Inpatient Medications Pharmacy Interface Automation (PIA)

Installation Guide

Department of Veterans Affairs
September 2016
Version 1.0
## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/25/16</td>
<td>0.5</td>
<td>Updated Back out and Rollback sections.</td>
<td>Rachel Walters</td>
</tr>
<tr>
<td>1/5/16</td>
<td>0.4</td>
<td>Technical edit.</td>
<td>Rachel Walters</td>
</tr>
<tr>
<td>12/31/15</td>
<td>0.3</td>
<td>Added Inbound Configuration.</td>
<td>James Harris</td>
</tr>
<tr>
<td>11/24/15</td>
<td>0.2</td>
<td>Added Disaster Recovery section.</td>
<td>Rachel Walters</td>
</tr>
<tr>
<td>9/15/15</td>
<td>0.1</td>
<td>Initial draft.</td>
<td>Rachel Walters, Tony Nixon, Mohamed Anwer</td>
</tr>
</tbody>
</table>
Table of Contents

1. Introduction ........................................................................................ 4
2. System Requirements ........................................................................ 4
   2.1. Pre-Installation ............................................................................... 4
   2.2. Patch Installation ........................................................................... 5
   2.3. Download and Extract Procedure .................................................. 8
   2.4. Database Creation ......................................................................... 8
   2.5. Installation Scripts ......................................................................... 8
   2.6. Cron Scripts .................................................................................. 9
   2.7. System Configuration ..................................................................... 9
   2.8. Database Tuning .......................................................................... 9
3. Implementation .................................................................................. 10
   4.2. Back-out Considerations ............................................................... 10
      4.2.1. Load Testing .......................................................................... 10
      4.2.2. User Acceptance Testing ....................................................... 10
   4.3. Back-out Criteria ......................................................................... 10
   4.4. Back-out Risks ........................................................................... 10
   4.5. Authority for Back-out ................................................................. 10
5. Rollback Procedure .......................................................................... 16
   5.1. Rollback Considerations ............................................................... 16
   5.2. Rollback Criteria ......................................................................... 16
   5.3. Rollback Risks ........................................................................... 16
   5.4. Authority for Rollback ................................................................. 16
   5.5. Rollback Procedure .................................................................... 16
6. Disaster Recovery and Continuity of Operations ............................ 18
1. Introduction

This document provides installation instructions for Clinical Ancillary Services (CAS) Development Delivery of Pharmacy enhancements (DDPE) Pharmacy Interface Automation (PIA).

2. System Requirements

The following are software elements for Inpatient Medications.

<table>
<thead>
<tr>
<th>Application</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adverse Reaction Tracking</td>
<td>4.0</td>
</tr>
<tr>
<td>Decision Support System</td>
<td>3.0</td>
</tr>
<tr>
<td>Inpatient Medications</td>
<td>5.0</td>
</tr>
<tr>
<td>Kernel</td>
<td>8.0</td>
</tr>
<tr>
<td>Laboratory</td>
<td>5.2</td>
</tr>
<tr>
<td>Mailman</td>
<td>8.0</td>
</tr>
<tr>
<td>National Drug File</td>
<td>4.0</td>
</tr>
<tr>
<td>Nursing</td>
<td>4.0</td>
</tr>
<tr>
<td>Order Entry/Results Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>Outpatient Pharmacy</td>
<td>7.0</td>
</tr>
<tr>
<td>Patient Information Management Systems</td>
<td>5.3</td>
</tr>
<tr>
<td>Pharmacy Data Management</td>
<td>1.0</td>
</tr>
<tr>
<td>RPC Broker (32-bit)</td>
<td>1.1</td>
</tr>
<tr>
<td>Toolkit</td>
<td>7.3</td>
</tr>
<tr>
<td>VA FileMan</td>
<td>22.0</td>
</tr>
</tbody>
</table>

2.1. Pre-Installation

The following two patches are provided for this project and should be installed in the order listed below, as the logical link, PSJ PADE that is used for this project is transported in the PSJ patch.

