

# **VistA Lab Enhancements – Microbiology**

**Release: Lab Micro Interface Release 1.0  
(combined build for LA\*5.2\*90 and LR\*5.2\*474)**

## **Deployment, Installation, Back-out, and Rollback Guide**



**February 2017**

**Document Version 3.2**

**Department of Veterans Affairs**

**Office of Information and Technology (OI&T)**

## Revision History

Date	Document Version	Description	Author / Team Role
02/02/2017	3.2	Updates to Table 3.	REDACTED
01/10/2017	3.1	Addition of version number for Data Innovation's Instrument Manager.	REDACTED
01/06/2017	3.0	Minor technical edits based on feedback from Michael Belschwinder and Claudette Murch of Enterprise Project Management Office.	REDACTED
01/05/2017	2.9	Updated routine checksums in Table 5; addition of new examples for Figure 1. Figure 1 moved to Appendix. Removed section 5.2.1 Load Testing as not applicable. Captured install updated.	REDACTED
12/20/2016	2.8	Removed LR*5.2*463 information.	REDACTED
12/16/2016	2.7	Updated figure 1 and document names in section 4.3.	REDACTED
12/15/2016	2.6	Reordered section 4.	REDACTED
12/14/2016	2.5	Removed IOC Test Site information per feedback from Enterprise Project Management Office.	REDACTED
12/07/2016	2.4	Addition of Appendix.	REDACTED
12/05/2016	2.3	Removed MMRS*1.0*4 related information.	REDACTED
11/30/2016	2.2	Updated figure 1; examples provided by Randal Frommater.	REDACTED
11/28/2016	2.1	Addition of Lab Micro Interface Release 1.0 captured install.	REDACTED

Date	Document Version	Description	Author / Team Role
11/07/2016	2.0	Incorporation of MMRS*1.0*4 captured install.	REDACTED
11/02/2016	1.9	Technical Edit provided by Enterprise Project Management Office; some verbiage updated.	REDACTED
09/21/2016	1.8	Updated captured install in Appendix for MMRS.	REDACTED
09/20/2016	1.7	Addition of post installation instructions and captured install example for MMRS.	REDACTED
09/18/2016	1.6	Updated to include details for MMRS*1.0*4 and new patch LR*5.2*474. Information pertaining to LA*5.2*90 updated.	REDACTED
09/10/2016	1.5	Added preliminary information for patch LR*5.2*474.	REDACTED
08/25/2016	1.4	Updated document to include MMRS and LA*5.2*90 patches.	REDACTED
05/05/2016	1.3	Updated Build Name; completed formatting change to center table headings.	REDACTED
05/01/2016	1.2	Removed Workload code instructions; added notation regarding Workload codes. Replaced Captured Install with updated example Appendix A and TOC.	REDACTED
03/17/2016	1.1	Updated Section 5. Back-out Procedure.	REDACTED
03/02/2016	1.0	Baselined document for the release.	REDACTED

## **Artifact Rationale**

This document describes the Deployment, Installation, Back-out, and Rollback Plan for new products going into the VA Enterprise. The plan includes information about system support, issue tracking, escalation processes, and roles and responsibilities involved in all those activities. Its purpose is to provide clients, stakeholders, and support personnel with a smooth transition to the new product or software, and should be structured appropriately, to reflect particulars of these procedures at a single or at multiple locations.

Per the Veteran-focused Integrated Process (VIP) Guide, the Deployment, Installation, Back-out, and Rollback Plan is required to be completed prior to Critical Decision Point #2 (CD #2), with the expectation that it will be updated throughout the lifecycle of the project for each build, as needed.

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# 1 Introduction

The Installation, Back-out, Rollback Guide defines the ordered, technical steps required to install the product, and if necessary, to back-out the installation, and to roll back to the previously installed version of the product. It provides installation instructions for the VistA Lab Enhancements (VLE) Microbiology project, release Lab Micro Interface Release 1.0.

The releases shall be distributed as follows:

- Lab Micro Interface Release 1.0, Kernel Information and Distribution System (KIDS) build available via Secure File Transfer Protocol (SFTP) from [download.vista.med.va.gov](http://download.vista.med.va.gov)

The Lab Micro Interface Release 1.0 is a combined build that contains the LR\*5.2\*474 and the LA\*5.2\*90 patches. The combined build will support the electronic bidirectional communication of automated identification and susceptibility testing instruments with the VistA Laboratory Universal Interface (UI) through middleware or a generic instrument manager.

Patch LR\*5.2\*474 will provide new functionality to the Enter/Verify Data option of the Lab UI package. Three new release actions will now be available to the Technologist with the authority to release results. Results will be available to the applicable authorized clinicians and providers. In addition, the patch will allow a VA Medical Center the option of setting release defaults at the Package or User level.

