

VistA Laboratory Enhancements (VLE) – Anatomic Pathology (AP) Order Dialogs

Releases: LR*5.2*462 and LR*5.2*469

Deployment, Installation, Back-Out, and Rollback Guide



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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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1 Introduction

This document describes how to deploy and install patches LR*5.2*462 and LR*5.2*469, 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.

Overall, the VLE AP Order Dialog will provide standardization to the current process of AP Order, thereby effectively increasing accuracy, efficiency, and tracking capabilities of specimen processing. The VLE AP Order Dialog will eliminate the manual transcription of handwritten information from the Standard Form (SF) 515 into the existing AP Order Dialog thereby reducing the amount of misidentification of patients, and providing a mechanism to confirm a patient-specimen match.

Patch LR*5.2*462 contains a modification to the LABORATORY TEST (#60), LAB ORDER ENTRY (#69), LABORATORY SITE (#69.9) and adds the new file LR CPRS PARAMETERS (#69.71).

Patch LR*5.2*469 contains the new file LR AP DIALOG CONFIG (#69.73). The LR AP DIALOG CONFIG (#69.73) file is used to support the building and functioning of the CPRS AP DIALOG for thirteen new tests/orderable items.

The LR AP DIALOG CONFIG file was created to support the new LR OTHER LAB AP TESTS order dialog.

1.1 Purpose

The purpose of this guide is to provide a single, common document that describes how, when, where, and to whom patches LR*5.2*462 and LR*5.2*469 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

Patch LR*5.2*462 contains the following dependencies:

- LR*5.2*259
- LR*5.2*291
- LR*5.2*350
- LR*5.2*422
- LR*5.2*433
- LR*5.2*450

Patch LR*5.2*469 contains the following dependency:

- LR*5.2*462.

1.3 Constraints

Security controls will be inherited from VistA and therefore will be fully compliant with National Institute of Standards and Technology (NIST) controls and in compliance with

Directive 6500. In addition, patches LR*5.2*462 and LR*5.2*469 will be 508 compliant and designed to ensure no performance impacts will be experienced in the production environments.

1.4 Orientation

This section addresses package or audience specific notations or directions (e.g., symbols used to indicate terminal dialogues or user responses) for the installation and post-installation instructions included in this document.

All headings and text in this guide are intentionally formatted flush left, regardless of the heading level, to save space and to make for better readability.

In tables which list mandatory steps (for pre-installation and installation), a column is provided at the right-hand side so that users may check (✓) off the step as it is performed.

1.4.1 Computer Dialogue

The computer dialogue will appear in Courier New 11-point font.

Example: Courier New font 11 points

1.4.2 Instructions

Instructions will appear in Arial 11-point font.

Example: Arial font 11 points

1.4.3 User Response

User entry responses will appear in Courier New 11-point font.

Example: Courier New font 11 points

1.4.4 Warnings and Annotations

The verbiage warning and note will appear in Arial 11-point bold font to alert the user about important information that will follow.

Example: Arial bold font 11 points

Warnings of high importance will be denoted with a  symbol.

2 Roles and Responsibilities

The deployment, installation, back-out, and roll-back roles and responsibilities are outlined in table 1 which also depicts the teams that will perform the steps described in this plan.

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

ID	Team	Phase / Role	Tasks
1	Field Operations (FO)	Deployment	Plan and schedule deployment (including orchestration with vendors).
2	FO	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.
3	FO	Deployment	Test for operational readiness.
4	FO	Deployment	Execute deployment.
5	FO	Installation	Plan and schedule installation.
6	FO	Installation	Ensure authority to operate and that certificate authority security documentation is in place.
7	FO	Installation	Validate through facility POC to ensure that IT equipment has been accepted using asset inventory processes.
8	FO	Installations	Coordinate training.
9	FO	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out).
10	FO	Post Deployment	Hardware, Software and System Support.

3 Deployment

A National Release is planned for December 2016 for LR*5.2*462 and LR*5.2*469.

Software Development support will be available for forty-five days after the software has been released nationally.

Deployment will be performed by Local Facility staff and supported by team members from one or more of the operations organizations: Enterprise Systems Engineering (ESE), Field Operations (FO), Enterprise Operations (EO), and/or others.

3.1 Timeline

A high level overview of the Installation schedule with estimated dates is shown in table 2.

Table 2: Deployment and Installation Schedule

Build	Site	Date of Installation	Target
National Release	National	December 2016	Production at all sites for patches LR*5.2*462 and LR*5.2*469.

3.1.1 Site Information (Locations, Deployment Recipients)

Patches LR*5.2*462 and LR*5.2*469 were tested by the following sites:

- North Florida/South Georgia Veterans Health System, Gainesville, Florida
- Fresno Veterans Center, Fresno, California
- Northern California Health Care System, Mather, California
- Richmond Veterans Center, Richmond, Virginia (No Harm Testing only of patches LR*5.2*462 and LR*5.2*469)
- Philadelphia Veteran Medical Center, Philadelphia, Pennsylvania

3.1.2 Site Preparation

Patches LR*5.2*462 and LR*5.2*469 are enhancements to the existing VistA and CPRS legacy applications; therefore, new equipment is not required.

3.2 Resources

LR*5.2*462 and LR*5.2*469 are enhancements to the existing VistA and CPRS legacy applications; therefore, new equipment is not required.

3.2.1 Communications

Technicians will use email and conference calls for communication during the deployment; Email and/or conference calls will be utilized to notify the stakeholders of the successful release of the product.

4 Pre-Installation and Installation Preparation Instructions

Pre-installation and installation instructions for patches LR*5.2*462 and LR*5.2*469 are provided sequentially. Follow the installation instructions for patch LR*5.2*462 first followed by the instructions for the installation of patch LR*5.2*469 second.

4.1 Platform Installation and Preparation

The Patch installation needs to be coordinated with the LIM at each site.

4.1.1 Installation Timing Recommendation

This patch may be loaded with users on the system. If desired, perform the installation during non-peak hours.

4.1.2 Estimated Timing

The installation will take less than 5 minutes.

4.1.3 Kernel Patches

Kernel patches must be current on the target system to avoid problems loading and/or installing this patch.

4.1.4 Global Growth

There is no significant change to global growth.

4.2 Download and Extract Files

Installation of the builds shall be achieved via Packman messages. Associated documentation will be available on the VistA Document Library (VDL). The online versions will be updated as needed. Please look for the latest version on the VDL:

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

The following table lists the releases that are available for installation.

Table 3: Releases for Installation

Host File	File Name
Packman Distribution	Each Packman message contains 1 patch: <ul style="list-style-type: none">• LR*5.2*462• LR*5.2*469

4.3 Database Creation

This section is not applicable as there will not be any databases created.

4.4 Installation Scripts

This section is not applicable as there will not be any installation scripts.

4.5 CRON Scripts

This section is not applicable as there will not be any CRON scripts.

4.6 Access Requirements and Skills Needed for the Installation

This guide is written with the assumption that the reader is experienced or familiar with the following:

- VistA computing environment
- VA FileMan data structures and terminology
- Microsoft Windows

Product Support will coordinate the patch installation with the LIM at each site. The LIM and Product Support have the necessary access and skill set to conduct the installation.

4.7 System Configuration

The pre-installations instructions complete the system configuration process.

4.8 Database Tuning

Database tuning is not applicable.

4.9 Pre-installation and System Requirements for Patch LR*5.2*462

Patch LR*5.2*462 will install new fields to the LABORATORY TEST (#60), LAB ORDER ENTRY (#69) and LABORATORY SITE PARAMETERS (#69.9) files. It will also install a new file, LR CPRS SCREEN (#69.71), four new "LR7OAP" options, a print template for the LR CPRS SCREEN file and an edit template for the LABORATORY TEST file.

4.10 Installation Procedure for Patch LR*5.2*462

Follow the instructions outlined in the table below to perform the installation of Patch LR*5.2*462.

