

Lighthouse 1.0

**Deployment, Installation, Back-Out, and Rollback
Guide (DIBR)**



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LHS*1.0*0

Department of Veterans Affairs

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Revision History

Date	Version	Description	Author
08/09/2021	1.0	LHS*1.0*0: <ul style="list-style-type: none">• 4.1.1 Mandatory Action must be completed before continuing with the installation• Approved on 08/06/2021	Liberty ITS

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 patch LHS*1.0*0, as well as how to back-out the product and rollback to a previous version or data set.

This patch is being deployed initially to the COVID Patient Manager (CPM) pilot program test sites and will be evaluated for national deployment.

1.1 Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom the LHS*1.0*0 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

Not applicable for LHS*1.0*0.

1.3 Constraints

This patch is intended for a fully patched VistA system.

2 Roles and Responsibilities

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

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
1	Project Team and Development Team	Deployment	Plan and schedule deployment (including orchestration with vendors)	
2	Development Team	Deployment	Determine and document the roles and responsibilities of those involved in the deployment	
3	Enterprise Operations (EO)	Deployment	Test for operational readiness	
4	Development Team	Deployment	Execute deployment	
5	Development Team	Installation	Plan and schedule installation	
6	Project Team	Installation	Ensure authority to operate and that certificate authority security documentation is in place	
7	Development Team	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)	
8	Project Team	Post Deployment	Hardware, Software and System Support	

3 Deployment

The deployment for LHS*1.0*0 is planned as a single VistA Package rollout.

3.1 Timeline

The deployment and installation are scheduled to run for approximately one day.

3.2 Site Readiness Assessment

This section discusses the locations that will receive the LHS*1.0*0 deployment.

3.2.1 Deployment Topology (Targeted Architecture)

This patch LHS*1.0*0 is to be deployed to the COVID Patient Manager (CPM) Pilot sites and upon acceptance will be nationally released.

3.2.2 Site Information (Locations, Deployment Recipients)

The test sites for the CPM testing are:

- Tampa, FL
- Philadelphia, PA
- Bronx, NY

3.2.3 Site Preparation

The following table describes preparation required by the site prior to deployment.

Table 2: Site Preparation

Site/Other	Problem/Change Needed	Features to Adapt/Modify to New Product	Actions/Steps	Owner
Tampa	N/A	N/A	Install patch and create VistALink Connector Proxy	Information Resource Management (IRM) or Enterprise Service Line (ESL) representative
Philadelphia	N/A	N/A	Install patch and create VistALink Connector Proxy	IRM or ESL

Site/Other	Problem/Change Needed	Features to Adapt/Modify to New Product	Actions/Steps	Owner
Bronx	N/A	N/A	Install patch and create VistALink Connector Proxy	IRM or ESL

3.3 Resources

3.3.1 Facility Specifics

The following table lists facility-specific features required for deployment.

Table 3: Facility-Specific Features

Site	Space/Room	Features Needed	Other
N/A			

3.3.2 Hardware

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

Table 4: Hardware Specifications

Required Hardware	Model	Version	Configuration	Manufacturer	Other
N/A					

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

3.3.3 Software

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

Table 5: Software Specifications

Required Software	Make	Version	Configuration	Manufacturer	Other
N/A					

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.

3.3.4 Communications

The sites that are participating in the field testing of the CPM application will use the Patch Tracking message in Outlook to communicate with the Lighthouse team.

3.3.4.1 Deployment/Installation/Back-Out Checklist

The Release Management team will deploy the patch LHS*1.0*0, which is tracked nationally for all VAMCs in the NPM in Forum. Forum automatically tracks the patches as they are installed in the different VAMC production systems. One can run a report in Forum to identify when the patch was installed in the VistA production at each site, and by whom. A report can also be run, to identify which sites have not currently installed the patch in their VistA production system. Therefore, this information does not need to be manually tracked in the chart below.

Table 6: Deployment/Installation/Back-Out Checklist

Activity	Day	Time	Individual who completed task
Deploy	Release	Any	Site Support Personnel
Install	Release	Any	Site Support Personnel
Back-Out	Contingent	Any	Site Support Personnel

4 Installation

4.1 Pre-installation and System Requirements

4.1.1 Mandatory Action

The site Information Resource Management (IRM), Enterprise Service Line (ESL), or designated representative must contact the Lighthouse team through the LHSVISTASUPPORT@VA.GOV mail group to get the access/verify code for CONNECTOR PROXY for their site. This will be sent encrypted via Outlook.

