VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes

MAG*3.0*249

Deployment, Installation, Back-Out, and Rollback Guide

Department of Veterans Affairs

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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.

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1 Introduction

This document describes how to deploy and install the VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249, 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 VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 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 can be found in *MAG3_0P249_VIX_Installation_Guide.pdf*.

1.2 Dependencies

This patch must be installed after MAG*3.0*230.

1.3 Constraints

VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 and the associated KIDS build are expected to be installed on existing VistA platforms. The hardware may reside at local or regional data centers. VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 utilizes existing nationally released security controls to control access.

2 Roles and Responsibilities

No one single entity oversees decision making for deployment, installation, back out and rollback of VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249. Rather, the Release Agent, Application Coordinators under the VIP will meet and approve deployment and install from an OI&T perspective. If an issue with the software arises, then the facility Chief Information Officer (CIO) and other site leadership will meet along with input from Patient Safety, Health Product Support (HPS), and regional leadership to initiate a back out and rollback decision of the software. Table 1 provides VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 information.

Table 1: Files to be Downloaded

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
1	Site personnel in conjunction with information technology (IT) support – which may be local or regional.	Deployment	Plan and schedule deployment (including orchestration with vendors)	NA
2	Site personnel in conjunction with IT support – which may be local or regional.	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.	NA
3	Site personnel.	Deployment	Test for operational readiness	NA
4	Site personnel in conjunction with IT support – which may be local or regional. The IT support will need to include person(s) to install the Kernel Installation and Distribution System (KIDS) build as well as the personnel to deploy the graphical user interface (GUI).	Deployment	Execute deployment	NA
5	Site personnel in conjunction with IT support – which may be local or regional. The IT support will need to include person(s) to install the KIDS build as well as the personnel to deploy the GUI.	Installation	Plan and schedule installation	NA
6	N/A – will work under the VistA authority to operate (ATO) and security protocols.	Installation	Ensure authority to operate and that certificate authority security documentation is in place	NA
7	N/A – no equipment is being added.	Installation	Validate through facility POC to ensure that IT equipment has been accepted using asset inventory processes	NA

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
8	Site personnel in conjunction with IT support – which may be local or regional.	Installations	N/A VIX MUSE-JLV interface fixes functionality is not being used by an external system at this time.	NA
9	Facility CIO and IT support – which may be local or regional.	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)	NA
10	Hardware and System support – no changes. Software support will be the HPS Clinical Sustainment team.	Post Deployment	Hardware, Software and System Support	NA

3 Deployment

The deployment is planned as a standard VistA National Patch Module patch rollout. Once approval has been given to nationally release MAG*3.0*249, the patch will be released from the National Patch Module. At this point, it will be available for installation and deployment at all sites from OI Field Offices using a web browser to download from the following URL: https://download.vista.med.va.gov.

Scheduling of test/mirror installs, testing and deployment to production will be at the site's discretion. It is anticipated there will be a 30-day compliance period.

3.1 Timeline

There is no timeline specifically for deployment. This is considered a maintenance release and installation will be at the site's discretion, within the constraints of the compliance period for the release.

3.2 Site Readiness Assessment

This section discusses the locations that will receive the VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 deployment.

3.2.1 Deployment Topology (Targeted Architecture)

VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 will be deployed to each VistA instance. That will include local sites as well as regional data processing centers. The executables will also be deployed to local sites on the VIX servers.

3.2.2 Site Information (Locations, Deployment Recipients)

The first deployment will be to initial operating capability (IOC) sites for verification of functionality.

Once that testing is completed and approval is given for national release, VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 will be deployed to all VistA systems.

- Mountain Home VAMC, TN
- Alexandria VAMC, LA
- Jesse Brown VAMC, IL
- Grand Junction VAMC, CO

3.2.3 Site Preparation

Please refer to *MAG3_0P249_VIX_Installation_Guide.pdf* sections "Preparing for a New VIX Installation" or 'Preparing for a VIX Update' for site preparation.