Table 4: M Code Installation Instructions for Patch LR*5.2*462

Step #	Description	✓
1	On the PackMan menu, use the <code>INSTALL/CHECK MESSAGE</code> option. This option loads the patch into a Transport Global on your system.	
2	From the <code>Kernel Installation and Distribution System (KIDS)</code> menu, select the <code>Installation</code> menu.	
3	From this menu, you may elect to use the following options:	

Step #	Description	✓
	a Verify Checksums in Transport Global: This option will allow you to ensure the integrity of the routines that are in the transport global.	
	b Print Transport Global: This option will allow you to view the components of the KIDS build.	
	c 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, Data Dictionaries (DD's), templates, etc.).	
	d 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.	
4	Under the Installation menu, select the package LR*5.2*462.	
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	Enter the Device you want to print the Install message. You can queue the install by enter a "Q" at the device prompt. Enter a "^" to abort the install.	
9	When prompted 'Delay Install (Minutes): (0 - 60) ://', respond "0".	

4.11 Pre-installation and System Requirements for Patch LR*5.2*469

After performing the pre-installation instructions and the installation of patch LR*5.2*462, perform the pre-installation instructions and installation of patch LR*5.2*469.

The LIM must create thirteen new lab tests to support the CPRS AP DIALOG functionality. Before the installation of the patch, an environment check will take place to ensure that the following criteria have been met: the orderable item name has been properly identified with a Display Group of Anatomic Pathology, and the preferred SNOMED CT code for the specimens have been properly identified. If all of the criteria have been met, the installation will proceed; otherwise, the installation will fail and the LIM will need to rectify any detected discrepancy.



Note: In the event that a discrepancy occurs, due to a mismatch for the specimen name or the SNOMED CT, contact the National Service Desk (NSD) at 855-673-4357 to log an incident ticket.

Follow the instructions outlined in the following table for Patch LR*5.2*469.

Table 5: Pre-Installation Instructions for Patch LR*5.2*469

Step #	Description	✓
1	The Automated Data Processing Application Coordinator (ADPAC) at your facility will need to complete this step.	
	<p data-bbox="321 699 345 730">a</p> <p data-bbox="386 709 1138 814">Create thirteen new lab tests with a collection sample of AP SPECIMEN by using the appropriate institution entries for your facility for the following lab tests/orderable items:</p> <ul data-bbox="435 831 976 1478" style="list-style-type: none"> • BONE MARROW • BRONCHIAL BIOPSY • BRONCHIAL CYTOLOGY • DERMATOLOGY • FINE NEEDLE ASPIRATE • GASTROINTESTINAL ENDOSCOPY • GENERAL FLUID • GYNECOLOGY (PAP SMEAR) • RENAL BIOPSY • TISSUE EXAM • URINE • UROLOGY, PROSTATE • UROLOGY, BLADDER/URETER <p data-bbox="386 1514 1117 1612">WARNING: Ensure that there are no other entries in the LABORATORY TEST file that have the same lab test name or synonym even if the subscript is different.</p>	

Step #	Description	✓
1	Step 1 Continued...	
	<p>b Set up all tests with a Type of Neither.</p> <p>Note: See figure 1 for examples of how the lab tests may appear in the LABORATORY TEST file (#60) after all of the entries have been created.</p> <p>Note: Workload code configuration should be done in compliance with the facility's current laboratory practices.</p>	
	<p>c WARNING: If the COLLECTION SAMPLE file (#62) does not have an AP SPECIMEN entry, follow the instructions outlined in Section 2.2 of the LEDI IV Installation Guide or call Product Support for assistance. An example of a warning dialog for the AP Specimen entry is shown in figure 2 below.</p> <p>Note: There is no restriction on what is utilized as the Accession Area.</p>	

Figure 1: Examples of AP Tests in the LABORATORY TEST File (#60)

NAME: BONE MARROW SUBSCRIPT: SURGICAL PATHOLOGY REQUIRED COMMENT: ORDER COMMENT PRINT NAME: BMARROW COLLECTION SAMPLE: AP SPECIMEN INSTITUTION: CAMP MASTER SITE NOTES DATE: MAY 03, 2016 NOTE: Test added in support of the VLE-AP order dialog enhancement NATIONAL VA LAB CODE: Surgical Pathology Tissue Exam CPRS SCREEN: 118-BONE MARROW	TYPE: NEITHER HIGHEST URGENCY ALLOWED: STAT COMBINE TEST DURING ORDER: NO ACCESSION AREA: SURGICAL PATHOLOGY
NAME: BRONCHIAL BIOPSY SUBSCRIPT: SURGICAL PATHOLOGY REQUIRED COMMENT: ORDER COMMENT PRINT NAME: BROBIOSP COLLECTION SAMPLE: AP SPECIMEN INSTITUTION: CAMP MASTER SITE NOTES DATE: MAY 03, 2016 NOTE: Test added in support of the VLE-AP order dialog enhancement NATIONAL VA LAB CODE: Surgical Pathology Tissue Exam CPRS SCREEN: 109-BRONCHIAL BIOPSY	TYPE: NEITHER HIGHEST URGENCY ALLOWED: STAT COMBINE TEST DURING ORDER: NO ACCESSION AREA: SURGICAL PATHOLOGY
NAME: BRONCHIAL CYTOLOGY SUBSCRIPT: CYTOLOGY REQUIRED COMMENT: ORDER COMMENT PRINT NAME: BRONC-CY COLLECTION SAMPLE: AP SPECIMEN INSTITUTION: CAMP MASTER SITE NOTES DATE: MAY 03, 2016 NOTE: Test added in support of the VLE-AP order dialog enhancement NATIONAL VA LAB CODE: Report Cytology	TYPE: NEITHER HIGHEST URGENCY ALLOWED: STAT COMBINE TEST DURING ORDER: NO ACCESSION AREA: CYTOPATHOLOGY

NAME: GYNECOLOGY (PAP SMEAR) TYPE: NEITHER
SUBSCRIPT: CYTOLOGY HIGHEST URGENCY ALLOWED: STAT
REQUIRED COMMENT: ORDER COMMENT COMBINE TEST DURING ORDER: NO
PRINT NAME: GYN-PAP
COLLECTION SAMPLE: AP SPECIMEN
INSTITUTION: CAMP MASTER ACCESSION AREA: CYTOPATHOLOGY
SITE NOTES DATE: MAY 03, 2016
NOTE: Test added in support of the VLE-AP order dialog enhancement
NATIONAL VA LAB CODE: Report Cytology
CPRS SCREEN: 126-GYNECOLOGY (PAP SMEAR)

NAME: URINE TYPE: NEITHER
SUBSCRIPT: CYTOLOGY HIGHEST URGENCY ALLOWED: STAT
REQUIRED COMMENT: ORDER COMMENT COMBINE TEST DURING ORDER: NO
PRINT NAME: URCYTO
COLLECTION SAMPLE: AP SPECIMEN
INSTITUTION: CAMP MASTER ACCESSION AREA: CYTOPATHOLOGY
SITE NOTES DATE: MAY 03, 2016
NOTE: Test added in support of the VLE-AP order dialog enhancement
NATIONAL VA LAB CODE: Report Cytology
CPRS SCREEN: 127-URINE

NAME: UROLOGY, BLADDER/URETER TYPE: NEITHER
SUBSCRIPT: SURGICAL PATHOLOGY HIGHEST URGENCY ALLOWED: STAT
REQUIRED COMMENT: ORDER COMMENT COMBINE TEST DURING ORDER: NO
PRINT NAME: UROBLURE
COLLECTION SAMPLE: AP SPECIMEN
INSTITUTION: CAMP MASTER ACCESSION AREA: SURGICAL PATHOLOGY
SITE NOTES DATE: MAY 03, 2016
NOTE: Test added in support of the VLE-AP order dialog enhancement
NATIONAL VA LAB CODE: Surgical Pathology Tissue Exam
CPRS SCREEN: 123-UROLOGY, BLADDER/URETER

