VistA Laboratory Enhancements - Auto Verification

Installation, Back-out, and Rollback Plan

Department of Veterans Affairs
June 2016
Version 1.4
Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
<th>Author</th>
</tr>
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<tr>
<td>6/28/2016</td>
<td>1.4</td>
<td>Peer reviewed; removed blue instructional text.</td>
<td>B. Brown</td>
</tr>
<tr>
<td>6/25/2016</td>
<td>1.3</td>
<td>Update and incorporate feedback from M.Belschwinder</td>
<td>D. Englert</td>
</tr>
<tr>
<td>6/24/2016</td>
<td>1.2</td>
<td>Update for National Release</td>
<td>D. Englert</td>
</tr>
<tr>
<td>11/2/2015</td>
<td>1.1</td>
<td>Update Rollback procedures</td>
<td>D. Englert</td>
</tr>
<tr>
<td>10/29/2015</td>
<td>1.0</td>
<td>Original Draft - ORR</td>
<td>D. Englert</td>
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</tbody>
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Artifact Rationale

The Installation, Back-out, Rollback Plan 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.
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1. Introduction

This document provides installation instructions for LR*5.2*458 & LA*5.2*88 as managed through the VistA Lab Enhancement-Auto Verification project.

1.1.1. Documentation Conventions

This manual uses several methods to highlight different aspects of the material. Various symbols are used throughout the documentation to alert the reader to special information. The following table gives a description of each of these symbols.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOTE: Used to inform the reader of general information including references to additional reading material</td>
<td></td>
</tr>
<tr>
<td>CAUTION: Used to caution the reader to take special notice of critical information</td>
<td></td>
</tr>
</tbody>
</table>

- “Snapshots” of computer online displays (i.e., character-based screen captures/dialogs) and computer source code are shown in a non-proportional font and enclosed within a box. Also included are Graphical User Interface (GUI) Microsoft Windows images (i.e., dialogs or forms).
- User's responses to online prompts (e.g., manual entry, taps, clicks, etc.) will be **boldface** type.
- All uppercase is reserved for the representation of acronyms, M code, variable names, or the formal name of options, field and file names, and security key (e.g., the XUPROGMODE key).

2. System Requirements

Provide the minimum requirements for the product to be installed, as well as the recommended hardware and software system requirements, including platform, OS, and storage requirements. N/A, enhancements operate within VistA Laboratory.

2.1. Platform Installation and Preparation
Please note:

The person installing the KIDS build will be prompted with 1 or 2 pre-install questions requiring yes/no answers.

1. The first question is: **Is this site using the Lab UI V1.6 interface?**
   - If they answer NO then installation will proceed to update the interface to HL7 v2.5.1.
   - If they answer YES then a second question will be asked.

2. The second question is: **Has the Lab UI COTS driver been upgraded to send HL7 v2.5.1 messages?**
   a. This normally involves a driver update on the COTS GIM system to allow the COTS system to send HL7 messages indicating either HL7 v2.2 or v2.5.1.

   Contact your Laboratory Information Manager to confirm the status of the driver update.
   - If they answer YES then the installation will proceed to update the interface to HL7 v2.5.1
   - If they answer NO then the installation will abort.

If the installation is aborted during the pre-install, the installation can be restarted using the Install Package(s) option.

---

2.2. **Download and Extract Procedure**

Log in to and download the software from Software Anonymous

2.3. **Database Creation**

N/A
3. Installation Process

3.1. Host File Selection

Select OPTION NAME: XPD MAIN  
Kernel Installation & Distribution System

Select Kernel Installation & Distribution System <TEST ACCOUNT> Option: installation

Select Installation <TEST ACCOUNT> Option: LOAD a Distribution
Enter a Host File: VA4$:[LAB]LAB_AUTORELEASE_1_0.KID

KIDS Distribution saved on May 12, 2016@14:42:42
Comment: LAB AUTO-RELEASE 1.0

This Distribution contains Transport Globals for the following Package(s):
Build LA*5.2*88 has been loaded before, here is when:
  LA*5.2*88  Install Completed
  was loaded on Jun 03, 2015@15:12:27
OK to continue with Load? NO// YES

Build LR*5.2*458  Install Completed
  was loaded on Mar 16, 2016@11:59:03
OK to continue with Load? NO// YES

Distribution OK!