PSJ*5*317 - Inpatient Medications V. 5.0
PSS*1*193 - Pharmacy Data Management V. 1.0

The associated patches for PSJ*5*317 are the following:

PSJ*5*191
PSJ*5*228
PSJ*5*244
PSJ*5*281
PSJ*5*285
2.2. Patch Installation

The scope of the Pharmacy Interface Automation Project (PIA) will provide a new standard bi-directional HL7 interface to the Pharmacy Automated Dispensing Equipment (PADE) located at the point of care areas such as Inpatient wards, Outpatient Clinics etc. Depending on the PADE setup, outbound HL7 messages will be sent to the respective PADE via the VistA Interface Engine (VIE), when the following event happens:

- In Inpatient Medications, when orders are verified, edited, renewed, discontinued, reinstated, put on hold/removed from hold etc.
- In Computerized Patient Record System (CPRS), when orders are discontinued.
- In the REGISTRATION package when patients are admitted, discharged, transferred, cancel admit, cancel discharge, cancel transfer, bed switch etc.
- In the Scheduling package when patients are checked in.
- In Pharmacy Data Management, when new drugs are entered or modified.
- Options to schedule nightly jobs to run daily to send patient clinic appointments or surgery cases.
- Options to send medication orders for a single patient or by clinics or by wards.

Installation Instructions

PSJ*5*317 - Inpatient Medications V. 5.0.

This patch should be installed with users off the system during off-peak hours. Installation takes less than five minutes.

1. Use the INSTALL/CHECK MESSAGE option on the PackMan menu.

2. From the Kernel Installation & Distribution System menu, select the Installation menu.

3. From this menu, you may select to use the following options:
   (when prompted for INSTALL NAME, enter PSJ*5.0*317)
   a. Backup a Transport Global - this option will create a backup message of any routines exported with the patch. It will NOT backup any other changes such as DDs or templates.
   b. 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.).
   c. Verify Checksums in Transport Global - this option will ensure
the integrity of the routines that are in the transport global.

4. Use the Install Package(s) option and select the package PSJ*5.0*317.

5. When prompted "Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//" respond NO.

6. When prompted "Want KIDS to INHIBIT LOGONs during the install? NO//" respond NO.

7. When prompted "Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//" respond NO.

Routine Information:

The second line of each of these routines now looks like:

`;5.0;INPATIENT MEDICATIONS;**[Patch List]**;16 DEC 97;Build 125

The checksums below are new checksums, and can be checked with CHECK1^XTSUMBLD.

**Routine Name: PSGBRJ**
Before: B19761653  After: B21011842  **12,50,244,317**

**Routine Name: PSGOE7**
Before: B30726260  After: B40214304  **9,26,34,52,55,50,87,111,181,254,267,260,288,281,317**

**Routine Name: PSGOE82**
Before: B21878874  After: B33061347  **2,35,50,67,58,81,127,168,181,276,317**

**Routine Name: PSGOE92**
Before: B30935948  After: B43137679  **2,35,50,58,81,110,215,237,276,316,317**

**Routine Name: PSGOEF1**
Before: B28843982  After: B36069326  **2,7,35,39,45,47,50,63,67,58,95,110,186,181,267,317**

**Routine Name: PSGPEN**
Before: B39805137  After: B57109712  **30,37,50,58,115,127,129,317**

**Routine Name: PSGLR**

**Routine Name: PSJ317P**
Before: n/a          After: B6017554  **317**

**Routine Name: PSJHJLU**
Before: B45959307  After: B50964072  **1,56,72,102,134,181,267,285,317**

**Routine Name: PSJLMRUD**
Before: B14898207  After: B19398098  **16,58,85,110,185,181,267,317**

**Routine Name: PSJLMUDE**
Before: B66391198  After: B84078277  **7,47,50,63,64,58,80,116,110,111,164,175,201,181,254,267,228,317**

Routine Name: PSJO
Routine Name: PSJO2  
Before: B28881243   After: B32312057  **31,58,110,181,267,275,317**

