VistA Imaging Clinical Capture

MAG*3.0*264

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

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1 Introduction

This document describes how to deploy and install the VistA Imaging Clinical Capture MAG*3.0*264 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 Clinical Capture MAG*3.0*264 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 are included in this document.

1.2 Dependencies

This patch must be installed after MAG*3.0*226.

1.3 Constraints

VistA Imaging Clinical Capture MAG*3.0*264 and the associated MUMPS patch are expected to be installed on existing VistA platforms. The hardware may reside at local or regional data centers. VistA Imaging Clinical Capture MAG*3.0*264 utilizes existing nationally released security controls to control access.

2 Roles and Responsibilities

Multiple entities oversee decision making for the deployment, installation, back-out and rollback of VistA Imaging Clinical Capture MAG*3.0*264. Application Coordinators 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. The following table provides VistA Imaging Clinical Capture MAG*3.0*264 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)	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

ID	Team	Phase/ Role	Tasks	Project Phase (See Schedule)
6	N/A – will work under the VistA authority to operate (ATO) and security protocols.	Installation	Ensure that ATO and certificate authority security documentation is in place	NA
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	NA
8	N/A – no new functionality is being introduced.	Installations	Coordinate training	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*264, the patch will be released via the National Patch Module. At this point, it will be available for installation and deployment at all sites from https://download.vista.med.va.gov/index.html/SOFTWARE.

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 specific timeline 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 Clinical Capture MAG*3.0*264 deployment.

3.2.1 Deployment Topology (Targeted Architecture)

VistA Imaging Clinical Capture MAG*3.0*264 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 VistA Imaging Clinical Capture workstations.

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 Clinical Capture MAG*3.0*264 will be deployed to all VistA systems.

The Production IOC testing site is:

- VA Healthcare Network Upstate New York (Albany, NY)

3.2.3 Site Preparation

There is no special preparation required for VistA Imaging Clinical Capture MAG*3.0*264. A fully patched VistA system is the only requirement.

The following table describes preparation required by the site prior to deployment.

Table 2: Site Preparation

Site/Other	Problem/Change Needed	Features to Adapt/Modify to New Product	Actions/Steps	Owner

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 Clinical Capture MAG*3.0*264 will be deployed using the standard method of patch release from the National Patch Module. When patch MAG*3.0*264 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*264 as specified in the Dependencies section of this document.

4.2 Platform Installation and Preparation

MAG*3.0*264 must be installed on the VistA System and on 64-bit workstations on which the VistA Imaging Applications will be used. This patch must be installed by the compliance date.

This patch may be installed with users on the system although it is recommended that it be installed during non-peak hours to minimize potential disruption to users. This patch should take less than five minutes to install.

Verify that the patches listed in the Dependencies section of this document have been previously installed.

Note: All released VistA Imaging patches must be installed on the VistA system before installing MAG*3.0*264.

4.3 Download and Extract Files

The software for this patch is being released using a host file. The host file is available at the following location: /srv/vista/patches/SOFTWARE/MAG3_0P264.KID

Other Software Files:
This release also includes other software files. These files can be obtained by accessing the URL: https://download.vista.med.va.gov/index.html/SOFTWARE

Table 3: Files to be Downloaded

File Name	Description
MAG3_0P264.KID	Kernel Installation and Distribution System (KIDS) build for MAG*3.0*264
MAG3_0P264_Clincal_Capture_Setup.exe	VistA Imaging Clinical Capture client installation file
MAG3_0P264_Clinical_Capture_Install.msi	VistA Imaging Clinical Capture push installation file
MAG3_0P264_Patch_Description.PDF	Patch Description for Patch 264
MAG3_0P264_DIBORG.pdf	Deployment, Installation, Back-Out, and Rollback Guide for Patch 264

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 Clinical Capture MAG*3.0*264 requires the following to install:

- Programmer access to VistA instance and ability to install KIDS build.
- VistA Imaging Clinical Capture installs – Administrator access to the VistA Imaging Clinical Capture workstations.

