

CRHD*1.0*7

Shift Handoff Tool

Deployment, Installation, Back-Out, & Rollback Guide



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1/2018	Initial Release	CRHD*1.0*7	REDACTED

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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1. Introduction

This document describes how to deploy and install the Shift Handoff Tool v1.0.7.1, 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 cases where a non-developed COTS product is being installed, the vendor provided User and Installation Guide may be used, but the Back-Out Recovery strategy still needs to be included 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 the Shift Handoff Tool v1.0.7.1 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

The Shift Handoff Tool v1.0.7.1 project is for installation on a fully patched Vista system. There is also a Graphical User Interface (GUI) component that should be running on a Windows system.

1.3. Constraints

Shift Handoff Tool v1.0.7.1 and the associated M patch are expected to be installed on existing Vista platforms. The hardware may reside at local or regional data centers. Shift Handoff Tool v1.0.7.1 utilizes existing, nationally released security controls to control access.

2. Roles and Responsibilities

No one single entity is in charge of decision making for deployment, installation, back out and rollback of Shift Handoff Tool v1.0.7.1. Rather, the Release Agent and Application Coordinators under the Veterans In Process will meet and approve deployment and install from an OI&T perspective. If an issue with the software arises, then the facility CIO and other site leadership will meet along with input from Patient Safety and Health Product Support to initiate a back out and rollback decision of the software along with Region and Site leadership. The following table provides Shift Handoff Tool v1.0.7.1 project information.

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

Team	Phase / Role	Tasks
Site personnel in conjunction with IT support – which may be local or regional.	Deployment	Plan and schedule deployment (including orchestration with vendors)
Site personnel in conjunction with IT support – which may be local or regional.	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.
Site personnel.	Deployment	Test for operational readiness
Site personnel in conjunction with IT support – which may be local or regional. The IT support will need to include person(s) to install the KIDS build as well as the personnel to deploy the GUI – which may be done on each machine, a shared network and/or the Citrix access gateway	Deployment	Execute deployment
Site personnel in conjunction with IT support – which may be local or regional. The IT support will need to include person(s) to install the KIDS build as well as the personnel to deploy the GUI – which may be done on each machine, a shared network and/or the Citrix access gateway	Installation	Plan and schedule installation

Team	Phase / Role	Tasks
N/A – will work under the VistA ATO and security protocols.	Installation	Ensure authority to operate and that certificate authority security documentation is in place
N/A – no equipment is being added.	Installation	Validate through facility POC to ensure that IT equipment has been accepted using asset inventory processes
N/A – no new functionality is being introduced.	Installations	Coordinate training
Facility CIO and IT support – which may be local or regional.	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)
Hardware and System support – no changes. Software support will be the HPS Clinical Sustainment (HPSCLIN) team.	Post Deployment	Hardware, Software and System Support

3. Deployment

The deployment is planned as a standard VistA National Patch Module patch rollout. Once approval has been given to nationally release, the patch CRHD*1.0*7 will be released from the National Patch Module. At this point, it will be available for installation and deployment at all sites.

Scheduling of test/mirror installs, testing and deployment to production will be at the site's discretion. It is anticipated there will be a 30-day compliance period.

3.1. Timeline

There is no timeline specifically for deployment. This is considered a maintenance release and installation will be at the site's discretion, within the constraints of the compliance period for the release.

3.2. Site Readiness Assessment

This section discusses the locations that will receive the Shift Handoff Tool v1.0.7.1 deployment.

3.2.1. Deployment Topology (Targeted Architecture)

Shift Handoff Tool v1.0.7.1 will be deployed to each VistA instance. That will include local sites as well as regional data processing centers. The executable will also be deployed to the Citrix Access Gateway.

3.2.2. Site Information (Locations, Deployment Recipients)

The initial deployment will be to IOC sites for verification of functionality. Once that testing is completed and approval is given for national release, Shift Handoff Tool v1.0.7.1 (CRHD*1.0*7) will be deployed to all VistA systems.

The Production (IOC) testing sites are:

- Madison
- Denver

3.2.3. Site Preparation

There is no special preparation required for Shift Handoff Tool v1.0.7.1. A fully patched VistA system is the only requirement.

3.3. Resources

N/A

3.3.1. Facility Specifics

N/A

3.3.2. Hardware

N/A

3.3.3. Software

N/A

3.3.4. Communications

Service Delivery and Engineering (SDE) Field Implementation Services will be sending out an Action item and National Change Order prior to the release of Shift Handoff Tool v1.0.7.1 advising them of the upcoming release.