Routine Name: PSJPAD50  
Before: n/a   After: B143814904 **317**

Routine Name: PSJPAD70  
Before: n/a   After: B193106268 **317**

Routine Name: PSJPAD7I  
Before: n/a   After: B91989090 **317**

Routine Name: PSJPAD7U  
Before: n/a   After: B183953635 **317**

Routine Name: PSJPADE  
Before: n/a   After: B87815402 **317**

Routine Name: PSJPADIT  
Before: n/a   After: B213276051 **317**

Routine Name: PSJPADPT  
Before: n/a   After: B74411481 **317**

Routine Name: PSJPADSI  
Before: n/a   After: B207002155 **317**

Routine Name: PSJPDAPP  
Before: n/a   After: B26391444 **317**

Routine Name: PSJPDCCL  
Before: n/a   After: B58778000 **317**

Routine Name: PSJPDCLA  
Before: n/a   After: B123299808 **317**

Routine Name: PSJPDCLU  
Before: n/a   After: B182392496 **317**

Routine Name: PSJPDRIN  
Before: n/a   After: B220627483 **317**

Routine Name: PSJPDRIP  
Before: n/a   After: B92189032 **317**

Routine Name: PSJPDRTP  
Before: n/a   After: B164565338 **317**

Routine Name: PSJPDRTR  
Before: n/a   After: B204379013 **317**

Routine Name: PSJPDRU1  
Before: n/a   After: B195220461 **317**

Routine Name: PSJPDRUT  
Before: n/a   After: B233191952 **317**

PSS*1*193 – Pharmacy Data Management V. 1.0.

This patch should be installed with users off the system during off-peak hours. Installation takes less than two minutes.

1. Use the INSTALL/CHECK MESSAGE option on the PackMan menu.

2. From the Kernel Installation & Distribution System menu, select the Installation menu.

3. From this menu, you may select to use the following options:  
   (when prompted for INSTALL NAME, enter PSS*1.0*193)
a. Backup a Transport Global - this option will create a backup message of any routines exported with the patch. It will NOT backup any other changes such as DDs or templates.

b. 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.).

c. Verify Checksums in Transport Global - this option will ensure the integrity of the routines that are in the transport global.

4. Use the Install Package(s) option and select the package PSS*1.0*193.

5. When prompted "Want KIDS to INHIBIT LOGONs during the install? NO//" respond NO.

6. When prompted "Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//" respond NO.

Routine Information:
====================
The second line of each of these routines now looks like:
;;1.0;PHARMACY DATA MANAGEMENT;**[Patch List]**;9/30/97;Build 17

The checksums below are new checksums, and can be checked with CHECK1^XTSUMBLD.

Routine Name: PSSDEE
Before: B98607664 After: B110481507 **3,5,15,16,20,22,28,32,34,33,38,57,47,68,61,82,90,110,155,156,180,193**

Routine Name: PSSHLDFFS
Before: n/a After: B33701533 **193**

Routine Name: PSSMSTR
Before: B1853023 After: B51317382 **82,193**

2.3. Download and Extract Procedure
N/A

2.4. Database Creation
N/A

2.5. Installation Scripts
N/A
2.6.  Cron Scripts
N/A

2.7.  System Configuration

2.7.1.  Outbound
Outbound to PADE setup will be configured in VistA to send the information to the appropriate PADE. The main purpose of the Outbound setup is to map the send areas to the location of the cabinets in the wards, clinics, and/or operating rooms.

Please refer to the Pharmacy Interface Automation Startup and Troubleshooting Guide for more details.

2.7.2.  Inbound
The PADE Inbound HL7 interface must be configured prior to first use. The Inbound HL7 interface does not require the PADE Outbound HL7 interface. However, the inbound interface does require an entry in the outbound system file PADE SYSTEM SETUP (#58.7) before it can be activated.

Please refer to the Pharmacy Interface Automation Startup and Troubleshooting Guide for more details.

2.8.  Database Tuning
N/A
3. Implementation
The PIA Implementation Plan specifies how the Pharmacy Interface Automation project will be evaluated and subsequently deployed within the Office of Enterprise Development (OED).

The PIA Implementation Plan:
   a. Describes the phased implementation for the implementation
   b. States objectives for the implementation
   c. Addresses risks associated with implementation

Refer to the PIA Implementation Plan for more detailed information.

4. Back-out Procedure
The following section details the back-out procedure for PIA.

4.1. Back-out Strategy
See section 4.6 for more details.

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

4.2.1. Load Testing
To be determined

4.2.2. User Acceptance Testing
User Acceptance Testing is in progress.

4.3. Back-out Criteria
The project is canceled and the implemented features are no longer wanted by the stake holders.

4.4. Back-out Risks
To be determined

4.5. Authority for Back-out
The authority would come from the IPT and the VA project manager.

In the event that the Pharmacy Interface Automation enhancements must be backed out, the modified routines must have been backed-up during patch installation using the following option:

**Backup a Transport Global [XPD BACKUP]**

This option creates a MailMan message of any routines exported with this patch. (If you need to preserve components that are not routines, you must back them up separately.)