Note: Complete the mandatory action above before proceeding with the LHS*1.0*0 installation.

4.1.2 CONNECTOR PROXY Creation

Create the Lighthouse CONNECTOR PROXY using the FOUNDATIONS MANAGEMENT [XOBUSITE SETUP MENU] option on the Operations Management menu [XUSITEMGR].

Example:

```
<<<  VistALink Parameters  >>>
VistALink Version: 1.6  Heartbeat Rate: 180  Latency Delta: 180
<<< VistALink Listener Status Log >>>
ID Box-Volume      Port  Status      Status Date/Time
Configuration
Enter ?? for more actions
SP Site Parameters          SL Start Listener
CFG Manage Configurations    STP Stop Listener
CP Enter/Edit Connector Proxy User  SB Start Box
RE Refresh                  CU Clean Up Log
CM Connection Manager
Select Action:Quit//  CP  Enter/Edit Connector Proxy User
Enter NPF CONNECTOR PROXY name :  LHS,CONNECTOR PROXY
Are you adding LHS,CONNECTOR PROXY as a new NEW PERSON (the 198970TH)?
No//  Y (Yes)
Checking SOUNDEX for matches.
<different potential matches for each site>
Type <Enter> to continue or '^' to exit: ^
Do you still want to add this entry: NO//Y
Want to edit ACCESS CODE (Y/N): Y
Enter a new ACCESS CODE <Hidden>: ***** <Use ACCESS CODE provided
to your site>
Please re-type the new code to show that I have it right: *****
OK, Access code has been changed!
```

```
The VERIFY CODE has been deleted as a security measure.
You will need to enter a new VERIFY code so the user can sign-on.
Want to edit VERIFY CODE (Y/N): Y
Enter a new VERIFY CODE: ***** <Use VERIFY CODE provided to your
site>
Please re-type the new code to show that I have it right: *****
```

4.2 Platform Installation and Preparation

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.

4.3 Download and Extract Files

LHS*1.0*0 will be transmitted via PackMan message, and therefore does need to be downloaded separately.

Table 7: Associated Patch Files

File	Description
N/A	

4.4 Database Creation

LHS*1.0*0 modifies the VistA database. All changes can be found on the NPM documentation for this patch.

4.5 Installation Scripts

No installation scripts are needed for the LHS*1.0*0 installation.

4.6 Cron Scripts

No Cron scripts are needed for the LHS*1.0*0 installation.

4.7 Access Requirements and Skills Needed for the Installation

The following staff will need access to the PackMan message containing the LHS*1.0*0 patch or to FORUM's NPM for downloading the patch.

The software is to be installed by the site's or region's designated: VA OIT IT OPERATIONS SERVICE, Enterprise Service Lines, VistA Applications Division2. Additionally, access to the VistA Option FOUNDATION MANAGEMENT [XOBUSITESETUPMENU] is required.

4.8 Installation Procedure

4.8.1 KIDS Installation

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.

(ex. LHS 1.0)

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 **LHS 1.0**

- iii. When prompted for the following, enter **B** for Build.

Select one of the following:

B Build

R Routines

Enter response: **Build**

- iv. When prompted “Do you wish to secure your build? 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 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**.

4.9 Installation Verification Procedure

Verify the routine checksums in the table below.

Table 8: Routines

Routine	Before Checksum	After Checksum	Patch List
LHSRPC	NEW	B386439	**0**

Note: The Post-install routine **LHSPST1** will add “LHS,APPLICATION PROXY” to the NEW PERSON file (#200). **LHSPST1** is deleted automatically when the patch is installed.

4.10 System Configuration

No system configuration changes are required for this patch.

4.11 Database Tuning

No reconfiguration of the VistA database, memory allocations or other resources is necessary.

5 Back-Out Procedure

Back-Out pertains to a return to the last known good operational state of the software and appropriate platform settings.

5.1 Back-Out Strategy

Although it is highly unlikely that problems with this patch will occur as there are no Data Dictionaries or data modifications associated with the LHS*1.0*0 patch, a back-out decision due to other considerations could occur.