Want to Continue with Load? YES// YES
Loading Distribution...

3.2. Environment Check

Build LA*5.2*88 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES// YES
LA*5.2*88
Will first run the Environment Check Routine, LA88A

Sending transport global loaded alert to mail group G.LMI

--- Environment is okay ---

LR*5.2*458
Use INSTALL NAME: LA*5.2*88 to install this Distribution.

Transport global for patch LA*5.2*88 loaded on May 12, 2016@14:50
3.3. Select Account

Select Installation <TEST ACCOUNT> Option: **VERIFY** Checksums in Transport Global
Select INSTALL NAME: **LA*5.2*88** Loaded from Distribution
5/12/16@14:49:43
=> LAB AUTO-RELEASE 1.0 ;Created on May 12, 2016@14:42:42

This Distribution was loaded on May 12, 2016@14:49:43 with header of LAB AUTO-RELEASE 1.0 ;Created on May 12, 2016@14:42:42 It consisted of the following Install(s):
**LA*5.2*88** LR*5.2*458

Want each Routine Listed with Checksums: Yes// **YES**
DEVICE: **HOME**// ;80;1000 VIRTUAL TELNET

---

LA7UCFG Calculated 137316017
LA7UCFG1 Calculated 29526912
LA7UIO1 Calculated 75417661
LA7UTILB Calculated 23365722
LA7VHL Calculated 38289473
LA7VHLU8 Calculated 60447079
LA7VHLU9 Calculated 33364706
LA7VIN Calculated 31997123
LA7VIN1 Calculated 65233143
LA7VIN2 Calculated 46992282
LA7VIN2A Calculated 34119950
LA7VIN4 Calculated 81803911
LA7VIN4A Calculated 23154184
LA7VIN5 Calculated 85555425
LA7VIN5A Calculated 34608326
LA7VORC Calculated 22779822
LA88 Calculated 37005513
LA88A Calculated 100793409

18 Routines checked, 0 failed.

---

LR458 Calculated 3643881
LRDIQ Calculated 6385366
LRGP2 Calculated 21346835
LRLISTPS Calculated 17691343
3.4. Backup Transport Global

Select Installation <TEST ACCOUNT> Option: BACKup a Transport Global
Select INSTALL NAME: LA*5.2*88 Loaded from Distribution 5/12/16@14:49:
43
=> LAB AUTO-RELEASE 1.0 ;Created on May 12, 2016@14:42:42

This Distribution was loaded on May 12, 2016@14:49:43 with header of
LAB AUTO-RELEASE 1.0 ;Created on May 12, 2016@14:42:42
It consisted of the following Install(s):
LA*5.2*88 LR*5.2*458
Subject: Backup of LA*5.2*88 install on May 12, 2016
Replace
Loading Routines for LA*5.2*88.................
Routine LA88 is not on the disk...
Loading Routines for LR*5.2*458
Routine LR458 is not on the disk.........
Send mail to: LRUSER,DRI // LRUSER,DRI
Select basket to send to: IN/
And Send to:

3.5. Install Package

Select Installation <TEST ACCOUNT> Option: INSTAll Package(s)
Select INSTALL NAME: LA*5.2*88 Loaded from Distribution 5/12/16@14:49:
43
=> LAB AUTO-RELEASE 1.0 ;Created on May 12, 2016@14:42:42

This Distribution was loaded on May 12, 2016@14:49:43 with header of
LAB AUTO-RELEASE 1.0 ;Created on May 12, 2016@14:42:42
It consisted of the following Install(s):
LA*5.2*88 LR*5.2*458
Checking Install for Package LA*5.2*88
Will first run the Environment Check Routine, LA88A
3.6. **COTS Driver Inquiry and Verification**

<table>
<thead>
<tr>
<th>Sending install started alert to mail group G.LMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is this site using the Lab UI V1.6 interface? No// <strong>YES</strong></td>
</tr>
<tr>
<td>Has the Lab UI COTS driver been upgraded to send HL7 v2.5.1 messages? No// <strong>YES</strong></td>
</tr>
</tbody>
</table>

Disabling Option [LA7 MAIN MENU]

Shutting down currently running Lab HL7 processes

Acquiring locks ...