Patch LA\*5.2\*90 will provide the constructs necessary to allow Microbiology or MI subscribed tests to be added to an Auto Instrument entry. An enhancement is also included for antibiotic susceptibility result processing which will now allow laboratories the ability to report susceptibilities to antimicrobial agents by utilizing SNOMED CT codes such as Positive and Negative. The handling of variations is also included in the build, such as the reporting of extended-spectrum beta-lactamases or ESBL enzymes that are resistant to most beta-lactam antibiotics. Locally mapped codes using an “L” for code set ID will now be processed for antibiotic susceptibilities.

All of the following SNOMED CT codes shall be supported with the release of patch LA\*5.2\*90:

- 131196009      Susceptible
- 260357007      Moderately susceptible
- 264841006      Intermediately susceptible
- 30714006       Resistant
- 10828004       Positive
- 260385009       Negative

## 1.1 Purpose

The purpose of this guide is to provide a single, common document that describes how, when, where, and to whom the Lab Micro Interface Release 1.0 build 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 LA\*5.2\*90 includes the following dependencies:

- LA\*5.2\*74
- LA\*5.2\*88

Patch LR\*5.2\*474 includes the following dependencies:

- LR\*5.2\*221
- LR\*5.2\*291
- LR\*5.2\*416
- LR\*5.2\*422
- LR\*5.2\*433
- LR\*5.2\*453

## 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, Lab Micro Interface Release 1.0 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 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 (as for installation and post-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

In VistA, every response you type must be followed by pressing the < **Return** > key or the < **Enter** > key.

## 2 Roles and Responsibilities

The deployment, installation, back-out, and roll-back roles and responsibilities are outlined in Table 1 which also lists the teams that will perform the tasks described in this guide.

**Table 1: 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 point of contact 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.
10	FO	Post Deployment	Hardware, Software and System Support.

## 3 Deployment

The Microbiology (Micro) Initiative is a collaborative solution between the VistA Laboratory Enhancement (VLE) Team and Clinical Laboratory personnel. This solution provides Micro Laboratory Technologists a system that integrates with the existing VistA Microbiology system.

A National Release is planned for January 2017 after testing has been successfully completed at two Test Sites.

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 Site Preparation

Each site must prepare for the deployment, installation, and implementation of the Micro capabilities. The extent for which they must prepare will vary based upon the sites current processes.

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
All	Determine changes to current processes.	Existing Micro MDRO and Instrument interface procedures.	Evaluate how new processes differ from current processes and adapt training accordingly.	Micro Technologists, Laboratory Information Managers (LIMs), Facility Business Owners
Sites using a VistA Micro currently.	Evaluate configuration changes that will need to be made to adapt to new Micro enhancements.	Existing Order Menus, Order Sets, and Quick Orders.	If using Generic Lab or Consult Order Types, determine if there are ordering menus, sets, and/or quick orders that need to be modified.	Micro Technologists, LIMs, Facility Business Owners

## 3.2 Software

The following table describes software specifications required at each site prior to deployment for the Lab Micro Interface Release 1.0.

**Table 3: Software Specifications**

Required Software	Manufacturer	Other
The following prerequisite release is required for the Lab Micro Interface Release 1.0:	Not applicable.	Local OI&T staff will provide the assistance needed to ensure that the users have the latest patches and

Required Software	Manufacturer	Other
<ul style="list-style-type: none"> <li><b>Lab Auto Release 1.0</b> (LR*5.2*458 and LA*5.2*88)</li> </ul>		upgrades required for the build.
<b>Data Innovations Instrument Manager (IM) version 8.13.03 or greater.</b>	Data Innovations	Local OI&T staff and Data Innovations support will provide the assistance needed to ensure that the users have version 8.13.03 or greater of the IM for the utilization of the full functionality in the Lab Micro Interface Release 1.0 build.
<b>VA Hybrid Health Level Seven (HL7) driver v8.00.0018 or greater.</b>	Not applicable.	Local OI&T staff will provide the assistance needed to ensure that the users have the latest HL7 driver.

### 3.3 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

This section provides pre-installation and installation preparation instructions for the Lab Micro Interface Release 1.0 build.

### 4.1 Platform Installation and Preparation

The Lab Micro Interface Release 1.0 installation must be coordinated with the Laboratory Automated Data Processing Application Coordinator (ADPAC) at each site.

### 4.2 Installation Timing Recommendation

The Lab Micro Interface Release 1.0 may be loaded with users on the system if the Lab Interface related activities have been halted, which includes, but is not limited to, the following:

- Editing of an Auto Instrument file entry.
- Turning off the Auto Downloading process to prevent the building and downloading of a Load/Worklist to the Instrument Manager.
- Shutting down all LA7UI logical links and any other HL7 process (HLZTCP or HLLP processes) to prevent the processing of result messages from the IM.