Shift Handoff Tool v1.0.7.1 will be deployed using the standard method of patch release from the National Patch Module rather than a phased deployment. When patch CRHD*1.0*7 is released, the National Patch Module will send a notification to all the personnel who have subscribed to those notifications.

3.3.4.1. Deployment/Installation/Back-Out Checklist

The deployment and installation will be performed by site support personnel once it is nationally released.

4. Installation

4.1. Pre-installation and System Requirements

Shift Handoff Tool v1.0.7.1 assumes a fully-patched Vista system.

4.2. Platform Installation and Preparation

[Vista] This patch should be loaded during non-peak hours to minimize disruption to users. Installation will take less than 5 minutes. Users may remain on the system.

[GUI] The time to deploy the GUI will depend on which method the site utilizes for running the executable (network share, Citrix, individual workstation install, etc.)

4.3. Download and Extract Files

Shift Handoff Tool v1.0.7.1 is being released as a PackMan Message distributed through Forum combined with a .ZIP file containing the GUI file(s).

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 [AREDACTED](#) directory at the following

OI Field Offices:

[REDACTED](#)

Documentation can also be found on the VA Software Documentation Library at:

<http://www4.va.gov/vdl/>

Table 2: Shift Handoff Tool v1.0.7.1 Files to be Downloaded

File Name	File Contents	Download Format
CRHD_10_7.ZIP	Shift Handoff Tool executable	Binary

4.4. Database Creation

N/A

4.5. Installation Scripts

N/A

4.6. Cron Scripts

N/A

4.7. Access Requirements and Skills Needed for the Installation

Installation of Shift Handoff Tool v1.0.7.1 requires the following to install:

- Programmer access to VistA instance and ability to install KIDS build.
- Citrix Access Gateway (CAG) installs – access/ability to upload to the CAG.
- Network Share installs – access/ability to upload executable to the network share location.
- Individual work-station installs – access/ability to push executable to required work stations.

4.8. Installation Procedure

4.8.1. CRHD*1.0*7 VistA Installation

1. Choose the PackMan message containing this patch and invoke the INSTALL/CHECK MESSAGE PackMan option.
2. 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, must use the [Backup a Transport Global] option to create a back out Patch
4. Also from this menu, you may elect to use the following options:
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
5. Use the Install Package(s) options and select the package CRHD*1.0*7
6. When prompted “Want KIDS to Rebuild Menu Trees Upon Completion of Install?” respond NO. 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.

4.8.2. Shift Handoff Tool v1.0.7.1 GUI Installation

The ZIP file contains the Shift Handoff Tool GUI executable. Download the ZIP file and extract all the files.

4.8.2.1. Shift Handoff Tool GUI Methods of Installation

The following methods of installation of Shift Handoff Tool are available. Sites' choice of which method(s) to use will depend upon Regional/VISN policies, Local Area Network (LAN) performance or other local circumstances. User requirements, physical location and methods of connection to the VA network may warrant more than one of the options below to be used.

- **Network (shared) installation:**

This method is typically the simplest to maintain, providing the local network infrastructure is robust enough to handle the additional traffic caused by users running the GUI executable (ShiftHandoffTool.exe) across the LAN.

The GUI executable (ShiftHandoffTool.exe), and help file (CRHD.hlp), are copied to a network shared location. Users are provided with a desktop shortcut to run ShiftHandoffTool.exe directly from the network shared drive. The necessary command line parameters (Vista server address or name and RPC Broker Port number) are entered in the "Target" field of the shortcut properties

At the time of a Shift Handoff Tool version update the copy of ShiftHandoffTool.exe and the help file are simply replaced, on the network share, with the new version.

Any users requiring access to another site's Shift Handoff Tool system can be given an alternate desktop shortcut with command line parameters appropriate to the intended target Vista system.

If a user requires access to an older or newer version of Shift Handoff Tool (e.g. for testing purposes) a different version of ShiftHandoffTool.exe can be placed in a separate network location and the user be supplied with an appropriate alternate shortcut (different Target path and different Vista server command line parameters).

- **Citrix installation:**

The GUI executable (ShiftHandoffTool.exe) and help file (CRHD.hlp) are installed and run from a remote workstation, and the user views the remote workstation's screen on their local workstation.

For the local site users, this method is on a similar level to the Network (shared) installation above. The users' workstations require only an appropriate shortcut (and the necessary Citrix Access Group (CAG) infrastructure).

