



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **Laboratory Reference**

(LR)

## **User Guide**

Version 5.2 Patch 1037  
December 2015

# Table of Contents

<b>1.0</b>	<b>Introduction.....</b>	<b>1</b>
<b>2.0</b>	<b>EHR Ordered Test Clinical Indication SNOMED .....</b>	<b>2</b>
2.1	Modified Routines .....	2
2.1.1	LR7OF1 .....	2
2.1.2	BLRLINK4.....	2
<b>3.0</b>	<b>Reference Lab Re-Using Order Numbers .....</b>	<b>3</b>
3.1	Modified Routines .....	3
3.1.1	BLRRLEDI - BLR REFERENCE LAB LEDI UTILITIES .....	3
3.1.2	BLRRLU - BLR Reference Lab Utilities .....	3
3.2	Options Added to Reference Lab Main Menu .....	3
3.2.1	BLR REFLAB PURGE ORD ACC FILE .....	3
3.2.2	BLR REFLAB PURGE QUE ORDER .....	4
3.2.3	BLR REFLAB MONITOR PARAMS.....	4
3.2.4	BLR REFLAB RESHIP NON LEDI .....	4
	<b>Glossary.....</b>	<b>5</b>
	<b>Acronym List .....</b>	<b>6</b>
	<b>Contact Information .....</b>	<b>7</b>

## 1.0 Introduction

This document lists various additions and changes to the Resource and Patient Management System (RPMS) Lab package that were brought about by Indian Health Service (IHS) Lab v5.2 p1037 (LR\*5.2\*1037).

## 2.0 EHR Ordered Test Clinical Indication SNOMED

When an Electronic Health Record (EHR) user signs an ordered test, it communicates to the Lab Package so that various data can be stored into the Lab Order Entry (#69) file. The Systematized Nomenclature of Medicine (SNOMED) code associated with the Clinical Indication is not passed to Lab.

With v5.2 p1037, an attempt should be made to determine the SNOMED code associated with the Clinical Indication verbiage through system function calls. If the SNOMED code can be determined, it will be stored in the Lab Order Entry (#69) file in the SNOMED field of the test and be passed over to the Patient Care Component.

This is accomplished via background processes without user intervention.

### 2.1 Modified Routines

The following routines were modified to accomplish this task:

#### 2.1.1 LR7OF1

Modified to retrieve Clinical Indication verbiage and the SNOMED Concept ID from the Order (#100) file via an Application Program Interface (API) and use those data to attempt to determine the SNOMED code via a Terminology System API. If and only if a match is achieved, the SNOMED will be stored into the Lab Order Entry (#69) file.

#### 2.1.2 BLRLINK4

Modified to handle alphanumeric SNOMED codes.

## 3.0 Reference Lab Re-Using Order Numbers

The Reference Lab module uses the BLR REFERENCE LAB ORDER/ACCESSION (#9009026.3) file and the file must be routinely purged so that Order Numbers are not re-used. This file is used to store order numbers, accession numbers, and the diagnoses and ask at order questions associated with those orders.

With LR v5.2 p1037, two options are added so that the file may be purged either interactively (BLR REFLAB PURGE ORD ACC FILE) or via a Queued job (BLR REFLAB PURGE QUE ORDER).

### 3.1 Modified Routines

The following routines were modified to accomplish this task:

#### 3.1.1 BLRRLEDI - BLR REFERENCE LAB LEDI UTILITIES

Modified to ensure re-use of order numbers does not occur.

#### 3.1.2 BLRRLU - BLR Reference Lab Utilities

Modified to ensure re-use of order numbers does not occur.

### 3.2 Options Added to Reference Lab Main Menu

Two options added to the Reference Lab Main Menu by a post-install subroutine:

#### 3.2.1 BLR REFLAB PURGE ORD ACC FILE

This option was created due to the fact that Lab Order numbers are recycled. With LR v5.2 p1034, store and forward was introduced. Store and forward captures pertinent information necessary for the Reference Lab Shipping Manifest and HL7 Order message. The data is stored in the BLR REFERENCE LAB ORDER/ACCESSION file. The information stored includes the UID (accession number), client account number, bill type, diagnosis, and insurance information if a Third Party Billing interface. This information is stored by order number. Over time Lab Order numbers are recycled by the Lab Package. If a recycled order number is found in the BLR REFERENCE LAB ORDER/ACCESSION file it could store incorrect information against it. This option interactively purges entries in the file prior to a certain date, ensuring that it never hits a recycled order number.

### 3.2.2 BLR REFLAB PURGE QUE ORDER

This option works the same as the BLR REFLAB PURGE ORD ACC FILE except that it may be queued and is not interactive. It will purge entries in the file older than 90 days. This option is automatically setup in TaskMan during the patch post initialization to run every 30 days at 2300 hours.

**Note:** During the post-install process, this option is automatically queued to TaskMan.

### 3.2.3 BLR REFLAB MONITOR PARAMS

This option was added with LR v5.2 p1033 (lr\_\_0520.33k). It is part of the new LEDI GUI Reference Lab Monitoring tool released in the same patch. This option sets up the necessary back end file needed for the user to successfully use the GUI client. The user and namespace (i.e., CMBARLQST) where the Reference Lab Production resides are required to complete this option. Detailed instructions are in the lr\_\_0520.33 GUI Monitor Guide.

### 3.2.4 BLR REFLAB RESHIP NON LEDI

This option was added with LR v5.2 p1034 (lr\_\_0520.34k). It is used to reship a manifest to a Non\_LED I reference lab (e.g., Labcorp, RML, PAML). The option asks the user to enter the order number to reship. If the order is no longer available in the BLR REFERENCE LAB ORDER/ACCESSION file it will notify the user. If the order is still available, it will reprint the shipping manifest and send the HL7 Order Message to the appropriate reference lab.

# Glossary

**File**

A set of related records or entries treated as a single unit.

**FileMan**

The database management system for the U.S. Department of Veterans Affairs (VA) Veterans Health Information Systems and Technology Architecture (VistA) and IHS's RPMS.

**Indian Health Service**

An Operating Division within the U.S. Department of Health and Human Services.

**Menu**

A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection.

**Resource and Patient Management System**

A suite of software applications used at IHS facilities to support administrative, clerical, and clinical functions.

**Systematized Nomenclature of Medicine**

A systematic, computer-processable collection of medical terms, in human and veterinary medicine, to provide codes, terms, synonyms and definitions which cover anatomy, diseases, findings, procedures, microorganisms, substances, etc.

**TaskMan**

A Kernel sub module that allows tasks (e.g., VA FileMan prints and sorts) to run in the background.

**Veterans Health Information Systems and Technology Architecture**

An enterprise-wide information system built around an EHR, used throughout the VA medical system.

## Acronym List

Acronym	Meaning
API	Application Program Interface
EHR	Electronic Health Record
IHS	Indian Health Service
RPMS	Resource and Patient Management System
SNOMED	Systematized Nomenclature of Medicine
VA	United States Department of Veterans Affairs
VistA	Veterans Health Information Systems and Technology Architecture



## Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

**Phone:** (888) 830-7280 (toll free)

**Web:** <http://www.ihs.gov/helpdesk/>

**Email:** [support@ihs.gov](mailto:support@ihs.gov)