NAME: UROLOGY, PROSTATE TYPE: NEITHER
SUBSCRIPT: SURGICAL PATHOLOGY HIGHEST URGENCY ALLOWED: STAT
REQUIRED COMMENT: ORDER COMMENT COMBINE TEST DURING ORDER: NO
PRINT NAME: UROPROST
COLLECTION SAMPLE: AP SPECIMEN
INSTITUTION: CAMP MASTER ACCESSION AREA: SURGICAL PATHOLOGY
SITE NOTES DATE: MAY 03, 2016
NOTE: Test added in support of the VLE-AP order dialog enhancement
NATIONAL VA LAB CODE: Surgical Pathology Tissue Exam
CPRS SCREEN: 121-UROLOGY, PROSTATE

NAME: RENAL BIOPSY TYPE: NEITHER
SUBSCRIPT: SURGICAL PATHOLOGY HIGHEST URGENCY ALLOWED: STAT
REQUIRED COMMENT: ORDER COMMENT COMBINE TEST DURING ORDER: NO
PRINT NAME: RENAL BX
COLLECTION SAMPLE: AP SPECIMEN
INSTITUTION: CAMP MASTER ACCESSION AREA: SURGICAL PATHOLOGY
SITE NOTES DATE: MAY 03, 2016
NOTE: Test added in support of the VLE-AP order dialog enhancement
NATIONAL VA LAB CODE: Surgical Pathology Tissue Exam
CPRS SCREEN: 128-RENAL BIOPSY

Figure 2: Example of AP Specimen Missing in File #62

```

*** 'ABDOMEN'
    Found SPECIMEN for SNOMED CT '113345001'

Additional Specimens found but not listed in this example.

***** AP SPECIMEN *****
* COLLECTION SAMPLE (File 62) 'AP SPECIMEN' is missing! *
***** AP SPECIMEN *****

LR*5.2*469 Build will not be installed, Transport Global deleted!
Dec 07, 2016@11:01:26
    
```

Step #	Description	✓
2	Confirm that the lab tests were created properly in the ORDERABLE ITEMS file (#101.43). The number seen in the ID field will point to the internal entry number (IEN) for the test in your LABORATORY TEST file (#60). See figure 3 for an example of how the ORDERABLE ITEMS might appear in the ORDERABLE ITEMS file (#101.43).	

Figure 3: Example of ORDERABLE ITEMS

```

NAME: BONE MARROW ID: 719;99LRT
  DISPLAY GROUP: LABORATORY PACKAGE NAME: BONE MARROW
SET: LAB
SET: AP
  LAB SECTION: SURGICAL PATHOLOGY TYPE: neither

NAME: BRONCHIAL BIOPSY ID: 5125;99LRT
  DISPLAY GROUP: LABORATORY PACKAGE NAME: BRONCHIAL BIOPSY
SET: LAB
SET: AP
  LAB SECTION: SURGICAL PATHOLOGY TYPE: neither

NAME: BRONCHIAL CYTOLOGY ID: 5126;99LRT
  DISPLAY GROUP: LABORATORY PACKAGE NAME: BRONCHIAL CYTOLOGY
SET: LAB
SET: AP
  LAB SECTION: CYTOLOGY TYPE: neither

NAME: DERMATOLOGY ID: 5127;99LRT
  DISPLAY GROUP: LABORATORY PACKAGE NAME: DERMATOLOGY
SET: LAB
SET: AP
  LAB SECTION: SURGICAL PATHOLOGY TYPE: neither

NAME: FINE NEEDLE ASPIRATE ID: 5128;99LRT
  DISPLAY GROUP: LABORATORY PACKAGE NAME: FINE NEEDLE ASPIRATE
SET: LAB
SET: AP
    
```

LAB SECTION: CYTOLOGY	TYPE: neither
NAME: GENERAL FLUID	ID: 5131;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME: GENERAL FLUID
SET: LAB	
SET: AP	
LAB SECTION: CYTOLOGY	TYPE: neither
NAME: TISSUE EXAM	ID: 5133;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME: TISSUE EXAM
SET: LAB	
SET: AP	
LAB SECTION: SURGICAL PATHOLOGY	TYPE: neither
NAME: GASTROINTESTINAL ENDOSCOPY	ID: 5129;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME: GASTROINTESTINAL
ENDOSCOPY	
SET: LAB	
SET: AP	
LAB SECTION: SURGICAL PATHOLOGY	TYPE: neither
NAME: GYNECOLOGY (PAP SMEAR)	ID: 5132;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME: GYNECOLOGY (PAP
SMEAR)	
SET: LAB	
SET: AP	
LAB SECTION: CYTOLOGY	TYPE: neither
NAME: URINE	ID: 5137;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME: URINE
SET: LAB	
SET: AP	
LAB SECTION: CYTOLOGY	TYPE: neither
NAME: UROLOGY, BLADDER/URETER	ID: 5134;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME:
UROLOGY, BLADDER/URETER	
SET: LAB	
SET: AP	
LAB SECTION: SURGICAL PATHOLOGY	TYPE: neither
NAME: UROLOGY, PROSTATE	ID: 5135;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME: UROLOGY, PROSTATE
SET: LAB	
SET: AP	
LAB SECTION: SURGICAL PATHOLOGY	TYPE: neither
NAME: RENAL BIOPSY	ID: 5136;99LRT
DISPLAY GROUP: LABORATORY	PACKAGE NAME: RENAL BIOPSY
SET: LAB	
SET: AP	
LAB SECTION: SURGICAL PATHOLOGY	TYPE: neither

Step #	Description	✓
3	<p>Edit the ORDERABLE ITEM file (#101.43) and change the DISPLAY GROUP from LABORATORY to ANATOMIC PATHOLOGY for each of the following thirteen lab tests:</p> <ul style="list-style-type: none"> • BONE MARROW • BRONCHIAL BIOPSY • BRONCHIAL CYTOLOGY • DERMATOLOGY • FINE NEEDLE ASPIRATE • GASTROINTESTINAL ENDOSCOPY • GENERAL FLUID • GYNECOLOGY (PAP SMEAR) • RENAL BIOPSY • TISSUE EXAM • URINE • UROLOGY, PROSTATE • UROLOGY, BLADDER/URETER <p>Note: This edit will remove the LAB entry from the SET field. Note: See figure 4 below for an example.</p>	
	<p>a When prompted, 'Select OPTION:' respond 'ENTER OR EDIT FILE ENTRIES'</p>	
	<p>b When prompted, 'INPUT TO WHAT FILE:' respond 'ORDERABLE ITEMS'</p>	
	<p>c When prompted, 'EDIT WHICH FIELD:' respond 'ALL// DISPLAY GROUP'</p>	
	<p>d When prompted 'Select ORDERABLE ITEMS NAME:' respond with the name of each of the thirteen lab tests.</p>	
	<p>e When prompted 'DISPLAY GROUP:' respond 'LABORATORY// ANATOMIC PATHOLOGY'</p>	
	<p>f When prompted 'Select ORDERABLE ITEMS NAME:' respond with the name of each of the thirteen lab tests.</p> <p>Note: You must change the DISPLAY GROUP from LABORATORY to ANATOMIC PATHOLOGY for each of the thirteen lab tests. See figure 4 below for an example.</p>	

Figure 4: Example of Bone Marrow Display Group Edit

```
Select OPTION: ENTER OR EDIT FILE ENTRIES

INPUT TO WHAT FILE: ORDERABLE ITEMS//
EDIT WHICH FIELD: ALL// DISPLAY GROUP
THEN EDIT FIELD:

Select ORDERABLE ITEMS NAME:      BONE MARROW
DISPLAY GROUP: LABORATORY// ANATOMIC PATHOLOGY

Select ORDERABLE ITEMS NAME:

Review of Orderable Item:
  NAME: BONE MARROW                ID: 719;99LRT
  DISPLAY GROUP: ANATOMIC PATHOLOGY PACKAGE NAME: BONE MARROW
  SET: AP
  LAB SECTION: SURGICAL PATHOLOGY  TYPE: neither
```

The following figure is an example of the DISPLAY GROUP that has not been properly changed which was identified during the environment check. The user will need to correct the discrepancy by following step #3 outlined above.

