

Mental Health YS*5.01*249

Deployment, Installation, Back-Out, and Rollback Guide



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**Department of Veterans Affairs
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1 Introduction

This document describes how to deploy and install the patch YS*5.01*249 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*249 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*217, YS*5.01*151, YS*5.01*221, YS*5.01*224, and YS*5.01*234 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*249. 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*249 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 July and August 2024.

3.2 Site Readiness Assessment

This section discusses the locations that will receive the YS*5.01*249 deployment.

3.2.1 Deployment Topology (Targeted Architecture)

The web part of the application for YS*5.01*249 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*249 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*249 requires a fully patched VistA system. Patches YS*5.01*217, YS*5.01*151, YS*5.01*221, YS*5.01*224, and YS*5.01*234 must be installed prior to the installation of YS*5.01*249.

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*249 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*249 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*249). The checksums should match this list:

YS249PST	Calculated	38871610
YTQAPI1	Calculated	34307179

YTQRCDB	Calculated	76036628
YTQREST	Calculated	49706261
YTQRQAD4	Calculated	204392013
YTSMINIC	Calculated	11713308
YTSMOC81	Calculated	3706670
YTSMOC82	Calculated	3707393
YTSMOC83	Calculated	3708116
YTSMOCBL	Calculated	3445731
YTSQLES	Calculated	16083126
YTSYMRS	Calculated	5969596

- 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*249).
- 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 deactivate thirteen instruments:

- Automatic Thoughts Questionnaire ATQ
- Brief Battery for Health Improvement – ver. 2 BBHI-2
- Client Evaluation of Motivational interviewing CEMI
- Center for Epidemiologic Studies Depression Scale CESD
- COPD Assessment Test COPD
- General Practitioner Assessment of Cognition GPCOG
- Indiana Job Satisfaction Survey IJSS
- Internalized Stigma of Mental Illness ISMI
- Montreal Cognitive Assessment MOCA
- Montreal Cognitive Assessment, Alternate 1 MOCA ALT 1
- Montreal Cognitive Assessment, Alternate 2 MOCA ALT 2
- State-Trait Anxiety Inventory STAI
- Short Test of Mental Status STMS

It will also queue a TaskMan process to update administration results for the The Six-Item Blessed Orientation-Memory-Concentration Test (BOMC) due to a scoring revision change. It will also update the URL for launching Mental Health Assistant (MHA) in the Computerized Patient Record System (CPRS) Tools menu.

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/p249/>

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*249 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*249 should be considered.

5.6 Back-Out Procedure

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

- YTQAPI1
- YTQRCDB
- YTQREST
- YTQRQAD4
- YTSMINIC
- YTSQLES

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 /p249/ in the URL with /p239/. In the example screenshot below, the Sequence is 14 and the station is 965. At the **Replace** prompt, enter /p249/. At the **With** prompt, enter /p239/ 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/p249/?poi=%DFN&station=965"  Replace /p249/ With /p239/
Replace
MHA=cmd /c start msedge.exe -new-window "https://mha.med.va.gov/app/home/p239/?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 /ps239/ 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 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:

- Montreal Cognitive Assessment Version 8.1 MOCA_8.1
- Montreal Cognitive Assessment Version 8.2 MOCA_8.2

- Montreal Cognitive Assessment Version 8.3 MOCA_8.3
- Montreal Cognitive Assessment - Blind MOCA BLIND
- Young Mania Rating Scale YMRS

The thirteen instruments that were set to DROPPED by this patch will need to be set to YES for OPERATIONAL:

- Automatic Thoughts Questionnaire ATQ
- Brief Battery for Health Improvement – ver. 2 BBHI-2
- Client Evaluation of Motivational interviewing CEMI
- Center for Epidemiologic Studies Depression Scale CESD
- COPD Assessment Test COPD
- General Practitioner Assessment of Cognition GPCOG
- Indiana Job Satisfaction Survey IJSS
- Internalized Stigma of Mental Illness ISMI
- Montreal Cognitive Assessment MOCA
- Montreal Cognitive Assessment, Alternate 1 MOCA ALT 1
- Montreal Cognitive Assessment, Alternate 2 MOCA ALT 2
- State-Trait Anxiety Inventory STAI
- Short Test of Mental Status STMS

The six 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:

- The Six-Item Blessed Orientation-Memory-Concentration Test BOMC
- Braden Scale for Predicting Pressure Ulcer Risk Scale BRADEN Scale
- Migraine Disability Assessment Test MIDAS
- Mini-Cog MINICOG
- Short Perceived Employment Barriers Scale PEBS-20
- Quality of Life Enjoyment and Satisfaction Questionnaire – Short Form Q-LES-Q-SF

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:

- Montreal Cognitive Assessment Version 8.1 MOCA_8.1
- Montreal Cognitive Assessment Version 8.2 MOCA_8.2
- Montreal Cognitive Assessment Version 8.3 MOCA_8.3
- Montreal Cognitive Assessment - Blind MOCA BLIND

