



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Laboratory Accession GUI

(RPMS)

Technical Manual

Version 1.0
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Preface

The purpose of this manual is to provide technical information about the Laboratory Accession GUI package.

The Laboratory Accession GUI package adds the current RPMS roll/scroll Accessioning process available in the RPMS Laboratory Package, to the EHR Graphical User Interface (GUI). The resulting application leverages the pre-existing strengths of the underlying clinical architecture of RPMS EHR, with added workflow and patient safety benefits.

The GUI interface is not a separate application but is seamlessly integrated into RPMS EHR.

1.0 Introduction

This manual provides IHS site managers with a technical description of the Laboratory Accession GUI package routines, files, menus, cross references, globals, and other necessary information as related to the Laboratory Accession GUI package.

2.0 Orientation

The Laboratory Accession GUI package has no RPMS EHR server menu options. The only RPMS EHR server preparation specifically needed to run the Laboratory Accession GUI package is to install the KIDS build. The rest of the package runs on the PC client and can be managed from there. Refer to the *Laboratory Accession GUI Installation Guide and Release Notes* for details on server and client installation and configuration.

Interaction of the Laboratory Accession GUI package with the RPMS EHR system is accomplished entirely via the use of Remote Procedure Calls (RPCs). All RPCs in this package begin with the letters BLR.

3.0 Implementation and Maintenance

3.1 System Requirements

- Cache version 5.0
- Kernel version 8.0

3.2 Package-wide Variables

There are no package-wide BLR variables related to the Laboratory Accession GUI package in the RPMS EHR system.

3.3 Menu Diagram

There are no RPMS EHR menus in the Laboratory Accession GUI package.

3.4 Routines

Routine	Description
BLRAG01	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG02	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG03	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG04	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG05	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG05A	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG05B	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG05C	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG05D	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG06	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS

Routine	Description
BLRAG07	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG08	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG09	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG09A	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG09B	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG09C	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPCS
BLRAG09D	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG09E	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG09F	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG09G	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAG10	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS
BLRAGC	IHS/MSC/SAT – LABORATORY ACCESSION GUI PRE/POST ROUTINES
BLRAGUT	IHS/MSC/SAT – LABORATORY ACCESSION GUI RPC UTILITIES
BLRRLEVT	IHS/MSC/SAT – SUPPORT FOR LABORATORY ACCESSION GUI RPCS

4.0 Files and Tables

4.1 File List

File Number	File Name

4.2 File Access

File (#)	GL	RD	WR	LYG	DD	DEL

4.3 Cross References

The AFMSC Cross-Reference has been added to the LAB ORDER ENTRY file. This is a NEW type Cross-Reference that is built from the ACCESSION DATE field under the TEST multiple.

