Collaborative Terminology Tooling & Data Management (CTT&DM)

Native Domain Standardization (NDS)

Text Integration Utility (TIU)

Deployment, Installation, Back-Out, and Rollback Guide

TIU\*1.0\*309



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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.

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# Introduction

This document describes how to deploy and install TIU Native Domain Standardization patch TIU\*1.0\*309, 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.

## Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom the TIU Native Domain Standardization patch TIU\*1.0\*309 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.

## Dependencies

The TIU Native Domain Standardization patch TIU\*1.0\*309 possesses a direct application dependency on the VistA Text Integration Utility (TIU) v.1.0 application, and an indirect application dependency on Computerized Patient Record System (CPRS) v.1.0.

The TIU Native Domain Standardization patch TIU\*1.0\*309 possesses a specific patch dependency on Kernel patch XU\*8.0\*675.

## Constraints

TIU Native Domain Standardization patch TIU\*1.0\*309 possesses the following constraints:

* The update to the VistA package file #8926.1 shall not affect the current functionality or conflict with applications that utilize these files.
* The field being added to these files should only be visible on the back end and to those requesting the information, not the GUI applications used by clinicians within the VA.
* There is a need to map the active VA Standard Titles within the TIU VHA Enterprise Standard Title (#8926.1) file to their corresponding LOINC DO codes by means of a third party mapping team prior to implementing any data within this file.
* The data for the VistA package file (#8926.1) file has previously been mapped in a prior effort and is ready for implementation after a final review from the third party mapping team.

# Roles and Responsibilities

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

| ID | Team | Phase / Role | Tasks | Project Phase (See Schedule) |
| --- | --- | --- | --- | --- |
|  | OIT Regional Support | Deployment | Plan and schedule deployment (including orchestration with vendors) |  |
|  | CTT&DM NDS Project Team | Deployment | Determine and document the roles and responsibilities of those involved in the deployment. |  |
|  | OIT Regional Support | Deployment | Test for operational readiness  |  |
|  | OIT Regional Support | Deployment | Execute deployment |  |
|  | OIT Regional Support | Installation | Plan and schedule installation  |  |
|  | CTT&DM NDS Project Team | Installations | Coordinate training  |  |
|  | OIT Regional Support | Back-out | Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)  |  |
|  | CTT&DM NDS Project Team | Post Deployment – Warranty Period | Hardware, Software and System Support |  |
|  | OIT Reginal Support | Post Deployment – Post Warranty | Hardware, Software and System Support |  |

# Deployment

The deployment is planned as a concurrent online rollout. During IOC testing and after national release, patch TIU\*1.0\*309 will be distributed via the FORUM Patch Module, and may be deployed at any site without regard to deployment status at other sites.

## Timeline

The deployment and installation is scheduled to run for a period of thirty days, as depicted in the master deployment schedule

## Site Readiness Assessment

This section discusses the locations that will receive the CTT&DM NDS patch TIU\*1.0\*309 deployment.

The TIU\*1.0\*309 patch must be manually installed, or manually queued for installation, at each VistA instance at which it is deployed, using the standard Kernel Installation Distribution System (KIDS) software. The TIU\*1.0\*309 patch should be installed at all VA VistA instances running the CPRS and TIU applications, and will update the M (Mumps) server software in each VistA instance’s TIU namespace.

### Deployment Topology (Targeted Architecture)

The deployment topology for the CTT&DM NDS patch TIU\*1.0\*309, during IOC testing and after national release, is described below:

Figure 1: Patch TIU\*1.0\*309 Topology



### Site Information (Locations, Deployment Recipients)

During IOC testing, CTT&DM NDS patch TIU\*1.0\*309 will be deployed at the following sites:

NEW YORK HARBOR HCS

PALO ALTO HCS

After national release, CTT&DM NDS patch TIU\*1.0\*309 will be deployed at all sites running the CPRS and TIU applications.

### Site Preparation

No special preparation is required by the site prior to deployment.