5.2 Back-Out Considerations

It is necessary to determine if LHS*1.0*0 requires a wholesale back-out or if concerns can be resolved through a new version of the patch or a follow up patch addressing concerns caused by LHS*1.0*0. A new version of LHS*1.0*0 or a follow up patch depends on whether the concerns are caught before or after national release of LHS*1.0*0.

A wholesale back-out of the patch will still require a new version (if prior to national release) or a subsequent patch (after national release).

If the back-out is post-release of patch LHS*1.0*0, this patch should be assigned the status of “Entered in Error” in Forum’s NPM.

5.2.1 Load Testing

The back-out process would be executed at normal, rather than raised job priority, and is expected to have no significant effect on total system performance. Subsequent to the reversion, the performance demands on the system would be unchanged.

5.2.2 User Acceptance Testing

This patch does not include any new functionality in VistA and the only purpose is to provide access to data for the CPM project. There is one new Remote Procedure [LHS CHECK OPTION ACCESS] that is used to determine if a CPM user has access to the [OR CPRS GUI CHART] option.

5.3 Back-Out Criteria

Criteria for back-out includes, but is not limited to, the project’s cancelation, the requested CPM changes are no longer desired by VA, or LHS*1.0*0 produces catastrophic problems.

5.4 Back-Out Risks

There are no risks with this back-out procedure.

5.5 Authority for Back-Out

The release coordinator, portfolio director, and Health Product Support have the authority to initiate a back-out decision. This should be done in consultation with the development team.

5.6 Back-Out Procedure

The back-out procedure for VistA applications is complex and not a “one size fits all” solution. The general strategy for a VistA back-out is to repair the code with a follow-up patch. However, this patch only includes one new RPC and does not install any new functionality through Data Dictionaries.

The development team recommends that sites log a ticket if it is a nationally released patch. If not, the site should contact the Enterprise Program Management Office (EPMO) team directly for specific solutions to their unique problems.

The LHS*1.0*0 patch includes the following build components:

- Options
 - LHS RPC CONTEXT
- New Person
 - LHS,APPLICATION PROXY
 - LHS,CONNECTOR PROXY
- Remote Procedure
 - LHS CHECK OPTION ACCESS

The LHS RPC CONTEXT Option and the LHS CHECK OPTION ACCESS Remote Procedure can be deleted through the FileMan [ENTER OR EDIT FILE ENTRIES] option. The following will need to be executed from the programmer’s prompt (User input depicted below in ***bold italicized*** font):

5.6.1 Delete the LHS RPC CONTEXT Option:

```
D P^DI
Select OPTION: ENTER OR EDIT FILE ENTRIES
Input to what File: OPTION// 19 OPTION (11237 entries)
EDIT WHICH FIELD: ALL// ALL
Select OPTION NAME: LHS RPC CONTEXT LHS RPC CONTEXT
NAME: LHS RPC CONTEXT// @
    SURE YOU WANT TO DELETE THE ENTIRE 'LHS RPC CONTEXT' OPTION? Y (Yes)
SINCE THE DELETED ENTRY MAY HAVE BEEN 'POINTED TO'
BY ENTRIES IN THE 'AUDIT' FILE, ETC.,
DO YOU WANT THOSE POINTERS UPDATED (WHICH COULD TAKE QUITE A WHILE)? No// Y
(Yes)
```

```

WHICH DO YOU WANT TO DO? --
    1) DELETE ALL SUCH POINTERS
    2) CHANGE ALL SUCH POINTERS TO POINT TO A DIFFERENT 'OPTION' ENTRY
CHOOSE 1) OR 2): 1
DELETE ALL POINTERS? Yes// Y (Yes)
    (DELETION WILL OCCUR WHEN YOU LEAVE 'ENTER/EDIT' OPTION)

