

# **Mental Health YS\*5.01\*250**

## **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\*250 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\*250 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. Patches YS\*5.01\*123, YS\*5.01\*139, YS\*5.01\*234, YS\*5.01\*249, and YS\*5.01\*240 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\*250. 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\*250 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 November and December 2024.

#### 3.2 Site Readiness Assessment

This section discusses the locations that will receive the YS\*5.01\*250 deployment.

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

The web part of the application for YS\*5.01\*250 will be deployed to the Azure application server and will be available at each site once the Veterans Health Information System and Technology Architecture (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\*250 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\*250 requires a fully patched VistA system. Patches YS\*5.01\*123, YS\*5.01\*139, YS\*5.01\*234, YS\*5.01\*249, and YS\*5.01\*240 must be installed prior to the installation of YS\*5.01\*250.

## 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\*250 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.

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

Installation of YS\*5.01\*250 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\*250). The checksums should match this list:

```
YS250PST value = 20516998
```

YTQAPI1	value = 38971544
YTQAPI2A	value = 14790372
YTQAPI2C	value = 69960834
YTQRCDB	value = 76061984
YTQRCDB2	value = 27337406
YTQRCDB5	value = 3568695
YTQREST	value = 49706519
YTQRQAD2	value = 65603650
YTQRQAD3	value = 116873096
YTQRQAD7	value = 239757522
YTQRQAD8	value = 17148056
YTSALSFR	value = 2221187
YTSALSQL	value = 49686042
YTSEAT26	value = 6987015
YTXCHGI	value = 57804282

- 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 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\*250).
  - 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 the BBHI-2 instrument. It will also update the URL for launching Mental Health Assistant (MHA) in the Computerized Patient Record System (CPRS) Tools menu.

A new parameter, YS MHA LOG APPLICATION ERRORS, has been implemented to toggle on and off the VistA error trap for debugging. It is installed in the "off" state by default and can be turned on through the General Parameter Tools menu when VistA error trap debugging is needed. This will be done on a case by case basis at an individual site.



**\*NOTE:**

**DO NOT exercise these steps during installation of the patch. These are the steps that will be requested when a site reports a problem that requires special investigation.**

If a site experiences a problem with Mental Health instrument administrations, a Service Now ticket should be created and directed to SPM.Health.ClinSvs.MHSP.MHA.

If the problem requires special error logging, the MHA team will work with the site CAC/ADPAC who has access to the General Parameter Tools.

\*\*\*\*\*

Steps to Activate/Deactivate the YS MHA LOG APPLICATION ERRORS Parameter

- From the menu, select EP Edit Parameter Values.
- For the PARAMETER DEFINITION NAME, enter YS MHA LOG APPLICATION ERRORS
- Select 10 System.
- At the Enabled? prompt, enter Y for Yes.

Once the error is replicated and sufficient data is collected, the CAC/ADPAC will execute the following steps from the General Parameter Tools menu:

- From the menu, select EP Edit Parameter Values.
- For the PARAMETER DEFINITION NAME, enter YS MHA LOG APPLICATION ERRORS
- Select 10 System.
- At the Enabled? prompt, enter N for No.

\*\*\*\*\*

## 4.6 Installation Verification Procedure

Open CPRS and launch the MHA application. Verify that the URL starts with:

<https://mha.med.va.gov/app/home/p250/>

Close the browser without logging in.

## 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\*250 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\*250 should be considered.

## 5.6 Back-Out Procedure

The following routines need to be restored to their previous versions:

- YTQAPI1
- YTQAPI2A
- YTQAPI2C
- YTQRCDB
- YTQRCDB2
- YTQREST
- YTQRQAD3
- YTQRQAD7
- YTQRQAD8
- YTSEAT26
- YTXCHGI

Use the KIDS utility restore the routines backed up in section **4.4, 2B**.

