

INSTALLATION NOTES FOR LABORATORY SERVICE PATCH 19 KIDS FORMAT

PREFIX: LR, LA, BLR and BLS
CURRENT VERSION: 5.2 KIDS PATCH 19

*****NOTE*****NOTE*****NOTE*****NOTE*****NOTE*****NOTE*****NOTE*****NOTE*****
** READ THE ENTIRE NOTES FILE BEFORE ATTEMPTING ANY INSTALLATION! **

1. GENERAL INFORMATION

- a). Print all notes/readme files. This install MUST be done without users on the lab system! We always recommend a complete backup before any patches are installed. Verify that you have a current backup.
b). You must install all lab patches in sequence through patch 1018 before installing this patch.
c). The PCC link (BLRTN) will need to be stopped.
d). The Patient Chart Listener (BGUTCPL) should be stopped if you utilize this package.
e). All lab users need to be off the system. Other users can still continue work.
f). Taskman Should be stopped during this install and restarted after the installation is complete.

Note: When Taskman is turned off all tasks and print jobs will be delayed until after you turn it back on after the install. The install usually takes 20 minutes.

- g). If you receive a <CLOBR> or an <EDIT> error during the install, the patch may not have installed correctly. If so, reinstall the patch.
h). It is recommended that the terminal output during installation be captured using an auxport printer attached to the terminal where you are performing the patch installation. This will ensure a printed audit trail if any problems should arise.
i). This install will need approximately 5 MB (5,000 free blocks) of space. Make sure you have enough free space available for the install. If you don't have enough you will have to expand your volume set to accommodate the install. If you have Cache the database will expand if needed.
j). Addendum A contains an explanation of the Lab Patch 19 changes that allow Patient Chart users to enter Sign/Symptom into Lab when ordering tests.
k). Addendum B contains a listing and a brief explanation of the IHS Lab issues addressed in Lab Patch 19.
l). Addendum C contains an explanation of the Lab Patch 19 changes regarding Intermec 3400/4100 printer routines.

m). *****
* It is VERY important that the addendums be given to *
* the Lab Manager for review BEFORE the installation *
* of this patch. *

2. CONTENTS OF DISTRIBUTION

- a). lr__0520.19n - Notes file for installation of this patch.
- b). lr__0520.19k - Kids file

3. REQUIREMENTS

Cache
LR*5.2*1018
FileMan 22
Kernel 8.0
Lexicon 2.0
Order Entry/Results Reporting 2.5
PIMS 5.3

4. SPECIAL INSTRUCTIONS

- a). Save all BLRBAR* and BLRLAB* routines to a separate file. It is highly recommended that the LRLABEL4 routine also be saved into that file.

This patch will OVERWRITE two label printing routines for the Intermecc 3400/4100 printers. This will effect ANY custom lab label printing routines for those printers.

If the site does not use Intermecc 3400/4100 printers, then there is no change.

For more information, see Addendum C.

- b). Create a MAIL GROUP called LMI and add the site manager as a member:

```
PRD>D P^DI
VA FileMan 22.0
Select OPTION: ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE: DEVICE// MAIL GROUP (64 entries)
EDIT WHICH FIELD: ALL//
Select MAIL GROUP NAME: LMI
NAME: LMI//
Select MEMBER: MANAGER, SITE//
DESCRIPTION:
  1>
TYPE: public//
ORGANIZER:
COORDINATOR:
Select AUTHORIZED SENDER:
ALLOW SELF ENROLLMENT?:
RESTRICTIONS: UNRESTRICTED//
Select MEMBER GROUP NAME: ^
```

5. INSTALLATION INSTRUCTIONS

- a). Log in as a system manager and go to programmer mode. D ^XUP and choose for the option KERNEL INSTALLATION AND DISTRIBUTION
- b). Choose option INSTALLATION, and LOAD the kids patch lr__0520.19k
- c). Install the patch choosing LR*5.2*1019. See example process below.
- d.) Accept all default prompts during the install

```
*****  
***** Example Installation Script: *****  
D P^DI
```

VA FileMan 22.0

Select OPTION: ENTER OR EDIT FILE ENTRIES

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

Select MAIL GROUP NAME: LMI

Are you adding 'LMI' as a new MAIL GROUP (the 65TH)? No// Y (Yes)

Select MEMBER: KRING, MICHAEL MKK

Are you adding 'KRING, MICHAEL' as a new MEMBER (the 1ST for this MAIL GROUP)? No// Y

(Yes)

Select MEMBER:

DESCRIPTION:

1>

TYPE: ^

Select MAIL GROUP NAME:

Select OPTION:

PRD>D ^XUP

Setting up programmer environment

Terminal Type set to: C-VT320

Select OPTION NAME: BLRMENU IHS Lab Main Support Menu

LS	Link Transaction Processor Status
7421	Will restart the 7421 label routine if turned off.
INQ	Inquire into the IHS LAB Transaction Log
FLD	Search Transactions for PCC LINK DISABLE Error
RSN	Requeue by Sequence Number
RST	Requeue Transaction by Sort Template
CPT	Enter/edit IHS Lab CPT File
FAL	Find ALL PCC Link Errors from Lab
STP	Stop/restart Lab to PCC Transaction Processor
MSTR	Enter/edit BLR MASTER CONTROL FILE
POV	Purpose of Visit Compliance Report
CLR	Clear BLR errors from error log
CUM	IHS CUMULATIVE MENU ...

