Dropping Off or Picking Up Rx**

Customize this data element to always send “VADELIVERY” (No space between “VA” and “DELIVERY”)

M SET EXPRESSION: $$AIR05^PSOASAP()//“VADELIVERY”

**PAT02 – ID Qualifier**

Customize this data element to send “99” (Other) instead of “07” (Social Security Number).

M SET EXPRESSION: $$PAT02^PSOASAP()//”99”

**PAT03 – ID of Patient**

Customize this data element to send the patient’s Integration Control Numberal (ICN) instead of the Social Security Number (SSN).

Value: $$PAT03^PSOASAP()//+$$GETICN^MPIF001(PATIEN)

**PAT17 – Phone number**

Customize this the patient phone number to send “9999999999” in case a valid phone number cannot be found for the patient. See Example 2 under Section 4.4.6 above.

M SET EXPRESSION: $$PAT17^PSOASAP()// $S($$PAT17^PSOASAP()=$$PHA10^PSOASAP():"9999999999",1:$$PAT17^PSOASAP())

**Michigan (ASAP 4.1)**

TBD

**Montana (ASAP 4.1)**

**IS01 Unique Information Source ID**

Customize this data element to send the Registration # that Montana SPMP assigned to the VA Pharmacy during the registration Process:

M SET EXPRESSION: $$IS01^PSOASAP()// $S($$GET1^DIQ(5,STATEIEN,1)=”MT”:"53871184",1:$$IS01^PSOASAP())

**New York (ASAP 4.2)**

DSP17 - Date Sold

The standard ASAP definition was released with this field set to NOT USED, however the New York SPMP requires it.

REQUIREMENT: N// REQUIRED

**Texas (ASAP 4.2)**

TBD

**West Virginia (ASAP 4.2)**

Set parameter RENAME AFTER UPLOAD to “NO”.