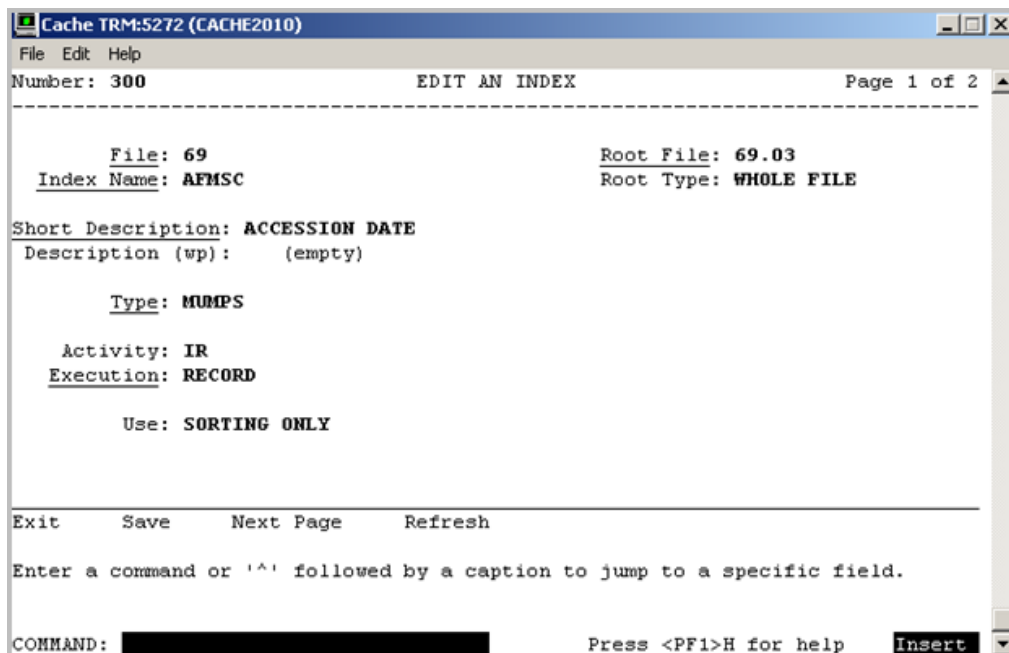


Figure 4-1: AFMSC x Ref Setup Page 1

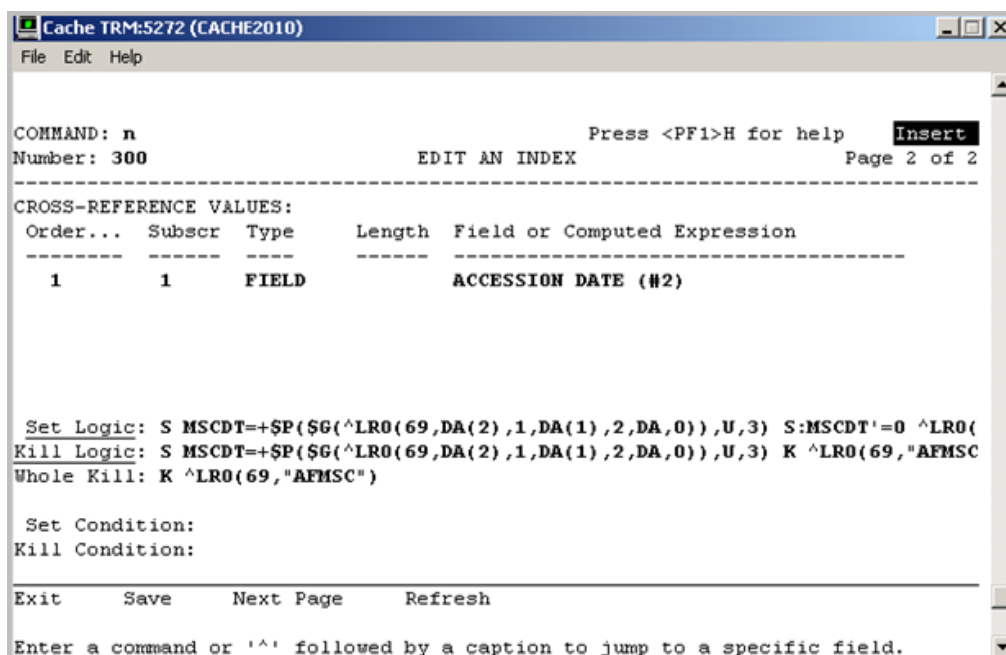


Figure 4-2: AFMSC xRef Setup Page 2

4.4 Table File

Addition to the PARAMETER DEFINITION File:

- BLR PT CONFIRM

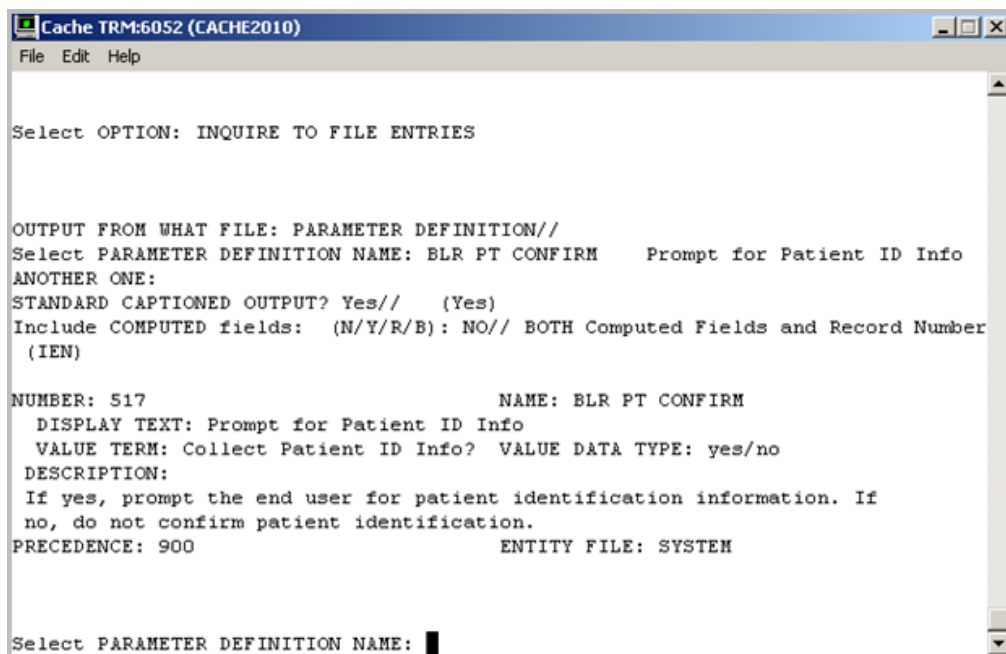
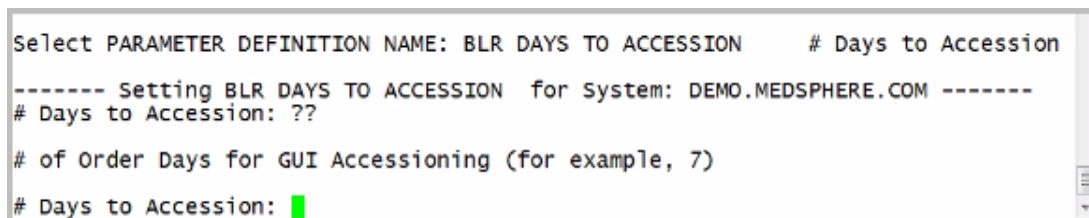


Figure 4-3: PT CONFIRM Definition in the PARAMETER DEFINITION File

- BLR DAYS TO ACCESSION



```

Select PARAMETER DEFINITION NAME: BLR DAYS TO ACCESSION      # Days to Accession
----- Setting BLR DAYS TO ACCESSION for System: DEMO.MEDSPHERE.COM -----
# Days to Accession: ??
# of Order Days for GUI Accessioning (for example, 7)
# Days to Accession: █
  
```

Figure 4-4: BLR DAYS TO ACCESSION

4.4.1 Additions to the REMOTE PROCEDURE File

- BLR REF LAB USING LEDI – UL^BLRAG02 = return the value of the 'REF LAB USING LEDI?' field in the BLR MASTER CONTROL file
- BLR ICD LOOKUP – ICDLKUP^BLRAG07 = ICD code lookup
- BLR ORDER REASON LKUP – ORL^BLRAG07 = return order reasons from file 100.03
- BLR PATIENT LOOKUP – PTLK^BLRAG04 = Patient Lookup
- BLR USER LOOKUP – NP^BLRAG06 = return entries from the NEW PERSON table 200 that are 'active'
- BLR ACCESSION – ACC^BLRAG05 = lab accession processor
- BLR ACCESSION PRINT – ABR^BLRAG02 = reprint accession label or manifest
- BLR ALL NON-ACCESSIONED – ANA^BLRAG01 = return all non-accessioned lab records
- BLR ALL-ACCESSIONED – ABD^BLRAG02 = return all accessioned records for given date range
- BLR COLLECTION INFO – BLC^BLRAG06 = check BLR PT CONFIRM parameter and return insurances for patient
- BLR DELETE TEST – DELTST^BLRAG08 = Cancel tests – Test are no longer deleted, instead the status is changed to Not Performed
- BLR ORDER/TEST STATUS – LROS^BLRAG03 = return order/test status for given patient and date range
- BLR SHIP CONF – SC^BLRAG09A = select a shipping configuration
- BLR MANIFEST BUILD – BM^BLRAG09B = build a shipping manifest
- BLR MANIFEST CLOSE/SHIP – CLSHIP^BLRAG09C = Close/ship a shipping manifest

- BLR MANIFEST DISPLAY – DISP^BLRAG09G = screen formatted text for manifest display
- BLR MANIFEST START – SMONLY^BLRAG09C = Start a shipping manifest only, no building
- BLR MANIFEST TEST ADD – ADDTEST^BLRAG09C = Add tests to an existing manifest
- BLR MANIFEST TEST REMOVE – REMVTST^BLRAG09C = Remove a test from manifest – actually flags test as "removed"
- BLR MANIFEST TESTS TO ADD- TARPC^BLRAG09B = return tests that can be added to a manifest

5.0 Internal Relations

There are no documented internal relations.