Note: For issues with CAG, please contact your local or national help desk.

For the Citrix Farm administrator, this method involves installations on the host in a similar manner to either the Gold Path or the Direct Access methods outlined below.

- **Local workstation installation:**

Download the ZIP file and extract all the files.

ShiftHandoffTool.exe and the CRHD.hlp Help files will need to be installed in the same directory on workstations.

NOTE: There is a national SCCM package to help sites or ITOPS distribute the ShiftHandoffTool.exe GUI.

- **Manual install:**

This method is used primarily for advanced users and at testing locations.

This method is somewhat changed from that used previously for Windows XP workstations.

1. For Test

- a. Locate the CRHD_10_7.ZIP and unzip the file.
- b. Copy the ShiftHandoffTool.exe to a test directory, for example, C:\ShiftHandoffTest. You may need to create this new directory.

Note: You may need to have a user with Administrator rights complete this step.

- c. Create a Shortcut and name it “Test ShiftChgHandoffv7”. This is to give the user another visual cue that this is not the normal Shift Handoff Tool icon. See Fig 1 below.
- d. Copy the CRHD.hlp file into the same directory as ShiftHandoffTool.exe (for example, c:\ShiftHandoffTest). This file should be in the same directory as the ShiftHandoffTool.exe.
- e. Determine the DNS server name or IP address for the appropriate VistA server.
- f. Determine the Broker RPC port for the VistA account.
- g. Enter IP (or DNS name) and RPC port in the Target field of the Shortcut properties (or use ServerList.exe). See Fig 2 below.

2. For Production

- a. Locate the CRHD_10_7.ZIP and unzip the file.
- b. Copy the ShiftHandoffTool.exe to the production directory, for example, C:\Program Vista (x86)\VistA\ShiftHandoff.

Note: You may need to have a user with Administrator rights complete this step.

- c. Copy the CRHD.hlp file into the same production directory as ShiftHandoffTool.exe (for example, C:\Program Vista (x86)\VistA\ShiftHandoff). This file should be in the same directory as the ShiftHandoffTool.exe.
- d. Determine the DNS server name or IP address for the appropriate VistA server.
- e. Determine the Broker RPC port for the VistA account.
- f. Enter IP (or DNS name) and RPC port in the Target field of the Shortcut properties (or use ServerList.exe). See Fig 2 below.

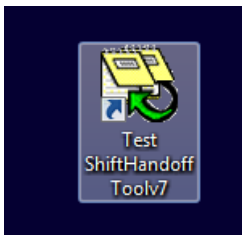


Figure 1: Icon of Shortcut

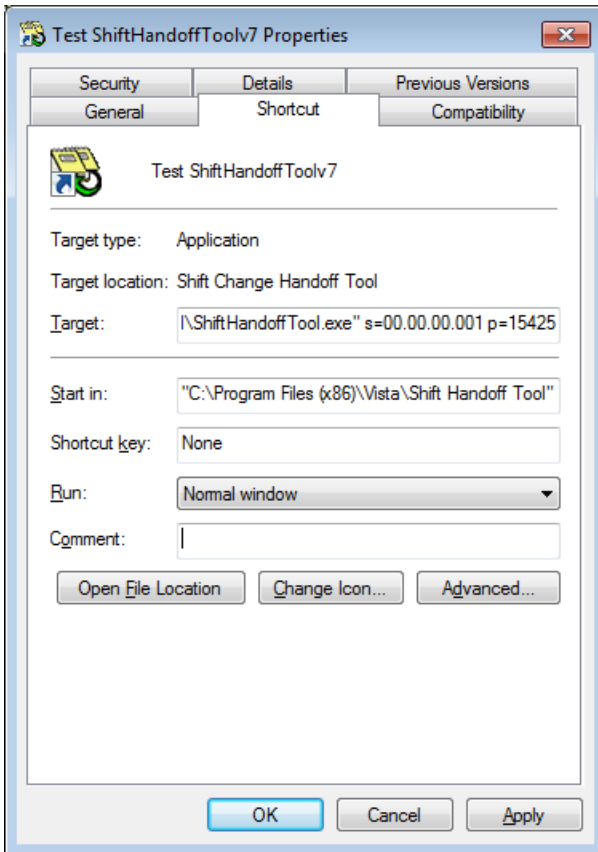


Figure 2: The Test ShiftHandoffToolv7 Properties Tab

Example of what the shortcut properties dialog might look like.