### 4.2.1 Estimated Timing

The installation will take less than 5 minutes.

### 4.2.2 Kernel Patches

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

### 4.2.3 Global Growth

There is no significant change to global growth.

## 4.3 Download and Extract Files

The product and associated documentation will be available via the National Patch Tracking Module in FORUM and the SOFTWARE.DIR directory at the OI&T Field Offices listed below.

REDACTED

The preferred method is to retrieve the file(s) using Secure File Transfer Protocol (SFTP) from download.vista.med.va.gov, which transmits files from the first available SFTP server.

**Table 4: Files for Retrieval**

File Name	Contents	Retrieval Format
LAB_MICRO_INTERFACE_RELEASE_1_0.KID	Host File containing ASCII	ASCII
LAB_MICRO_INTERFACE_RELEASE_1_0_DOCS.ZIP	VLE Micro_Lab_Micro_Interface_Release_1.0_Technical_Manual  VLE Micro_Lab_Micro_Interface_Release_1.0_User_Guide  VLE Micro_Deployment_Installation_Roll Back_Back Out_Guide	Binary

## 4.4 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

Local or Regional OI&T staff will coordinate the patch installation with the Laboratory Information Manager (LIM) at each site. The Local or Regional OI&T staff have the necessary access and skill set to conduct the installation.

## 4.5 Pre-Installation and System Requirements

The Lab Micro Interface Release 1.0 installation must be coordinated with the Laboratory Automated Data Processing Application Coordinator (ADPAC) to ensure that all Lab Interface related activities are halted.

## 4.6 Installation Procedure

Follow the instructions outlined in the Table below to install the software.

**Table 5: M Code Installation Instructions**

Step #	Description	✓
1	Access the KIDS menu (XPD MAIN).	
2	From the KIDS menu, select the Installation menu.	
3	From the Installation menu, select option #1: Load a Distribution.	
4	When prompted, 'Enter a Host File:', select LAB_MICRO_INTERFACE_RELEASE_1_0.KID	
5	When prompted, 'Want to Continue with Load? YES//', respond "Yes".	
6	When prompted, 'Want to RUN the Environment Check Routine? YES//' respond "Yes".	
7	From the Installation menu, select option #2, Verify Checksums in Transport Global.	
8	When prompted 'Select INSTALL NAME:' respond 'LA*5.2*90'	
9	When prompted 'Want each Routine Listed with Checksums: Yes//' respond "Yes"	
	<b>a</b> Verify the following routine information for LA*5.2*90: LA7VHLU6    Calculated    58736241 LA7VIN2A    Calculated    34485992 LA7VIN7     Calculated    83943151 LA7VIN7A    Calculated    61187996 LA7VIN7B    Calculated    65792075 LA90A        Calculated    5670536	

Step #	Description		✓
	<b>b</b>	Verify the following routine information for LR*5.2*474: LRMIEDZ2    Calculated    72283385 LRVR0        Calculated    154172378 LRVRMI2     Calculated    36282264 LRVRMI2A    Calculated    78602425 LRVRMI3     Calculated    26756120 LRVRMI4     Calculated    39771458 LRVRMI4A    Calculated    96471289	
10	From the Installation menu, select option #3, Print Transport Global		
11	When prompted 'Select INSTALL NAME:' respond 'LA*5.2*90'		
12	When prompted 'Select one of the following:' respond "1" for Print Summary.		
13	When prompted 'Want each Routine Listed with Checksums: Yes//' respond "Yes"		
14	From the Installation menu, select option #4, Compare Transport Global to Current System.		
15	When prompted 'Select INSTALL NAME:' respond 'LA*5.2*90'		
16	When prompted 'Select one of the following:' respond "2" for Second line of Routines only.		
17	From the Installation menu, select option #5: Backup a Global Transport.		
18	When prompted 'Select INSTALL NAME:' respond 'LA*5.2*90'		
19	From the Installation menu, select option #6: Install Package(s) .		
20	When prompted 'Select INSTALL NAME:' respond 'LA*5.2*90'		
21	When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond "NO".		
22	When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond "NO".		
23	When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond "NO".		
24	When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond "NO".		
25	If prompted 'Delay Install (Minutes): (0 - 60): 0//', respond "NO".		
26	After receiving the message 'Install Completed', print out the Install for both the LA*5.2*90 and the LR*5.2*474 patches.  From the KIDS menu, select the Utilities menu.		

Step #	Description	✓
27	From the Utilities menu, select Install File Print.	
28	When prompted 'Select INSTALL NAME:' respond 'LA*5.2*90'	
29	From the Utilities menu, select Install File Print.	
30	When prompted 'Select INSTALL NAME:' respond 'LR*5.2*474'	
31	Save all printouts.	