5.1 Published Entry Points

No published entry points exist.

6.0 Archiving and Purging

There is no archiving and purging in this package.

7.0 Generating Online Documentation

No generating online documentation functionality exists.

8.0 SAC Requirements/Exemptions

There are no exemptions to the SAC standards for this version.

9.0 External Relations

No special integration agreements exist between BSDX and any other package.

Glossary

Archiving

The storing of historical or little-used data off-line (often on tape).

ASUFAC Number

Area Service Unit Facility; A unique identifier for each facility within IHS. A six-digit number comprised of two digits for Area, two digits for Service Unit, and two digits for Facility.

Banner

A line of text with a user's name and domain.

Browser

An interactive application that displays ASCII text on a terminal that supports a scroll region. The text can be in the form of a word-processing field or sequential local or global array. The user is allowed to navigate freely within the document.

Callable Entry Points

Places in a routine that can be called from an application program.

Cross-reference

An indexing method whereby files can include pre-sorted lists of entries as part of the stored database. Cross-references (x-refs) facilitate look-up and reporting.

Default Facility

A user selects a facility identification to work with patients registered to that facility.

Entry Point

Entry point within a routine that is referenced by a DO or GOTO command from a routine internal to a package.

File

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

FileMan

The database management system for RPMS EHR.

Global

In MUMPS, global refers to a variable stored on disk (global variable) or the array to which the global variable may belong (global array).

Health Record Number (HRN)

Each facility assigns a unique number within that facility to each patient. Each HRN with its facility identification ASUFAC make a unique identifier within all of IHS.

INDEX (%INDEX)

A Kernel utility used to verify routines and other MUMPS code associated with a package. Checking is done according to current ANSI MUMPS standards and RPMS EHR programming standards. This tool can be invoked through an option or from direct mode (>D ^%INDEX).

Init

Initialization of an application package. The initialization step in the installation process builds files from a set of routines (the init routines). Init is a shortened form of initialization.

Internal Entry Number (IEN)

The number used to identify an entry within a file. Every record has a unique internal entry number.

IRM

Information Resource Management. The IHS personnel responsible for information systems management and security.

Kernel

The set of MUMPS software utilities that function as an intermediary between the host operating system and application packages, such as Laboratory and Pharmacy. The Kernel provides a standard and consistent user and programmer interface between application packages and the underlying MUMPS implementation. These utilities provide the foundation for RPMS EHR.

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. When displayed, menu-type options are preceded by the word Select and followed by the word Option as in Select Menu Management option: (the menu's select prompt).

Namespace

A unique set of 2 to 4 alpha characters that are assigned by the database administrator to a software application.

Official Registering Facility

A facility so designated that when HRNs are added/modified, those changes are sent to the central database. A Service Unit may have several satellites for which it is registering patients.

Option

An entry in the Option file. As an item on a menu, an option provides an opportunity for users to select it, thereby invoking the associated computing activity. Options may also be scheduled to run in the background, non-interactively, by TaskMan.

Patient Care Component (PCC)

The central repository for data in RPMS EHR.

Queuing

Requesting that a job be processed at a later time rather than within the current session.

Remote Procedure Call (RPC)

An RPC is an entry in the REMOTE PROCEDURE file that points to specific M code to execute when called by an external Windows application.

Routine

A program or sequence of instructions called by a program that may have some general or frequent use. MUMPS routines are groups of program lines that are saved, loaded, and called as a single unit via a specific name.

UCI

User Class Identification: a computing area.

Up-Hat (^)

A circumflex, also known as a hat or caret, is used as a piece delimiter in a global. The up-hat is denoted as ^ and is typed by pressing Shift+6 on the keyboard.

Utility

A callable routine line tag or function. A universal routine usable by anyone.

Variable

A character or group of characters that refers to a value. MUMPS recognizes 3 types of variables: local variables, global variables, and special variables. Local variables exist in a partition of the main memory and disappear at sign-off. A global variable is stored on disk, potentially available to any user. Global variables usually exist as parts of global arrays.

Contact Information

If you have any questions or comments regarding this distribution, contact the OIT User Support (IHS) by:

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

Fax: (505) 248-4363

Web: <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

Email: support@ihs.gov