Mental Health YS*5.01*182

Deployment, Installation, Backout, and Rollback Guide

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Version 1.0

Department of Veterans Affairs

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Revision History

Date	Version	Description	Author
10/18/2021	1.0	Initial Version	Liberty IT Solutions

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1 Introduction

This document describes how to deploy and install the patch YS*5.01*182 of the Mental Health package, as well as how to back out the product and roll back 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*182 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.

1.3 Constraints

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*182. This is a VistA patch that will be deployed via the normal Mailman 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
Regional IT	Installation	Plan and schedule installation	Release
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*182 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 September 2021.

3.2 Site Readiness Assessment

This section discusses the locations that will receive the YS*5.01*182 deployment.

3.2.1 Deployment Topology (Targeted Architecture)

YS*5.01*182 will be deployed to each VistA instance. This includes local sites as well as regional data centers. A corresponding update to the MHA Web application will be made in the Azure VA Enterprise Cloud.

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*182 will be deployed to all VistA systems.

The Production IOC testing sites are:

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

3.2.3 Site Preparation

YS*5.01*182 requires a fully patched VistA system.

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*182 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.

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.

Routine Name: YS182PST  Before:       n/a  After:  B6355081  **182**
Routine Name: YTQAPI     Before: B18133059  After: B18593897  **85,130,141,182**
Routine Name: YTQRCAT    Before:       n/a  After: B42497178  **182**
Routine Name: YTQREST    Before: B16134782  After: B18216959  **158,178,182**
Routine Name: YTQREST0   Before:  B7781538  After:  B8623741  **130,178,182**
Routine Name: YTQRIS     Before: B90480805  After: B99568712  **130,141,182**
Routine Name: YTQRQAD1   Before: B87154790  After: B94482754  **130,141,178,182**
Routine Name: YTQRQAD2   Before: B45041984  After: B46192834  **130,141,173,178,182**
Routine Name: YTQRQAD3   Before: B40827460  After: B42257210  **130,141,158,178,182**
Routine Name: YTQRQAD4   Before: B97950328  After: B99761746  **158,178,182**
Routine Name: YTQRQAD5   Before: B53729604  After: B48936796  **158,178,182**
Routine Name: YTSCAT     Before:       n/a  After: B37650998  **182**
```

4.3 Access Requirements and Skills Needed for the Installation

Installation of YS*5.01*182 requires access to Kernel Installation and Distribution System (KIDS) options to be able to load and install the KIDS build.

4.4 Installation Procedure

```
Pre/Post Installation Overview:
The post-install will apply updates to mental health instrument files.
The post installation routine, YS182PST, may be deleted after the
installation completes

Pre-Installation Instructions:
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,

    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*182)

        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. You must use this option and specify
        what to backup; the entire Build or just Routines.
        The backup message can be used to restore the routines
        and components of the build to the pre-patch condition.


            i.   At the Installation option menu, select Backup
                 a Transport Global
            ii.  At the Select INSTALL NAME prompt, enter your
                 build YS*5.01*182
            iii. When prompted for the following, enter "R" for
                 Routines or "B" for Build.

                  Select one of the following:

                       B          Build
                       R          Routines

                   Enter response: Build

            iv.  When prompted "Do you wish to secure this message? NO//",
                 press <enter> and take the default response of "NO".
            v.   When prompted with, "Send mail to: Last name, First
                 Name", press <enter> to take default recipient. Add
                 any additional recipients.
            vi.  When prompted with "Select basket to send to: IN//",
                 press <enter> and take the default IN mailbox or select
                 a different mailbox.


    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.

               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 Installation Verification Procedure

This patch adds support for Computerized Adaptive Testing (CAT). You may verify installation by looking in the MH TESTS AND SURVEYS file (#601.71) for new entries that begin with "CAT-".

```
VA FileMan 22.2

Select OPTION: INQUIRE TO FILE ENTRIES

Output from what File: MH TESTS AND SURVEYS//   (265 entries)
Select MH TESTS AND SURVEYS NAME: CAT-
     1    CAT-ADHD
     2    CAT-ANX
     3    CAT-CAD Interview
     4    CAT-DEP
     5    CAT-MANIA-HYPOMANIA
etc. . . .
```

4.6 System Configuration

The application versions supported by this document are:

- MHA-Web v1.2.23a
- Mental Health Patient Entry v1.1.7a

Note that the Windows version of MHA, MHA 1.0.3.86, does not support the new instruments in this patch. The CAT instruments are only supported in a web browser.

4.7 Database Tuning

No database tuning required.

5 Backout Procedure

5.1 Backout Strategy

This patch updates the Mental Health database with all new records that support CAT. The backout procedure will leave these records in place, but inoperative since they pertain only to those instruments. If there is a compelling reason to back out the new instrument records

themselves, you will need to contact the development team for a patch. The backout procedure below will restore MHA to its state prior to the patch installation.

5.2   Backout Considerations

If the routines related to this patch are removed, CAT will be unavailable in MHA Web and the installation of future patches may cause unpredictable results. Users will not have access to new CAT interviews.

5.3   Backout Criteria

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

5.4   Backout Risks

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

5.5   Authority for Backout

The VistA system manager determines if a back-out of YS*5.01*182 should be considered.

5.6   Backout Procedure

To back out routines, you must have already selected the "Backup a Transport Global" option during the installation process. To restore the previous routines:

1. Choose the PackMan message containing the backup you created during installation.
2. Invoke the INSTALL/CHECK MESSAGE PackMan option.
3. Answer YES when prompted: **Warning: Installing this message will cause a permanent update of globals and routines. Do you really want to do this? NO// YES**
4. The routines that were saved in the message will now be restored.