Select Kernel Installation & Distribution System Option: Installation

1. Load a Distribution
2. Verify Checksums in Transport Global
3. Print Transport Global
4. Compare Transport Global to Current System
5. **Backup a Transport Global**
6. Install Package(s)
   Restart Install of Package(s)
7. Unload a Distribution

Select Installation <TEST ACCOUNT> Option: 5 **Backup a Transport Global**

select INSTALL NAME: **Backup of Patch_XXXX** 12/5/15@13:29:01

=> **Backup of Patch_XXXX**

This Distribution was loaded on Feb 05, 2013@13:29:01 with header of Patch_XXXX Test Version

It consisted of the following Install(s): Patch_XXXX Test Version

   Subject: **Backup of Patch_XXXX** install on Feb 05, 2013
   Replace
   Loading Routines for XXXXX
   Routine YYYY1
   Routine YYYY2
   Routine YYYY3
   Send mail to: ADPAC,ONE// ADPAC,ONE
   Select basket to send to: IN// BACKUP PATCH (Folder for FORUM)
   And Send to:

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

Go to the **Backup of Patch_XXXX** message in Mailman.
At the Enter message action prompt, enter “X” to “Xtract PackMan”
At the Select PackMan Function prompt enter the number 6 to **Install/Check Message**
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 Oct 01, 2015 ADPAC,ONE

IN Basket Message: 1// 141

Subj: Backup of XXXXX install on Oct 01, 2015 [#000000] 10/01/15@11:14
2016 lines
From: ADPAC,ONE In 'IN' basket. Page 1

$TXT PACKMAN BACKUP Created on Thursday, 10/1/15 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)

New routines implemented by the patches can be deleted/removed by using the following option: Delete Routines [XTRDEL]

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 <TEST ACCOUNT> 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**
Data dictionary and template modifications must be removed using a follow-up patch.

<table>
<thead>
<tr>
<th>File Name (#)</th>
<th>Field Name (#)</th>
<th>New/Modified/Deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADE SYSTEM SETUP (#58.7)</td>
<td>All fields</td>
<td>New</td>
</tr>
<tr>
<td>PADE SEND AREA (#58.71)</td>
<td>All fields</td>
<td>New</td>
</tr>
<tr>
<td>PADE OUTBOUND MESSAGES (#58.72)</td>
<td>All fields</td>
<td>New</td>
</tr>
<tr>
<td>PADE DISPENSING DEVICE (#58.63)</td>
<td>All fields</td>
<td>New</td>
</tr>
</tbody>
</table>
### Kernel Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSJ PADE OE BALANCES</td>
<td>New</td>
</tr>
</tbody>
</table>

### Mail Group

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSJ PADE DISPENSE ALERTS</td>
<td>New</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Dose Medications [PSJU MGR]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE Main Menu [PSJ PADE MAIN MENU]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE Send Area Setup [PSJ PADE SEND AREA SETUP]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE System Setup [PSJ PADE SETUP]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE Inventory Setup [PSJ PADE INVENTORY MENU]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>Inventory System Setup [PSJ PADE INVENTORY SYSTEM]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>Dispensing Device Setup [PSJ PADE DEVICE SETUP]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE Send Surgery Cases [PSJ PADE SEND SURGERY CASES]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE Surgery Task [PSJ PADE SURGERY TASK]</td>
<td>Modified</td>
</tr>
<tr>
<td>PADE Reports [PSJ PADE REPORTS MENU]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE On-Hand Amounts [PSJ PADE INVENTORY REPORT]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE Transaction Report [PSJ PADE TRANSACTION REPORT]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE System Division Setup [PSJ PADE DIVISION SETUP]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PADE Send Patient Orders [PSJ PADE SEND ORDERS]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>PSJ PADE Appointment Task [PSJ PADE APPOINTMENT TASK]</td>
<td>New/Modified</td>
</tr>
<tr>
<td>Send Drug File Entries to External Interface [PSS MASTER FILE ALL]</td>
<td>New/Modified</td>
</tr>
</tbody>
</table>

