Electronic Health Modernization

IFC Order Response (GMRC\*3.0\*184)

Deployment, Installation, Back-Out, and Rollback Guide



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**Revision History**

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**Artifact Rationale**

This document describes the Deployment, Installation, Back-out, and Rollback (DIBR) Guide for new products going into the Department of Veterans Affairs (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 location or at multiple locations.

Per the Veteran-focused Integrated Process (VIP) Guide, the DIBR 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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# Introduction

This document is intended to guide the VA Medical Center (VAMC) Information Resources Management (IRM) Specialist or VA Testing Center engineer in the installation of the IFC Response patch (GMRC\*3.0\*184). The patch is a component of the Consult/Request Tracking (GMRC) Package.

## Purpose

The purpose of this document is to describe how, when, where, and to whom the IFC Response patch (GMRC\*3.0\*184) is deployed and installed, as well as how it is to be backed out and rolled back, if necessary. The document also identifies resources, communications plan, and rollout schedule. Specific instructions for installation, back-out, and rollback are included in this document.

## Dependencies

There are no dependencies for this patch.

## Constraints

There are no constraints for this patch.

# Roles and Responsibilities

The deployment, installation, back-out, and rollback roles and responsibilities are shown in Table 1.

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

| Team | Phase / Role | Tasks |
| --- | --- | --- |
| OEHRM Deployment Team, VistA Team | Deployment | Plan and schedule deployment |
| OEHRM Deployment Team, VistA Team | Deployment | Determine and document the roles and responsibilities of those involved in the deployment. |
| OEHRM Deployment Team, VistA Team | Deployment | Test for operational readiness |
| OEHRM Deployment Team, VistA Team | Deployment | Execute deployment |
| Site-specific Regional IT Team | Installation | Plan and schedule installation |
| Site-specific Regional IT Team | Installation | Ensure authority to operate and that certificate authority security documentation is in place |
| Site-specific Regional IT Team | Back-out | Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out) |
| OEHRM Deployment Team, VistA Team  Product Development Team during warranty period, afterwards (software only) Tier 1, Tier 2, Tier 3 / VistA Maintenance | Post Deployment | Hardware, Software and System Support |

# Deployment

The patch will be released nationally subject to the standard patching procedures.

## 3.1 Timeline

TBD

## Site Readiness Assessment

N/A

### 3.2.1 Deployment Topology (Targeted Architecture)

N/A

### 3.2.2 Site Information (Locations, Deployment Recipients)

The patch will be deployed to all Veterans Health Information Systems and Technology Architecture (VISTA) production instances. The IOC test sites are TBD.

### 3.2.3 Site Preparation

N/A

## 3.3. Resources

The IFC Response patch does not require any special or specific resources at a VistA system. The patch adds new fields to the REQUEST/CONSULTATION file (#123). This will have no measurable impact on database size.

## 3.4. Hardware

There is no specific hardware required other than that which already hosts the VistA system. This is a software enhancement that will not require additional hardware.

## 3.5. Software

There is no specific software required other than that which already hosts the VistA system.

## 3.6 Communications

The patch changes the content of selected HL7 messages but does not impact the manner that these messages are sent or received.

### 3.6.1 Deployment/Installation/Back-Out Checklist

The Release Management team will deploy the Image Migration patch.

Table 2: Deployment/Installation/Back-Out Checklist

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Day | Time | Individual who completed task |
| Deploy | TBD | TBD | TBD |
| Install | TBD | TBD | TBD |
| Back-Out | TBD | TBD | TBD |

# Installation

The software for this patch is being released in a PackMan message named GMRC\*3.0\*184. There are no pre- or post-installation actions required of the installer.

## Pre-installation and System Requirements

The patches listed below are required builds for the IFC Response patch. They are installed at all production sites.

1. GMRC\*3.0\*58
2. GMRC\*3.0\*154
3. GMRC\*3.0\*176

## Platform Installation and Preparation

This product is a VistA patch. Sites should install patches into the test/mirror/pre-prod accounts before the production account as is the normal VistA patch installation standard convention.

When installing any VistA patch, sites should utilize the option “Backup a Transport Global” to create a backup message of any routines exported with this patch.

## Download and Extract Files

N/A.

## Database Creation

N/A.

## Installation Scripts

N/A.

## Cron Scripts

N/A.

## Access Requirements and Skills Needed for the Installation

To install this VistA patch, the patch installer must be an active user on the VistA system and have access to the VistA menu option, “Kernel Installation & Distribution System” [XPD MAIN] and have VistA security keys XUPROG and XUPROGMODE. Knowledge on how to install VistA patches using the items on this menu option is also a required skill.