Locks acquired.

**NOTE:** If you abort this installation

D RESTORE^LA88A from this console.

--- Environment is okay ---

ℹ️ **Please note:**

The person installing the KIDS build will be prompted with 1 or 2 pre-install questions requiring yes/no answers.

The first question is: **Is this site using the Lab UI V1.6 interface?**

- If they answer **NO** then installation will proceed to update the interface to HL7 v2.5.1.
- If they answer **YES** then a second question will be asked.

The second question is: **Has the Lab UI COTS driver been upgraded to send HL7 v2.5.1 messages?**

This normally involves a driver update on the COTS GIM system to allow the COTS system to send HL7 messages indicating either HL7 v2.2 or v2.5.1.

Contact your Laboratory Information Manager to confirm the status of the driver update.

- If they answer **YES** then the installation will proceed to update the interface to HL7 v2.5.1
- If they answer **NO** then the installation will abort.
If the installation is aborted during the pre-install, the installation can be restarted using the Install Package(s) option.

3.7. Final Install Questions

Install Questions for LA*5.2*88

Incoming Files:

62.4 AUTO INSTRUMENT (Partial Definition)
Note: You already have the 'AUTO INSTRUMENT' File.

62.485 LA7 MESSAGE LOG BULLETINS (including data)
Note: You already have the 'LA7 MESSAGE LOG BULLETINS' File.
I will OVERWRITE your data with mine.

Checking Install for Package LR*5.2*458

Install Questions for LR*5.2*458

Incoming Files:

68.2 LOAD/WORK LIST (Partial Definition)
Note: You already have the 'LOAD/WORK LIST' 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? YES// NO

Enter the Device you want to print the Install messages.
Enter a '^' to abort the install.

DEVICE: HOME// VIRTUAL TELNET

LR*5.2*458

Enabling Option [LA7 MAIN MENU]

Be sure to restart the Lab Universal Interface Auto Download Job

*** Post install completed ***

Sending install completion alert to mail group G.LMI
Updating Routine file...
Updating KIDS files...
LR*5.2*458 Installed.  
   May 12, 2016@14:52:52

Not a production UCI

NO Install Message sent

<table>
<thead>
<tr>
<th></th>
<th>25</th>
<th>50</th>
<th>75</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Install Completed
4. Implementation Steps
Steps To Enable Auto Release

4.1. Set Auto Release Results System Wide parameter to enabled.

The Auto Release Results System Wide [LA7UI AUTO RELEASE MASTER] parameter is a system wide switch that can quickly enable/disable the auto release process. When this parameter is set to Disabled, it will disable the auto release process on this system, and will override the settings in the Auto Instrument file. When enabled, this will enable the auto release process for instruments that are marked for auto release (via the Auto Release field… see step #2 below).

Select Lab Universal Interface Menu Option: **UIS** Lab Universal Interface Setup

Select one of the following:
- 1 LA7 MESSAGE PARAMETER (#62.48)
- 2 AUTO INSTRUMENT (#62.4)
- 3 Auto Release System Parameter
- 4 Configuration Report (132 COL)
- 5 Holders of Lab keys
- 6 Ordering Provider Contact Parameter

Select which file to setup: 3 Auto Release System Parameter

Auto Release Results System Wide may be set for the following:
- 1 System SYS [xxxxxxxxxxxxxxxxx]
- 10 Package PKG [LAB MESSAGING]

Enter selection: 1 System xxxx.xxxx.xxx.xx.xxx
Setting Auto Release Results System Wide for System:
xxxx.xxxx.xxx.xx.xxx

AUTO RELEASE RESULTS SYSTEM WIDE: YES (ENABLED)// ?
This parameter is used to determine whether lab results are sent to the auto release process.

