Mental Health YS*5.01*121

Deployment, Installation, Back-Out, and Rollback Guide

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Revision History

Date	Version	Description	Author
March 2018	1.1	Corrected test sites and updated pagination	<mark>REDACTED</mark>
March 2017	1.0	Updated with team input	<mark>REDACTED</mark>
March 2017	0.01	Initial Version	<mark>REDACTED</mark>

Artifact Rationale

This document describes the Deployment, Installation, Back-out, and Rollback Plan for new products going into the 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 or at multiple locations.

Per the Veteran-focused Integrated Process (VIP) Guide, the Deployment, Installation, Back-out, and Rollback Plan 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.

Table of Contents

1 Introduction

This document describes how to deploy and install the patch YS*5.01*121 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 in this document.

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*121 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 VistA system. In particular, patch YS*5.01*119 must be installed prior to the installation of this patch.

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*121. 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

ID	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
	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
	Release Manager	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)	Release

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
	Sustainment Team	Post Deployment	Hardware, Software and System Support	Sustain

3 Deployment

The deployment is planned as a simultaneous (National Release) rollout.

This section provides the schedule and milestones for the deployment.

3.1 Timeline

The deployment and installation is scheduled to run from March 2017 through June 2017 as depicted in the Master Deployment Schedule in the PCL-5 MHAS Project Management Plan. Refer to *RTC/MHLTH/MHLTH_MHAS_PCL5/ MHLTH_MHAS_PCL5_Documentation (6: UAT Sept_7_2016)/PM/Overarching*.

3.2 Site Readiness Assessment

This section discusses the locations that will receive the YS*5.01*121 deployment.

3.2.1 Deployment Topology (Targeted Architecture)

This will be a patch to VA VistA systems distributed via FORUM.

3.2.2 Site Information (Locations, Deployment Recipients)

This patch will be installed on all VistA instances within the 90 day compliance window after it is nationally released. The test sites are Milwaukee and Orlando.

3.2.3 Site Preparation

Other than a fully patched VistA system, there is no other preparation required.

3.3 Resources

3.3.1 Facility Specifics (optional)

N/A

3.3.2 Hardware

N/A

3.3.3 Software

N/A

3.3.4 Communications

When the patch is released, the notification of the released patch will be sent to VistA sites per the usual mechanism via FORUM.

When sites choose to install the patch, they should notify users of the Mental Health packages about the installation and updates to Mental Health instruments.

4 Installation

4.1 Pre-installation and System Requirements

Mental Health patch YS*5.01*119 must be installed prior to the installation of YS*5.01*121. The environment check for YS*5.01*121 will verify this.

4.2 Platform Installation and Preparation

Mental Health patch YS*5.01*119 must be installed prior to the installation of YS*5.01*121. The environment check for YS*5.01*121 will verify this.

This patch installs new instruments that will consume about 2MB of disk space in the ^XTMP global during installation. The growth of the ^YTT global will be about 1MB.

This patch can be loaded with users in the system but it is recommended that it be installed when user activity is low. Installation time will be less than 5 minutes.

It is recommended that you use the "Backup a Transport Global" option that is referenced in the installation instructions. This will be useful should it be decided to back out the installation.

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: YS121PST
    Before:       n/a   After: B23620999  **121**
Routine Name: YSASA2
    Before: B23828407   After: B24374661  **24,30,32,38,121**
Routine Name: YSASFM
    Before: B12459768   After: B13567691  **24,30,32,37,38,55,76,121**
Routine Name: YSASGPH
    Before:  B9594402   After: B10438975  **24,30,37,121**
Routine Name: YSASLIB
    Before: B12975057   After: B13582273  **24,37,121**
Routine Name: YSASOL
    Before: B29236654   After: B30117483  **24,30,32,38,121**
Routine Name: YSASPRT
    Before:  B4817471   After:  B5189916  **24,30,38,76,121**
Routine Name: YSASRU
    Before: B24470974   After: B24477197  **24,30,32,38,55,106,121**
Routine Name: YSASRU1
    Before:  B6081972   After:  B6409525  **24,30,32,38,121**
Routine Name: YSASSEL
    Before: B23674748   After: B27844186  **24,30,38,76,121**
Routine Name: YSASU
```