Disable all entries that begin with "CAT-" or "CAD-" by editing the OPERATIONAL field (#10) and the LAST EDIT DATE field (#18) in the MH TESTS AND SURVEYS file (#601.71). Set OPERATIONAL to "Dropped" and set LAST EDIT DATE to "Now".

5.7   Backout Verification Procedure

To verify the backout procedure, use the option "First Line Routine Print" (XU FIRST LINE PRINT) to make sure the routines no longer show patch 182 in the patch list:
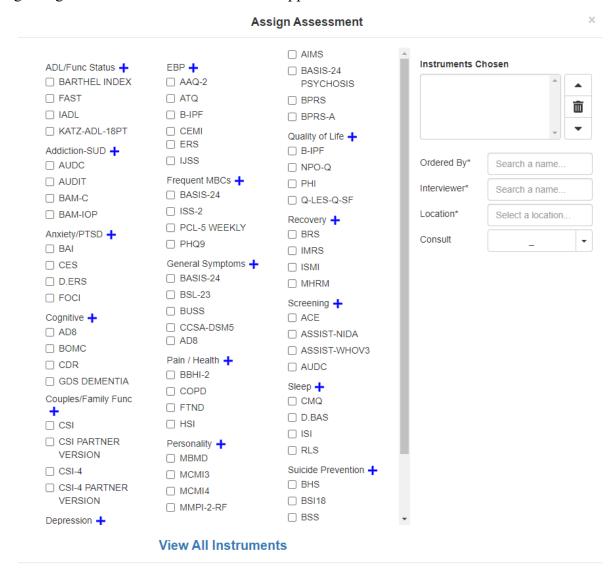
```
PRINTS FIRST LINES

All Routines? No => No

Routine: YTQAPI
Routine: YTQREST
Routine: YTQREST0
Routine: YTQRIS
Routine: YTQRQAD1
Routine: YTQRQAD2
```

```
Routine: YTQRQAD3
Routine: YTQRQAD4
Routine:
8 routines

(A)lpha, (D)ate ,(P)atched, OR (S)ize ORDER: A//
Include line (2), Include lines 2&(3), (N)one: None//2

DEVICE: HOME//   PSEUDO-TERMINAL SLAVE     Right Margin: 80//

               FIRST LINE LIST    UCI: SPPUAT,SPPUAT   07/28/2021
YTQAPI    ;ASF/ALB - MHQ REMOTE PROCEEDURES ; 4/3/07 10:36am
          ;;5.01;MENTAL HEALTH;**85,130,141**;Dec 30, 1994;Build 85
YTQREST   ;SLC/KCM - RESTful API front controller ; 1/25/2017
          ;;5.01;MENTAL HEALTH;**158,178**;Dec 30, 1994;Build 7
YTQREST0  ;SLC/KCM - RESTful API front controller v0 ; 1/25/2017
          ;;5.01;MENTAL HEALTH;**130,178**;Dec 30, 1994;Build 7
YTQRIS    ;SLC/KCM - Instrument Selection RPC's ; 1/25/2017
          ;;5.01;MENTAL HEALTH;**130,141**;Dec 30, 1994;Build 85
YTQRQAD1  ;SLC/KCM - RESTful Calls to handle MHA assignments ; 1/25/2017
          ;;5.01;MENTAL HEALTH;**130,141,178**;Dec 30, 1994;Build 7
YTQRQAD2  ;SLC/KCM - RESTful Calls to set/get MHA administrations ; 1/25/2017
          ;;5.01;MENTAL HEALTH;**130,141,173,178**;Dec 30, 1994;Build 7
YTQRQAD3  ;SLC/KCM - RESTful Calls to set/get MHA administrations ; 1/25/2017
          ;;5.01;MENTAL HEALTH;**130,141,158,178**;Dec 30, 1994;Build 7
YTQRQAD4  ;ISP/MJB - RESTful Calls to handle MHA lists ; 1/25/2017
          ;;5.01;MENTAL HEALTH;**158,178**;Dec 30, 1994;Build 7


          8 ROUTINES
```

Also, run MHA Web, select the + button to assign assessments, and verify that the instruments beginning with "CAT-" or "CAD-" do not appear in the list of checkboxes on the left:

6 Rollback Procedure

6.1 Rollback Considerations

The only additional data that one might roll back after installation of this patch would be the results of CAT interviews administered after the patch is installed, this is not recommended. If it is necessary, please contact the development team for assistance and a possible patch.

6.2 Rollback Criteria

A rollback would be considered if there is erroneous patient data related to CAT interviews.

6.3 Rollback Risks

A rollback could cause the loss of patient information.

6.4 Authority for Rollback

The VistA system manager determines if a rollback of patient data created by CAT interviews because of YS*5.01*182 should be considered.

6.5 Rollback Procedure

Please contact the development team for assistance and a possible patch.

6.6 Rollback Verification Procedure

Verify the rollback by ensuring that the patient information is now correct.

7 Appendix A - Acronyms

Acronym	Definition
CAG	Citrix Access Gateway
CAD	Computerized Adaptive Diagnosis
CAT	Computerized Adaptive Testing
DIBRG	Deployment, Installation, Back-out, and Rollback Guide
IOC	Initial Operating Capability
KIDS	Kernel Installation and Distribution System
MHA	Mental Health Assistant
OIT	Office of Information and Technology
PIN	Personal Identification Number
PIV	Personal Identity Verification
SPP	Suicide Prevention Package
SQA	Software Quality Assurance
SSOi	Single Sign-On Integration
VA	Department of Veterans Affairs
VAMC	Veterans Affairs Medical Center
VIP	Veteran-focused Integration Process
VistA	Veterans Health Information System and Technology Architecture