Figure 5: Example of a Discrepancy in the DISPLAY GROUP for RENAL BIOPSY

```
Found ORDERABLE ITEM 'BONE MARROW'.
Found ORDERABLE ITEM 'BRONCHIAL BIOPSY'.
Found ORDERABLE ITEM 'BRONCHIAL CYTOLOGY'.
Found ORDERABLE ITEM 'DERMATOLOGY'.
Found ORDERABLE ITEM 'FINE NEEDLE ASPIRATE'.
Found ORDERABLE ITEM 'GASTROINTESTINAL ENDOSCOPY'.
Found ORDERABLE ITEM 'GENERAL FLUID'.
Found ORDERABLE ITEM 'GYNECOLOGY (PAP SMEAR)'.
Found ORDERABLE ITEM 'TISSUE EXAM'.
Found ORDERABLE ITEM 'UROLOGY,BLADDER/URETER'.
Found ORDERABLE ITEM 'UROLOGY,PROSTATE'.
*** There is no ORDERABLE ITEM 'RENAL BIOPSY' within the ANATOMIC PATHOLOGY
display group

LR*5.2*469 Build will not be installed, Transport Global deleted!
Current date and time will be displayed here.
```

Step #	Description	✓
4	<p>Note: This step will need to be coordinated with your Clinical Coordinator and/or IT Support depending on access rights.</p> <p>Edit the DISPLAY GROUPS file (#100.98) and add SURGICAL PATHOLOGY, CYTOLOGY, and ELECTRON MICROSCOPY as new members. This edit will display the anatomic pathology orders under the ANATOMIC PATHOLOGY DISPLAY GROUP instead of the LABORATORY DISPLAY GROUP within the CPRS Order Tab.</p>	
	<p>a When prompted 'INPUT TO WHAT FILE:' respond 'DISPLAY GROUP'</p>	
	<p>b When prompted 'EDIT WHICH FIELD:' respond 'ALL'</p>	
	<p>c When prompted 'Select DISPLAY GROUP NAME:' respond 'ANATOMIC PATHOLOGY'</p>	
	<p>d When prompted 'NAME:' respond 'ANATOMIC PATHOLOGY'</p>	
	<p>e When prompted 'Select MEMBER:' respond 'SURGICAL PATHOLOGY'</p>	
	<p>f When prompted 'Are you adding 'SURGICAL PATHOLOGY' as a new MEMBER (the 1ST for this DISPLAY GROUP)?' respond 'YES'</p>	
	<p>g When prompted 'MEMBER SEQUENCE: 1//' respond with the ENTER key.</p>	
	<p>h When prompted 'Select MEMBER:' respond 'CYTOLOGY'</p>	
	<p>i When prompted 'Are you adding 'CYTOLOGY' as a new MEMBER (the 2ND for this DISPLAY GROUP)?' respond 'YES'</p>	
	<p>j When prompted 'MEMBER SEQUENCE: 2//' respond with the ENTER key.</p>	
	<p>k When prompted 'Select MEMBER:' respond 'ELECTRON MICROSCOPY'</p>	
	<p>l When prompted 'Are you adding 'ELECTRON MICROSCOPY' as a new MEMBER (the 3RD for this DISPLAY GROUP)?' respond 'YES'</p>	
	<p>m When prompted 'MEMBER SEQUENCE: 3//' respond with the ENTER key.</p>	
	<p>n When prompted 'MIXED NAME: Anat. Path.//' respond with the ENTER key.</p>	
	<p>o When prompted 'SHORT NAME: AP//' respond with the ENTER key.</p>	
	<p>p When prompted 'DEFAULT DIALOG' respond with the ENTER key to accept the default of a blank entry.</p>	

Figure 6: Example of Display Group Edit

```

INPUT TO WHAT FILE: DISPLAY GROUP//
EDIT WHICH FIELD: ALL//

Select DISPLAY GROUP NAME: ANATOMIC PATHOLOGY
NAME: ANATOMIC PATHOLOGY//
Select MEMBER: SURGICAL PATHOLOGY
Are you adding 'SURGICAL PATHOLOGY' as a new MEMBER (the 1ST for
this DISPLAY GROUP)? No// Y (Yes)
MEMBER SEQUENCE: 1//
Select MEMBER: CYTOLOGY
Are you adding 'CYTOLOGY' as a new MEMBER (the 2ND for this
DISPLAY GROUP)? No // Y (Yes)
MEMBER SEQUENCE: 2//
Select MEMBER: ELECTRON MICROSCOPY
Are you adding 'ELECTRON MICROSCOPY' as a new MEMBER (the 3RD for
this DISPLAY GROUP)? No// Y (Yes)
MEMBER SEQUENCE: 3//
Select MEMBER:
MIXED NAME: Anat. Path.//
SHORT NAME: AP//
DEFAULT DIALOG:[leave blank]

```

Step #	Description	✓
5	<p>Note: This step will need to be coordinated with your Clinical Coordinator.</p> <p>Delete the AP display groups SURGICAL PATHOLOGY, CYTOLOGY, and ELECTRON MICROSCOPY from the LABORATORY display group entry.</p>	
	a When prompted 'Select DISPLAY GROUP NAME:' respond 'LABORATORY'	
	b When prompted 'Select MEMBER:' respond 'SURGICAL PATHOLOGY'. To delete the member, enter the '@' sign.	
	c When prompted 'SURE YOU WANT TO DELETE THE ENTIRE MEMBER?' respond 'Yes'	
	d When prompted 'Select MEMBER:' respond 'CYTOLOGY'. To delete the member, enter the '@' sign.	
	e When prompted 'SURE YOU WANT TO DELETE THE ENTIRE MEMBER?' respond 'Yes'	
	f When prompted 'Select MEMBER:' respond 'ELECTRON MICROSCOPY'. To delete the member, enter the '@' sign.	
	g When prompted 'SURE YOU WANT TO DELETE THE ENTIRE MEMBER?' respond 'Yes'	

Figure 7: Example of Member Deletion

```
Select DISPLAY GROUP NAME: lab  LABORATORY
NAME: LABORATORY//
Select MEMBER: CYTOLOGY// @
  SURE YOU WANT TO DELETE THE ENTIRE MEMBER? Y  (Yes)
Select MEMBER: AUTOPSY// SURGICAL PATHOLOGY
  ...OK? Yes//  (Yes)

MEMBER: SURGICAL PATHOLOGY// @
  SURE YOU WANT TO DELETE THE ENTIRE MEMBER? Y  (Yes)
Select MEMBER: ELECT  RON MICROSCOPY
  ...OK? Yes//  (Yes)

MEMBER: ELECTRON MICROSCOPY// @
  SURE YOU WANT TO DELETE THE ENTIRE MEMBER? Y  (Yes)
Select MEMBER: ?
  Answer with MEMBER, or SEQUENCE
  Choose from:
  1          CHEMISTRY
  2          HEMATOLOGY
  3          MICROBIOLOGY
  4          BLOOD BANK
  5          ANATOMIC PATHOLOGY
  8          AUTOPSY

  You may enter a new MEMBER, if you wish
  Enter a display group.  A display group that is an ancestor
  may not also be a member.
  Answer with DISPLAY GROUP NAME
  Do you want the entire 59-Entry DISPLAY GROUP List?

  You may enter a new DISPLAY GROUP, if you wish
  ANSWER MUST BE 3-30 CHARACTERS IN LENGTH
Select MEMBER:
MIXED NAME: Lab//
SHORT NAME: LAB//
DEFAULT DIALOG: LR OTHER LAB TESTS//
```

4.12 Installation Procedure for Patch LR*5.2*469

Before the installation of patch LR*5.2*469 takes place, an environment check will be performed to ensure that the ORDERABLE ITEMS (from File #101.43) and their associated TOPOGRAPHY/SNOMED CT ID are an exact match and that multiple instances do not exist. If an exact match is not found or if there are multiple instances, the user will be informed and the environmental check will fail; the user will need to correct the discrepancy before performing the installation. The following figure shows an example of a discrepancy for BONE MARROW.



Note: If the Environment Check fails due to a mismatch for the specimen name or the SNOMED CT, contact the NSD at 855-673-4357 to log an incident ticket.

