Pharmacy Reengineering (PRE)

Inbound ePrescribing (IEP) 3.1

Pentaho 8.2

Installation Guide

February 2020

Department of Veterans Affairs (VA)

Office of Information and Technology (OIT)

Revision History

Date	Version	Description	Author
02/26/2020	1.2	PSO*7.0*589 Pentaho 8.2 Upgrade: • Updated Installation Procedures • Updated Title page, Revision History, and Footers • Updated consistent formatting throughout	REDACTED
04/2019	1.1	Updated documentation section and routine list: p5 and p7	Technatomy
04/2019	1.0	Maintenance Patch Release PSO*7.0*551	Technatomy

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1 Introduction

This document describes how to deploy and install the Pharmacy Reengineering (PRE) Inbound ePrescribing (IEP) VistA Patch PSO*7.0*589.

The purpose of this guide is to provide a single common document that describes how, when, where, and to whom the IEP patch PSO*7.0*589 will be deployed and installed. Instructions are also included on how the patch is to be backed out and rolled back, if necessary. The guide also identifies resources, communication plans, and rollout schedules. Specific instructions for installation, back-out, and rollback are included in this document.

1.1 Dependencies

Patch PSO*7.0*589 is a maintenance patch to update the third-party Pentaho Data Integration (DI) software from version 6.1 to 8.2. There are no changes to MUMPS code nor the eRx graphical user interface (GUI) application.

1.2 Constraints

No constraints have been identified for patch PSO*7.0*589.

2 Roles and Responsibilities

This section outlines the roles and responsibilities for managing the deployment of the patch PSO*7.0*589.

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

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
1	Field Operations (FO), Enterprise Operations (EO), or Enterprise Program Management Office (EPMO) (depending upon project ownership)	Deployment	Plan and schedule deployment (including orchestration with vendors)	Deployment
2	FO, EO, or EPMO (depending upon project ownership)	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.	Design/Build
3	FO, or EO	Deployment	Test for operational readiness	Design/Build
4	FO or EO	Deployment	Execute deployment	Design/Build
5	FO or EO	Installation	Plan and schedule installation	Deployment
6	Regional Project Manager (PM)/ Field Implementation Services (FIS)/ Office of Policy and Planning (OPP) PM	Installation	Ensure authority to operate and that certificate authority security documentation is in place	Design/Build

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
7	Regional PM/FIS/OPP PM/ National Education & Training	Installations	Coordinate training	Deployment
8	FO, EO, or Product Development (depending upon project ownership)	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)	Deployment
9	FO, EO, or Product Development (depending upon project ownership)	Post Deployment	Hardware, Software and System Support	Maintenance

3 Deployment

Patch PSO*7.0*589 addresses TRM compliance concerns and will be recorded in the Patch Description in FORUM. The patch will be deployed on the centrally located Inbound eRx production servers located in AITC.

3.1 Timeline

The deployment and installation is scheduled to occur in February of 2020.

3.1.1 Deployment Topology

Patch PSO*7.0*589 will be released to AITC with the following installation steps to be followed by AITC Systems Administration personnel.

3.1.2 Site Information

During IOC testing, patch PSO*7.0*589 will be deployed at AITC and the following sites will assist in verifying the release:

- REDACTED

3.1.3 Site Preparation

No VistA sites are involved in this maintenance patch.

3.2 Resources

No additional resources are required for the installation of PSO*7.0*589.

3.2.1 Facility Specifics

There are no facility-specific deployment or installation features of patch PSO*7*589.

3.2.2 Hardware

Patch PSO*7.0*589 will be deployed on existing hardware designated for Inbound eRx in AITC. It does not require additional hardware capabilities other than what is currently used by the application.

3.2.3 Software

Patch PSO*7.0*589 only requires the updated version of the third-party Pentaho DI 8.2 application in a deployment package provided by the development team.

3.2.4 Communications

No notifications are required for deployment of patch PSO*7.0*589 other than the patch description released through FORUM.

4 Installation

4.1 Pre-installation and System Requirements

No additional pre-installation nor system requirements are necessary to install patch PSO*7.0*589. Knowledge of, and experience with, the existing application by AITC systems administrators is necessary.

Pre/Post Installation Overview: The user installing this patch must hold the appropriate administrative permissions to install this patch on the AITC production servers.

Pre-Installation Instructions: This patch will require system downtime and is recommended to be installed before normal business hours, so that deployment and administrative support personnel may monitor and act on any issues that may arise after installation and during normal business our usage.

Follow the below instructions to install PSO*7.0*589. Installation time is expected to be less than 2 hours.

4.2 Platform Installation and Preparation

Patch PSO*7.0*589 does not require any platform installation or preparation.

4.3 Download and Extract Files

Patch PSO*7.0*589 is being released as an informational FORUM patch. Documentation describing normal operations of this system are updated to reference this patch. The preferred method is to retrieve files from:

REDACTED

This transmits the files from the first available server. Sites may also elect to retrieve files directly from a specific server.

Sites may retrieve the software and/or documentation directly using Secure File Transfer Protocol (SFTP) from the REDACTED directory at the following OI Field Offices:

REDACTED

The documentation will be in the form of Adobe Acrobat files. Documentation can also be found on the VA Software Documentation Library (VDL) at:

- http://www.va.gov/vdl/

Table 2: Documents on VDL

Title	File Name	FTP Mode
Inbound ePrescribing Installation Guide	PSO_7_0_IG	Binary
Inbound ePrescribing User Manual	PSO_7_0_UM	Binary
Inbound ePrescribing DIBORG	PSO_7_0_DIBORG	Binary

4.4 Database Creation

No new database is required for the patch PSO*7.0*589.