```

5.6.2 Delete LHS CHECK OPTION ACCESS Remote Procedure:

```

D P^DI
Select OPTION: ENTER OR EDIT FILE ENTRIES
Input to what File: REMOTE PROCEDURE// 8994 REMOTE PROCEDURE
                                (4276 entries)
EDIT WHICH FIELD: ALL// ALL
Select REMOTE PROCEDURE NAME: LHS CHECK OPTION ACCESS
NAME: LHS CHECK OPTION ACCESS Replace @
    SURE YOU WANT TO DELETE THE ENTIRE 'LHS CHECK OPTION ACCESS' REMOTE PROCEDURE
? Y (Yes)
SINCE THE DELETED ENTRY MAY HAVE BEEN 'POINTED TO'
BY ENTRIES IN THE 'OPTION' FILE, ETC.,
DO YOU WANT THOSE POINTERS UPDATED (WHICH COULD TAKE QUITE A WHILE)? No// Y
    (Yes)
WHICH DO YOU WANT TO DO? --
    1) DELETE ALL SUCH POINTERS
    2) CHANGE ALL SUCH POINTERS TO POINT TO A DIFFERENT 'REMOTE PROCEDURE' ENTRY
CHOOSE 1) OR 2): 1
DELETE ALL POINTERS? Yes// Y (Yes)
    (DELETION WILL OCCUR WHEN YOU LEAVE 'ENTER/EDIT' OPTION)

```

5.6.3 Delete the LHSRPC Routine

The RPC Routine is LHSRPC and this routine has no dependencies and can be safely deleted using the Delete Routines option under Routine Tools menu.

```

D ^XUP
Select OPTION NAME: EVE
    1  EVE          Systems Manager Menu
    2  EVET BLOCK/UNBLOCK DOWNLOAD      Block/unblock Vet Download
    3  EVET CHECK INCOMING              Check for incoming responses from Health eVet
    4  EVET DAILY DOWNLOAD ACTIVITY      Daily download activity for date
    5  EVET EMAIL DOWNLOAD REPORT        Email weekly download report
Press <Enter> to see more, '^' to exit this list, OR

```



```

CHOOSE 1-5: 1  EVE      Systems Manager Menu
    Core Applications ...
    Device Management ...
    FM    VA FileMan ...
    Menu Management ...
    Programmer Options ...
    Operations Management ...
    Spool Management ...
    Information Security Officer Menu ...
    Taskman Management ...
    User Management ...
    Application Utilities ...
    Capacity Planning ...
    Manage Mailman ...

<CPM> Select Systems Manager Menu <TEST ACCOUNT> Option: Programmer Options
    KIDS  Kernel Installation & Distribution System ...
    NTEG  Build an 'NTEG' routine for a package
    PG    Programmer mode
          Calculate and Show Checksum Values
          Delete Unreferenced Options
          Error Processing ...
          Global Block Count
          List Global
          Map Pointer Relations
          Number base changer
          Routine Tools ...
          Test an option not in your menu
          Verifier Tools Menu ...

<CPM> Select Programmer Options <TEST ACCOUNT> Option: Routine Tools
    %Index of Routines
    Check Routines on Other CPUs
    Compare local/national checksums report
    Compare routines on tape to disk
    Compare two routines
    Delete Routines
    First Line Routine Print
    Flow Chart Entire Routine
    Flow Chart from Entry Point
    Group Routine Edit
    Input routines

```

```

List Routines
Load/refresh checksum values into ROUTINE file
Output routines
Routine Edit
Routines by Patch Number
Variable changer
Version Number Update
<CPM> Select Routine Tools <TEST ACCOUNT> Option: Delete Routines
ROUTINE DELETE
All Routines? No => No
Routine: LHSRPC
Routine:
1 routine
1 routines to DELETE, OK: NO// Yes
LHSRPC
Done.

```

5.6.4 Deactivate the LHS, CONNECTOR PROXY

The LHS,CONNECTOR PROXY cannot be deleted directly but it can be deactivated using the Deactivate a User [XUSERDEACT] option.

