



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Laboratory Reference

(LR)

Technical Manual

Version 5.2 Patch 1033 September 2014

Office of Information Technology Division of Information Technology Albuquerque, New Mexico

Table of Contents

1.0	Introdu	ction	. 1				
2.0	LOINC a	and Related Dictionaries Updated	. 2				
3.0	VA Lab	VA Lab Patches					
		Automated Lab Instruments (LA) Patches					
	3.1.1	Sequence 56, LA*5.2*68: Health Data Repository (HDR) and Commercial Off the Shelf (COTS)	. 3				
		Lab Service (LR) Patches	. 3				
	3.2.1	Sequence 313, LR*5.2*398: LRPHLIST for Mixed Operating System	. 3				
	3.2.2	Sequence 315, Patch LR*5.2*397: Fix for Anatomic Pathology Reports; Results Alerts	. 3				
	3.2.3	Sequence 316, Patch LR*5.2*396: Fixes For [LRENTER] & [LRCAPR1]					
	3.2.4	Sequence 317, Patch LR*5.2*399: Syntax Error In DSS Laboratory					
	3.2.5	Extract	. 4				
	3.2.6	Sequence 319, Patch LR*5.2*403: Update Data Extract Fields for DSS					
	3.2.7	Sequence 320, Patch LR*5.2*401: VBECS Related Lab Updates					
	3.2.8	Sequence 321, Patch LR*5.2*407: Address 2 LOINC Mapping Problems	. 5				
	3.2.9	Sequence 322, Patch LR*5.2*406: Some Alerts for Lab Test Results Are Not Being Sent					
	3.2.10	S .					
	3.2.11						
	3.2.12	Sequence 325, Patch LR*5.2*405: HOWDY Computerized Phlebotom Login Process (Disabled)	ıy . 6				
	3.2.13		е				
	3.2.14	Sequence 327, Patch LR*5.2*411: Fix Problem with Deletion of Preselected Lab Test/Patient Lists	. 6				
	3.2.15	Sequence 328, Patch LR*5.2*419: Ordered Tests Filed Under Wrong Patient					
	3.2.16	Sequence 329, Patch LR*5.2*415: Modify LRWLST1 Routine To Address In-Common Accessioning					
4.0	New Ro	outines	. 8				
5.0		d Routines					
6.0		d Files					
-			10				

	6.2	TOPOGRAPHY FIELD (#61) File	10			
	6.3	MORPHOLOGY FIELD (#61.1) File	10			
	6.4	ETIOLOGY FIELD (#61.2) File	10			
	6.5	FUNCTION FIELD (#61.3) File				
	6.6	DISEASE FIELD (#61.4) File				
	6.7	PROCEDURE FIELD (#61.5) File				
	6.8	OCCUPATION FIELD (#61.6) File				
	6.9	COLLECTION SAMPLE (#62) File				
	6.10	ANTIMICROBIAL SUSCEPTIBILITY (#62.06) File				
	6.11	AUTO INSTRUMENT (#62.4) File				
	6.12	LAB DATA (#63) File				
	6.12.1					
	6.12.2					
	6.12.3	, ,				
		ANTIBIOTIC LEVEL Subfile (#63.42)				
	6.13	LAB ELECTRONIC CODES File				
	6.14	WKLD SUFFIX CODES File				
	6.15	ACCESSION (#68) File				
	6.16	LAB ORDER ENTRY (#69) File	12			
	6.17	LAB LOINC (#95.3) File				
	6.18	LAB LOINC COMPONENT (#95.31) File				
	6.19	HL7 Application Parameter (#771)				
	6.20	HL7 Logical Link (#870)				
	6.21	IHS UCUM (#90475.3) File				
	6.22	IHS LAB CPT CODE (#9009021) File	12			
	6.23	IHS LAB TRANSACTION LOG (#9009022) File				
	6.24	BLR REFERENCE LAB (#9009026) File				
	6.25	BLR REFERENCE LAB ORDER/ACCESSION (#9009026.3) File				
	6.26	BLR REFERENCE LAB MU SEGMENT DEFINITION				
	0.20	(#9009026.4) File	13			
	6.27	BLR REFERENCE LAB MONITOR PARAMETERS (#9009026.5) File	13			
	6.28	BLR MASTER CONTROL (#9009029) File				
		,				
7.0	New Fi	les	14			
	7.1	BLR REFERENCE LAB MU SEGMENT DEFINITION	14			
	7.2	BLR REFERENCE LAB MONITOR PARAMETERS	14			
	7.3	HOWDY SITE (#69.86) FILE	14			
	7.4	HOWDY SPECIMEN TIMES BY UID (#69.87) FILE	14			
8.0	New Options					
0.0		•				
	8.1	BLR 62.49 HL7 SEGMENTS - Display File 62.49 HL7 Segments				
	8.2	BLR ADD COMPLETED DATE – Put Completed Date on Accession's				
	0.2	tests				
	8.3	BLR CC PARAMETER EDIT - BLR CC DATA Parameter Edit				
	8.4	BLR LAB TESTS REF RANGES - Laboratory Test (#60) File's Referen				
		Ranges	15			

