

# **Mental Health YS\*5.01\*255**

## **Deployment, Installation, Back-Out, and Rollback Guide**



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# 1 Introduction

This document describes how to deploy and install the patch YS\*5.01\*255 of the Mental Health package, 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.

## 1.1 Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom Mental Health patch YS\*5.01\*255 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

It is assumed that this patch is being installed into a fully patched Veterans Health Information System and Technology Architecture (VistA) system. Patch YS\*5.01\*238 must be installed prior to this patch.

## 1.3 Constraints

For all other VistA sites, there are no constraints beyond the installation into an up-to-date VistA system.

# 2 Roles and Responsibilities

The following describes the roles and responsibilities associated with the testing and release of YS\*5.01\*255. This application requires both a VistA installation and an update to the web application. The Azure application manager will install the web application part of the patch. The VistA patch will be deployed via the normal PackMan route.

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

| Team   | Phase / Role | Tasks   | Project Phase (See Schedule) |
|--|--------------|---|------------------------------|
| Project Manager                              | Deployment   | Determine and document the roles and responsibilities of those involved in the deployment | Design                       |
| Software Quality Assurance (SQA), Test Sites | Deployment   | Test for operational readiness  | Test                         |
| Project Manager, Release Manager             | Deployment   | Execute deployment  | Release                      |
| Individual VistA Sites                       | Installation | Plan and schedule installation  | Release                      |
| Azure Manager                                | Installation | Plan and schedule installation  | Release                      |

| Team             | Phase / Role    | Tasks   | Project Phase (See Schedule) |
|------------------|-----------------|---|------------------------------|
| Release Manager  | Back-out        | Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out) | Release                      |
| Sustainment Team | Post Deployment | Hardware, Software and System Support   | Sustain                      |

### 3 Deployment

The deployment is planned as a simultaneous (National Release) rollout. Once approval has been given to nationally release, YS\*5.01\*255 will be available for installation and deployment at all sites.

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

#### 3.1 Timeline

The deployment and installation are scheduled to run during April and May 2025.

#### 3.2 Site Readiness Assessment

This section discusses the locations that will receive the YS\*5.01\*255 deployment.

##### 3.2.1 Deployment Topology (Targeted Architecture)

The web part of the application for YS\*5.01\*255 will be deployed to the Azure application server and will be available at each site once the VistA patch is installed. Local sites, as well as regional data centers, will need to execute the VistA installation steps during the required installation period to stay synchronized with the updates to the web application.

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

The initial deployment will be to Initial Operating Capability (IOC) sites for verification of functionality. Once testing is completed and approval is given for national release, YS\*5.01\*255 will be deployed to all VistA systems.

The Production IOC testing sites are:

- Clement J. Zablocki VAMC (Milwaukee, WI)
- Orlando VAMC (Orlando, FL)
- St. Louis VAMC (St. Louis, MO)

##### 3.2.3 Site Preparation

YS\*5.01\*255 requires a fully patched VistA system. Patch YS\*5.01\*238 must be installed prior to the installation of YS\*5.01\*255.

## 3.3 Resources

### 3.3.1 Facility Specifics (optional)

No specific facility instructions needed.

### 3.3.2 Hardware

No hardware instructions needed.

### 3.3.3 Software

No software instructions needed.

### 3.3.4 Communications

When YS\*5.01\*255 is released, the released-patch notification will be sent from the National Patch Module to all personnel who have subscribed to notifications for the Mental Health package patch.

## 4 Installation

### 4.1 Pre-installation and System Requirements

There are no pre-installation requirements.

### 4.2 Platform Installation and Preparation

This patch can be loaded with users in the system. Installation time will be less than 5 minutes.