## 5 Back-Out Procedure

The build does not make any changes that would affect the operational state of the software and platform settings. The functionality in the Lab Micro Interface Release 1.0 build will not be available until the installation process has been successfully completed.

### 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, please 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.

### 5.3 Back-Out Criteria

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

- Failed baseline testing.
- 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**

The need for a back-out is highly unlikely, however if it is required, please contact the Product Support team for assistance.

## **6 Rollback Procedure**

The LR\*5.2\*474 and LA\*5.2\*90 patches (part of the combined build, Lab Micro Interface Release 1.0) as well as any installed dependent patch changes that follow these releases need to be taken out in reverse of the order in which they were installed; routines and data dictionary modifications and populated data must also be rolled back in reverse order.

Please contact the VA Help Desk at 1-855-763-4357 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, the Lab Manager, 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, please contact the Product Support team for assistance. The rollback procedure will require Lab downtime and a reinstall of any previous KIDS versions.



# Appendix A: Examples of Auto Instrument File and Load / Worklists

Figure 1 below displays examples of the AUTO INSTRUMENT file (#62.4) and LOAD / WORKLIST pairs for the BD EpiCenter™ and bioMérieux Myla™ software and the BD Bactec™, Dade MicroScan™, and bioMérieux Vitek™ systems.

**Note:** For more information on configurations with applicable middleware and analyzers, consult the manufacturer of the product(s).

**Figure 1: Examples of Auto Instrument File and Load / Worklists**

<b><u>AUTO INSTRUMENT: EPICENTER</u></b>	
NUMBER: 285	NAME: EPICENTER
LOAD/WORK LIST: BACTEC FX	
ENTRY FOR LAGEN ROUTINE: <u>ACCESSION</u> <u>CROSS-REFERENCE</u>	
CROSS LINKED BY: IDE	MESSAGE CONFIGURATION: LA7UI3
METHOD: BACTEC	DEFAULT ACCESSION AREA:
MICROBIOLOGY	
OVERLAY DATA: YES	STORE REMARKS: YES
NUMBER: 1	TEST: BLOOD CULTURE
UI TEST CODE: STDANF	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: YES	
NUMBER: 2	TEST: MYCOLOGY CULTURE
UI TEST CODE: MYCFLYTIC	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: YES	
FILE BUILD ENTRY: EN	FILE BUILD ROUTINE: LA7UID
AUTO DOWNLOAD: YES	SHORT ACCESSION # LENGTH: 5
AUTO RELEASE: NO	WKLD METHOD: BACTEC 9240
WKLD CODE METHOD NAME: BACTEC 9240	WKLD CODE SUFFIX: .7103
<b><u>LOAD/WORKLIST: BACTEC FX</u></b>	
NAME: BACTEC FX	LOAD TRANSFORM: UNIVERSAL
TYPE: TRAY,CUP	CUPS PER TRAY: 10
FULL TRAY'S ONLY: NO	INCLUDE UNCOLLECTED ACCESSIONS: NO
USER ACCESS AUTHORIZATION: LRVERIFY	DATE OF SETUP: JUN 13, 2016
PROFILE: BLOOD CULTURE	ACCESSION AREA: BLOOD CULTURE
UID VERIFICATION: ANY ACCESSION AREA	STORE DUPLICATE COMMENTS: NO
DEFAULT REFERENCE LABORATORY: TAMPA VAMC	
AUTO RELEASE: NO	
TEST: BLOOD CULTURE	BUILD NAME ONLY: NO
TEST: MYCOLOGY CULTURE	BUILD NAME ONLY: NO
PROFILE: MYCOLOGY CULTURE	ACCESSION AREA: FUNGAL
UID VERIFICATION: ANY ACCESSION AREA	DEFAULT REFERENCE LABORATORY: TAMPA
VAMC	
AUTO RELEASE: NO	
TEST: MYCOLOGY CULTURE	BUILD NAME ONLY: NO
WKLD METHOD: BACTEC 9240	WKLD CODE METHOD NAME: BACTEC 9240
WKLD CODE SUFFIX: .7103	MAJOR ACCESSION AREA: MICROBIOLOGY
LAB SUBSECTION: BLOOD CULTURE	