## Installation Procedure

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 5 minutes to install.

Installation Instructions:

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,
   1. 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 GMRC\*3.0\*184.
   2. Select the Backup a Transport Global option to create a backup message. You must use this option for each patch contained in the Host File. For each patch you can specify what to backup, the entire Build or just Routines. The backup message can be used to restore just the routines or everything that will restore your system to pre-patch condition.
   3. You may also elect to use the following options:
      1. Print Transport Global - This option will allow you to view the components of the KIDS build.
      2. 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 the components of this patch, such as routines, DDs, templates, etc.
   4. Select the Install Package(s) option and choose the patch to install.
3. If prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', answer YES.
4. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', answer NO.
5. When prompted ‘Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//’, answer NO.

## Installation Verification Procedure

Verify completed installation by checking that the build components as listed in the patch description have been correctly installed onto the target VistA system.

# Back-Out Procedure

Back-Out procedures pertain to a return to the last known good operational state of the software and appropriate platform settings.

## 5.1. Back-Out Strategy

The Back-Out Strategy for VistA applications is complex and is not able to be a “one size fits all” strategy. The general strategy for VistA software back-out is to repair the code with a follow-up patch. The site should contact the Enterprise Program Management Office (EPMO) directly for specific solutions to their unique problems.

Although it is unlikely due to care in collecting approved requirements, software quality analyst (SQA) review and multiple testing stages (Primary Developer, Secondary Developer, and Component Integration Testing) a back-out decision due to major issues with this patch could occur during site Mirror Testing, Site Production Testing or after Release to the Field. The strategy would depend on during which of these stages the decision is made. If the decision is made during Site Production Testing, the normal VistA response would be for a new version of the test patch to be produced to correct defects, unless the patch produces catastrophic problems. The test patch would be retested and upon successfully passing development team testing would be resubmitted to the site for testing.  If the defects were not discovered until after release, OEHRM would produce the new patch, either to correct the defective components or to back-out.

## 5.2. Back-Out Considerations

It is necessary to determine if a wholesale back-out of the patch GMRC\*3.0\*184 is needed or if correcting through a new version of the patch is a better course of action. A wholesale back-out of the patch will still require a new version.

### 5.2.1 Load Testing

N/A.

### 5.2.2 User Acceptance Testing

N/A.

## 5.3. Back-Out Criteria

The decision to back-out this VistA patch will be made by the Business Sponsor, OEHRM VA Leadership, VA OIT IT Program Manager, and the Development Team. Criteria will be determined based on separate and unique factors and will be evaluated upon post-patch installation use of the product.

## 5.4. Back-Out Risks

N/A.

## 5.5. Authority for Back-Out

Based on authority provided by the Business Sponsor, OEHRM VA Leadership and VA OIT IT Program Manager, GMRC\*3.0\*184 can be backed out in accordance to their approval.

## 5.6. Back-Out Procedure

***WARNING: Use caution in performing these steps. Deletions cannot be undone!***

***There is no harm in leaving the build installed. As long as no other application calls the new API, then the routine will never be run.***

Removing patch GMRC\*3.0\*184 from a site can be done by installing the backup created during patch installation.

## 5.7. Back-out Verification Procedure

The routines listed in the patch description can be checked to see that 184 is not present in line 2 of each routine. The fields added to file #123 can be checked to see that they are not present using FileMan to list the data dictionary.

# Rollback Procedure

Rollback pertains to data associated with this patch.

## 6.1. Rollback Considerations

This patch does not supply or convert any data.

The decision to rollback this VistA patch will be made by the Business Sponsor, Office of Electronic Health Record Modernization (OEHRM) VA Leadership, VA OIT IT Program Manager, and the Development Team. Criteria will be determined based on separate and unique factors and will be evaluated upon post-patch installation use of the product.

## 6.2. Rollback Risks

Rollback risks include being able to restore the database to how it looked before this patch was installed without introducing database corruption.

## 6.3. Authority for Rollback

Based on authority provided by the Business Sponsor, OEHRM VA Leadership and VA OIT IT Program Manager, VistA patch GMRC\*3.0\*184 can be rolled back in accordance to their approval.

## 6.4. Rollback Procedure

A new patch to fix the problems should be developed.

## 6.5. Rollback Verification Procedure

Verify that all the above data components have been removed from the system as described in the previous section.