To ensure the integrity of the transport global, use the “Verify Checksums in Transport Global” to compare the checksums with the list that follows:

THE CHECKSUMS BELOW ARE NEW CHECKSUMS, AND CAN BE CHECKED WITH CHECK1^XTSUMBLD.

```
SELECT BUILD NAME: YS*5.01*255          MENTAL HEALTH
MHDEV>D CHECK1^XTSUMBLD
```

NEW CHECKSUM CHECK1^XTSUMBLD:

THIS OPTION DETERMINES THE CURRENT CHECKSUM OF SELECTED ROUTINE(S).  
THE CHECKSUM OF THE ROUTINE IS DETERMINED AS FOLLOWS:

1. ANY COMMENT LINE WITH A SINGLE SEMI-COLON IS PRESUMED TO BE FOLLOWED BY COMMENTS AND ONLY THE LINE TAG WILL BE INCLUDED.
2. LINE 2 WILL BE EXCLUDED FROM THE COUNT.
3. THE TOTAL VALUE OF THE ROUTINE IS DETERMINED (EXCLUDING EXCEPTIONS NOTED ABOVE) BY MULTIPLYING THE ASCII VALUE OF EACH CHARACTER BY ITS POSITION ON THE LINE AND POSITION OF THE LINE IN THE ROUTINE BEING CHECKED.

SELECT ONE OF THE FOLLOWING:

P            PACKAGE  
B            BUILD

BUILD FROM: BUILD

THIS WILL CHECK THE ROUTINES FROM A BUILD FILE.

SELECT BUILD NAME: YS\*5.01\*255            MENTAL HEALTH

YS255PST    VALUE = 3894659

YTQRQAD    VALUE = 119825256

YTSNSI      VALUE = 5250867

DONE

### **4.3 Access Requirements and Skills Needed for the Installation**

Installation of YS\*5.01\*255 requires access to Kernel Installation and Distribution System (KIDS) options to be able to load and install the KIDS build.

### **4.4 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.

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 or build name (YS\*5.01\*255).
  - B. 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.
  - 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 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 (YS\*5.01\*255).
    - 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.

## 4.5 Post-installation

A post-install routine will run to update instrument categories. It will reactivate one instruments:

- COPD Assessment Test (CAT) COPD

It will install two new instruments via the Instrument Exchange:

- Missouri Alliance for Home Care - 10 questions MAHC-10
- Neurobehavioral Symptom Inventory for Traumatic Brain Injury NSI FOR TBI

One instrument will be updated via the Instrument Exchange:

- Clinical Opiate Withdrawal Scale COWS

## 4.6 Installation Verification Procedure

Go to CPRS and log in. Go to the Tools Menu and launch MHA. Click on the plus sign to create a new Assignment. Click on **View All Instruments** to see the full instrument list. Verify that the COPD, MAHC-10, and NSI FOR TBI appear in the instrument list. Click CANCEL to close the Assignment window and log out of the application.

## 4.7 Database Tuning

No database tuning required.

# 5 Back-Out Procedure

## 5.1 Back-Out Strategy

This patch updates the MHA application. If MHA does not perform as desired, it is possible to back out to the previous implementation.

## 5.2 Back-Out Considerations

If the YS\*5.01\*255 patch is backed out, there will be minimal impact to users.

## 5.3 Back-Out Criteria

A back-out should only be considered if there is a patient safety issue, if MHA no longer functions, or if there is some other catastrophic failure.

## 5.4 Back-Out Risks

The risks vary depending on what is causing the failure of the system. The main risk is that the MHA will be unavailable.

## 5.5 Authority for Back-Out

The VistA system manager determines if a back-out of YS\*5.01\*255 should be considered.

## 5.6 Back-Out Procedure

The following routine will need to be restored:

- YTQRQAD

Use the KIDS utility restore the routines backed up in section [4.4](#), [2B](#).

## 5.7 Back-out Verification Procedure

N/A.