**AUTO INSTRUMENT: VITEK MS**

NUMBER: 286	NAME: VITEK MS
LOAD/WORK LIST: VITEK MS	
ENTRY FOR LAGEN ROUTINE: <u>ACCESSION</u> <u>CROSS-REFERENCE</u>	
CROSS LINKED BY: IDE	MESSAGE CONFIGURATION: LA7UI3
METHOD: VITEK	DEFAULT ACCESSION AREA:
MICROBIOLOGY	
OVERLAY DATA: YES	STORE REMARKS: YES
NUMBER: 1	TEST: BLOOD CULTURE
UI TEST CODE: C	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: YES	
NUMBER: 2	TEST: CULTURE & SUSCEPTIBILITY
UI TEST CODE: C	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: YES	
NUMBER: 3	TEST: MYCOLOGY CULTURE
UI TEST CODE: C	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: YES	
NUMBER: 4	TEST: CULTURE & SUSCEPTIBILITY
UI TEST CODE: <u>O2-FINAL</u> <u>ORGANISM</u> <u>NAME</u>	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: NO	
FILE BUILD ENTRY: EN	FILE BUILD ROUTINE: LA7UID
MICRO INTERPRETATION CHECK: CHECK BOTH FILE AND INSTRUMENT INTERPRETATION OVER	
WRITE WITH FILE	AUTO DOWNLOAD: YES
SHORT ACCESSION # LENGTH: 5	AUTO RELEASE: NO
WKLD METHOD: VITEK AMS	WKLD CODE METHOD NAME: VITEK AMS
WKLD CODE SUFFIX: .7087	

**LOAD/WORKLIST: VITEK MS**

NAME: VITEK MS	LOAD TRANSFORM: UNIVERSAL
TYPE: SEQUENCE/BATCH	CUPS PER TRAY: 0
FULL TRAY'S ONLY: NO	EXPAND PANELS ON PRINT: NO
INCLUDE UNCOLLECTED ACCESSIONS: NO	USER ACCESS AUTHORIZATION: LRVERIFY
DATE OF SETUP: JUL 15, 2016	
PROFILE: CULTURE	ACCESSION AREA: MICROBIOLOGY
UID VERIFICATION: ANY ACCESSION AREA	STORE DUPLICATE COMMENTS: NO
DEFAULT REFERENCE LABORATORY: TAMPA VAMC	
AUTO RELEASE: NO	
TEST: BLOOD CULTURE	BUILD NAME ONLY: NO
TEST: MYCOLOGY CULTURE	BUILD NAME ONLY: NO
TEST: CULTURE & SUSCEPTIBILITY	BUILD NAME ONLY: NO
WKLD METHOD: VITEK AMS	WKLD CODE METHOD NAME: VITEK AMS
WKLD CODE SUFFIX: .7087	MAJOR ACCESSION AREA: MICROBIOLOGY
LAB SUBSECTION: MICROBIOLOGY	

**AUTO INSTRUMENT: VITEK II**

NUMBER: 287	NAME: VITEK II
LOAD/WORK LIST: VITEK II	
ENTRY FOR LAGEN ROUTINE: <u>ACCESSION</u> <u>CROSS-REFERENCE</u>	
CROSS LINKED BY: IDE	MESSAGE CONFIGURATION: LA7UI3

METHOD: VITEK MICROBIOLOGY OVERLAY DATA: YES NUMBER: 1 UI TEST CODE: C DOWNLOAD TO INSTRUMENT: YES NUMBER: 2 UI TEST CODE: C DOWNLOAD TO INSTRUMENT: YES NUMBER: 3 UI TEST CODE: C DOWNLOAD TO INSTRUMENT: YES FILE BUILD ENTRY: EN AUTO DOWNLOAD: YES WKLD METHOD: VITEK WKLD CODE SUFFIX: .7015	DEFAULT ACCESSION AREA:  STORE REMARKS: YES TEST: CULTURE & SUSCEPTIBILITY ACCEPT RESULTS FOR THIS TEST: YES  TEST: BLOOD CULTURE ACCEPT RESULTS FOR THIS TEST: YES  TEST: MYCOLOGY CULTURE ACCEPT RESULTS FOR THIS TEST: YES  FILE BUILD ROUTINE: LA7UID AUTO RELEASE: NO WKLD CODE METHOD NAME: VITEK
--	---

**LOAD/WORKLIST: VITEK II**

NAME: VITEK II TYPE: SEQUENCE/BATCH FULL TRAY'S ONLY: NO INCLUDE UNCOLLECTED ACCESSIONS: NO DATE OF SETUP: SEP 16, 2016 PROFILE: CULTURE UID VERIFICATION: ANY ACCESSION AREA DEFAULT REFERENCE LABORATORY: TAMPA VAMC AUTO RELEASE: NO TEST: CULTURE & SUSCEPTIBILITY TEST: BLOOD CULTURE TEST: MYCOLOGY CULTURE WKLD METHOD: VITEK AMS WKLD CODE SUFFIX: .7087 LAB SUBSECTION: MICROBIOLOGY	LOAD TRANSFORM: UNIVERSAL CUPS PER TRAY: 0 EXPAND PANELS ON PRINT: NO USER ACCESS AUTHORIZATION: LRVERIFY  ACCESSION AREA: MICROBIOLOGY STORE DUPLICATE COMMENTS: NO  BUILD NAME ONLY: NO BUILD NAME ONLY: NO BUILD NAME ONLY: NO WKLD CODE METHOD NAME: VITEK AMS MAJOR ACCESSION AREA: MICROBIOLOGY
---	---