AUTO RELEASE RESULTS SYSTEM WIDE: YES (ENABLED)// ?
Do you want to Auto Release Results System Wide?.
Select one of the following:
- 0 NO (DISABLED)
- 1 YES (ENABLED)

AUTO RELEASE RESULTS SYSTEM WIDE: YES (ENABLED)//
4.2. Enable the instrument(s) for Auto Release.

The Auto Release field (#99) in the Auto Instrument file (#62.4) enables auto release on an instrument basis. It allows for different levels of granularity.

**Data Type**: Set of Codes

- 0: NO
- 1: YES
- 2: AUTO VERIFY ONLY
- 3: USER RELEASE ONLY

**Description**: If results received via this auto instrument entry can be associated with an external auto or user verification system then enable this field.

This field will be checked in conjunction with the auto release master switch parameter LA7UI AUTO RELEASE MASTER and the specific HL7 message containing the results to determine if the lab results should be processed by the Laboratory Auto Release process. It can be configured at several levels of granularity.

- 0 - no auto release for this auto instrument
- 1 - yes instrument is enabled for auto and user verification
- 2 - yes however only process results that have been auto verified
- 3 - yes however only process results that have been user verified, no auto verification.

Select Lab Universal Interface Menu Option: **UIS** Lab Universal Interface Setup

Select one of the following:

1. LA7 MESSAGE PARAMETER (#62.48)
2. AUTO INSTRUMENT (#62.4)
3. Auto Release System Parameter
4. Configuration Report (132 COL)
5. Holders of Lab keys
6. Ordering Provider Contact Parameter

Select which file to setup: **2 AUTO INSTRUMENT (#62.4)**

Select **AUTO INSTRUMENT NAME**: **ASTRA**

- NAME: ASTRA/
- LOAD/WORK LIST: AUTO RELEASE/
- ENTRY for LAGEN ROUTINE: Accession cross-reference /
- CROSS LINKED BY: IDE/
- MESSAGE CONFIGURATION: LA7UI1/
- METHOD: ASTRA1234/
- DEFAULT ACCESSION AREA: CHEMISTRY/
- OVERLAY DATA: YES/
- STORE REMARKS:
- VENDOR CARD ADDRESS:
- SEND TRAY/CUP LOCATION:
- AUTO DOWNLOAD: YES/
- AUTO RELEASE: YES/ ??
If results received via this auto instrument entry can be associated with an external auto or user verification system then enable this field. This field will be checked in conjunction with the auto release master switch parameter LA7UI AUTO RELEASE MASTER and the specific HL7 message containing the Results to determine if the lab results should be processed by the Laboratory Auto Release process.

It can be configured at several levels of granularity.
0 - no auto release for this auto instrument
1 - yes instrument is enabled for auto and user verification
2 - yes however only process results that have been auto verified
3 - yes however only process results that have been user verified, no auto verification.

Choose from:
0 NO
1 YES
2 AUTO VERIFY ONLY
3 USER RELEASE ONLY

AUTO RELEASE: YES//
Setting fields for auto download FILE BUILD ENTRY (#93) to: EN
FILE BUILD ROUTINE (#94) to: LA7UID ...Done

4.3. Create Load/List profile for Auto Release

The Default Reference Laboratory (#2.3) should be set to the Institution that should be used as the performing and releasing lab for results released via the auto release process.
b. The Auto Release field (#2.4) in the Load/Work List file (#68.2) is used to mark a profile as being used by the auto release process. There should only be one profile flagged per load list.

Data Type: Set of Codes
0: NO
1: YES

Description: If an auto release process to accept and file laboratory results from an external system using auto verification and/or human verification is being used then this field indicates to the auto release process which profile on this load list to use to process the lab results. There should only be one profile flagged per load list.