Figure 8: Example of Discrepancy for BONE MARROW

```
*** Unable to find the ORDERABLE ITEM 'BONE MARROW'  
Found ORDERABLE ITEM 'BRONCHIAL CYTOLOGY'  
Found ORDERABLE ITEM 'BRONCHIAL BIOPSY'  
Found ORDERABLE ITEM 'DERMATOLOGY'  
Found ORDERABLE ITEM 'FINE NEEDLE ASPIRATE'  
Found ORDERABLE ITEM 'GENERAL FLUID'  
Found ORDERABLE ITEM 'TISSUE EXAM'  
Found ORDERABLE ITEM 'GASTROINTESTINAL ENDOSCOPY'  
Found ORDERABLE ITEM 'GYNECOLOGY (PAP SMEAR)'  
Found ORDERABLE ITEM 'URINE'  
Found ORDERABLE ITEM 'UROLOGY, PROSTATE'  
Found ORDERABLE ITEM 'UROLOGY, BLADDER/URETER'  
Found ORDERABLE ITEM 'RENAL BIOPSY'  
Found SPECIMEN 'ABDOMEN'  
Found SPECIMEN 'ADRENAL GLAND'  
Found SPECIMEN 'ANAL CANAL'  
Found SPECIMEN 'APPENDIX'  
Found SPECIMEN 'ASCENDING COLON'  
Found SPECIMEN 'BILE DUCT CYTOLOGIC MATERIAL'  
Found SPECIMEN 'BILE DUCT MUCOUS MEMBRANE'  
Found SPECIMEN 'BILIARY TRACT'  
Found SPECIMEN 'BODY OF PANCREAS'  
Found SPECIMEN 'BONE'  
*** Unable to find the SPECIMEN 'BONE MARROW'  
Found SPECIMEN 'BREAST'  
Found SPECIMEN 'BRONCHIAL CYTOLOGIC MATERIAL'  
Found SPECIMEN 'BRONCHUS'  
Found SPECIMEN 'CARDIAC INCISURE OF STOMACH'  
Found SPECIMEN 'CARDIAC OSTIUM OF STOMACH'  
Found SPECIMEN 'CARDIO-ESOPHAGEAL JUNCTION'  
Found SPECIMEN 'CECUM'  
Found SPECIMEN 'CEREBROSPINAL FLUID CYTOLOGIC MATERIAL'  
Found SPECIMEN 'CERVICAL CYTOLOGIC MATERIAL'  
Found SPECIMEN 'CHORIONIC VILLI'  
Found SPECIMEN 'COLON'  
Found SPECIMEN 'DESCENDING COLON'  
Found SPECIMEN 'DUODENUM'  
Found SPECIMEN 'ESOPHAGUS'  
Found SPECIMEN 'ESOPHAGUS, LOWER THIRD'  
Found SPECIMEN 'ESOPHAGUS, MIDDLE THIRD'  
Found SPECIMEN 'ESOPHAGUS, UPPER THIRD'  
Found SPECIMEN 'GASTRIC FUNDUS'  
Found SPECIMEN 'GASTRIC JUICE'  
Found SPECIMEN 'GREATER CURVATURE OF STOMACH'  
Found SPECIMEN 'HEAD OF PANCREAS'  
Found SPECIMEN 'ILEUM'  
Found SPECIMEN 'JEJUNUM'  
Found SPECIMEN 'KIDNEY'  
Found SPECIMEN 'LEFT COLIC FLEXURE'  
Found SPECIMEN 'LEFT TESTIS'  
Found SPECIMEN 'LESSER CURVATURE OF STOMACH'  
Found SPECIMEN 'LIVER'  
Found SPECIMEN 'LUNG'  
Found SPECIMEN 'LYMPH NODE'  
Found SPECIMEN 'MEDIASTINUM'  
Found SPECIMEN 'NECK, LEFT SIDE'  
Found SPECIMEN 'NECK, RIGHT SIDE'  
Found SPECIMEN 'PANCREAS'  
Found SPECIMEN 'PAROTID GLAND'  
Found SPECIMEN 'PELVIS'  
Found SPECIMEN 'PERICARDIAL CYTOLOGIC MATERIAL'
```

```

Found SPECIMEN 'PERIRENAL TISSUE'
Found SPECIMEN 'PERITONEAL CYTOLOGIC MATERIAL'
Found SPECIMEN 'PERITONEUM'
Found SPECIMEN 'PLEURAL CYTOLOGIC MATERIAL'
Found SPECIMEN 'PROSTATE'
Found SPECIMEN 'PYLORIC ANTRUM'
Found SPECIMEN 'PYLORUS'
Found SPECIMEN 'RECTOSIGMOID JUNCTION'
Found SPECIMEN 'RECTUM'
Found SPECIMEN 'RENAL PELVIS'
Found SPECIMEN 'RETROPERITONEUM'
Found SPECIMEN 'RIGHT COLIC FLEXURE'
Found SPECIMEN 'RIGHT TESTIS'
Found SPECIMEN 'SALIVARY GLAND'
Found SPECIMEN 'SIGMOID COLON'
Found SPECIMEN 'SKIN'
Found SPECIMEN 'SMALL INTESTINE'
Found SPECIMEN 'SOFT TISSUES'
Found SPECIMEN 'SPLEEN'
Found SPECIMEN 'STOMACH'
Found SPECIMEN 'SUBLINGUAL GLAND'
Found SPECIMEN 'SUBMAXILLARY GLAND'
Found SPECIMEN 'SUBPHRENIC FOSSA'
Found SPECIMEN 'SYNOVIAL CYTOLOGIC MATERIAL'
Found SPECIMEN 'TAIL OF PANCREAS'
Found SPECIMEN 'THYROID GLAND'
Found SPECIMEN 'TISSUE'
Found SPECIMEN 'TRANSVERSE COLON'
Found SPECIMEN 'URETER'
Found SPECIMEN 'URINARY BLADDER'
Found SPECIMEN 'URINE'
Found SPECIMEN 'VAS DEFERENS'
Found SPECIMEN 'VERTEBRA'

```

The following figure shows what is verified during the environment check for the ORDERABLE ITEMS and associated TOPOGRAPHY/SNOMED CT ID.



Note: If the Environment Check fails due to a mismatch for the specimen name or the SNOMED CT, contact the NSD at 855-673-4357 to log an incident ticket.

Figure 9: Environment check

ORDERABLE ITEMS checked:

```

BONE MARROW
BRONCHIAL CYTOLOGY
BRONCHIAL BIOPSY
DERMATOLOGY
FINE NEEDLE ASPIRATE
GENERAL FLUID
TISSUE EXAM
GASTROINTESTINAL ENDOSCOPY
GYNECOLOGY (PAP SMEAR)
URINE
UROLOGY, PROSTATE
UROLOGY, BLADDER/URETER
RENAL BIOPSY

```

TOPOGRAPHY(specimens)/SNOMED CT ID codes checked:

ABDOMEN - 113345001
ADRENAL GLAND - 23451007
ANAL CANAL - 34381000
APPENDIX - 66754008
ASCENDING COLON - 9040008
BILE DUCT CYTOLOGIC MATERIAL - 110928002
BILE DUCT MUOUS MEMBRANE - 7035006
BILIARY TRACT - 34707002
BODY OF PANCREAS - 40133006
BONE - 3138006
BONE MARROW - 14016003
BREAST - 76752008
BRONCHIAL CYTOLOGIC MATERIAL - 110912007
BRONCHUS - 955009
CARDIAC INCISURE OF STOMACH - 5459006
CARDIAC OSTIUM OF STOMACH - 63853002
CARDIO-ESOPHAGEAL JUNCTION - 25271004
CECUM - 32713005
CEREBROSPINAL FLUID CYTOLOGIC MATERIAL - 110969006
CERVICAL CYTOLOGIC MATERIAL - 110949001
CHORIONIC VILLI - 2049008
COLON - 71854001
DESCENDING COLON - 32622004
DUODENUM - 38848004
ESOPHAGUS - 32849002
ESOPHAGUS, LOWER THIRD - 67173009
ESOPHAGUS, MIDDLE THIRD - 19000002
ESOPHAGUS, UPPER THIRD - 54738009
GASTRIC FUNDUS - 414003
GASTRIC JUICE - 31773000
GREATER CURVATURE OF STOMACH - 89382009
HEAD OF PANCREAS - 64163001
ILEUM - 34516001
JEJUNUM - 21306003
KIDNEY - 64033007
LEFT COLIC FLEXURE - 72592005
LEFT TESTIS - 63239009
LESSER CURVATURE OF STOMACH - 80085006
LIVER - 10200004
LUNG - 39607008
LYMPH NODE - 59441001
MEDIASTINUM - 72410000
NECK, LEFT SIDE - 170583000
NECK, RIGHT SIDE - 170303002
PANCREAS - 15776009
PAROTID GLAND - 45289007
PELVIS - 12921003
PERIRENAL TISSUE - 47145004
PERITONEAL CYTOLOGIC MATERIAL - 110944006
PERITONEUM - 15425007
PLEURAL CYTOLOGIC MATERIAL - 110913002
PROSTATE - 41216001
PYLORIC ANTRUM - 66051006
PYLORUS - 280119005
RECTOSIGMOID JUNCTION - 49832006
RECTUM - 34402009
RENAL PELVIS - 25990002
RETROPERITONEUM - 82849001
RIGHT COLIC FLEXURE - 48338005
RIGHT TESTIS - 15598003
SALIVARY GLAND - 385294005
SIGMOID COLON - 60184004
SKIN - 39937001