# 6 Rollback Procedure

## 6.1 Rollback Considerations

To rollback this patch, entries in the MH TESTS AND SURVEYS File (#601.71) need to be updated. The new instruments that were added in this patch need to be set to DROPPED in the MH TESTS AND SURVEYS File (#601.71) and are listed below:

- Missouri Alliance for Home Care - 10 questions MAHC-10
- Neurobehavioral Symptom Inventory for Traumatic Brain Injury NSI FOR TBI

The COPD Assessment Test (CAT) instrument that was reactivated will also have to be set to DROPPED.

The Clinical Opiate Withdrawal Scale (COWS) instrument will have to be individually evaluated to determine if it should be rolled back.

## 6.2 Rollback Criteria

If the patch is backed out, the MH TESTS AND SURVEYS File (#601.71) must be rolled back.

## 6.3 Rollback Risks

By only changing the OPERATIONAL flag, LAST EDIT DATE, and LAST EDITED BY fields in the MH TESTS AND SURVEYS File (#601.71), the risks are minimal, as any existing MH ADMINISTRATION File (#601.84) entries that used these instruments will still be available.

## 6.4 Authority for Rollback

If the backout of the patch is authorized, then that same authorization is required for rollback.

## 6.5 Rollback Procedure

Deactivate:

- COPD Assessment Test (CAT) COPD
- Missouri Alliance for Home Care - 10 questions MAHC-10
- Neurobehavioral Symptom Inventory for Traumatic Brain Injury NSI FOR TBI

The example below is for the COPD but will be the same for each instrument.

Log in to VistA.

Go to the VA FileMan menu

Go to **Enter or Edit File Entries**

```
vhaballek@vac20devmha800~  
Enter "VA to jump to VIEW ALERTS option  
Select Systems Manager Menu <***MHDEV**> Option: FM VA FileMan  
  
VA FileMan Version 22.2  
  
Enter or Edit File Entries  
Print File Entries  
Search File Entries  
Modify File Attributes  
Inquire to File Entries  
Utility Functions ...  
Data Dictionary Utilities ...  
Transfer Entries  
Other Options ...  
  
You have PENDING ALERTS  
Enter "VA to jump to VIEW ALERTS option  
Select VA FileMan <***MHDEV**> Option: Enter or Edit File Entries
```

At the **Input to what File:** prompt enter MH TESTS AND SURVEYS

At the **EDIT WHICH FIELD** prompt enter:

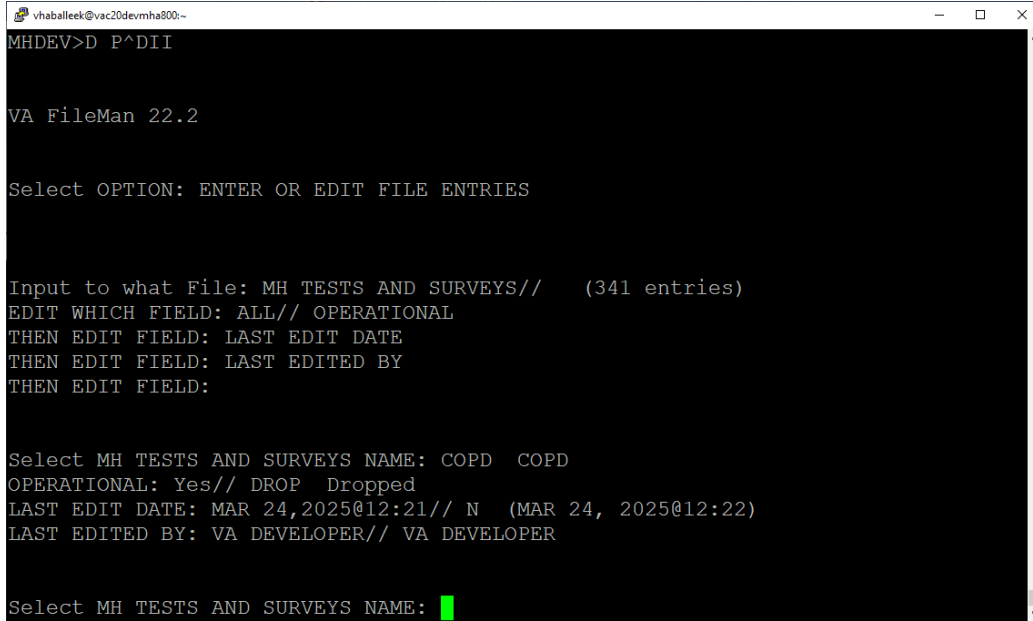
OPERATIONAL

LAST EDIT DATE

LAST EDITED BY

```
vhaballek@vac20devmha800~  
Search File Entries  
Modify File Attributes  
Inquire to File Entries  
Utility Functions ...  
Data Dictionary Utilities ...  
Transfer Entries  
Other Options ...  
  
You have PENDING ALERTS  
Enter "VA to jump to VIEW ALERTS option  
Select VA FileMan <***MHDEV**> Option: Enter or Edit File Entries  
  
Input to what File: MH TESTS AND SURVEYS// (327 entries)  
EDIT WHICH FIELD: ALL// OPERATIONAL  
THEN EDIT FIELD: LAST EDIT DATE  
THEN EDIT FIELD: LAST EDITED BY  
THEN EDIT FIELD:  
  
Select MH TESTS AND SURVEYS NAME: █
```

At the **Select MH TESTS AND SURVEYS NAME:** prompt enter COPD.  
At the **OPERATIONAL** prompt enter DROPPED  
At the **LAST EDIT DATE** prompt enter N for NOW  
At the **LAST EDITED BY** prompt enter your name.



```
vhaballeek@vac20devmha800:~  
MHDEV>D P^DII  
  
VA FileMan 22.2  
  
Select OPTION: ENTER OR EDIT FILE ENTRIES  
  
Input to what File: MH TESTS AND SURVEYS// (341 entries)  
EDIT WHICH FIELD: ALL// OPERATIONAL  
THEN EDIT FIELD: LAST EDIT DATE  
THEN EDIT FIELD: LAST EDITED BY  
THEN EDIT FIELD:  
  
Select MH TESTS AND SURVEYS NAME: COPD COPD  
OPERATIONAL: Yes// DROP Dropped  
LAST EDIT DATE: MAR 24,2025@12:21// N (MAR 24, 2025@12:22)  
LAST EDITED BY: VA DEVELOPER// VA DEVELOPER  
  
Select MH TESTS AND SURVEYS NAME: █
```

Repeat this process for the MAHC-10 and NSI FOR TBI instruments.

## 6.6 Rollback Verification Procedure

Go to CPRS and log in. Go to the Tools Menu and launch MHA. Click on the plus sign to create a new Assignment. Click on **View All Instruments** to see the full instrument list. Verify that the COPD, MAHC-10, and NSI FOR TBI instruments do not appear.

## 7 Appendix A – Acronyms

**Table 2: Acronyms**

| <b>Acronym</b> | <b>Definition</b>  |
|----------------|--|
| COPD           | COPD Assessment Test (CAT)                                     |
| COWS           | Clinical Opiate Withdrawal Scale                               |
| CPRS           | Computerized Patient Record System                             |
| IOC            | Initial Operating Capability                                   |
| KIDS           | Kernel Installation and Distribution System                    |
| MAHC-10        | Missouri Alliance for Home Care - 10 questions                 |
| MHA            | Mental Health Assistant  |
| NSI FOR TBI    | Neurobehavioral Symptom Inventory for Traumatic Brain Injury   |
| OIT            | Office of Information and Technology                           |
| PIV            | Personal Identity Verification                                 |
| SPP            | Suicide Prevention Package                                     |
| SQA            | Software Quality Assurance                                     |
| VA             | Department of Veterans Affairs                                 |
| VAMC           | Veterans Affairs Medical Center                                |
| VistA          | Veterans Health Information System and Technology Architecture |