3.3 Resources

N/A

3.3.1 Facility Specifics

N/A

3.3.2 Hardware

N/A

3.3.3 Software

N/A

3.3.4 Communications

VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 will be deployed using the standard method of patch release from the National Patch Module. When patch MAG*3.0*249 is released, the National Patch Module will send a notification to all the personnel who have subscribed to those notifications.

3.3.5 Deployment/Installation/Back-Out Checklist

The deployment and installation will be performed by site support personnel once it is nationally released.

4 Installation

4.1 Pre-installation and System Requirements

All previously released VistA Imaging patches must be installed on the VistA system before installing MAG*3.0*249.

4.2 Platform Installation and Preparation

MAG*3.0*249 must be installed on the VistA System and on site VIX servers. This patch must be installed on both VistA and site VIX servers by the compliance date.

Please refer to *MAG3_0P249_VIX_Installation_Guide.pdf* for additional preparation and

installation steps.

4.3 Download and Extract Files

Sites may retrieve the software and/or documentation directly using a web browser to download from the following URL: https://download.vista.med.va.gov (Table 2). Sites may alternatively retrieve the software and/or documentation at location: /srv/vista/patches/SOFTWARE.

Documentation can be found on the VA Software Documentation Library at: https://www.va.gov/vdl/application.asp?appid=105

Table 2: Files to be Downloaded

	Description
MAG3_0P249.KID	Kernel Installation and Distribution System (KIDS) build for MAG*3.0*249
MAG3_0P249_VIX_Setup.msi	MAG*3.0*249 VIX Setup
MAG3_0P249_VIX_Scripts.zip	MAG*3.0*249 VIX Script Files
MAG3_0P249_Patch_Description.pdf	Patch Description
MAG3_0P249_VIX_Installation_Guide.pdf	VIX Installation Guide
MAG3_0P249_DIBORG.pdf	Deployment, Installation, Back-Out, and Rollback Guide for Patch 249

4.4 Database Creation

N/A

4.5 Installation Scripts

N/A

4.6 Cron Scripts

N/A

4.7 Access Requirements and Skills Needed for the Installation

Installation of VistA Imaging MAG*3.0*249 requires the following to install:

•   Programmer access to VistA instance and ability to install KIDS build.
•   VIX installs – Administrator access to the VIX servers.

4.8 Installation Procedure

4.8.1 MAG*3.0*249 VistA Install

KIDS installation will take 2 – 5 minutes.

1. On the VistA system, access the Kernel Installation and Distribution System Menu [XPD MAIN].
2. Run the Installation option [XPD INSTALLATION MENU].
3. Load the KIDS file by performing the following steps:
   a. Run the Load a Distribution option [XPD LOAD DISTRIBUTION] to load the KIDS distribution.
   b. When prompted, enter the full path and file name **MAG3_0P230.KID** of the MAG*3.0*249 KIDS file.
   c. When prompted to continue with the load, enter **YES**. A **Distribution OK!** message will be displayed when the load is complete.
4. After loading the KIDS file, use the following options to verify the contents of the patch and to back up any affected routines.
   a. Verify Checksums in Transport Global [XPD PRINT CHECKSUM] – Run this option to ensure the integrity of the routines in the patch.
   b. Compare Transport Global to Current System [XPD COMPARE TO SYSTEM] – Run this option to view all changes that will be made when the patch is installed. All components (routines, options, and so on) in the patch will be compared.
   c. Backup a Transport Global [XPD BACKUP] – Run this option to create a backup message for any routines exported with the patch. It will NOT back up any of the other changes.
5. After performing the load and any optional verification steps, install the KIDS file by performing the following steps:
   a. Run the Install Package(s) [XPD INSTALL BUILD] option.
   b. When prompted for the install name, enter **MAG*3.0*249.**
   c. Answer **NO** to the following prompts, if they appear:
      • Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//
      • Want KIDS to INHIBIT LOGONs during the install? NO//
      • Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//
6. When installation is finished, an Install Complete message will be displayed.