Select Supervisor menu Option: Edit the default parameters Load/Work list.
Select LOAD/WORK LIST NAME: AUTO RELEASE
LOAD TRANSFORM: UNIVERSAL//
TYPE: POINT OF CARE//
CUPS PER TRAY: 0//
FULL TRAY'S ONLY: NO//
EXPAND PANELS ON PRINT: YES//
INITIAL SETUP:
VERIFY BY: ACCESSION//
SUPPRESS SEQUENCE #: NO//
INCLUDE UNCOLLECTED ACCESSIONS: NO//
SHORT TEST LIST: NO//
WKLD METHOD: AUTO//
Select PROFILE: AUTO RELEASE//
ACCESSION AREA: CHEMISTRY//
UID VERIFICATION: ANY ACCESSION AREA//
STORE DUPLICATE COMMENTS: YES//
DEFAULT REFERENCE LABORATORY: VISN 2//
AUTO RELEASE: YES// ??

If an auto release process to accept and file laboratory results from an external system using auto verification and/or human verification is being used then this field indicates to the auto release process which profile on this load list to use to process the lab results.

There should only be one profile flagged per load list.
Choose from:
  0 NO
  1 YES

AUTO RELEASE: YES//

Select PROFILE:
Select LOAD/WORK LIST NAME:

4.4. Run Configuration Report
Checks the Auto Release configuration and to assist in configuring the middleware.

Select Lab Universal Interface Menu Option: Lab Universal Interface Setup

Select one of the following:
  1 LA7 MESSAGE PARAMETER (#62.48)
  2 AUTO INSTRUMENT (#62.4)
  3 Auto Release System Parameter
  4 Configuration Report (132 COL)
  5 Holders of Lab keys
  6 Ordering Provider Contact Parameter

Select which file to setup: 4 Configuration Report (132 COL)

Select AUTO INSTRUMENT NAME: ASTRA
DEVICE: HOME// 0;132;9999

4.5. Create Lab users in GIM
To assist in adding lab users to the middleware system, the following option can be used to print out a list of users that hold a certain lab key.
Select Lab Universal Interface Menu Option: Lab Universal Interface Setup

Select one of the following:
1 LA7 MESSAGE PARAMETER (#62.48)
2 AUTO INSTRUMENT (#62.4)
3 Auto Release System Parameter
4 Configuration Report (132 COL)
5 Holders of Lab keys
6 Ordering Provider Contact Parameter

Select which file to setup: 5 Holders of Lab keys

Select LAB SECURITY KEY NAME: LRVERIFY

Select Another LAB SECURITY KEY NAME:

All USERS? Yes// YES

DEVICE:

4.6. Configure Ordering Provider contact information

When VistA Lab sends a Lab HL7 Order message to the middleware, it will send the ordering provider’s contact info in the HL7 message. To override the default settings, and customize at a system or user level which contact info is sent, the following option can be used.

Select Lab Universal Interface Menu Option: Lab Universal Interface Setup

Select one of the following:
1 LA7 MESSAGE PARAMETER (#62.48)
2 AUTO INSTRUMENT (#62.4)
3 Auto Release System Parameter
4 Configuration Report (132 COL)
5 Holders of Lab keys
6 Ordering Provider Contact Parameter

Select which file to setup: 6 Ordering Provider Contact Parameter

Lab Ordering Provider Contact Info may be set for the following:
1 User USR [choose from NEW PERSON]
2 System SYS [xxx.xxx.xxx.xx.xxx]
3 Package PKG [AUTOMATED LAB INSTRUMENTS]

Enter selection: 2 System xxx.xxx.xxx.xx.xxx

Setting Lab Ordering Provider Contact Info for System: xxx.xxx.xxx.xx.xxx
Select Sequence: ??

Contains the list of which contact info for the ordering provider to send in a Lab HL7 Order message from the user's corresponding entry in NEW PERSON file (#200).
It can be specified at the system or the individual user level. If specified at the user level it takes precedence and overrides the setting at the system level allowing specific users to have their own specific set of contacts to send.

The sequence specifies the order and info to check, maximum of 6 allowed.

Only the first 2 with a value will be placed in the message as the HL7 standard constrains the number of repetitions for this information at 2.

The value specifies which field from the person's entry in NEW PERSON file (#200) to send in the message.

These are the fields currently available.