4.5 Installation Scripts

There are 3 installation scripts necessary to install the Pentaho DI 8.2 upgrade. These scripts are automatically generated scripts for the Inbound eRx application and cover installation of the upgrade in the lower and upper environments.

Pentaho DI 8.2 software is copied to the below location as it is prerequisite for the execution of the above steps:

- \\vaauspecdbs801.aac.dva.va.gov\AITC\IEP-eRx\v.3.1\3.1.0.006

4.6 Cron Scripts

No Cron scripts are required for installation of patch PSO*7.0*589.

4.7 Access Requirements and Skills Needed for the Installation

Knowledge of, and experience with Linux systems administration, WebLogic Administration, and the Inbound eRx application administration are required and provided by the Systems Admin at AITC.

4.8 Pre-installation Instructions

Refer to section 4.1 Pre-installation and System Requirements for pre-installation instructions.

4.9 Installation Procedure

1. Provide AITC Admins with **PS_INB_ERX_Pentaho-3.1.0.006.zip** which contains the scripts described in section 4.5.
2. Move the **PS_INB_ERX_Pentaho-3.1.0.006.zip** to VM1 and VM2 temp directories(/u01/temp) and expand the file.

3. Shutdown all Pentaho Slaves, WebLogic Managed Servers, Node Managers, and Admin server.
4. Backup the Pentaho 6.1 existing folders under (/u01/app/Pentaho) by renaming them with file names that reflect the Pentaho version, e.g., pdi-prod2master1-6.1, pdi-prod2slave1-6.1, etc.
5. Run **erx_iep_3.1.0.006_install.sh** script on PROD2 VM1 and select option 18 from the installation menu.
6. Run **erx_iep_3.1.0.006_deploy.sh** script selecting options (1-7) and repeat option 7 (execute option 7 twice).
7. Run **erx_iep_3.1.0.006_install.sh** script on PROD2 VM2 with option 18.
8. Run **erx_iep_3.1.0.006_configur.sh** script selecting options (1-4).
9. Start WebLogic Node Managers, Managed Servers, and Admin Server.
10. Start Pentaho Slaves.

4.10 Installation Verification Procedure

4.11 Post-Installation Procedure

There are additional steps to be completed prior to implementation and go-live for Inbound eRx. Please refer to Inbound ePrescribing (IEP) VistA PSO*7.0*508 / IEP Web-based GUI Version 3.0 Implementation Guide found in the Documentation Retrieval Instructions or on the Outpatient Pharmacy VA Software Document Library (VDL) when site is ready to complete final setup. The VDL URL is:

- https://www.va.gov/vdl/application.asp?appid=90

4.12 Database Tuning

No database tuning is required before or after deployment of PSO*7.0*589.

Note: After installation of PSO*7.0*589 is completed. The following procedure is to be followed only if PSO*7.0*589 needs to be backed out.

5 Back-Out Procedure

The Back-out Procedure consists of shutting down Pentaho and WebLogic and renaming the master and slave directories containing the 8.2 release with a directory name reflecting the Pentaho version of that directory and restoring the previous Pentaho 6.1 master and slave directory names to their original format.

The rollback/backout procedure for these patches should only occur when there is concurrence from the Enterprise Product Support and Inbound ePrescribing development teams.

The back-out is to be performed by persons with systems administrative-level access.

5.1 Back-Out Strategy

The backout strategy consists of using the directories of the previously installed version which contain the version specific files. Before the installation of this patch, Pentaho 6.1 directories were renamed to be version specific.

To backout of version 8.2, rename the current generic directory names to be version specific then rename the 6.1 directories back to the generic installation directory names.

5.2 Back-Out Considerations

5.2.1 Load Testing

Not applicable for back-out considerations.

5.2.2 User Acceptance Testing

Initial Operating Capabilities (IOC) Testing for patch PSO*7.0*589 completed.

5.3 Back-Out Criteria

Previous installation directories must be renamed prior to installation of this patch.

5.4 Back-Out Risks

None.

5.5 Authority for Back-Out

Local Facility Management has the authority to back-out patch PSO*7.0*589.

5.6 Back-Out Procedure

1. Shutdown all Pentaho Slaves, WebLogic Managed Servers, Node Managers, and Admin server.
2. On VM1 and VM2 rename current Pentaho directory names to reflect Pentaho 8.2, e.g., pdi-prod2master1-8.2, pdi-prod2slave1-8.2, etc.
3. Rename backup directories for Pentaho version 6.1 to their original directory names.
4. Start WebLogic Node Managers, Managed Servers, and Admin Server.
5. Start Pentaho Slaves.
6. Verify functionality of the application.

6 Rollback Procedure

The rollback procedures for this patch are the same as the back-out procedures.

6.1 Rollback Considerations

Refer to the Back-Out Procedure section of this document.

6.2 Rollback Criteria

Refer to the Back-Out Procedure section of this document.

6.3 Rollback Risks

Refer to the Back-Out Procedure section of this document.

6.4 Rollback Procedure

Refer to the Back-Out Procedure section of this document.