**AUTO INSTRUMENT: MICROSCAN**

NUMBER: 95 LOAD/WORK LIST: MICROSCAN ENTRY for LAGEN ROUTINE: Accession cross-reference CROSS LINKED BY: IDE METHOD: MICROSCAN STORE REMARKS: YES NUMBER: 1 UI TEST CODE: ID STORE REMARKS: YES NUMBER: 2 UI TEST CODE: ID STORE REMARKS: YES NUMBER: 3 UI TEST CODE: ID STORE REMARKS: YES NUMBER: 4	NAME: MICROSCAN    MESSAGE CONFIGURATION: LA7UI1 OVERLAY DATA: YES  TEST: CULTURE, ABSCESS DOWNLOAD TO INSTRUMENT: YES ACCESSION AREA: MICROBIOLOGY CDD TEST: CULTURE, ASPIRATE DOWNLOAD TO INSTRUMENT: YES ACCESSION AREA: MICROBIOLOGY CDD TEST: CULTURE, BLOOD DOWNLOAD TO INSTRUMENT: YES ACCESSION AREA: BLOOD CULTURES TEST: CULTURE, BODY FLUID
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UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 5	TEST: CULTURE, TISSUE
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 6	TEST: CULTURE, BONE
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 7	TEST: CULTURE, BONE MARROW
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 8	TEST: CULTURE, BRONCHIAL
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 9	TEST: CULTURE, CATHETER TIP
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 10	TEST: CULTURE, CSF
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 11	TEST: CULTURE, EAR
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 12	TEST: CULTURE, EYE
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 13	TEST: CULTURE, GC
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 14	TEST: CULTURE, SPUTUM
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 15	TEST: CULTURE, STOOL
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 16	TEST: CULTURE, URINE
UI TEST CODE: ID	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: YES	STORE REMARKS: YES
ACCESSION AREA: MICROBIOLOGY CDD	
NUMBER: 17	TEST: CULTURE, WOUND-DEEP
UI TEST CODE: ID	DOWNLOAD TO INSTRUMENT: YES
STORE REMARKS: YES	ACCESSION AREA: MICROBIOLOGY CDD
NUMBER: 18	TEST: CULTURE, WOUND-SUPERFICIAL
UI TEST CODE: ID	ACCEPT RESULTS FOR THIS TEST: YES
DOWNLOAD TO INSTRUMENT: YES	STORE REMARKS: YES
ACCESSION AREA: MICROBIOLOGY CDD	
NUMBER: 19	TEST: PRE-PROSTATE BIOPSY RECTAL SCREEN
UI TEST CODE: ID	ACCEPT RESULTS FOR THIS TEST: YES

DOWNLOAD TO INSTRUMENT: YES      STORE REMARKS: YES  
 ACCESSION AREA: MICROBIOLOGY CDD  
 NUMBER: 20                      TEST: MDRO SCREEN  
 UI TEST CODE: ID              ACCEPT RESULTS FOR THIS TEST: YES  
 DOWNLOAD TO INSTRUMENT: YES      STORE REMARKS: YES  
 ACCESSION AREA: MICROBIOLOGY CDD  
 NUMBER: 21                      TEST: .CULTURE, THROAT  
 UI TEST CODE: ID              DOWNLOAD TO INSTRUMENT: YES  
 STORE REMARKS: YES  
 FILE BUILD ENTRY: EN              FILE BUILD ROUTINE: LA7UID  
 AUTO DOWNLOAD: YES              WKLD METHOD: MICROSCAN  
 WKLD CODE METHOD NAME: MICROSCAN      WKLD CODE SUFFIX: .7038