<table>
<thead>
<tr>
<th>Field #</th>
<th>Field Name Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.131</td>
<td>PHONE (HOME) This is the telephone number for the new person.</td>
</tr>
<tr>
<td>.132</td>
<td>OFFICE PHONE This is the business/office telephone for the new person.</td>
</tr>
<tr>
<td>.133</td>
<td>PHONE #3 This is an alternate telephone number where the new person might also be reached.</td>
</tr>
<tr>
<td>.134</td>
<td>PHONE #4 This is another alternate telephone number where the new person might also be reached.</td>
</tr>
<tr>
<td>.135</td>
<td>COMMERCIAL PHONE This is a commercial phone number.</td>
</tr>
<tr>
<td>.136</td>
<td>FAX NUMBER This field holds a phone number for a FAX machine for this user. It needs to be a format that can be understood by a sending MODEM.</td>
</tr>
<tr>
<td>.137</td>
<td>VOICE PAGER This field holds a phone number for an ANALOG PAGER that this person carries with them.</td>
</tr>
<tr>
<td>.138</td>
<td>DIGITAL PAGER This field holds a phone number for a DIGITAL PAGER that this person carries with them.</td>
</tr>
</tbody>
</table>

The parameter is distributed pre-configured at the package level as follows:

<table>
<thead>
<tr>
<th>Sequence Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 OFFICE PHONE</td>
</tr>
<tr>
<td>2 DIGITAL PAGER</td>
</tr>
<tr>
<td>3 VOICE PAGER</td>
</tr>
<tr>
<td>4 PHONE #3</td>
</tr>
<tr>
<td>5 PHONE #4</td>
</tr>
<tr>
<td>6 PHONE (HOME)</td>
</tr>
<tr>
<td>7 COMMERCIAL PHONE</td>
</tr>
<tr>
<td>8 FAX NUMBER</td>
</tr>
</tbody>
</table>

Select Sequence:

4.7. **Configure Proxy Users**

Local site personnel should assign DIVISIONS to the new proxy users, LRLAB,AUTO RELEASE and LRLAB,AUTO VERIFY, that corresponds to the performing laboratories that will utilize the auto release process.
• A new option was added to the Supervisor reports [LRSUPER REPORTS] menu.

Summary List (Patient) [LRLISTPS] Description: All results for a given patient for a given area for a given date. This report can serve as an 'audit trail' for a patient. Includes information on person placing order, person performing test, verifying person, and dates and times of specimen collection and test completion. The report can be printed in an "extended" form, which includes the above mentioned information plus the test results and associated units/normals/LOINC coding and performing lab.

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

5.1. Back-out Strategy
An activation software switch is supplied in the configuration to allow sites to activate or deactivate the Auto Verification functionality.

5.2. Back-out Considerations
LIM or Lab assigned personnel has the authority to determine activation of the Auto Verification functions.

5.2.1. Load Testing
- N/A

5.3. Back-out Criteria
- Failed baseline testing
- Non recoverable software error

5.4. Back-out Risks
- None determined at this time

5.5. Authority for Back-out
- Chief of Pathology

5.6. Back-out Procedure
The preferred method is listed below in Section 5.6.1 but this patch can be backed out by installing the backup routines created by following the installation instructions in Section 3.4 Backup Transport Global. This option will create a backup message of any routines exported
with the patch. It will NOT backup any other changes such as Data Dictionaries (DDs) or templates.

5.6.1. **Preferred Method:**

Set the Auto Verification option to inactive.

5.6.2. **Inactivate Auto Verification**

Set Auto Release Results System Wide parameter to disabled.

The Auto Release Results System Wide [LA7UI AUTO RELEASE MASTER] parameter is a system wide switch that can quickly enable/disable the auto release process.