SMALL INTESTINE - 30315005
 SOFT TISSUES - 87784001
 SPLEEN - 78961009
 STOMACH - 69695003
 SUBLINGUAL GLAND - 88481005
 SUBPHRENIC FOSSA - 243974009
 SYNOVIAL CYTOLOGIC MATERIAL - 110895009
 TAIL OF PANCREAS - 73239005
 THYROID GLAND - 69748006
 TISSUE - 85756007
 TRANSVERSE COLON - 485005
 URETER - 87953007
 URINARY BLADDER - 89837001
 URINE - 78014005
 VAS DEFERENS - 57671007
 VERTEBRA - 51282000

Follow the instructions outlined in the table below to perform the installation of Patch LR*5.2*469.

Table 6: M Code Installation Instructions for Patch LR*5.2*469

Step #	Description	✓
1	On the PackMan menu, use the INSTALL/CHECK MESSAGE option. This option loads the patch into a Transport Global on your system.	
2	From the Kernel Installation and Distribution System (KIDS) menu, select the Installation menu.	
3	From this menu, you may elect to use the following options:	
	a Verify Checksums in Transport Global: This option will allow you to ensure the integrity of the routines that are in the transport global.	
	b Print Transport Global: This option will allow you to view the components of the KIDS build.	
	c 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, Data Dictionaries (DD's), templates, etc.).	
	d 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.	
4	Under the Installation menu, select the package LR*5.2*469.	
5	When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond "NO".	

Step #	Description	✓
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	Enter the Device you want to print the Install message. You can queue the install by enter a "Q" at the device prompt. Enter a "^" to abort the install.	
9	When prompted 'Delay Install (Minutes): (0 - 60) ://', respond "0".	

4.13 Installation Verification Procedure

No specific verification procedures are required after the installations of patches LR*5.2*462 and LR*5.2*469. If desired, run Verify Checksums in Transport Global or use the following command: CHECK1^XTSUMBLD.

5 Back-Out Procedure

A 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

During installation, if the option to back up routines was run as directed, 'Backup a Transport Global', then routines have the ability to be restored from the "backup" MailMan message that was generated. However, the KIDS installation process does not perform a restore of other VistA components, such as data dictionary, cross-reference, and template changes, etc.

Prior to attempting a back-out of the software, contact the VA Help Desk at 1-855-673-4357 for support or assistance.

5.2 Back-Out Considerations

The LIM and the Chief of Pathology have the authority to order the back-out.

5.2.1 Load Testing

Load testing was not performed for the patches.

5.3 Back-Out Criteria

Criteria for a back-out includes, but are not limited, to the following:

- a. Failed baseline testing.
- b. Non-recoverable software error.

5.4 Back-Out Risks

No back-out risks have been determined at this time.

5.5 Authority for Back-Out

The LIM and the Chief of Pathology have the authority to order the Back-out Procedure.

5.6 Back-Out Procedure

Restore the backup message of any routines exported with the patches and reload the transport global.

5.7 Back-out Verification Procedure

Verify the back-out procedure by comparing the transport global to the current system state.

6 Rollback Procedure

Patches LR*5.2*462 and LR*5.2*469 and any installed dependent patches need to be taken out in reverse of the order in which these patches were installed; routines and data dictionary modifications and populated data must also be rolled back in reverse order.

Contact the VA Help Desk at 1-855-673-4357 for support or assistance regarding roll-back procedures.

6.1 Rollback Considerations

No rollback considerations have been determined at this time.

6.2 Rollback Criteria

The only criteria for a rollback that has been determined at this time is that the installation failed baseline testing.

6.3 Rollback Risks

The only risk determined at this time is the possibility of downtime which would only effect the users of the Laboratory package.

6.4 Authority for Rollback

The LIM and the Chief of Pathology have the authority to require the rollback and accept the risks.

6.5 Rollback Procedure

The need for a rollback is highly unlikely, however if it is required, contact the product development team for assistance if needed. The rollback procedure may require Lab downtime and a reinstall of any previous KIDS versions.

6.6 Rollback Verification Procedure

No specific rollback verification procedures are required after the installations of patches LR*5.2*462 and LR*5.2*469.

Appendix A: LR*5.2*462 Captured Installation

The following is an installation example.

Figure 10: LR*5.2*462 Captured Installation Example

```
FRER1PSVR:FRE 21e1>D CHECK1^XTSUMBLD

New CheckSum CHECK1^XTSUMBLD:

This option determines the current checksum of selected routine(s).
The Checksum of the routine is determined as follows:

1. Any comment line with a single semi-colon is presumed to be
   followed by comments and only the line tag will be included.

2. Line 2 will be excluded from the count.

3. The total value of the routine is determined (excluding
   exceptions noted above) by multiplying the ASCII value of each
   character by its position on the line and position of the line in
   the routine being checked.

      Select one of the following:

          P          Package
          B          Build

Build from: Package

All Routines? No => No

Routine: LR7OB3
Routine: LR7OF0
Routine: LR7OFAO
Routine: LRAP
Routine: LRAPDA
Routine: LRAPLG
Routine: LRAPLG1
Routine: LRAPRES1
```

```
Routine: LROS
Routine: LRUDEL
Routine: LRUWLF
Routine:
11 routines

LR7OB3    value = 24033857
LR7OF0    value = 40209802
LR7OFAO   value = 37973467
LRAP      value = 24889097
LRAPDA    value = 92935176
LRAPLG    value = 7969847
LRAPLG1   value = 169348471
LRAPRES1  value = 66194684
LROS      value = 33110400
LRUDEL    value = 25312700
LRUWLF    value = 10175468
done
FRER1PSVR:FRE 21e1>D ^XUP

Setting up programmer environment
This is a PRODUCTION account.

Terminal Type set to: C-VT220

You have 1774 new messages.
Select OPTION NAME: XPD MAIN      Kernel Installation & Distribution System

    Edits and Distribution ...
    Utilities ...
    Installation ...
    Patch Monitor Main Menu ...

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

Select Installation Option: 2 Verify Checksums in Transport Global

Select INSTALL NAME: LR*5.2*462 Loaded from Distribution 11/16/16@07:49:59

=> LR*5.2*462

This Distribution was loaded on Nov 16, 2016@07:49:59 with header of

LR*5.2*462

It consisted of the following Install(s):

LR*5.2*462

Want each Routine Listed with Checksums: Yes// YES

DEVICE: HOME// HOME (CRT)

PACKAGE: LR*5.2*462 Nov 16, 2016 8:53 am PAGE 1