**LOAD/WORKLIST: MICROSCAN**

NUMBER: 109                      NAME: MICROSCAN  
 LOAD TRANSFORM: UNIVERSAL      TYPE: SEQUENCE/BATCH  
 CUPS PER TRAY: 0              FULL TRAY'S ONLY: NO  
 VERIFY BY: ACCESSION              SUPPRESS SEQUENCE #: NO  
 INCLUDE UNCOLLECTED ACCESSIONS: NO      DATE OF SETUP: NOV 12, 2016  
 FIRST TRAY: 1                      STARTING CUP: 1  
 LAST TRAY: 1                      BUILDING IN PROGRESS: NO  
 PROFILE: BLOOD CULTURE              ACCESSION AREA: BLOOD CULTURES  
 UID VERIFICATION: ANY ACCESSION AREA  
 TEST: CULTURE, BLOOD              BUILD NAME ONLY: NO  
 PROFILE: MICROBIOLOGY              ACCESSION AREA: MICROBIOLOGY CDD  
 UID VERIFICATION: ANY ACCESSION AREA  
 TEST: CULTURE, ABSCESS              BUILD NAME ONLY: NO  
 TEST: CULTURE, ASPIRATE              BUILD NAME ONLY: NO  
 TEST: CULTURE, BODY FLUID              BUILD NAME ONLY: NO  
 TEST: CULTURE, BONE              BUILD NAME ONLY: NO  
 TEST: CULTURE, BONE MARROW              BUILD NAME ONLY: NO  
 TEST: CULTURE, BRONCHIAL              BUILD NAME ONLY: NO  
 TEST: CULTURE, CATHETER TIP              BUILD NAME ONLY: NO  
 TEST: CULTURE, CSF              BUILD NAME ONLY: NO  
 TEST: CULTURE, EAR              BUILD NAME ONLY: NO  
 TEST: CULTURE, EYE              BUILD NAME ONLY: NO  
 TEST: CULTURE, GC              BUILD NAME ONLY: NO  
 TEST: CULTURE, SPUTUM              BUILD NAME ONLY: NO  
 TEST: CULTURE, STOOL              BUILD NAME ONLY: NO  
 TEST: CULTURE, TISSUE              BUILD NAME ONLY: NO  
 TEST: CULTURE, URINE              BUILD NAME ONLY: NO  
 TEST: CULTURE, WOUND-DEEP              BUILD NAME ONLY: NO  
 TEST: CULTURE, WOUND-SUPERFICIAL              BUILD NAME ONLY: NO  
 TEST: MDRO SCREEN              BUILD NAME ONLY: NO  
 TEST: PRE-PROSTATE BIOPSY RECTAL SCREEN  
 BUILD NAME ONLY: NO

TEST: .CULTURE, THROAT                      BUILD NAME ONLY: NO  
WKLD METHOD: MICROSCAN                      WKLD CODE METHOD NAME: MICROSCAN  
WKLD CODE SUFFIX: .7038                      MAJOR ACCESSION AREA: MICROBIOLOGY CDD

**Auto Instrument: MYLA**

NUMBER: 602                      NAME: MYLA  
LOAD/WORK LIST: IMB  
ENTRY for LAGEN ROUTINE: Accession cross-reference  
CROSS LINKED BY: IDE                      MESSAGE CONFIGURATION: LA7UI4  
METHOD: MYLA                      DEFAULT ACCESSION AREA: IBACTERIOLOGY  
OVERLAY DATA: YES                      STORE REMARKS: YES  
NUMBER: 1                      TEST: BLOOD CULTURE (AEROBE,ANAEROBE)  
UI TEST CODE: C                      ACCEPT RESULTS FOR THIS TEST: YES  
DOWNLOAD TO INSTRUMENT: YES                      STORE REMARKS: YES  
ACCESSION AREA: IBLOOD CULTURE  
NUMBER: 2                      TEST: C&S (AEROBIC) + GRAM STAIN  
UI TEST CODE: CGS                      ACCEPT RESULTS FOR THIS TEST: YES  
DOWNLOAD TO INSTRUMENT: YES                      STORE REMARKS: YES  
ACCESSION AREA: IBACTERIOLOGY  
NUMBER: 3                      TEST: GRAM STAIN  
UI TEST CODE: GS                      ACCEPT RESULTS FOR THIS TEST: YES  
DOWNLOAD TO INSTRUMENT: YES                      STORE REMARKS: YES  
ACCESSION AREA: IBACTERIOLOGY  
NUMBER: 4                      TEST: C&S (AEROBIC CULTURE/SUSCEPT)  
UI TEST CODE: CNS                      ACCEPT RESULTS FOR THIS TEST: YES  
DOWNLOAD TO INSTRUMENT: YES                      STORE REMARKS: YES  
ACCESSION AREA: IBACTERIOLOGY  
NUMBER: 5                      TEST: AFB CULTURE & SMEAR  
UI TEST CODE: AFB                      ACCEPT RESULTS FOR THIS TEST: YES  
DOWNLOAD TO INSTRUMENT: YES                      ACCESSION AREA: IMYCOBACTERIUM  
NUMBER: 6                      TEST: C&S (URINE CULTURE)\*NE,IC  
UI TEST CODE: UCS                      DOWNLOAD TO INSTRUMENT: YES  
ACCESSION AREA: IBACTERIOLOGY  
FILE BUILD ENTRY: EN                      FILE BUILD ROUTINE: LA7UID  
AUTO DOWNLOAD: YES                      AUTO RELEASE: NO