⚠️ **When this parameter is set to Disabled, it will disable the auto release process on this system, and will override the settings in the Auto Instrument file.**

ℹ️ When Enabled, this will enable the auto release process for instruments that are marked for auto release (via the Auto Release field… see step #2 below).

| Select Lab Universal Interface Menu Option: UIS Lab Universal Interface Setup |
| Select one of the following: |
| 1 | LA7 MESSAGE PARAMETER (#62.48) |
| 2 | AUTO INSTRUMENT (#62.4) |
| 3 | Auto Release System Parameter |
| 4 | Configuration Report (132 COL) |
| 5 | Holders of Lab keys |
| 6 | Ordering Provider Contact Parameter |

Select which file to setup: **3** Auto Release System Parameter

Auto Release Results System Wide may be set for the following:

| Enter selection: | 1 | System | xxxxx.xxxx.x.xx.xxx |

Setting Auto Release Results System Wide for System: xxxxx.xxxx.x.xx.xxx
AUTO RELEASE RESULTS SYSTEM WIDE: YES (ENABLED) // ??

This parameter is used to determine whether lab results are sent to the
auto release process.

**AUTO RELEASE RESULTS SYSTEM WIDE: YES (ENABLED) // ?**

Do you want to Auto Release Results System Wide?.

Select one of the following:

0 NO (DISABLED)
1 YES (ENABLED)

**AUTO RELEASE RESULTS SYSTEM WIDE: YES (ENABLED) //**

5.7. **Disable the instrument(s) for Auto Release.**

1. The Auto Release field (#99) in the Auto Instrument file (#62.4) enables auto release on an instrument basis. It allows for different levels of granularity.

   a. **Data Type:** Set of Codes

      i. 0: NO
      ii. 1: YES
      iii. 2: AUTO VERIFY ONLY
      iv. 3: USER RELEASE ONLY

   b. **Description:** If results received via this auto instrument entry can be associated with an external auto or user verification system then enable this field. This field will be checked in conjunction with the auto release master switch parameter LA7U1 AUTO RELEASE MASTER and the specific HL7 message containing the results to determine if the lab results should be processed by the Laboratory Auto Release process. It can be configured at several levels of granularity.

      i. 0 - no auto release for this auto instrument
      ii. 1 - yes instrument is enabled for auto and user verification
      iii. 2 - yes however only process results that have been auto verified
      iv. 3 - yes however only process results that have been user verified, no auto verification.

Select Lab Universal Interface Menu Option: **UIS** Lab Universal Interface Setup

Select one of the following:

1 LA7 MESSAGE PARAMETER (#62.48)
2 AUTO INSTRUMENT (#62.4)
3 Auto Release System Parameter
4 Configuration Report (132 COL)
5 Holders of Lab keys
6 Ordering Provider Contact Parameter
Select which file to setup: **2** AUTO INSTRUMENT (#62.4)

Select AUTO INSTRUMENT NAME: **ASTRA**
NAME: ASTRA//
LOAD/WORK LIST: AUTO RELEASE//
ENTRY for LAGEN ROUTINE: Accession cross-reference //
CROSS LINKED BY: IDE//
MESSAGE CONFIGURATION: LA7UI1//
METHOD: ASTRA1234//
DEFAULT ACCESSION AREA: CHEMISTRY//
OVERLAY DATA: YES//
STORE REMARKS:
VENDOR CARD ADDRESS:
SEND TRAY/CUP LOCATION:
AUTO DOWNLOAD: YES//
**AUTO RELEASE: YES// ??**

If results received via this auto instrument entry can be associated with an external auto or user verification system then enable this field.

This field will be checked in conjunction with the auto release master switch parameter LA7UI AUTO RELEASE MASTER and the specific HL7 message containing the results to determine if the lab results should be processed by the Laboratory Auto Release process.

It can be configured at several levels of granularity.

0 - no auto release for this auto instrument
1 - yes instrument is enabled for auto and user verification
2 - yes however only process results that have been auto verified
3 - yes however only process results that have been user verified, no auto verification.

Choose from:

0        NO
1        YES
2        AUTO VERIFY ONLY
3        USER RELEASE ONLY

**AUTO RELEASE: YES// ?**

Setting fields for auto download FILE BUILD ENTRY (#93) to: EN
FILE BUILD ROUTINE (#94) to: LA7UID
...Done

2. Previous and expected functionality returned? Submit help ticket to developers who will assist in troubleshooting and resolution.

