Pharmacy Reengineering (PRE)

Inbound ePrescribing (IEP) 5.0.7.009

Deployment, Installation, Back-Out, and Rollback Guide (DIBR)

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Revision History

Date	Version	Description	Author
12/19/2024	1.2	PSO*7*727: • Updated with suggested corrections for the Back-out Verification Procedure and example references to include the updated version number.	REDACTED
11/20/2024	1.1	PSO*7*727: • Updated version number from 5.0.7.007 to 5.0.7.009 within the document due to the change required for the TRM library updates in JIRA task HDSO-9083.	REDACTED
7/8/2024	1.0	PSO*7*727: • Initial Deployment, Installation, Back-out, and Rollback Guide for IEP patch	REDACTED

Artifact Rationale

This document describes the Deployment, Installation, Back-out, and Rollback Guide for new patches going into the VA Enterprise. The guide 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 Guide 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.

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1 Introduction

This document describes how to deploy and install the various components of the patch PSO*7*727 for the Pharmacy Reengineering (PRE) Inbound ePrescribing (eRx) application, 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. In cases where a non-developed Commercial Off-the-Shelf (COTS) product is being installed, the vendor provided User and Installation guide may be used, but the back-out recovery strategy still needs to be included in this document.

1.1 Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom the PRE Inbound eRx application patch, PSO*7*727, 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 deployment, back-out, and rollback are included in this document.

2 Deployment

2.1 Deployment Steps

1. (WL) Shutdown Pentaho master & slaves.
2. (SA) Execute IEP Deployer on VM1 (ex: **erx_iep_5.0.7.009_deploy_20210618_085909.sh**) with options 1, 2, and 5.
    a. Run Option 1. Install System Files
    b. Run Option 2. Install CPanel
    e. Run Option 5. Deposit WebLogic EAR's
3. (SA0 Execute IEP Configurator on VM2 (ex: **erx_iep_5.0.7.009_configur_20210618_085909.sh**) options 1 and 2
    a. Run Option 1. Install System Files
    b. Run Option 2. Install CPanel
4. (WL) Delete INB_ERX ears from WebLogic
5. (WL) Deploy INB_ERX-5.0.7.009.ear and INB_ERX_UI-5.0.7.009.ear
6. (WL) Start Pentaho Slaves/Jobs

7. (IEP Sustainment) Smoke Test Weblogic.
8. (IEP Sustainment) Smoke Test Pentaho component.
9. (IEP Sustainment) Validate deployment successful. If any issues occur with the eRx GUI or WebLogic Service, perform a rolling restart of the WebLogic Managed Servers:
    a. (WL) Restart first WebLogic managed server only. Wait until first managed server returns to **Running** state before proceeding.
    b. (WL) Repeat step **a** above for the next managed server. Continue one at a time until all managed servers are restarted and in the **Running** state. Ensure at least one managed server is in the **Running** state.

3 Installation

Installation is not applicable for PSO*7*727, because this is a patch-specific deployment.

4 Back-Out Procedure

Backout plan will be executed if deployment fails functional testing and cannot be remediated immediately.

4.1 Backout Process:

4.1.1 Prerequisites:

Previous INB_ERX-5.0.6.004.ear and INB_ERX_UI-5.0.6.004.ear still exist in installation directory.

4.1.2 Backout Steps:

1. (WL) Shutdown Pentaho master & slaves (jobs) .
2. (SA) Execute IEP Deployer on VM1 **(**ex: **erx_iep_5.0.7.009_deploy_20210618_085909.sh**) with options 1,2 and 5.
    a. Run Option 1. (Install System Files)
    b. Run Option 2. (Install CPanel)
    e. Run Option 5. (Deposit WebLogic EAR's)
3. (SA) Execute IEP Configurator on VM2 (ex: **erx_iep_5.0.7.009_configur_20210618_085909.sh**) options 1,2
    a. Run Option 1. Install System Files

b. Run Option 2. Install CPanel.

4. (WL) **Delete** INB_ERX-5.0.7.009.ear and INB_ERX_UI-5.0.7.009.ear *(refer to section **4.1.2.1** for detailed steps for removing new ear files)*.
5. (WL) **Deploy** INB_ERX-5.0.6.004.ear and INB_ERX_UI-5.0.6.004.ear *(refer section **4.1.2.2** for detailed steps for deploying old ear files)*.
6. (WL) Start Pentaho Slaves/Jobs.
7. (IEP Sustainment) Smoke Test WL.
8. (IEP Sustainment) Smoke Test Pentaho.
9. (IEP Sustainment) Validate backout is successful. If any issues occur with the eRx GUI or WebLogic services, perform a rolling restart of the WebLogic managed servers.
    a. (WL) Restart first WebLogic managed server only. Wait until first managed server returns to **Running** state before proceeding.
    b. (WL) Repeat step **a** above for the next managed server. Continue one at a time until all managed servers are restarted and in **Running** state. Ensure at least one managed server is in the **Running** state at all times during this process.