Select IHS Lab Main Support Menu Option: STP Stop/restart Lab to PCC Transaction Processor

lr__0520_19n.txt

Select BLR MASTER CONTROL SITE: JONES HEALTH CENTER ALBUQUERQUE JONES
10 NM 999912
... OK? Yes// (Yes)

STOP PROCESSOR: NO// Y YES

Select BLR MASTER CONTROL SITE:

LS Link Transaction Processor Status
7421 Will restart the 7421 label routine if turned off.
INQ Inquire into the IHS LAB Transaction Log
FLD Search Transactions for PCC LINK DISABLE Error
RSN Requeue by Sequence Number
RST Requeue Transaction by Sort Template
CPT Enter/edit IHS Lab CPT File
FAL Find ALL PCC Link Errors from Lab
STP Stop/restart Lab to PCC Transaction Processor
MSTR Enter/edit BLR MASTER CONTROL FILE
POV Purpose of Visit Compliance Report
CLR Clear BLR errors from error log
CUM IHS CUMULATIVE MENU ...

Select IHS Lab Main Support Menu Option:

Do you really want to halt? YES//

Halting at 8:48 am
PRD>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT320

Select OPTION NAME: BGU STOP LISTENER Stop Listener
Stop Listener
Stop TCP Listener...
TCP Listener has been shutdown.
PRD>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT320

Select OPTION NAME: XUTM STOP Stop Task Manager
Stop Task Manager

Are you sure you want to stop TaskMan? NO// Y
Shutting down TaskMan.

Should active submanagers shut down after finishing their current tasks? NO// Y
Okay!

D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT320

Select OPTION NAME: XPD MAIN Kernel Installation & Distribution System

Edits and Distribution ...
Utilities ...
Installation ...

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: 1 Load a Distribution
Enter a Host File: c:\inetpub\ftproot\pub\lr__0520.19k

KIDS Distribution saved on Mar 16, 2005@08:34:03
Comment: Lab Patch 19 -- Bug Fixes & Patient Chart Enhancement

This Distribution contains Transport Globals for the following Package(s):
Build LR*5.2*1019 has been loaded before, here is when:

LR*5.2*1019 Install Completed
was loaded on Mar 16, 2005@08:41:13

OK to continue with Load? NO// YES

Distribution OK!

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

Build LR*5.2*1019 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES// YES
LR*5.2*1019

Will first run the Environment Check Routine, BLRPRE19

Hello, MICHAEL KRING

Checking Environment for Patch **1019** of Version 5.2 of LR.

Need at least FileMan 22. FileMan 22.0 Present

Need at least Kernel 8.0. Kernel 8.0 Present

Must have 'LMI' mail group present....

'LMI' mail group found. OK

Need at least ORDER ENTRY/RESULTS REPORTING (OERR) 2.5. OERR 2.5 Present

Need at least PIMS 5.3. PIMS 5.3 Present

Need at least LEXICON 2.0. LEXICON 2.0 Present

Patch 1018 of version LR 5.2 Has Been Previously Installed. OK to continue

ENVIRONMENT OK.

Has a SUCCESSFUL system backup been performed??? NO// YES

BACKUPS CONFIRMED BY KRING, MICHAEL ON MAR 16, 2005 AT 10:29
Use INSTALL NAME: LR*5.2*1019 to install this Distribution.

- 1 Load a Distribution
- 2 Verify Checksums in Transport Global

lr__0520_19n.txt

- 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: INSTALL Package(s)
Select INSTALL NAME: LR*5.2*1019 Loaded from Distribution Loaded from
Distribution 3/16/05@10:29:25
=> Lab Patch 19 -- Bug Fixes & Patient Chart Enhancement ; Created on Mar

This Distribution was loaded on Mar 16, 2005@10:29:25 with header of
Lab Patch 19 -- Bug Fixes & Patient Chart Enhancement ; Created on Mar 16, 20
05@08:34:03

It consisted of the following Install(s):
LR*5.2*1019

Checking Install for Package LR*5.2*1019
Will first run the Environment Check Routine, BLRPRE19

Hello, MICHAEL KRING

Checking Environment for Patch **1019** of Version 5.2 of LR.

Need at least FileMan 22. . . . FileMan 22.0 Present

Need at least Kernel 8.0. . . . Kernel 8.0 Present

Must have 'LMI' mail group present. . . .