## Resources

Deployment of CTT&DM NDS patch TIU\*1.0\*309 requires an up to date VistA environment running the CPRS v.1.0, TIU v.1.0, and Kernel v.8.0 applications, as well as a Health Product Support (HPS) team member available to perform the patch installation.

### Facility Specifics

There are no facility-specific deployment or installation features of CTT&DM NDS patch TIU\*1.0\*309.

### Hardware

CTT&DM NDS patch TIU\*1.0\*309 requires no site hardware specifications during, or prior to, deployment.

### Software

The following table describes software specifications required at each site prior to deployment.

Table 2: Software Specifications

| Required Software | Make | Version | Configuration | Manufacturer | Other |
| --- | --- | --- | --- | --- | --- |
| CPRS |  | 1.0 | Standard | VHA |  |
| TIU |  | 1.0 | Standard | VHA |  |
| Kernel patch XU\*8.0\*675 |  | 8.0 | Standard | VHA |  |

Please see the Roles and Responsibilities table in Section 2 above for details about who is responsible for preparing the site to meet these software specifications.

### Communications

No notifications are required for deployment of CTT&DM NDS patch TIU\*1.0\*309.

#### Deployment/Installation/Back-Out Checklist

Table 3: Deployment/Installation/Back-Out Checklist

| Activity | Day | Time | Individual who completed task |
| --- | --- | --- | --- |
| Deploy |  |  |  |
| Install |  |  |  |
| Back-Out |  |  |  |

# Installation

## Pre-installation and System Requirements

Pre/Post Installation Overview:

It is recommended that a Local Patch Backup is created that can be re-installed in the event that patch TIU\*1.0\*309 must be backed out. The approximate time to create the saved local patch is 30 minutes.

**Patch Dependencies**

Patch XU\*8.0\*675 must be installed prior to installing this patch.

Knowledge of, and experience with, the Kernel Installation and Distribution System (KIDS) software is required. For more information, see Section V, Kernel Installation and Distribution System, in the [Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide.](http://www.va.gov/VDL/documents/Infrastructure/Kernel/krn8_0sm.docx)

Pre-Installation Instructions:

Creating a Local Patch Backup

Perform the following procedure to create a Local Patch Backup.

