Lighthouse 1.0

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



August 2021

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:* **4.1.1 Mandatory Action** must be completed before continuing with the installation
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 | 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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# 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.

## 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.

## Dependencies

Not applicable for LHS\*1.0\*0.

## Constraints

This patch is intended for a fully patched VistA system.

# Roles and Responsibilities

Table : 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 |  |

# Deployment

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

## Timeline

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

## Site Readiness Assessment

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

### 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.

### Site Information (Locations, Deployment Recipients)

The test sites for the CPM testing are:

* Tampa, FL
* Philadelphia, PA
* Bronx, NY

### Site Preparation

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

Table : 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 |
| Bronx | N/A | N/A | Install patch and create VistALink Connector Proxy | IRM or ESL |

## Resources

### Facility Specifics

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

Table : Facility-Specific Features

| **Site** | **Space/Room** | **Features Needed** | **Other** |
| --- | --- | --- | --- |
| N/A |  |  |  |

### Hardware

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

Table : 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.

### Software

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

Table : 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.

### 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.

#### 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 : 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 |

# Installation

## Pre-installation and System Requirements

### 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.

### CONNECTOR PROXY Creation

Create the Lighthouse CONNECTOR PROXY using the FOUNDATIONS MANAGEMENT [XOBU SITE 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: \*\*\*\*\*\*\*\*\*\*\*\*

## 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.

## Download and Extract Files

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

Table : Associated Patch Files

| File | Description |
| --- | --- |
| N/A |  |

## Database Creation

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

## Installation Scripts

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

## Cron Scripts

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

## 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 [XOBU SITE SETUP MENU] is required.

## Installation Procedure

### 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,
	1. 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.

* 1. 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.
		1. At the Installation option menu, select **Backup a Transport Global**
		2. At the Select INSTALL NAME prompt, enter **LHS 1.0**
		3. When prompted for the following, enter **B** for Build.

Select one of the following:

B Build

R Routines

Enter response: **Build**

* + 1. When prompted “Do you wish to secure your build? NO//”, press **<enter>** and take the default response of NO.
		2. When prompted with, “Send mail to: Last name, First Name”, press **<enter>** to take default recipient. Add any additional recipients.
		3. When prompted with “Select basket to send to: IN//”, press **<enter>** and take the default IN mailbox or select a different mailbox.
	1. You may also elect to use the following options:
		1. Print Transport Global – This option will allow you to view the components of the KIDS build.
		2. 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.
	2. Select the Install Package(s) option and choose the patch to install.
		1. If prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', answer **NO**.
		2. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', answer **NO**.
		3. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', answer **NO**.

## Installation Verification Procedure

Verify the routine checksums in the table below.

Table : 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.

## System Configuration

No system configuration changes are required for this patch.

## Database Tuning

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

# Back-Out Procedure

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

## 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.

## 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.

### 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.

### 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.

## 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.

## Back-Out Risks

There are no risks with this back-out procedure.

## 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.

## 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):

### 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)

### 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)

### 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.

### 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***

### 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.

## 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:
	1. 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.

## 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

# 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**.

## Rollback Considerations

Not applicable for LHS\*1.0\*0.

## Rollback Criteria

Not applicable for LHS\*1.0\*0.

## Rollback Risks

Not applicable for LHS\*1.0\*0.

## Authority for Rollback

Not applicable for LHS\*1.0\*0.

## Rollback Procedure

Not applicable for LHS\*1.0\*0.

## Rollback Verification Procedure

Not applicable for LHS\*1.0\*0.