3. If previous and expected functionality not functioning move to 6:

4. **Alternate:** Restore the routines (below) using the PacKMan package containing routines in their preinstallation state. The backout procedure for globals, data dictionary, and
other VistA components is more complex and will require issuance of a follow-on patch to ensure all components are properly removed. All software components must be restored to their previous state at once and in conjunction with restoration of data, and with a database cleanup process if necessary. Please contact the Product Development team for assistance if needed.

Select MailMan Menu Option: **Read/Manage Messages**

Select message reader: Classic// [ENTER]
Read mail in basket: IN// [ENTER] (2 messages)
Last message number: 2  Messages in basket: 2
Enter ??? for help.

IN Basket Message: 1// 2

IN Basket, 2 messages (1-2)
* =New/=Priority........Subject......................From..........................
.....
  1. Backup of LR*5.2*458 install on Sep 17, 2015   LRUSER,DRI
  2. INCONSISTENCY EDIT

IN Basket Message: 1// [ENTER]

Subj: Backup of LR*5.2*458 install on Sep 17, 2015  [#43764]
19/17/15@13:13
4336 lines
From: LRUSER,DRI  In 'IN' basket.  Page 1
-----------------------------------------------------------------------
--
$TXT PACKMAN BACKUP Created on Thursday, 9/17/15 at 13:13:09 by
LRUSER,DRI at V
AHVRR.PO-ALBANY.MED.VA.GOV
$ROU LRGP2 (PACKMAN_BACKUP)
LRGP2 ;DALOI/STAFF - COMMON PARTS TO INSTRUMENT GROUP VERIFY/CHECK
;05/08/15  1
6:54
;;5.2;LAB SERVICE;**153,221,263,290,350,446,458**;Sep 27, 1994;Build 3
;
Q
;
EXPLODE ; from LRGP1, LRVR, LRVRARU, LRVRPOCU
; LRORDR="P" indicates background POC interface, order type=POC
; LRASURELEASE indicates background Auto Release of Lab UI results.
;
N %,C,DIC,DIR,DIROUT,DIRUT,DUOUT,LREND,LRI,LRTEST,LRX,I,X,X1,Y
I $G(LRORDR)'="P" K ^TMP("LR",$J)
S LRCFL="",LRI=0 S:$D(LRNX) LRNX=0
F  S LRI=$O(^LRO(68.2,LRLL,10,LRPROF,1,LRI)) Q:LRI<1  I $D(^LRI,0))#2
D
Enter RETURN to continue or '^' to exit: ^
Enter message action (in IN basket): Ignore// xtract PackMan
Select PackMan function: 6 INSTALL/CHECK MESSAGE

Warning: Installing this message will cause a permanent update of globals and routines.
Do you really want to do this? NO// YES

Routines are the only parts that are backed up. NO other parts are backed up, not even globals. You may use the 'Summarize Message' option of PackMan to see what parts the message contains. Those parts that are not routines should be backed up separately if they need to be preserved.

Shall I preserve the routines on disk in a separate back-up message? YES// NO

... NO

... NO

Select PackMan function: [ENTER]

Enter message action (in IN basket): Ignore// [ENTER]
6. Rollback Procedure

Rollback pertains to data.

6.1. Rollback Considerations

- None determined at this time

6.2. Rollback Criteria

- Installation failed baseline testing

6.3. Rollback Risks

- May require a downtime of only Laboratory package/users

6.4. Authority for Rollback

- Chief of Pathology

6.5. Rollback Procedure

The following are the chronological steps to follow to rollback to the previous state of the data and to migrate any new data to the previous version of the software.

1. Need for rollback is highly unlikely, however if desired execute VistA Rollback procedures and SOP

2. This will require Lab downtime and a reinstall of any previous KIDS versions

3. The rollback procedure for Auto verification is complicated and may require a follow-on patch to fully rollback to the pre-Auto verification state. This is due to the numerous data dictionary repairs and global updates that will need to be backed out to their previous state, including their cross references, and HL7 changes. Please contact the Product Development team for assistance