1. From the KIDS (Kernel Installation & Distribution System) Menu, select ‘Edits and Distribution’.
2. Select ‘Create a Build Using Namespace’.
3. Enter a local patch name and identifier; (for example: ZTIU\*1.0\*309).
4. When prompted ‘BUILD PACKAGE FILE LINK:’, press <Enter>.
5. When prompted ‘BUILD TYPE: SINGLE PACKAGE//’, press <Enter>.
6. When prompted ‘BUILD TRACK PACKAGE NATIONALLY: YES//’, enter NO.
7. When prompted ‘Namespace:’, press <Enter>.
8. When prompted ‘Select Edits and Distribution Option’, select: ‘Edit a Build’.
9. Enter the local patch name from step 3 (Ex: ZTIU\*1.0\*309).
10. For the ‘Description:’ enter the following: “this is a local backup for TIU\*1.0\*309. This patch should only be installed in the event that TIU\*1.0\*309 needs to be backed out.”
11. In the ‘COMMAND:’ field, enter ‘Next Page’.
12. For ‘File List’ Enter 8926.1 for TIU VHA ENTERPRISE STANDARD TITLE File.
13. In ‘Send Full or Partial DD’ field, enter PARTIAL.
14. In ‘Data Dictionary Number:’ window, enter 8926.1 for TIU VHA ENTERPRISE STANDARD TITLE File.
	1. At the prompt, “Are you adding 'TIU VHA ENTERPRISE STANDARD TITLE (File-top level)' as a new DD NUMBER? No//”, enter YES.
15. Field Number: press <Enter>.
16. In the ‘COMMAND:’ enter ‘Close’
17. In the first blank text line in the ‘Data Dictionary Number:’ window (below the TIU VHA ENTERPRISE STANDARD TITLE entry), enter 8926.12 for the sub-file representing the CODING SYSTEM multiple.
	1. If the sub-file is not selectable, continue to the next step.
	2. Are you adding 'CODING SYSTEM (sub-file)' as a new DD NUMBER? No//, enter YES.
18. In the ‘Field Number:’ window, tab or arrow down to the ‘COMMAND:’ prompt and enter Close.
19. At ‘COMMAND:’ (for the Data Dictionary Number window) enter ‘Close’
20. The ‘DD Export Options’ window should display.
21. In the ‘Update the Data Dictionary:’ field, enter YES.
22. In the ‘Send Security Code:’ field, enter YES.
23. In the ‘Data Comes With File:’ field, enter NO.
24. In the ‘COMMAND:’ field in the ‘DD Export Options’ window, enter ‘Close’
25. In the ‘COMMAND:’ field in the ‘File List’ window, enter ‘Next Page’.
26. Down arrow to ‘ROUTINE’ and press <Enter>.
27. In the ‘Routine’ window, enter TIUDD61, and ‘SEND TO SITE’.
28. In the ‘Routine’ window, enter TIUZRT, and ‘SEND TO SITE’.
	1. If TIUZRT does not exist, it will not be selectable. Continue to the next step.
29. In the ‘COMMAND:’ field in the ‘Routine’ window, enter ‘Close’.
30. In the ‘COMMAND:’ field in the ‘Build Components’ window, enter ‘Save’, then enter ‘Exit’.
31. On the Menu select ‘Transport a Distribution’.
32. Enter the ‘local package name and identifier’ that was created in Step 3.
33. At the ‘Another Package Name:’ press <Enter>.
34. At the ‘OK to continue? Prompt, select YES//’ press <Enter>.
35. If creating a Host File transport, perform the following steps:
	1. At the ‘Transport through (HF) Host File or (PM) PackMan:’ prompt, enter HF.
	2. At the ‘Enter a Host File:’ prompt, enter the system file to which the Local Patch Backup will be saved, for example: ZTIU\_1\_309.KID).
	3. At the ‘Header Comment:’ Enter ‘Local Backup of TIU\*1.0\*309’.
	4. At the Edits and Distribution Menu, press <Enter>.
	5. At the KIDS Menu press <Enter>.
36. If creating a PackMan transport, perform the following steps:
	1. At the ‘Transport through (HF) Host File or (PM) PackMan:’ enter PM.
	2. At the ‘Header Comment:’ enter ‘Local Backup of TIU\*1.0\*309’
	3. For the description of Packman Message, Enter: ‘This is a saved backup for the lab patch install for TIU\*1.0\*309. This local build will be used in the event that the above mentioned installs need to be backed out.’
	4. At ‘EDIT Option:’ press <Enter>.
	5. At the ‘Do you wish to secure this message? NO// prompt, Enter ‘NO’.
	6. At the ‘Send mail to:’ prompt, Enter your name.
	7. At the ‘Select basket to send to: IN//’ prompt: press <Enter>.
	8. At the ‘And Send to:’ prompt: Enter any additional persons that may need to have the local patch.
	9. At The ‘Select Edits and Distribution <TEST ACCOUNT> Option:’ press <Enter>.

## Platform Installation and Preparation

Patch TIU\*1.0\*309 does not require any platform installation or preparation.

## Download and Extract Files

CTT&DM NDS patch TIU\*1.0\*309 is being released as a FORUM Patch via the Patch Module, therefore, the patch must be downloaded from FORUM, and forwarded to the destination site, in the form of a Packman message.

Documentation describing the new functionality introduced by this patch is available. The preferred method is to retrieve files from download.vista.med.va.gov. This transmits the files from the first available server. Sites may also elect to retrieve files directly from a specific server.