4.8.2 MAG*3.0*249 Client Install

For installing or updating the VIX refer to *MAG3_0P249_VIX_Installation_Guide.pdf*.

4.9 Installation Verification Procedure

1. [VISTA] Verify the checksum of the added/updated routine in Table 3 below.

Table 3 VistA KIDS Build Modified Routines:

Routine	Checksum Before	Checksum After	Patch List
MAGIP249	N/A	4150612	***249***

2. [Client] Please refer to *MAG3_0P249_VIX_Installation_Guide.pdf* for post installation and verification process.

4.10   System Configuration

N/A

4.11   Database Tuning

N/A

5 Back-Out Procedure

5.1 Back-Out Strategy

The only reason to consider a back-out for Vista Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 is in the event of a catastrophic failure. VIX Client changes are independent of the VistA changes and of each other. In the case of a catastrophic failure of the VIX Client, the VistA Patch can remain in the system.

Contact the HPS Clinical team to notify them there has been a catastrophic failure with VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes.

5.2 Back-Out Considerations

5.2.1 Load Testing

N/A

5.2.2 User Acceptance Testing

User acceptance testing was conducted by the test sites listed in section 3.2. The sites followed the provided test plan/concurrence form and executed the test cases according to the plan for the first build of MAG*3.0*249. The sites either passed or failed any item based on testing. The tests were performed by IT analysts at each site who are familiar with using the application. Any items that failed were then re-developed, sent back to the sites, and tested for the next build following the same process.

5.3 Back-Out Criteria

Back-out would only be considered if there was a catastrophic failure that causes loss of function for the application and a significant patient impact issue.

5.4 Back-Out Risks

Backing out VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249 would result in the re- instatement of the issues addressed and enhancements added in VistA Imaging Exchange (VIX) MUSE-JLV Interface Fixes MAG*3.0*249. In addition, there is a risk that the process, which would be performed only in an emergent situation, would significantly impact patient care due to the interruption.

5.5 Authority for Back-Out

The facility CIO has the final authority to require the rollback and accept the associated risks.

5.6 Back-Out Procedure

5.6.1 MAG*3.0*249 KIDS Install

Administrators will need to use the PackMan function INSTALL/CHECK MESSAGE. Check MailMan messages for the backup message sent by the **Backup a Transport Global** function executed prior to the patch install. (See section 4.8.1, Step 4c; this must be done before the patch is installed).

1. In VistA MailMan, select the message (Figure 1) shown below:

    - Backup of MAG*3.0*249 install on <mm dd, yyyy> <user name>

2. Select the Xtract PackMan option.

3. Select the Install/Check Message option.

4. Enter **Yes** at the prompt.

5. Enter **No** at the backup prompt. There is no need to back up the backup

Figure 1:Install/Check Message

```
Enter message action (in IN basket): Ignore// Xtract PackMan
Select PackMan function: ?
Answer with PackMan function NUMBER, or NAME
Choose from:
1    ROUTINE LOAD
2    GLOBAL LOAD
3    PACKAGE LOAD
4    SUMMARIZE MESSAGE
5    PRINT MESSAGE
6    INSTALL/CHECK MESSAGE
7    INSTALL SELECTED ROUTINE(S)
8    TEXT PRINT/DISPLAY
9    COMPARE MESSAGE

Select PackMan function: 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<Enter>

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 2 Message #42925  Unloading Routine MAGT7MA (PACKMAN_BACKUP)

Select PackMan function:<Enter>
```

5.6.2 MAG*3.0*249 Client Uninstall

For uninstalling the VIX and instructions on reinstalling the previous patch, please see *MAG3_0P249_VIX_Installation_Guide.pdf* for more details.

5.7 Back-out Verification Procedure

Refer to *MAG3_0P249_VIX_Installation_Guide.pdf* for verification of successful VIX client backout.

6 Rollback Procedure

6.1 Rollback Considerations

N/A

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