	8.5	BLR LRAS MICRO REPORT - Accession IHS Lab				
		Microbiology Report	. 15			
	8.6	BLR MU2 MICRO REPORT - IHS Lab Microbiology Report	. 16			
	8.7	BLR REFLAB HL7 TABLE LOOKUP - Display Data in HL7 or Other				
		Tables	. 16			
	8.8	BLR REFLAB MONITOR PARAMS - Assign namespaces for Referen	ce			
	0.0	Lab Monitor BLRRLRPC - Reference Lab Interface Monitor Context				
	8.9 8.10		. 10			
	0.10	BLRSCRNTASKS - Determine if Required RPMS Lab Options Tasked	16			
9.0		ches New Options	. 17			
	9.1	LA*5.2*68 – Health Data Repository (HDR) and Commercial Off the				
	0.4.4	Shelf (COTS)	. 17			
	9.1.1	LA7 HDR RECOVER - Recover/Transmit Lab HDR Result Messages				
	9.1.2 9.2	LRLIAISON - Lab Liaison MenuLR*5.2*405 - HOWDY Computerized Phlebotomy Login Process				
	9.2.1	LRHY HOWDY BOT - LRHY SET HOWDY USER				
	9.2.1	LRHY HOWDY MAIN MENU - HOWDY MAIN MENU				
	9.2.3	LRHY HOWDY PPOC MAIN MENU - HOWDY PPOC MAIN MENU .				
	9.2.4	LRHY PATIENT CARD SCAN - SCAN PATIENT CARD (PPOC)				
	9.2.5	LRHY PATIENT CARD SCAN - SCAN PATIENT CARD				
	9.2.6	LRHY PATIENT WAIT TIME - PATIENT WAIT TIME				
	9.2.7	LRHY PHLEBOTOMY LOG - PHLEBOTOMY LOG	. 18			
	9.2.8	LRHY PPOC LABEL PRINT - PRINT PPOC LABEL				
	9.2.9		. 18			
		LRHY SITE FILE EDIT - EDIT HOWDY SITE FILE				
	9.2.11					
	9.3	LR*5.2*410 - DD AND OPTION MODIFICATIONS				
	9.3.1	, , , , , , , , , , , , , , , , , , , ,				
	9.3.2	,				
10.0	New Security Keys					
	10.1	BLRMU2MICRO - Meaningful Use Stage 2 Micro	. 20			
	10.2	LRHYKEY – Used By Howdy	. 20			
11.0	New Pr	otocols	. 21			
	11.1	BLR SELECT SNOMED Protocol				
	11.2	BLR SNOMED Menu				
	11.3	LA7 LAB RESULTS ACTION - Lab process results for				
		HL7 messaging	. 21			
	11.4	LA7 LAB RESULTS AVAILABLE (EVN) - Lab Results				
		Available Event	. 21			
	11.5	LA7 LAB RESULTS TO HDR (SUB) - Send Lab Results to HDR	. 21			
	11.6	LR7O ALL EVSEND RESULTS - LAB RESULTS => EXTERNAL				
		PACKAGE	. 22			

12.0	NEW LIST TEMPLATE: BLR SNOMED SELECT					
13.0	3.0 NEW PARAMETER DEFINITION: BLR CC DATA					
14.0	New Remote Procedures					
	14.1	BLRRL GET SITE PARAMETERS	25			
		BLRRL GET STATUS				
	14.3	BLRRL INTERFACE START/STOP	25			
15.0	New LA7 Message Parameter					
Conta	act Info	ormation	27			

1.0 Introduction

This document lists the various routines, options, and other technical details regarding the updates to the RPMS Lab module via IHS Lab Patch 1033 (LR*5.2*1033).