4.8 Installation Procedure

4.8.1 MAG*3.0*264 VistA Install

KIDS installation will take two to five minutes.

1. Use the Load a Distribution option contained on the Kernel Installation and Distribution System Menu to load the Host file.

   When prompted to "Enter a Host File:" enter /srv/vista/patches/SOFTWARE/MAG3_0P264.KID

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 or build name (ex.<MAG*3.0*264).

      NOTE: Using <spacebar><enter> will 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 will not backup any other changes such as DDs or templates.

   C. You may also elect to use the following options:
      i. Print Transport Global – This option will allow you to view the components of the KIDS build.
      ii. Compare Transport Global to Current System – This option will allow you to view all changes that will be made when this patch is installed. It compares all 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?,' answer NO.
      ii. When prompted 'Want KIDS to INHIBIT LOGONs during the install?,' answer NO.

4.8.2 MAG*3.0*264 Client Install

Note: The VistA Imaging Clinical Capture Application is only supported on Windows 7 and 10 operating systems. Other operating systems are not officially supported.

VistA Imaging Clinical Capture is distributed as an MSI and EXE installation. The MSI is intended for sites that want to do a push installation (using SCCM or another tool). The EXE is intended for use to install on a single workstation.

The MAG3_0P264_Clinical_Capture_Setup.exe file can be installed manually on workstations as described in Section "Single Workstation Installation" in the *VistA Imaging System Installation Guide*.

4.9 Installation Verification Procedure

1. [VISTA] Verify the checksum of the added/updated routine in Table 5 below.

Table 5: VistA KIDS Build Modified Routines

Routine	Checksum Before	Checksum After	Patch List
MAGIP264	New	4110421	**264**
MAGGTU4C	4965467	4973905	**93,94,106,117,122,129,140,151, 178,189,211,215,223,233,226,264**

2. [Client] Log into an updated workstation and use the Help About menu option to verify that the version number is 3.0.264.1.

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 Clinical Capture MAG*3.0*264 is in the event of a catastrophic failure. VistA Imaging Clinical Capture Client changes are independent of the VistA changes and of each other. In the case of a catastrophic failure of the VistA Imaging Clinical Capture Client, the VistA Patch can remain in the system.

Contact the Health Product Support Clinical Team 3 by submitting a Service Now ticket (https://yourit.va.gov/va) to NTL SUP CLIN3 requesting back-out assistance due to a catastrophic failure with VistA Imaging Clinical Capture v30.264.1

5.2 Back-Out Considerations

5.2.1 Load Testing

No load testing was performed on Vista Imaging Clinical Capture MAG*3.0*264. This was a maintenance release to correct defects; there was no additional functionality included.

5.2.2 User Acceptance Testing

User acceptance testing was conducted by the test sites listed in section 3.2.2. 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*264. 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. No subsequent builds were created as the test cases passed and sites signed off on concurrence for release of the product.

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 Clinical Capture MAG*3.0*264 would result in the re-instatement of the issues addressed in Vista Imaging Clinical Capture MAG*3.0*264. 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*264 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 2B; this must be done before the patch is installed).

1. In VistA MailMan, select the message shown below:
    - Backup of MAG*3.0*264 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.

```
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 MAGXXXX (PACKMAN_BACKUP)

Select PackMan function:<Enter>


. . .
```

5.6.2 MAG*3.0*264 Client Uninstall

If it is necessary to uninstall the MAG*3.0*264 client, use the Uninstall option from Programs and Features within Windows Control Panel to Uninstall: “VistA Imaging Clinical Capture”.

Then install the previous version of VistA Imaging Clinical Capture which was included in MAG*3.0*226.

5.7 Back-out Verification Procedure

Log into the VistA Imaging Clinical Capture workstation and use the Help About menu option to verify that the version number is 3.0.226.1.

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