**Load/Worklist: IMB**

NUMBER: 247                      NAME: IMB  
LOAD TRANSFORM: UNIVERSAL                      TYPE: SEQUENCE/BATCH  
CUPS PER TRAY: 0                      FULL TRAY'S ONLY: NO  
EXPAND PANELS ON PRINT: NO                      INCLUDE UNCOLLECTED ACCESSIONS: NO  
USER ACCESS AUTHORIZATION: LRVERIFY  
PROFILE: IMB                      ACCESSION AREA: IBACTERIOLOGY  
UID VERIFICATION: ANY ACCESSION AREA                      STORE DUPLICATE COMMENTS: YES  
DEFAULT REFERENCE LABORATORY: IOWA CITY HCS  
AUTO RELEASE: NO

TEST: BLOOD CULTURE (AEROBE,ANAEROBE) BUILD NAME ONLY: NO  
TEST: C&S (AEROBIC) + GRAM STAIN BUILD NAME ONLY: NO  
TEST: GRAM STAIN BUILD NAME ONLY: NO  
TEST: C&S (AEROBIC CULTURE/SUSCEPT) BUILD NAME ONLY: NO  
TEST: ANAEROBIC CULTURE BUILD NAME ONLY: NO  
TEST: C&S (URINE CULTURE)\*NE,IC BUILD NAME ONLY: NO  
WKLD METHOD: MANUAL MICRO WKLD CODE METHOD NAME: MANUAL MICRO  
WKLD CODE SUFFIX: .7000 MAJOR ACCESSION AREA: IBACTERIOLOGY  
LAB SUBSECTION: IBACTERIOLOGY

**Load/Worklist: IBC (a second one used for MYLA)**

NUMBER: 390 NAME: IBC  
LOAD TRANSFORM: UNIVERSAL TYPE: SEQUENCE/BATCH  
CUPS PER TRAY: 0 FULL TRAY'S ONLY: NO  
EXPAND PANELS ON PRINT: NO INCLUDE UNCOLLECTED ACCESSIONS: NO  
USER ACCESS AUTHORIZATION: LRVERIFY  
PROFILE: IBC ACCESSION AREA: IBLOOD CULTURE  
UID VERIFICATION: ANY ACCESSION AREA STORE DUPLICATE COMMENTS: YES  
DEFAULT REFERENCE LABORATORY: IOWA CITY HCS  
AUTO RELEASE: NO  
TEST: BLOOD CULTURE (AEROBE,ANAEROBE) BUILD NAME ONLY: NO  
TEST: FUNGAL BLOOD CULTURE\*NE,IC BUILD NAME ONLY: NO  
TEST: AFB CULTURE & SMEAR BUILD NAME ONLY: NO  
WKLD METHOD: MANUAL MICRO WKLD CODE METHOD NAME: MANUAL MICRO  
WKLD CODE SUFFIX: .7000 MAJOR ACCESSION AREA: IBLOOD CULTU

## Appendix B: Captured Install

The following is an example of a captured install with LA\*5.2\*90 installed first followed by LR\*5.2\*474 as part of the installation process for the Lab Micro Interface Release 1.0 build.

### Figure 2: Captured Installation

```
SELECT INSTALLATION <TEST ACCOUNT> OPTION: INSTALL PACKAGE(S)
SELECT INSTALL NAME: LA*5.2*90 12/20/16@15:20:44
=> LAB MICRO INTERFACE RELEASE 1.0 ;CREATED ON DEC 20, 2016@11:55:47
```

THIS DISTRIBUTION WAS LOADED ON DEC 20, 2016@15:20:44 WITH HEADER OF  
LAB MICRO INTERFACE RELEASE 1.0 ;CREATED ON DEC 20, 2016@11:55:47  
IT CONSISTED OF THE FOLLOWING INSTALL(S):  
LA\*5.2\*90 LR\*5.2\*474  
CHECKING INSTALL FOR PACKAGE LA\*5.2\*90  
WILL FIRST RUN THE ENVIRONMENT CHECK ROUTINE, LA90A

```

- - - ENVIRONMENT CHECK IS OK - - -

```

## INSTALL QUESTIONS FOR LA\*5.2\*90

INCOMING FILES:

## 62.4 AUTO INSTRUMENT

NOTE: YOU ALREADY HAVE THE 'AUTO INSTRUMENT' FILE.

CHECKING INSTALL FOR PACKAGE LR\*5.2\*474

## INSTALL QUESTIONS FOR LR\*5.2\*474

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)

LR\*5.2\*474

[illegible]

## INSTALLING PACKAGE COMPONENTS:

## INSTALLING PARAMETER DEFINITION