Sites may retrieve the software and/or documentation directly using Secure File Transfer Protocol (SFTP) from the ANONYMOUS.SOFTWARE directory at the following OI Field Offices:

Albany: REDACTED

Hines: REDACTED

Salt Lake City: REDACTED

The documentation will be in the form of Adobe Acrobat files. Documentation can also be found on the VA Software Documentation Library at: http://www4.va.gov/vdl/

Title: TIU Technical Manual TIU\_1\_309 Update

File Name: tiutm.doc

 tiutm.pdf

FTP Mode: Binary

Title: Deployment, Installation, Back-Out, Rollback Guide TIU\_1\_309

File Name: tiu\_1\_0\_309\_ig.doc

 tiu\_1\_0\_309\_ig.pdf

FTP Mode: Binary

## Database Creation

No new database is required for the CTT&DM NDS patch TIU\*1.0\*309.

## Installation Scripts

No installation scripts are required for installation of CTT&DM NDS patch TIU\*1.0\*309.

## Cron Scripts

No CRON scripts are required for installation of CTT&DM NDS patch TIU\*1.0\*309.

## Access Requirements and Skills Needed for the Installation

Access to national VA network, as well as the local network of each site to receive CTT&DM NDS patch TIU\*1.0\*309 is required to perform the installation, as well as authority to create and install patches.

Knowledge of, and experience with, the Kernel Installation and Distribution System (KIDS) software is required. For more information, see Section V, Kernel Installation and Distribution System, in the [Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide.](http://www.va.gov/VDL/documents/Infrastructure/Kernel/krn8_0sm.docx)

## Installation Procedure

Installation Instructions:

1. Choose the PackMan message containing this patch.
2. Choose the INSTALL/CHECK MESSAGE PackMan option.
3. From Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following options. When prompted for the INSTALL NAME, enter the patch TIU\*1.0\*309:
4. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup other changes such as DDs or templates.
5. 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, DDs, templates, etc.).
6. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.
7. From the Installation Menu, select the Install Package(s) option and choose the patch to install.
8. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond NO.
9. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond NO.
10. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond NO.
11. If prompted 'Delay Install (Minutes): (0 - 60): 0//' respond 0.

## Installation Verification Procedure

Installation of CTT&DM NDS patch TIU\*1.0\*309 may be verified by running the Kernel checksum tool from the VistA server command line after installation:

D CHECK1^XTSUMBLD

The checksums produced by the checksum tool should match the numeric portion of the “After:” checksums in the CTT&DM NDS patch TIU\*1.0\*309 patch description.

Example, Checksum for routines as displayed by Kernel checksum tool CHECK1^XTSUMBLD:

TIUDD61 value = B110642266

TIUZRT value = B8873406

The “After:” checksum for routines as displayed in the patch description:

Routine Name: TIUDD61

 Before: B9982481 After: B11064226 \*\*225,309\*\*

Routine Name: TIUZRT

 Before: n/a After: B8873406 \*\*309\*\*

##  System Configuration

No System Configuration is required before or after deployment of CTT&DM NDS patch TIU\*1.0\*309.

## Database Tuning

No Database Tuning is required before or after deployment of CTT&DM NDS patch TIU\*1.0\*309.

# Back-Out Procedure

**NOTE:** Due to the complexity of this patch (because of the data dictionary changes), it is not recommended for back-out. However, in the event that a site decides to back-out this patch, the site should contact the National Service Desk (NSD) to submit a CA SDM ticket; the development team will assist with the process.

Perform the back-out procedure to load the locally made patch created in Section 4. The back-out is to be performed by persons with programmer-level access, **and in conjunction with the STS team.**

## Back-Out Strategy

The Back-out Strategy is to load the locally made patch that was created in Section 4.

## Back-Out Considerations

The back-out should only be done in the event that the local facility management determines that the patch TIU\*1.0\*309 is not appropriate for that facility, and should only be done as a last resort.

### Load Testing

No load testing is required for patch TIU\*1.0\*309.

### User Acceptance Testing

N/A

## Back-Out Criteria

Local Facility Management would need to determine patch TIU\*1.0\*309 is not appropriate for their facility.