- Young Mania Rating Scale

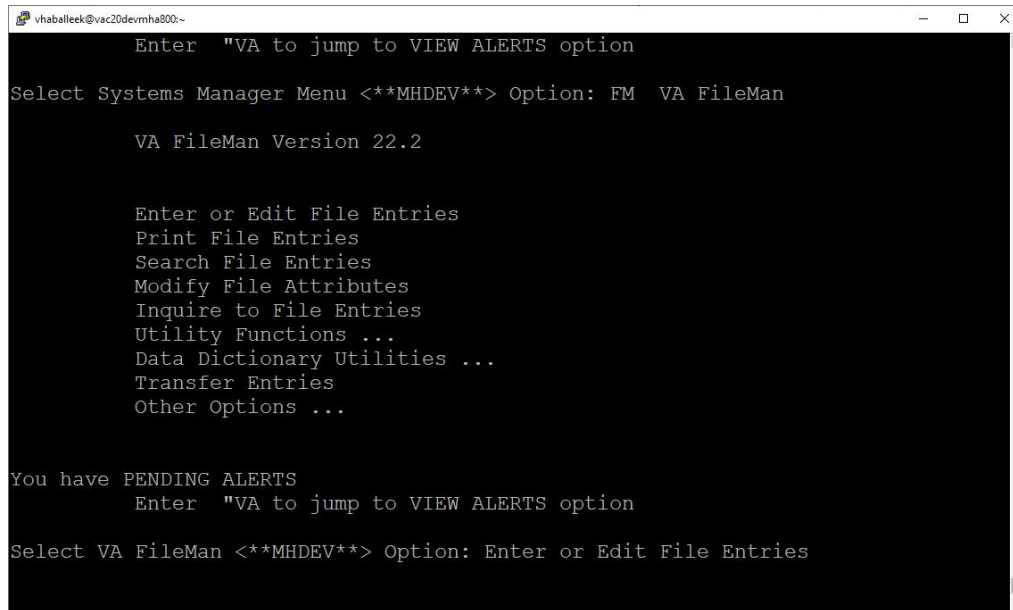
YMRS

The example below is for the MOCA_8.1 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 <*> 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 <*> 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

- Center for Epidemiologic Studies Depression Scale CESD
- COPD Assessment Test COPD
- General Practitioner Assessment of Cognition GPCOG
- Indiana Job Satisfaction Survey IJSS
- Internalized Stigma of Mental Illness ISMI
- Montreal Cognitive Assessment MOCA
- Montreal Cognitive Assessment, Alternate 1 MOCA ALT 1
- Montreal Cognitive Assessment, Alternate 2 MOCA ALT 2
- State-Trait Anxiety Inventory STAI
- Short Test of Mental Status STMS

The example below is for the MOCA 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@vac20devmhs800:~
Enter "VA to jump to VIEW ALERTS option
Select Systems Manager Menu <*> 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 <*> 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 MOCA (if prompted for number, enter the number for the MOCA)

At the **OPERATIONAL** prompt enter YES

At the **LAST EDIT DATE** prompt enter N for NOW

At the **LAST EDITED BY** prompt enter your name.

```
vhaballeek@vac20devmha800~  
Input to what File: MH TESTS AND SURVEYS// (337 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: MOCA  
1 MOCA  
2 MOCA ALT 1  
3 MOCA ALT 2  
4 MOCA BLIND  
5 MOCA_8.1  
Press <Enter> to see more, '^' to exit this list, OR  
CHOOSE 1-5: 1 MOCA  
OPERATIONAL: Dropped// Y Yes  
LAST EDIT DATE: MAR 15,2019@18:55// N (APR 30, 2024@15:15)  
LAST EDITED BY: VA DEVELOPER// VA DEVELOPER  
  
Select MH TESTS AND SURVEYS NAME: █
```

Repeat this process for the ATQ, BBHI-2, CEMI, CESD, COPD, GPCOG, IJSS, ISMI, MOCA ALT 1, MOCA ALT 2, STAI, and STMS 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 ATQ, BBHI-2, CEMI, CESD, COPD, GPCOG, IJSS, ISMI, MOCA, MOCA ALT 1, MOCA ALT 2, STAI, and STMS instruments appear. Verify that the MOCA_8.1, MOCA_8.2, MOCA_8.3, MOCA BLIND, and YMRS instruments do not appear.

7 Appendix A – Acronyms

Table 2: Acronyms

Acronym	Definition
ATQ	Automatic Thoughts Questionnaire
BBHI-2	Brief Battery for Health Improvement – ver. 2
BOMC	The Six-Item Blessed Orientation-Memory-Concentration Test
BRADEN Scale	Braden Scale for Predicting Pressure Ulcer Risk
CEMI	Client Evaluation of Motivational interviewing
CESD	Center for Epidemiologic Studies Depression Scale
COPD	COPD Assessment Test
CPRS	Computerized Patient Record System
GPCOG	General Practitioner Assessment of Cognition
IJSS	Indiana Job Satisfaction Survey
IOC	Initial Operating Capability
ISMI	Internalized Stigma of Mental Illness
KIDS	Kernel Installation and Distribution System
MH	Mental Health
MHA	Mental Health Assistant
OIT	Office of Information and Technology
MIDAS	Migraine Disability Assessment Test
MINICOG	Mini-Cog
MOCA	Montreal Cognitive Assessment
MOCA_8.1	Montreal Cognitive Assessment Version 8.1
MOCA_8.2	Montreal Cognitive Assessment Version 8.2
MOCA_8.3	Montreal Cognitive Assessment Version 8.3
MOCA ALT 1	Montreal Cognitive Assessment, Alternate 1
MOCA ALT 2	Montreal Cognitive Assessment, Alternate 2
MOCA BLIND	Montreal Cognitive Assessment - BLIND
PEBS-20	Short Perceived Employment Barriers Scale
PIV	Personal Identity Verification
PTSD	Post Traumatic Stress Disorder
Q-LES-Q-SF	Quality of Life Enjoyment and Satisfaction Questionnaire – Short Form
SPP	Suicide Prevention Package
SQA	Software Quality Assurance
STAI	State-Trait Anxiety Inventory
STMS	Short Test of Mental Status
VA	Department of Veterans Affairs
VAMC	Veterans Affairs Medical Center
VistA	Veterans Health Information System and Technology Architecture
YMRS	Young Mania Rating Scale