VistA Imaging Exchange (VIX) VIX Enhancements

MAG*3.0*348

Deployment, Installation, Back-Out, and Rollback Guide

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Revision History

Date	Revision	Description	Author
01/02/2024	8.3	Updates for MAG*3.0*348 release date.	VA IT VistA Imaging Technical team
12/01/2023	8.2	Updates for MAG*3.0*348 release date.	VA IT VistA Imaging Technical team
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10/01/2023	8.0	Initial Draft for MAG*3.0*348	VA IT VistA Imaging Technical team
05/04/2023	7.2	Updates based on peer review.	VA IT VistA Imaging Technical team
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02/01/2023	7.0	Initial Draft for MAG*3.0*329	VA IT VistA Imaging Technical team
11/17/2022	6.1	Updates for MAG*3.0*303 based on review.	VA IT VistA Imaging Technical team
08/17/2022	6.0	Initial Draft for MAG*3.0*303.	VA IT VistA Imaging Technical team
06/08/2022	5.4	Updates for MAG*3.0*269 installation section.	VA IT VistA Imaging Technical team
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02/18/2022	5.2	Updates for MAG*3.0*269 name.	VA IT VistA Imaging Technical team
11/22/2021	5.1	Added MAG*3.0*185 as a patch dependency.	VA IT VistA Imaging Technical team
10/06/2021	5.0	Initial Draft for MAG*3.0*269.	VA IT VistA Imaging Technical team
08/31/2021	4.0	Updates for Patch MAG*3.0*284 (1.0).	REDACTED
04/06/2021	3.0	Updates for Patch MAG*3.0*254.	VA IT VistA Imaging Technical team
05/20/2020	2.0	Technical Review.	VA IT VistA Imaging Technical team
03/10/2020	1.0	Initial Version.	VA IT VistA Imaging Technical team

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) MAG*3.0*348, and 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. However, the Back-Out Recovery strategy still needs to be included in this document. This patch adds VIX Viewer improvements, installation enchantments, and also includes enhanced encryption support.

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) MAG*3.0*348 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. Additional instructions for installation, back-out, and rollback can be found in the *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF*.

1.2   Dependencies

This patch must be installed after VistA patches MAG*3.0*119, MAG*3.0*221, MAG*3.0*301, and MAG*3.0*303 and after VIX MAG*3.0*329.

1.3   Constraints

MAG*3.0*348 and the associated Kernel Installation and Distribution System (KIDS) build are expected to be installed on existing VistA platforms. The hardware may reside at local or regional data centers. MAG*3.0*348 utilizes existing nationally released security controls to control access.

2 Roles and Responsibilities

Multiple entities oversee decision-making for deployment, installation, back-out, and rollback of MAG*3.0*348. The Account Coordinators can approve deployment and installation from an OI&T perspective. If an issue with the software arises, the facility Chief Information Officer (CIO) and other site leadership will meet along with input from the Clinical Services Diagnostics Sub-Product Line team, and regional leadership to initiate a back-out and rollback decision for the software. Table 1 provides MAG*3.0*348 information.

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

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.)	N/A
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.	N/A
3	Site personnel.	Deployment	Test for operational readiness.	N/A
4	Site personnel in conjunction with IT support – which may be local or regional. The IT support must include a person(s) to install the patch and the personnel to deploy the graphical user interface (GUI).	Deployment	Execute deployment.	N/A
5	Site personnel in conjunction with IT support – which may be local or regional. The IT support must include a person(s) to install the patch and the personnel to deploy the GUI.	Installation	Plan and schedule installation.	N/A
6	N/A – will work under the VistA authority to operate (ATO) and security protocols.	Installation	Ensure ATO and certificate authority security documentation is in place.	N/A

ID	Team	Phase/Role	Tasks	Project Phase (See Schedule
7	N/A – no equipment is being added.	Installation	Validate through facility point of contact (POC) to ensure that IT equipment has been accepted using asset inventory processes.	N/A
8	Site personnel in conjunction with IT support – which may be local or regional.	Installation	N/A An external system is not using VIX MAG*3.0*329 functionality at this time.	N/A
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 the criteria are that trigger a back-out.)	N/A
10	Hardware and System support – no changes. Software support will be the Clinical Services Diagnostics Sub-Product Line team and VistA Imaging Development team.	Post-Deployment	Hardware, Software, and System Support.	N/A

3   Deployment

Once approval has been given to nationally release MAG*3.0*348, the patch will be released from the National Patch Module. At this point, the patch will be available for installation and deployment at all sites from OI Field Offices using a web browser to download from the following URL: <mark>REDACTED</mark>. This release is provided in a PackMan message.

This section provides the schedule and milestones for the deployment. Scheduling of test/mirror installs, testing, and deployment to production will be at the site's discretion. It is anticipated that 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 MAG*3.0*348 deployment.

3.2.1   Deployment Topology (Targeted Architecture)

MAG*3.0*348 will be deployed to each VistA instance, which 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, MAG*3.0*348 will be deployed to:

- <mark>REDACTED</mark>
- <mark>REDACTED</mark>
- <mark>REDACTED</mark>

3.2.3   Site Preparation

Please refer to *MAG3_0P348_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

MAG*3.0*348 will be deployed using the standard method of patch release from the National Patch Module. When patch MAG*3.0*348 is released, the National Patch Module will send a notification to all the personnel who have subscribed to those notifications.

3.3.4.1 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*348.