```
     Before: B22089171   After: B23877912  **38,121**
Routine Name: YSASU1
     Before:  B7082344   After:  B7521838  **38,121**
Routine Name: YTQAPI1
     Before: B28272751   After: B28881859  **85,119,121**
Routine Name: YTQAPI14
     Before: B30749913   After: B31797790  **85,97,96,103,119,121**
Routine Name: YTQAPI2
     Before: B23429482   After: B24402405  **85,96,119,121**
Routine Name: YTQAPI2A
     Before:       n/a   After: B20357821  **121**
Routine Name: YTQAPI8
     Before: B32771511   After: B33168164  **85,121**
Routine Name: YTQAPI9
     Before: B29675237   After: B30004209  **85,96,119,121**
Routine Name: YTXCHG
     Before:       n/a   After: B53596106  **121**
Routine Name: YTXCHGE
     Before:       n/a   After: B29307956  **121**
Routine Name: YTXCHGI
     Before:       n/a   After: B54913462  **121**
Routine Name: YTXCHGL
     Before:       n/a   After: B41031528  **121**
Routine Name: YTXCHGM
     Before:       n/a   After: B68668785  **121**
Routine Name: YTXCHGP
     Before:       n/a   After: B14086583  **121**
Routine Name: YTXCHGS
     Before:       n/a   After:  B897882  **121**
Routine Name: YTXCHGT
     Before:       n/a   After: B19049216  **121**
Routine Name: YTXCHGU
     Before:       n/a   After: B33209921  **121**
Routine Name: YTXCHGV
     Before:       n/a   After: B28434999  **121**
Routine Name: YTXUTL
     Before:       n/a   After:  B4333737  **121**

Routine list of preceding patches: 76, 106, 119
```

4.3 Access Requirements and Skills Needed for the Installation

The installation must be performed by someone with access to the KIDS Install menu.

4.4 Installation Procedure

1. Choose the PackMan message containing this patch and invoke the INSTALL/CHECK MESSAGE PackMan option.

2. Start up the Kernel Installation and Distribution System Menu [XPD MAIN]:

```
        Edits and Distribution ...
        Utilities ...
        Installation ...

    Select Kernel Installation & Distribution System Option: Installation

        1       Load a Distribution
        2       Verify Checksums in Transport Global
        3       Print Transport Global
        4       Compare Transport Global to Current System
        5       Backup a Transport Global
        6       Install Package(s)
                Restart Install of Package(s)
                Unload a Distribution
```

3. From this menu, you may elect to use the following options (When prompted for the INSTALL NAME, enter YS*5.01*121):

   a. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.

   b. 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 components of this patch (routines, DD's, templates, etc.).

   c. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.

4. Use the Install Package(s) option and select the package YS*5.01*121.

   a. When prompted "Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//", answer NO.

   b. When prompted "Want KIDS to INHIBIT LOGONs during the install? NO//", answer NO.

   c. When prompted "Want to DISABLE Scheduled Options and Menu Options and Protocols? NO//", answer NO.

4.5 Installation Verification Procedure

After installation, notify mental health package users that the following new instruments are available:

```
Alcohol Smoking and Substance Involvement Screening
- NIDA modified version                              ASSIST-NIDA
Brief Resiliency Scale                               BRS
Cross-Cutting Symptom Assessment for DSM-5           CCSA-DSM5
Client Evaluation of Motivational Interviewing       CEMI
Couple Satisfaction Index                            CSI
Couple Satisfaction Index - 4 Item                   CSI-4
Couple Satisfaction Index Partner Version            CSI PARTNER VERSION
Couple Satisfaction Index - 4 Item Partner Version   CSI-4 PARTNER
                                                     VERSION
Geriatric Anxiety Inventory                          GAI
Insomnia Severity Index                              ISI
Modified Katz Index of ADLs                          KATZ-ADL-6pt
Pain Stages of Change Questionnaire                  PSOCQ
Perceived Stress Scale                               PSS
Restless Legs Syndrome Rating Scale                  RLS
Smith Morning-Evening Scale                          SMEQ
Sleep Need Questionnaire                             SNQ
Snoring, Tired, Observed, Blood Pressure             STOP
```

These instruments are no longer available:

```
Alcohol Use Inventory (Revised)                      AUIR
Center for Epidemiologic Studies Depression Scale
  (5-item version)                                   CESD5
Depression Outcome Module 8.0                        DOM80
Depression Outcomes Module: Geriatric Screen         DOMG
Employment Readiness Scale                           ERS
Health Locus of Control Scale                        HLOC
Rotter Internal-External Scale                       IEQ
Rotter Locus of Control                              RLOC
Spiritual Assessment Inventory                       SAI
Crowne-Marlowe Social Desirability Scale             SDES
Short Michigan Alcoholism Screening Test             SMAST
Validity Scale                                       VALD
Ward Atmosphere Scale                                WAS
```

4.6 System Configuration

N/A

4.7 Database Tuning

N/A

5 Back-Out Procedure

5.1 Back-Out Strategy

It is possible to partially back-out the installation of YS*5.01*121. This would involve restoring instrument specifications to their previous state and then restoring the saved routines. The back-out of changes to the data dictionary would require a patch to a patch.

5.2 Back-Out Considerations

Please contact VistA support and the development team before attempting a back-out. The back-out procedure will still leave some changes in place. In addition, the installation of subsequent patches may be problematic if YS*5.01*121 is not installed.

5.3 Back-Out Criteria

A back-out should only be considered if there is a patient safety issue, if Mental Health Assistant 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 Mental Health package would be left in an unknown configured state.

5.5 Authority for Back-Out

The VistA system manager determines if a back-out of YS*5.01*121 should be considered.

5.6 Back-Out Procedure

If you wish to restore newly installed instruments to their previous state, you must do that before any other back-out steps. See the instructions for restoring the previous instrument state in the Rollback Procedure section to do this.

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. Select Kernel Installation & Distribution System Option: Installation
4. Use the Install Package(s) option to install the previously saved routines.

If you need to back-out data dictionary modifications, remove protocols, options, or templates, you will need to contact the development team for a patch.

5.7 Back-out Verification Procedure

Verification of the back-out procedure would be the resolution of the problem that caused the need for the back-out.

6 Rollback Procedure

6.1 Rollback Considerations

YS*5.01*121 adds new and updates existing mental health instruments. It is possible to roll back these changes within one week of the installation.

6.2 Rollback Criteria

A rollback might be considered if the behavior of mental health instruments appears to be adversely affected after installation of YS*5.01*121. The VistA support and product development team should be contacted to determine if there is an alternative fix short of a rollback.

6.3 Rollback Risks

A rollback could adversely impact future installations of mental health instruments and cause problems with scoring existing mental health instruments.

6.4 Authority for Rollback

The VistA system manager determines if a rollback of mental health instruments distributed by YS*5.01*121 should be considered.

6.5 Rollback Procedure

When YS*5.01*121 is installed, a backup is made of each instrument that will be updated. These instrument backups are saved in the MH INSTRUMENT EXCHANGE file. Each backup begins with the text "YTBackup" followed by the instrument name.

You must possess the XUPROG key to view backup entries.

On the MHA3 Utilities menu (YTQ MHA3 MENU), run the "Instrument Exchange" option. You will see something like this screen:

```
Instrument Exchange          Mar 14, 2017@09:25:59      Page:    1 of    3
Instrument Exchange File Entries

+     Entry                      Source              Created
4     YTBackupASSIST-NIDA-2017-03-14 backup copy     03/14/2017@09:16:57
5     YTBackupBRS-2017-03-14         backup copy     03/14/2017@09:16:58
6     YTBackupCCSA-DSM5-2017-03-14   backup copy     03/14/2017@09:16:59
7     YTBackupCEMI-2017-03-14        backup copy     03/14/2017@09:16:59
8     YTBackupCIWA-AR--2017-03-14    backup copy     03/14/2017@09:17
9     YTBackupCSI PARTNER VERSION-20 backup copy     03/14/2017@09:17:01
10    YTBackupCSI-2017-03-14         backup copy     03/14/2017@09:17
11    YTBackupCSI-4 PARTNER VERSION- backup copy     03/14/2017@09:17:01
12    YTBackupCSI-4-2017-03-14       backup copy     03/14/2017@09:17:01
13    YTBackupGAI-2017-03-14         backup copy     03/14/2017@09:17:02
+            Enter ?? for more actions
CE   (Create New Entry)    CH   (Create Host File)    DR   Trial Install <Dry Run>
RB   (Rebuild Entry)       LH   Load Host File        IE   Install Exchange Entry
DL   Delete Entry          LU   Load from URL         BR   Browse Specification
Select Action: Next Screen//
```

Optionally, if you want to see how many records will be restored, choose "Trial Install" then select the number of the backup you wish to restore.

When you are ready to restore an instrument, choose "Install Exchange Entry" then select the number of the backup you want to restore.

6.6 Rollback Verification Procedure

Verify the restore by checking to see that the instrument behaves as it did prior to the install.