Deactivate LHS,CONNECTOR PROXY user:

```

Select Systems Manager Menu <TEST ACCOUNT> Option: User Management
Add a New User to the System
Grant Access by Profile
Edit an Existing User
Deactivate a User
Reactivate a User
List users
User Inquiry
Switch Identities
File Access Security ...
Clear Electronic signature code
Electronic Signature Block Edit
List Inactive Person Class Users
Manage User File ...
OAA Trainee Registration Menu ...
Person Class Edit
Reprint Access agreement letter
<CPM> Select User Management <TEST ACCOUNT> Option: Deactivate a User

```

```

Select USER to be deactivated: LHS,CONNECTOR PROXY
View/Print User Inquiry Data? Yes// NO

                                DEACTIVATE A USER

NAME: LHS,CONNECTOR PROXY

-----
                Disable User: YES
                TERMINATION DATE: TODAY
                Termination Reason: PROJECT TERMINATED
                DELETE ALL MAIL ACCESS: YES
                DELETE KEYS AT TERMINATION: YES
-----

Exit      Save      Refresh      Quit
Enter a COMMAND, or "^" followed by the CAPTION of a FIELD to jump to.
COMMAND: Save

LHS,CONNECTOR PROXY will be deactivated now. Do you wish to proceed? YES// YES

```

5.6.5 LHS, APPLICATION PROXY

The LHS,APPLICATION PROXY is a special type of user and cannot be deleted or deactivated. However, since it does not have any valid options assigned, or Access/Verify codes, it cannot be used directly and causes no threat when left on the system.

5.7 KIDS Back-out

Administrators will need to use the PackMan function INSTALL/CHECK MESSAGE. Check MailMan messages for the backup message sent by the Backup a Transport Global function executed prior to the patch install. (See section [4.8.1](#), Step 2B; this must be done before the patch is installed).

1. In VistA MailMan, select the message shown below:
 - A. Backup of LHS*1.0*0 install on <mm, dd, yyyy> <user name>
2. Select the Xtract PackMan option.
3. Select the Install/Check Message option.
4. Enter Yes at the prompt.
5. Enter No at the backup prompt. There is no need to back up the backup.

5.8 Back-out Verification Procedure

Successful back-out is confirmed upon completion of the steps outlined in section [5.6 Back-Out Procedure](#). Each step will provide confirmation of success; however, visual confirmation can be performed using the FileMan [INQUIRE TO FILE ENTRIES] Option for verification of the file entries.

D P^DI

Select OPTION: **INQUIRE TO FILE ENTRIES**

Output from what File: REMOTE PROCEDURE// **8994** (4275 entries)

Select REMOTE PROCEDURE NAME: **LHS RPC CONTEXT** ??

Select OPTION: **INQUIRE TO FILE ENTRIES**

Output from what File: REMOTE PROCEDURE// **19** OPTION (11236 entries)

Select OPTION NAME: **LHS CHECK OPTION ACCESS** ??

Select OPTION: **INQUIRE TO FILE ENTRIES**

Output from what File: OPTION// **200** NEW PERSON (1541 entries)

Select NEW PERSON NAME: **LHS,CONNECTOR PROXY**

Another one:

Standard Captioned Output? Yes// **Yes** (Yes)

Include COMPUTED fields: (N/Y/R/B): NO// **N** - No record number (IEN), no Computed Fields

Display Audit Trail? No// **No** NO

NAME: LHS,CONNECTOR PROXY ACCESS CODE: <Hidden>

DELETE ALL MAIL ACCESS: YES

DELETE KEYS AT TERMINATION: YES

DISUSER: YES

TERMINATION DATE: AUG 05, 2021

Termination Reason: PROJECT TERMINATED

DATE VERIFY CODE LAST CHANGED: FEB 23, 2021

DATE ENTERED: FEB 23, 2021

CREATOR: MAILMAN

Entry Last Edit Date: AUG 05, 2021

NAME COMPONENTS: 200

SIGNATURE BLOCK PRINTED NAME: CONNECTOR PROXY LHS

MULTIPLE SIGN-ON: ALLOWED

User Class: CONNECTOR PROXY

ISPRIMARY: Yes

6 Rollback Procedure

Rollback pertains to data. The only data changes in this patch are specific to the operational software and platform settings. These data changes are covered in section **5.6 Back-Out Procedure**.

6.1 Rollback Considerations

Not applicable for LHS*1.0*0.

6.2 Rollback Criteria

Not applicable for LHS*1.0*0.

6.3 Rollback Risks

Not applicable for LHS*1.0*0.

6.4 Authority for Rollback

Not applicable for LHS*1.0*0.

6.5 Rollback Procedure

Not applicable for LHS*1.0*0.

6.6 Rollback Verification Procedure

Not applicable for LHS*1.0*0.