'LMI' mail group found. OK

Need at least ORDER ENTRY/RESULTS REPORTING (OERR) 2.5. . . . OERR 2.5 Present

Need at least PIMS 5.3. . . . PIMS 5.3 Present

Need at least LEXICON 2.0. . . . LEXICON 2.0 Present

Patch 1018 of version LR 5.2 Has Been Previously Installed. OK to continue

ENVIRONMENT OK.

Has a SUCCESSFUL system backup been performed??? NO// YES

BACKUPS CONFIRMED BY KRING, MICHAEL ON MAR 16, 2005 AT 10:29

Install Questions for LR*5.2*1019

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

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

DEVICE: HOME// VIRTUAL

Install Started for LR*5.2*1019 :
Mar 16, 2005@10:30:47

Build Distribution Date: Mar 16, 2005

Installing Routines:
Mar 16, 2005@10:30:47

Running Post-Install Routine: POST^BLRPRE19

Updating Routine file...

Updating KIDS files...

LR*5.2*1019 Installed.

Mar 16, 2005@10:30:48

NO Install Message sent

Install Completed

*****END EXAMPLE INSTALLATION SCRIPT*****

6. POST INSTALLATION INSTRUCTIONS

- a.) After a successful install, delete the site manager from the LMI mailgroup and add the Lab manager.
- b.) Make sure that the Rebuild Menu Tree option XQBUILDTREEQUE is scheduled to run during off hours.

7. SUPPORT CONTACT

If you have any questions or comments regarding this distribution, please contact the ITSC Support Desk by:

Phone: (505) 248-4371 or (888) 830-7280

Fax: (505) 248-4199

Web: http://www.rpms.ihs.gov/TechSupp.asp

Email: ITSCHelp@mail.ihs.gov

***** Addendum A - Lab Patch 19 fixes/changes to Patient Chart functionality. *****

Changes were made to routines to enable Patient Chart users to enter Sign/Symptom on Lab Tests.

Routines BLRDIAG, LROR6 and LRORDST were modified.

***** Addendum B - Lab Patch 19 fixes/changes to current IHS Lab package functionality *****

- (1) The expanded LOAD/WORK LIST report would print an extra header line with the patient's SSN just before the line that printed the patient's Health Record number. Also, an <UNDEFINED> error could occur if the LRL variable is null.

Routine LRLLP5 modified.

- (2) It was not possible to enter a date for Summary reports.
Routines BLRUTIL and LRPARAM modified.
- (3) A divide-by-zero error could occur if the LRMC variable is null.
Routine LRQCC modified.
- (4) An <UNDEFINED> error could occur if the LRL variable is null.
Routine LRLLP2 modified.
- (5) PCC Error variables and messages may not be set correctly.
Routines BLRLINK and BLRLINKP modified.
- (6) PATHOLOGY report header would print 2 lines.
Routine LRSPRPT modified.
- (7) Autoinstrument download would send LRDFN and not HRCN.
Routine LA7UID2 modified.
- (8) AN <UNDEFINED> error could occur if the LR657 or LR658 variables are null.
Routine LRCAPPH modified.
- (9) Merged PCC Visits were not properly tracked in Lab.
Routine BLRPCCVM added and Dictionary MODULE PCC LINK CONTROL modified to point to the BLRPCCVM routine.
- (10) Daily Interim Reports would not print valid Micro tests.
Routine LRRP2 modified.
- (11) All devices in the DEVICE dictionary would be listed instead of defaulting the HOME device when requesting a Lab Order to print.
Routine LRORDST modified.

```
*****  
***** Addendum C - Lab Patch 19 fixes/changes to current *****  
***** IHS Lab package label printing *****  
***** functionality for Intermec 3400/4100 *****  
***** printers. *****  
*****
```

If the site does not use Intermec 3400/4100 printers, this Addendum can be safely ignored.

A coding error would not allow the printing of the Accession String nor the Entry Date on barcoded labels. Another coding error would prevent test labels from being printed.

Routines BLRBARA and BLRLABLA modified.

Due to the nature of label printers, BLRBARA will need to be run first, then the BLRLABLA will need to be "ZL"oaded

lr_0520_19n.txt

and then "ZS"aved as LRLABEL4 after the patch is complete.

For Example -- AFTER the patch is complete, in programmer mode do the following. (This assumes the device LABLABEL exists and points to an Intermec 3400/4100 label printer.)

```
>D ^BLRBARA  
DEVICE: HOME// LABLABEL INTERMEC 3400E
```

Barcode Formatting Program Queued

Then do

```
>ZL BLRLABLA  
>ZS LRLABEL4
```

This will OVERWRITE the current lab label printing routine.

>>>> IMPORTANT NOTE <<<<<

If the Intermec 3400/4100 lab label printing routines have been customized for the site, it is recommended that the customized routines be restored from the "saved off" file. This will ensure the customization will not be lost, but note that the corrections mentioned in this Addendum will then be lost.