4.2 Platform Installation and Preparation

MAG*3.0*348 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. All released VistA Imaging patches must be installed on the VistA system before installing MAG*3.0*348.

This patch may be installed during non-peak hours to minimize potential disruption to users. Refer to *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF* for additional installation preparation steps.

4.3 Download and Extract Files

The software for this patch is being released in a PackMan message.

Sites may retrieve the software and documentation directly using a web browser to download from the following URL: REDACTED (Table 2). Sites may alternatively retrieve the software and documentation at location: REDACTED.

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

File Name	Description
MAG3_0P348_VIX_SETUP.MSI	MAG*3.0*348 VIX Setup
MAG3_0P348_PATCH_DESCRIPTION.PDF	MAG*3.0*348 Patch Description
MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF	MAG*3.0*348 VIX Installation Guide
MAG3_0P348_DIBORG.PDF	MAG*3.0*348 Deployment, Installation, Back-Out, and Rollback Guide
MAG3_0P348_VIX_ADMIN_GUIDE.PDF	MAG*3.0*348 VIX Administration Guide

NOTE: Only the VIX patch and VIX client for MAG*3.0*348 should be installed at medical centers. As a result, the Central VistA Imaging Exchange (CVIX) Installation Guide (MAG3_0P348_CVIX_INSTALLATION_GUIDE.PDF) and CVIX installation file (MAG3_0P348_CVIX_SETUP.MSI) are not provided to sites on the network file shares.

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*348 requires the following to install:

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

4.8   Installation Procedure

For installing or updating the VIX, refer to *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF*.

4.8.1   MAG*3.0*348 VistA Install

Patch installation will take 2-5 minutes.

1. Choose the PackMan message containing this build. Then select the INSTALL/CHECK MESSAGE PackMan option to load the build.

2. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu,

   a. Select the Verify Checksums in Transport Global option to confirm the integrity of the routines that are in the transport global. When prompted for the INSTALL NAME enter the patch name MAG*3.0*348.

   NOTE: Using <spacebar><enter> does not bring up a Multi-Package build even if it was loaded immediately before this step. It will only bring up the last patch in the build.

   b. Select the Backup a Transport Global option to create a backup message of any routines exported with this patch. It does not backup any other changes such as DDs or templates.

   c. You may also elect to use the following options:

      1. Print Transport Global – This option allows you to view the components of the KIDS build.

      2. Compare Transport Global to Current System - This option allows you to view all changes made when this patch is installed. It compares all of the components of this patch, such as routines, DDs, templates, etc.

   d. Select the Install Package(s) option and choose the patch to install.

      i. If prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', answer <NO>

      ii. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', answer <NO>.

      iii. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', answer <NO>

When the installation is finished, an Install Complete message will be displayed.

For installing or updating the VIX, refer to *MAG3_0P348_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: Patch Modified Routines

Routine	Checksum Before	Checksum After	Patch List
MAGDQR20	B83237743	B87736084	**119,301,348**
MAGDQR21	B188496027	B194419260	**83,104,123,119,221,348**

2.   [Client] Please refer to *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF* for the 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 MAG*3.0*348 is in the event of a catastrophic failure. Some VIX Clients are dependent on VistA changes and each other. In the case of a backout of the VIX Client, the VistA Patch might also need to rollback.

Submit a Service Now ticket (REDACTED) to request back-out assistance. Contact the Health, Clinical Services Diagnostics Team (previously known as Clin 3, the group name is SPM.Health.ClinSvs.Diag) team to notify them there has been a catastrophic failure with MAG*3.0*348.

5.2 Back-Out Considerations

5.2.1 Load Testing

N/A

5.2.2 User Acceptance Testing

User acceptance testing (UAT) 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*348. The sites either passed or failed all items 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. No subsequent builds were created as the test cases passed and sites signed off on concurrence for release.

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 MAG*3.0*348 would result in the reinstatement of the issues addressed and enhancements added in MAG*3.0*348. In addition, there is a risk that the process, which would be performed only in an emergency, 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*348 Patch Install

Administrators must use the PackMan function INSTALL/CHECK MESSAGE. Check MailMan messages for the backup message sent by the **Backup a Transport Global** function executed before the patch install. (See section 4.8.1, Step 2b; 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*348 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*348 Client Uninstall

For uninstalling the VIX and instructions on reinstalling the previous patch, please see *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF*.

5.7   Back-out Verification Procedure

Refer to *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF* for verification of the successful VIX client backout procedure.

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

If it is necessary to uninstall the MAG*3.0*348 VIX, go to the Control Panel, choose Add/Remove Programs, and remove the MAG*3.0*348 VIX Service Installation Wizard. To backout the VIX and replace it with the prior version which was included in MAG*3.0*329, please see the *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF* for more detail.

6.6   Rollback Verification Procedure

To verify the rollback to MAG*3.0*329, please see the *MAG3_0P348_VIX_INSTALLATION_GUIDE.PDF* for more detail.

7 Definitions, Acronyms, and Abbreviations

Table 4: Definitions, Acronyms, and Abbreviations

Term	Definition
ATO	Authority To Operate
CIO	Chief Information Officer
COTS	Commercial-Off-The-Shelf
CVIX	Centralized VistA Imaging Exchange
GUI	Graphic User Interface
HPS	Health Product Support
IOC	Initial Operating Capability
IT	Information Technology
POC	Point of Contact
UAT	User Acceptance Testing
VIP	Veteran-Focused Integration Process
VIX	VistA Imaging Exchange