## Back-Out Risks

By backing out TIU\*1.0\*309, the local facility will not be able to use TIU to update LOINC codes from the respective Standards Development Organizations.

## Authority for Back-Out

The Local Facility Management has the authority to back-out patch TIU\*1.0\*309.

## Back-Out Procedure

**NOTE:** Due to the complexity of this patch (because of the data dictionary changes), it is not recommended for back-out. However, in the event that a site decides to back-out this patch, the site should contact the National Service Desk (NSD) to submit a CA SDM ticket; the development team will assist with the process.

Perform the back-out procedure to load and install the locally made patch created in Section 4.2, and to delete the new CODING SYSTEM (#2) multiple in the TIU VHA ENTERPRISE STANDARD FILE (#8926.1) file. The back-out is to be performed by persons with programmer-level access, **and in conjunction with the STS team.**

The following is an example of the steps that would be exercised for the CODING SYSTEM (#2) multiple field being removed. The backout is to be performed by persons with programmer-level access, **and in conjunction with the STS Team**. File Manager should be used to delete the new CODING SYSTEM (#2) multiple field added with TIU\*1.0\*309. This will automatically also remove all sub-fields and data.

**Back-Out Procedure**

The following will need to be executed from the programmers prompt (User input depicted below in ***bold italicized*** font):

Delete CODING SYSTEM multiple, subfields, and data from TIU VHA ENTERPRISE STANDARD TITLE (#8926.1) file:

D P^DI

Select OPTION: MODIFY FILE ATTRIBUTES

Do you want to use the screen-mode version? YES// NO

MODIFY WHAT FILE: // 8926.1 TIU VHA ENTERPRISE STANDARD TITLE (#8926.1)

 (2346 entries)

Select FIELD: CODING SYSTEM (multiple)

LABEL: CODING SYSTEM// @

 SURE YOU WANT TO DELETE THE ENTIRE 'CODING SYSTEM' FIELD? Y (Yes)

OK TO DELETE 'CODING SYSTEM' FIELDS IN THE EXISTING ENTRIES? Yes// Y (Yes).....

The steps for the load and installation of the locally made patch are very similar to the installation steps listed in section 4.8.

1. Choose the PackMan message containing this patch.
2. Choose the INSTALL/CHECK MESSAGE PackMan option.
3. From Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following options. When prompted for the INSTALL NAME, enter the local patch from section 4.8 (for example: ZZZ\*1.0\*004).
4. From the Installation Menu, select the Install Package(s) option and choose the patch to install.
5. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond NO.
6. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond NO.
7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//' , respond NO.
8. If prompted 'Delay Install (Minutes): (0 - 60): 0//' respond 0.

## Back-out Verification Procedure

**ROUTINES**

After backing out patch TIU\*1.0\*309 by installing the local patch from section 4.8, routine back-out may be verified by running the Kernel checksum tool from the VistA server command line after installation:

D CHECK1^XTSUMBLD

The checksums produced by the checksum tool should match the numeric portion of the “Before:” checksums in the CTT&DM NDS patch TIU\*1.0\*309 patch description.

**DATA DICTIONARIES**

After backing out Patch TIU\*1.0\*309, successful back-out of the CODING SYSTEM (#2) multiple field in the TIU VHA ENTERPRISE STANDARD TITLE (#8926.1) may be verified by running a global listing from the VistA server command line after installation. A global listing should be performed for the following global nodes, after which nothing should be listed if back-out was successful:

Global ^DD(8926.12,

Global ^DD(8926.121,

Example:

D ^%G

Device:

Right Margin:

Screen size for paging (0=nopaging)? =>

Global ^DD(8926.12 -- NOTE: translation in effect

<nothing should print>

Global ^DD(8926.121 -- NOTE: translation in effect

<nothing should print>

# Rollback Procedure

N/A

## Rollback Considerations

N/A

## Rollback Criteria

N/A

## Rollback Risks

N/A

## Authority for Rollback

N/A

## Rollback Procedure

N/A

## Rollback Verification Procedure

N/A