The server and port number shown above are not real and are for example only.

4.9. Installation Verification Procedure

[VISTA] Verify the checksum of routine CRHD9 is equal to the checksum listed on the patch description.

[GUI] Launch the Shift Handoff Tool GUI and verify the splash screen now announces that you are running version 1.0.7.1.

4.10. System Configuration

N/A

4.11. Database Tuning

N/A

5. Back-Out Procedure

5.1. Back-Out Strategy

[VistA] In section 5 (step 3) the individual installing the patch used option [Backup a Transport Global] to create a packman message that will revert the Shift Handoff Tool components to their pre-v1.0.7.1 state. This includes everything transported in the CRHD*1.0*7 (Shift Handoff Tool v1.0.7.1) build. If for any reason that PackMan Message cannot be located, Contact HPSCLIN team (see section 5.6)

[GUI] To revert to the Shift Handoff Tool GUI, the 1.0.6.4 GUI would have to be redistributed

5.2. Back-Out Considerations

5.2.1. Load Testing

No load testing was performed on Shift Handoff Tool v1.0.7.1. This was a maintenance release to correct defects discovered in Shift Handoff Tool 1.0.6.4. There was no additional functionality included.

5.2.2. User Acceptance Testing

User acceptance testing was conducted by the three test sites listed in section 3.2.2.

The sites followed the provided test plan and executed the test cases according to the plan for the first build of CRHD*1.0*7. The sites either passed or failed any item based on testing. The tests were performed by Clinical Application Coordinators at each site who are familiar using the application. The test cases were then delivered with concurrence by the sites to the HPSCLIN team. Any items that failed were re-developed and then sent back to the sites for the next build and further acceptance testing following the same process. Once in production, the same final test cases from the last build were tested in production. No subsequent builds were created as the test cases passed and sites signed off on concurrence for release of the product.

5.3. Back-Out Criteria

Back-out would only be considered if there was a catastrophic failure that causes loss of function for the application and a significant patient safety issue.

5.4. Back-Out Risks

Backing out Shift Handoff Tool v1.0.7.1 would result in the re-instatement of the issues addressed in Shift Handoff Tool v1.0.7.1.

In addition, there is a risk that the process, which would be performed only in an emergent situation, would significantly impact patient care due to the interruption.

5.5. Authority for Back-Out

The Facility CIO has the final authority to require the rollback and accept the associated risks

5.6. Back-Out Procedure

These steps assume that the only reason to consider a back-out for Shift Handoff Tool v1.0.7.1 is in the event of a catastrophic failure.

NOTE: the Vista Changes and GUI changes are independent of each other. In the case of a catastrophic failure of the GUI, the VistA Patch can remain in the system; consequently if the catastrophic failure is in the VistA side, the site can back out the VistA patch and continue to use the updated GUI

1. Contact the HPSCLIN implementation team to notify them there has been a catastrophic failure with Shift Handoff Tool v1.0.7.1. Use the following contacts :

Table 3: Contact Information for the HPSCLIN Team

Name & Title	VA Email	Phone Number
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED

2. If the decision is made to proceed with back-out and rollback, the HPSCLIN team is available to assist sites that have misplaced their backup PackMan message, as well as give you the instructions on downloading the executable.
3. [VistA] (if needed)
 - a. Open the Backup MailMan Message
 - b. At the “Enter message action (in IN basket): Ignore//” prompt Enter “X” for [Xtract PackMan]
 - c. At the “Select PackMan function:” prompt select [INSTALL/CHECK MESSAGE]. The old routine is now restored

[GUI] (if needed) Coordinate with the appropriate IT support, local and regional, to schedule the time to install CRHD*1.0*6 and to push out / install the previous GUI executable.
4. Once CRHD*1.0*6 and Shift Handoff Tool 1.0.6.4 have been installed, verify operations before making available to all staff.

5.7.Back-out Verification Procedure

1. Ensure the 1.0.6.4 executable launches properly.
2. Perform site-specific testing appropriate to the areas where the catastrophic failure was identified.

6. Rollback Procedure

6.1. Rollback Considerations

N/A

6.2. Rollback Criteria

N/A

6.3. Rollback Risks

N/A

6.4. Authority for Rollback

The Facility CIO has the final authority to require the rollback and accept the associated risks

6.5. Rollback Procedure

Back-out will automatically rollback version.

6.6. Rollback Verification Procedure

N/A