```

-----
LR462A    Calculated    5945552
LR7OAPKM  Calculated    69415435
LR7OAPMG  Calculated    59502319
LR7OB3    Calculated    27184019
LR7OF0    Calculated    41838489
LR7OFAO   Calculated    54432906
LRAP      Calculated    25886264
LRAPDA    Calculated    95028265
LRAPKLG   Calculated    46698322
LRAPKLG1  Calculated    8921740
LRAPKOE   Calculated    164456408
LRAPKOE1  Calculated    1258642
LRAPKOEU  Calculated    7473474
LRAPLG    Calculated    12374267
LRAPLG1   Calculated    181070435
LRAPRES1  Calculated    70400068

```

Enter RETURN to continue or '^' to exit:

LROS	Calculated	42665920
LRUDEL	Calculated	28725080
LRUWLF	Calculated	10789696

19 Routines checked, 0 failed.

- 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

Select Installation Option: 5 Backup a Transport Global

Select INSTALL NAME: LR*5.2*462 Loaded from Distribution 11/16/16@07:4
9:59

=> LR*5.2*462

This Distribution was loaded on Nov 16, 2016@07:49:59 with header of

LR*5.2*462

It consisted of the following Install(s):

LR*5.2*462

Subject: Backup of LR*5.2*462 install on Nov 16, 2016

Replace

Loading Routines for LR*5.2*462.

Routine LR7OAPKM is not on the disk..

Routine LR7OAPMG is not on the disk.....

Routine LRAPKLG is not on the disk..

Routine LRAPKLG1 is not on the disk..

Routine LRAPKOE is not on the disk..

Routine LRAPKOE1 is not on the disk..

Routine LRAPKOEU is not on the disk.....

Send mail to: LASTNAME,FIRSTNAME

- 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

Select Installation Option: 6 Install Package(s)

Select INSTALL NAME: LR*5.2*462 Loaded from Distribution 11/16/16@07:4

9:59

=> LR*5.2*462

This Distribution was loaded on Nov 16, 2016@07:49:59 with header of

LR*5.2*462

It consisted of the following Install(s):

LR*5.2*462

Checking Install for Package LR*5.2*462

Will first run the Environment Check Routine, LR462A

--- Environment Check is Ok ---

Sending install loaded alert to mail group G.LMI

Install Questions for LR*5.2*462

Incoming Files:

60 LABORATORY TEST

Note: You already have the 'LABORATORY TEST' File.

69 LAB ORDER ENTRY

Note: You already have the 'LAB ORDER ENTRY' File.

69.71 LR CPRS PARAMETERS (including data)

69.9 LABORATORY SITE (Partial Definition)

Note: You already have the 'LABORATORY SITE' File.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//

Want KIDS to INHIBIT LOGONs during the install? NO//

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//

Enter the Device you want to print the Install messages.

You can queue the install by enter a 'Q' at the device prompt.

Enter a '^' to abort the install.

DEVICE: HOME// HOME (CRT)

Install Started for LR*5.2*462 :

Nov 16, 2016@08:53:52

Build Distribution Date: Oct 06, 2016

Installing Routines:

Nov 16, 2016@08:53:53

Running Pre-Install Routine: PRE^LR462A

*** Preinstall completed ***

Installing Data Dictionaries:

Nov 16, 2016@08:53:53

Installing Data:

Nov 16, 2016@08:53:53

Installing PACKAGE COMPONENTS:

Installing PRINT TEMPLATE

Installing INPUT TEMPLATE

Installing OPTION

Nov 16, 2016@08:53:53

Running Post-Install Routine: POST^LR462A

Sending install completion alert to mail group G.LMI

Updating Routine file...

Updating KIDS files...

LR*5.2*462 Installed.

Nov 16, 2016@08:53:54

LR*5.2*462

Install Completed

Appendix B: LR*5.2*469 Captured Installation

The following is an installation example.

Figure 11: LR*5.2*469 Captured Installation Example

```
Setting up programmer environment
This is a PRODUCTION account.

Terminal Type set to: C-VT220

You have 5565 new messages.
Select OPTION NAME: XPD MAIN      Kernel Installation & Distribution System

    Edits and Distribution ...
    Utilities ...
    Installation ...
    Patch Monitor Main Menu ...

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
           Check Local Copies of Incoming Routines
           Find Active Options
           Only Lookup in Install File

Select Installation Option: 2  Verify Checksums in Transport Global
Select INSTALL NAME:   LR*5.2*469   11/22/16@15:12:05
=> LR*5.2*469

This Distribution was loaded on Nov 22, 2016@15:12:05 with header of
  LR*5.2*469 TEST v10
  It consisted of the following Install(s):
```

LR*5.2*469

Want each Routine Listed with Checksums: Yes// YES

DEVICE: HOME// HOME (CRT)

PACKAGE: LR*5.2*469 Nov 22, 2016 3:37 pm

PAGE 1

LR469A Calculated 59641039

1 Routine checked, 0 failed.

- 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
Check Local Copies of Incoming Routines
Find Active Options
Only Lookup in Install File

Select Installation Option: 5 Backup a Transport Global

Select INSTALL NAME: LR*5.2*469 11/22/16@15:12:05

=> LR*5.2*469

This Distribution was loaded on Nov 22, 2016@15:12:05 with header of

LR*5.2*469

It consisted of the following Install(s):

LR*5.2*469

Subject: Backup of LR*5.2*469 install on Nov 22, 2016

Replace

Loading Routines for LR*5.2*469.

Send mail to: LASTNAME,FIRSTNAME

- 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
 - Check Local Copies of Incoming Routines
 - Find Active Options
 - Only Lookup in Install File

Select Installation Option: 6 Install Package(s)

DON'T FORGET to use 'Check Local Copies of Incoming Routines' Option FIRST!

Select INSTALL NAME: LR*5.2*469 11/22/16@15:12:05
=> LR*5.2*469

This Distribution was loaded on Nov 22, 2016@15:12:05 with header of
LR*5.2*469

It consisted of the following Install(s):
LR*5.2*469

Checking Install for Package LR*5.2*469

Will first run the Environment Check Routine, LR469A

Found ORDERABLE ITEM 'BONE MARROW'
Found ORDERABLE ITEM 'BRONCHIAL BIOPSY'
Found ORDERABLE ITEM 'BRONCHIAL CYTOLOGY'
Found ORDERABLE ITEM 'DERMATOLOGY'
Found ORDERABLE ITEM 'FINE NEEDLE ASPIRATE'
Found ORDERABLE ITEM 'GASTROINTESTINAL ENDOSCOPY'
Found ORDERABLE ITEM 'GENERAL FLUID'
Found ORDERABLE ITEM 'GYNECOLOGY (PAP SMEAR)'
Found ORDERABLE ITEM 'TISSUE EXAM'
Found ORDERABLE ITEM 'UROLOGY, BLADDER/URETER'
Found ORDERABLE ITEM 'UROLOGY, PROSTATE'
Found ORDERABLE ITEM 'RENAL BIOPSY'
Found ORDERABLE ITEM 'URINE'

*** 'ABDOMEN'

```
Found SPECIMEN for SNOMED CT '113345001'

*** 'ADRENAL GLAND'
    Found SPECIMEN for SNOMED CT '23451007'

*** 'ANAL CANAL'
    Found SPECIMEN for SNOMED CT '34381000'

*** 'APPENDIX'
    Found SPECIMEN for SNOMED CT '66754008'

*** 'ASCENDING COLON'
    Found SPECIMEN for SNOMED CT '9040008'

*** 'BILE DUCT CYTOLOGIC MATERIAL'
    Found SPECIMEN for SNOMED CT '110928002'

*** 'BILE DUCT MUCOUS MEMBRANE'
    Found SPECIMEN for SNOMED CT '7035006'

*** 'BILIARY TRACT'
    Found SPECIMEN for SNOMED CT '34707002'

*** 'BODY OF PANCREAS'
    Found SPECIMEN for SNOMED CT '40133006'

*** 'BONE'
    Found SPECIMEN for SNOMED CT '3138006'

*** 'BONE MARROW'
    Found SPECIMEN for SNOMED CT '14016003'

*** 'BREAST'
    Found SPECIMEN for SNOMED CT '76752008'

*** 'BRONCHIAL CYTOLOGIC MATERIAL'
    Found SPECIMEN for SNOMED CT '110912007'

*** 'BRONCHUS'
```

```
Found SPECIMEN for SNOMED CT '955009'