The link in CPRS will need to be reverted to its original format. Log into VistA and go to the **GUI TOOL MENU**. Select **SYS** for system level. Identify the Sequence number for the MHA option. Replace /p250/ in the URL with /p249/. In the example screenshot below, the Sequence is 14 and the station is 965. At the **Replace** prompt, enter /p250/. At the **With** prompt, enter /p249/ and press [Enter].

```
Select GUI Parameters <SPPSQA> Option: GUI tool Menu Items
```

```
CPRS GUI Tools Menu may be set for the following:
```

```
1 User          USR    [choose from NEW PERSON]
2 Location      LOC    [choose from HOSPITAL LOCATION]
2.5 Service     SRV    [choose from SERVICE/SECTION]
3 Division      DIV    [SPPSQA]
4 System        SYS    [SPPSQA.DEVSLC.FO-SLC.MED.VA.GOV]
9 Package       PKG    [ORDER ENTRY/RESULTS REPORTING]
```

```
Enter selection: 4 System SPPSQA.DEVSLC.FO-SLC.MED.VA.GOV
```

```
-- Setting CPRS GUI Tools Menu for System: SPPSQA.DEVSLC.FO-SLC.MED.VA.GOV --
Select Sequence: ?
```

```
Sequence Value
```

```
-----
1 VistA Imaging Display="C:\Program Files\Vista\Imaging\MagImageDisplay
2 VistA Imaging Capture="C:\Program Files\Vista\Imaging\MagImageCapture
3 Mental Health Assistant="C:\Program files (x86)\Vista\YS\MHA3\YS_MHA.
14 MHA=cmd /c start msedge.exe -new-window "https://mha.med.va.gov/a
```

```
Select Sequence: 14
```

```
Sequence: 14// 14
```

```
Name=Command: MHA=cmd /c start msedge.exe -new-window "https://mha.med.va.gov
/app/home/p250/?poi=%DFN&station=965" Replace /p250/ With /p249/
```

```
Replace
```

```
MHA=cmd /c start msedge.exe -new-window "https://mha.med.va.gov/app/home/p249/?p
oi=%DFN&station=965"
```

```
Select Sequence:
```

### **\*NOTE:**

**In the example above, the station is 965. Your actual station number should be substituted.**

## **5.7 Back-out Verification Procedure**

Open CPRS and launch MHA. After logging in with your Personal Identity Verification (PIV) card, look at the URL. Verify that it now has /p249/ in it.

## **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 one instrument that was reactivated and 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:

- Acceptance and Action Questionnaire - 7 Item AAQ-II-7
- ALS Functional Rating Scale Revised ALSFRS-R
- ALS-Specific Quality of Life Questionnaire - Short Form ALSSQOL-SF
- Brief Battery for Health Improvement – ver. 2 BBHI-2

The seven instruments that were modified by this patch will need to be evaluated on an instrument-by-instrument basis and, if needed, be updated in a future patch, and are listed below:

- Alcohol Use Disorders Identification Test - Consumption AUDC
- The Six-Item Blessed Orientation-Memory- Concentration Test BOMC
- Beck Scale for Suicide Ideation BSS
- Cross-Cutting Symptom Assessment for DSM-5 CCSA-DSM5
- Eating Attitudes Test-26 Item (EAT-26) EAT-26
- Patient Safety Secondary Screener: (PSS-3 2nd) PSS-3 2ND

## 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:

- Acceptance and Action Questionnaire - 7 Item AAQ-II-7
- ALS Functional Rating Scale Revised ALSFRS-R
- ALS-Specific Quality of Life Questionnaire - Short Form ALSSQOL-SF
- Brief Battery for Health Improvement – ver. 2 BBHI-2

The example below is for the AAQ-II-7 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**

```

vhaballeek@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

```

vhaballeek@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 AAQ-II-7  
 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--
Select OPTION: ENTER OR EDIT FILE ENTRIES

Input to what File: MH TESTS AND SURVEYS// (339 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: AAQ
  1  AAQ-2
  2  AAQ-II-7
  3  AAQ-SA
CHOOSE 1-3: 2  AAQ-II-7
OPERATIONAL: Yes// DR Dropped
LAST EDIT DATE: JUN 10,2024@10:34// N (JUL 25, 2024@15:39)
LAST EDITED BY: VA DEVELOPER

Select MH TESTS AND SURVEYS NAME: █
```

Repeat this process for the ALSFRS-R, ALSSQOL-SF, and BBHI-2 instruments.  
Log out as usual.

## 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 AAQ-II-7, ALSFRS-R, ALSSQOL-SF, and BBHI-2 instruments do not appear.

## 7 Appendix A – Acronyms

**Table 2: Acronyms**

<b>Acronym</b>	<b>Definition</b>
AAQ-II-7	Acceptance and Action Questionnaire
ALSFRS-R	ALS Functional Rating Scale Revised
ALSSQOL-SF	ALS-Specific Quality of Life Questionnaire – Short Form
AUDC	Alcohol Use Disorders Identification Test – Consumption
BBHI-2	Brief Battery for Health Improvement – ver. 2
BOMC	The Six-Item Blessed Orientation-Memory-Concentration Test
BSS	Beck Scale for Suicide Ideation
CCSA-DSMT	Cross-Cutting Symptom Assessment for DSM-5
CPRS	Computerized Patient Record System
EAT-26	Eating Attitudes Test-26 Item
IOC	Initial Operating Capability
KIDS	Kernel Installation and Distribution System
MH	Mental Health
MHA	Mental Health Assistant
OIT	Office of Information and Technology
PSS-3-2 <sup>ND</sup>	Short Perceived Employment Barriers Scale
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