### Protocols

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSJ ADT-A01 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A01 ROUTER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A01 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A02 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A02 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A03 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A03 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A11 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A11 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A12 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A12 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A13 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ ADT-A13 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ SIU-SDAM ROUTER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ SIU-S12 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ SIU-S12 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ RDEO11 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSJ RDEO11 CLIENT</td>
<td>New</td>
</tr>
<tr>
<td>PSJ PADE OMS-005 EVENT</td>
<td>New</td>
</tr>
<tr>
<td>Component</td>
<td>Status</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>PSJ PADE OMS-005 SUB</td>
<td>New</td>
</tr>
<tr>
<td>PSJ PADE OMS-005 EVENT 2.3</td>
<td>New</td>
</tr>
<tr>
<td>PSJ PADE OMS-005 SUB 2.3</td>
<td>New</td>
</tr>
<tr>
<td>PSJ LM PADE ACTIVITY</td>
<td>New</td>
</tr>
<tr>
<td>PSJ LM PROFILE HIDDEN ACTIONS</td>
<td>Modified</td>
</tr>
<tr>
<td>PSS MFNM01 SERVER</td>
<td>New</td>
</tr>
<tr>
<td>PSS MFNM01 CLIENT</td>
<td>New</td>
</tr>
</tbody>
</table>

**Security Keys**

<table>
<thead>
<tr>
<th>Component</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSJ PADE ADV</td>
<td>New</td>
</tr>
<tr>
<td>PSJ PADE MGR</td>
<td>New</td>
</tr>
<tr>
<td>PSS PADE INIT</td>
<td>New</td>
</tr>
</tbody>
</table>

**Templates**

<table>
<thead>
<tr>
<th>Component</th>
<th>Input</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSJ PADE SYSTEM</td>
<td>58.7</td>
<td>New</td>
</tr>
<tr>
<td>PSJ PADE INVENTORY</td>
<td>58.601</td>
<td>New</td>
</tr>
<tr>
<td>PSJ PADE DISPENSING DEVICE</td>
<td>58.63</td>
<td>New</td>
</tr>
</tbody>
</table>
5. Rollback Procedure
The following sections detail the rollback procedure for PIA.

5.1. Rollback Considerations
A follow-up patch would be needed to remove new data entries established by the data dictionary. Specific rollback details will be incorporated in subsequent versions, but a patch would only be created if necessary.

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

5.2. Rollback Criteria
The back-out of PHARMACY INTERFACE AUTOMATION (PIA) patches that modified existing fields, and established new fields would be justification for rollback.

5.3. Rollback Risks
None

5.4. Authority for Rollback
The authority would come from the IPT and the VA project manager.

5.5. Rollback Procedure
A follow-up patch for each namespace would be needed to delete/modify that namespace’s data dictionary entries that were added/modified and other non-routine components added/modified by this projects patches and would follow the basic logic flow below.

Logic flow using fileman API calls as much as possible for the below actions

1. New data fields would need to be erased that were likely populated by the new functionality, while the new data fields are still valid in the data dictionary.
2. New file cross references would now need to be deleted.
3. New fields need to be deleted out of the data dictionary.
4. Modified data dictionary fields would need to be restored.
5. New SECURITY KEY file (#19.1) entries needs to be deleted.
6. Existing PROTOCOL file (#101) entries would need to be restored while new file entries would be deleted from the site.
7. Existing OPTION file (#19) entries would need to be restored while new file entries would be deleted from the site.
8. Existing PARAMETERS file (#8989.5) entries would need to be restored while new file entries would be erased and then deleted from the Kernel Parameter Definition file at the site.
9. Existing PARAMETER DEFINITION file (#8989.51) entries would need to be restored while new file entries would be erased and then deleted from the PARAMETER DEFINITION file at the site.

10. New INPUT TEMPLATES file (.402) entries need to be deleted.

11. New HL LOGICAL LINK file (#870) entry needs to be deleted.

12. New HL7 APPLICATION PARAMETER file (#771) entries needs to be deleted.
6. Disaster Recovery and Continuity of Operations

Each VistA facility as well as regional data centers are responsible for their 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 in that information that could disrupt any of these facilities DR or COOP could cause catastrophic data loss. Therefore the following link is just an example:

- [http://vaww.oed.portal.va.gov/projects/ecms_to_ifcap/Phase%201%20Archive/References/VistA%20DRP%20and%20CP/VANIHCS%20VISTA%20DRP%20November%202011.docx](http://vaww.oed.portal.va.gov/projects/ecms_to_ifcap/Phase%201%20Archive/References/VistA%20DRP%20and%20CP/VANIHCS%20VISTA%20DRP%20November%202011.docx)