4.1.2.1 Remove New Release:

1. Open and log into the WebLogic console. Use WebLogic username and password.
2. Within the *Domain Structure* panel in the left column of the WebLogic console, select the **Deployments** node.
3. Within the *Change Center* panel in the left column of the WebLogic console, select **Lock & Edit**.
4. WebLogic will now display the panel *Summary of Deployments* in the right column of the console, where all deployments for the WebLogic domain are listed.
5. Select the previously deployed Inbound eRx deployment, select **Stop**, and then select **Force Stop Now** from the drop-down list.
6. WebLogic will now display the panel *Force Stop Application Assistant* in the right column of the console for confirmation to start servicing requests.
7. Select **Yes** in the *Force Stop Application Assistant* panel in the right column of the WebLogic console.

8. WebLogic now returns to the *Summary of Deployments* panel in the right column of the console.
9. Verify that the State of the Inbound eRx deployment is **Prepared**.
10. Select the previously deployed Inbound eRx deployment, and then select **Delete**.
11. WebLogic will now display the panel *Delete Application Assistant* in the right column of the console for confirmation to start servicing requests.
12. Select **Yes** in the *Delete Application Assistant* panel in the right column of the WebLogic console.
13. WebLogic now returns to the *Summary of Deployments* panel in the right column of the console.
14. Verify that the Inbound eRx deployment is deleted and no longer present.

4.1.2.2 Deploy Rolled-Back Release:

The following steps detail the deployment of the rolled-back Inbound eRx application.

1. Use the WebLogic console that was started at the beginning of the roll-back process.
2. Within the *Domain Structure* panel in the left column of the WebLogic console, select the **Deployments** node.
3. Verify that the application is in **Lock & Edit** mode. **Lock & Edit** mode is indicated by the greyed-out **Lock & Edit** selection button.
4. Select the **Install** button in the *Deployments* panel in the right column of the WebLogic console.
5. WebLogic will now display the panel *Install Application Assistant* in the right column of the console, where the location of the Inbound eRx deployment will be found.
    a. If the rolled-back Inbound eRx deployment has already been transferred to the Deployment Machine, navigate to the deployment file location using the links and file structure displayed within the *Location* panel, which is within the *Install Application Assistant* panel in the right column of the console. Choose the ear file associated with the rolled-back release.
    b. If the rolled-back Inbound eRx deployment has not been transferred to the Deployment Machine:
        i. Select on the **upload your file(s)** link in the *Install Application Assistant* panel in the right section of the console.

ii. Select the **Deployment Archive Browse** to see the **Choose file** dialogue used to select the Deployment Archive.

iii. Select Next in the Upload a Deployment to the admin server panel in the right column of the WebLogic console to return to the *Locate deployment to install and prepare for deployment* panel within the *Install Application Assistant*.

6. Once the rolled-back Inbound eRx deployment is located and selected, select **Next.**
7. WebLogic will now display the panel *Choose targeting style* within the *Install Application Assistant* in the right column of the console. Leave the default value selected, install this deployment as an application, and select **Next**.
8. Within the *Install Application Assistant* in the right column of the console, WebLogic will now display the panel *Select deployment targets*, where the Deployment Server will be selected as the target in the next step.
9. For the **Target**, select the **Deployment Server**.
10. Select **Next**.
11. Within the *Install Application Assistant*, WebLogic will now display the panel *Optional Settings* in the right column of the console, where the name of the deployment and the copy behavior are chosen.
12. Enter the **Name** for the deployment. Use: **INB_ERX-5.0.6.004**
13. Verify that the following default option for Security is selected:
14. DD Only: Use only roles and policies that are defined in the deployment descriptors.
15. Verify that the following default option for Source accessibility is selected:
16. Use the defaults defined by the deployment's targets.
17. Select **Next**.
18. Within the *Install Application Assistant***,** in the right column of the console WebLogic, the panel *Review your choices and click Finish* will now be displayed, which summarizes the steps completed above.
19. Verify that the values match those entered in Steps 6 through 17 and select **Finish**.
20. WebLogic will now display the panel *Settings for Inbound eRx*, in the right column of the console, where the values previously entered are available as well as a setting to change the deployment order.

21. Leave all the values as defaulted by WebLogic and select **Save**.
22. Within the *Change Center* panel in the left column of the WebLogic console, select **Activate Changes**.
23. Within the *Domain Structure* panel in the left column of the WebLogic console, select the **Deployments** node.
24. WebLogic will now display the panel *Summary of Deployments* in the right column of the console, where all deployments for the WebLogic domain are listed.
25. Select the previously deployed **INB_ERX-5.0.6.004** deployment, select **Start**, and then select **Servicing all requests** from the drop-down list.
26. WebLogic will now display the panel *Start Application Assistant* in the right column of the console for confirmation to start servicing requests.
27. Select **Yes** in the *Start Application Assistant* panel in the right column of the WebLogic console.
28. WebLogic now returns to the *Summary of Deployments* panel in the right column of the console.
29. Verify that the State of the **INB_ERX-5.0.6.004** deployment is **Active**.

4.2 Back-out Verification Procedure

A smoke test will be performed to determine that version 5.0.6.004 of the application is working properly.

5 Rollback

This section is not applicable because there is no data update for this patch (PSO*7*727).