*** 'CARDIAC INCISURE OF STOMACH'
    Found SPECIMEN for SNOMED CT '5459006'

*** 'CARDIAC OSTIUM OF STOMACH'
    Found SPECIMEN for SNOMED CT '63853002'

*** 'CARDIO-ESOPHAGEAL JUNCTION'
    Found SPECIMEN for SNOMED CT '25271004'

*** 'CECUM'
    Found SPECIMEN for SNOMED CT '32713005'

*** 'CEREBROSPINAL FLUID CYTOLOGIC MATERIAL'
    Found SPECIMEN for SNOMED CT '110969006'

*** 'CERVICAL CYTOLOGIC MATERIAL'
    Found SPECIMEN for SNOMED CT '110949001'

*** 'CHORIONIC VILLI'
    Found SPECIMEN for SNOMED CT '2049008'

*** 'COLON'
    Found SPECIMEN for SNOMED CT '71854001'

*** 'DESCENDING COLON'
    Found SPECIMEN for SNOMED CT '32622004'

*** 'DUODENUM'
    Found SPECIMEN for SNOMED CT '38848004'

*** 'ESOPHAGUS'
    Found SPECIMEN for SNOMED CT '32849002'

*** 'ESOPHAGUS, LOWER THIRD'
    Found SPECIMEN for SNOMED CT '67173009'

*** 'ESOPHAGUS, MIDDLE THIRD'
```

```
Found SPECIMEN for SNOMED CT '1900002'

*** 'ESOPHAGUS, UPPER THIRD'
    Found SPECIMEN for SNOMED CT '54738009'

*** 'GASTRIC FUNDUS'
    Found SPECIMEN for SNOMED CT '414003'

*** 'GASTRIC JUICE'
    Found SPECIMEN for SNOMED CT '31773000'

*** 'GREATER CURVATURE OF STOMACH'
    Found SPECIMEN for SNOMED CT '89382009'

*** 'HEAD OF PANCREAS'
    Found SPECIMEN for SNOMED CT '64163001'

*** 'ILEUM'
    Found SPECIMEN for SNOMED CT '34516001'

*** 'JEJUNUM'
    Found SPECIMEN for SNOMED CT '21306003'

*** 'KIDNEY'
    Found SPECIMEN for SNOMED CT '64033007'

*** 'LEFT COLIC FLEXURE'
    Found SPECIMEN for SNOMED CT '72592005'

*** 'LEFT TESTIS'
    Found SPECIMEN for SNOMED CT '63239009'

*** 'LESSER CURVATURE OF STOMACH'
    Found SPECIMEN for SNOMED CT '80085006'

*** 'LIVER'
    Found SPECIMEN for SNOMED CT '10200004'

*** 'LUNG'
```

```
Found SPECIMEN for SNOMED CT '39607008'

*** 'LYMPH NODE'
    Found SPECIMEN for SNOMED CT '59441001'

*** 'MEDIASTINUM'
    Found SPECIMEN for SNOMED CT '72410000'

*** 'NECK, LEFT SIDE'
    Found SPECIMEN for SNOMED CT '170583000'

*** 'NECK, RIGHT SIDE'
    Found SPECIMEN for SNOMED CT '170303002'

*** 'PANCREAS'
    Found SPECIMEN for SNOMED CT '15776009'

*** 'PAROTID GLAND'
    Found SPECIMEN for SNOMED CT '45289007'

*** 'PELVIS'
    Found SPECIMEN for SNOMED CT '12921003'

*** 'PERICARDIAL CYTOLOGIC MATERIAL'
    Found SPECIMEN for SNOMED CT '110919003'

*** 'PERIRENAL TISSUE'
    Found SPECIMEN for SNOMED CT '47145004'

*** 'PERITONEAL CYTOLOGIC MATERIAL'
    Found SPECIMEN for SNOMED CT '110944006'

*** 'PERITONEUM'
    Found SPECIMEN for SNOMED CT '15425007'

*** 'PLEURAL CYTOLOGIC MATERIAL'
    Found SPECIMEN for SNOMED CT '110913002'

*** 'PROSTATE'
```

```
Found SPECIMEN for SNOMED CT '41216001'

*** 'PYLORIC ANTRUM'
    Found SPECIMEN for SNOMED CT '66051006'

*** 'PYLORUS'
    Found SPECIMEN for SNOMED CT '280119005'

*** 'RECTOSIGMOID JUNCTION'
    Found SPECIMEN for SNOMED CT '49832006'

*** 'RECTUM'
    Found SPECIMEN for SNOMED CT '34402009'

*** 'RENAL PELVIS'
    Found SPECIMEN for SNOMED CT '25990002'

*** 'RETROPERITONEUM'
    Found SPECIMEN for SNOMED CT '82849001'

*** 'RIGHT COLIC FLEXURE'
    Found SPECIMEN for SNOMED CT '48338005'

*** 'RIGHT TESTIS'
    Found SPECIMEN for SNOMED CT '15598003'

*** 'SALIVARY GLAND'
    Found SPECIMEN for SNOMED CT '385294005'

*** 'SIGMOID COLON'
    Found SPECIMEN for SNOMED CT '60184004'

*** 'SKIN'
    Found SPECIMEN for SNOMED CT '39937001'

*** 'SMALL INTESTINE'
    Found SPECIMEN for SNOMED CT '30315005'

*** 'SOFT TISSUES'
```

Found SPECIMEN for SNOMED CT '87784001' and name 'SOFT TISSUES'

*** 'SPLEEN'

Found SPECIMEN for SNOMED CT '78961009'

*** 'STOMACH'

Found SPECIMEN for SNOMED CT '69695003'

*** 'SUBLINGUAL GLAND'

Found SPECIMEN for SNOMED CT '88481005'

*** 'SUBMAXILLARY GLAND'

Found SPECIMEN for SNOMED CT '54019009'

*** 'SUBPHRENIC FOSSA'

Found SPECIMEN for SNOMED CT '243974009'

*** 'SYNOVIAL CYTOLOGIC MATERIAL'

Found SPECIMEN for SNOMED CT '110895009'

*** 'TAIL OF PANCREAS'

Found SPECIMEN for SNOMED CT '73239005'

*** 'THYROID GLAND'

Found SPECIMEN for SNOMED CT '69748006'

*** 'TISSUE'

Found SPECIMEN for SNOMED CT '85756007'

*** 'TRANSVERSE COLON'

Found SPECIMEN for SNOMED CT '485005'

*** 'URETER'

Found SPECIMEN for SNOMED CT '87953007'

*** 'URINARY BLADDER'

Found SPECIMEN for SNOMED CT '89837001'

*** 'URINE'

Found SPECIMEN for SNOMED CT '78014005' and name 'URINE'

*** 'VAS DEFERENS'

Found SPECIMEN for SNOMED CT '57671007'

*** 'VERTEBRA'

Found SPECIMEN for SNOMED CT '51282000' and name 'VERTEBRA'

Install Questions for LR*5.2*469

Incoming Files:

69.73 LR AP DIALOG CONFIG (including data)

Want KIDS to INHIBIT LOGONS during the install? NO//

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//

Enter the Device you want to print the Install messages.

You can queue the install by enter a 'Q' at the device prompt.

Enter a '^' to abort the install.

DEVICE: HOME// QUEUE TO PRINT ON

DEVICE: HOME// P-M

1 P-MESSAGE-HFS OUTPUT TO MAIL

2 P-MSG MAILMAN

Choose 1-2> 1 P-MESSAGE-HFS OUTPUT TO MAIL

Subject: LR*5.2*469T10 INSTALL LIVE - MAC

Select one of the following:

M Me

P Postmaster

From whom: Me//

Send mail to: LASTNAME,FIRSTNAME// FIRSTNAME.LASTNAME@VA.GOV FORUM.VA.GOV via FORUM.VA.GOV

Request Start Time: Nov 22, 2016@15:40// 11/23@0600 (NOV 23, 2016@06:00:00)

Install Queued!

- 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
Check Local Copies of Incoming Routines
Find Active Options
Only Lookup in Install File