2.0 LOINC and Related Dictionaries Updated

IHS Lab Patch 1033 updates the following files:

- LAB LOINC (#95.3)
- LAB LOINC COMPONENT (#95.31)
- LAB ELECTRONIC CODES (#64.061)
- WKLD SUFFIX CODES (#64.2)

The Lab LOINC files are updated to LOINC 2.40.

3.0 VA Lab Patches

There are numerous VA Lab patches included in this IHS Lab Patch that address various issues. Some are required for subsequent VA Lab patches but are not relevant to IHS, and others are updates and/or fixes to current RPMS Lab functionality.

3.1 Automated Lab Instruments (LA) Patches

3.1.1 Sequence 56, LA*5.2*68: Health Data Repository (HDR) and Commercial Off the Shelf (COTS)

This patch supports the VA Health Data Repository (HDR) effort, allowing changes to LAB DATA file (#63) to be transmitted to the HDR via a VistA Laboratory HL7 Result (ORU) message.

Additionally, it provides the capability for the transmission of the HL7 ORU message containing patient laboratory results to subscribers of the HL7 event protocol LA7 LAB RESULTS AVAILABLE (EVN) as these results are made available within the Laboratory package. The following subscripts are supported by the event: "CH", "MI", "SP", "CY", "EM".

3.2 Lab Service (LR) Patches

3.2.1 Sequence 313, LR*5.2*398: LRPHLIST for Mixed Operating System

This patch fixes an issue in option LRPHLIST due to forced queuing of the print job at sites supporting mixed operating systems.

3.2.2 Sequence 315, Patch LR*5.2*397: Fix for Anatomic Pathology Reports; Results Alerts

This patch addresses the following issues by modifying the necessary routines:

- 1. The Anatomic Pathology Turnaround Time report yields incorrect calculation of days sometimes when a holiday occurs mid-week.
- 2. Results alerts are being sent for patients from the REFERRAL PATIENT file when they should not be.
- 3. Modifying a released Surgical Pathology report can lead to incorrectly stored data.

3.2.3 Sequence 316, Patch LR*5.2*396: Fixes For [LRENTER] & [LRCAPR1]

This patch addresses the following issues by modifying the necessary routines:

- 1. When entering results for a Lab test, a response to the "CONC(ug/ml" prompt of more than 20 characters will result in an <UNDEFINED> error.
- 2. The wrong informational message is displayed when a test is canceled after an abnormal result has been entered.
- 3. Because of a flaw in the date logic, the Workload Report shows "*** NO DATA TO REPORT ***" for accession areas whose ACCESSION file (#68) CLEAN UP field (#.03) is set to 'Y' (yearly).

3.2.4 Sequence 317, Patch LR*5.2*399: Syntax Error In DSS Laboratory Extract

This patch addresses the following issues by modifying the necessary routines:

- 1. The DSS Laboratory Extract encounters a <SYNTAX> error when a lab result contains a semi-colon (;)
- 2. A <SUBSCRIPT> error occurs when a user attempts to exit (^) option LR LOINC UNMAP/DELETE DEFAULT at the RESULT NLT CODE prompt or when there is no RESULT NLT CODE on file and the user <returns> through this prompt.

3.2.5 Sequence 318, Patch LR*5.2*402: Correction to LRENTER & Modify an Existing Data Name

This patch addresses the following issues by modifying the necessary routines:

- 1. The option MODIFY AN EXISTING DATA NAME allows for the modification of the input parameters for data elements that are not DATA NAMES which can lead to a corrupted database.
- 2. The option LRENTER (Enter/verify/modify data (manual)) sometimes prompts the user to select an accession area twice.

3.2.6 Sequence 319, Patch LR*5.2*403: Update Data Extract Fields for DSS

This patch adds new fields to the WKLD LOG FILE (#64.03) file in order for the LABORATORY EXTRACT for FY11 to extract requested data.

3.2.7 Sequence 320, Patch LR*5.2*401: VBECS Related Lab Updates

This patch is included only because other VA Lab Patches depend upon it. It does not impact RPMS.

3.2.8 Sequence 321, Patch LR*5.2*407: Address 2 LOINC Mapping Problems

This Lab Service patch addresses 2 LOINC mapping issues by modifying the necessary routines:

- 1. When exiting the option "Map Lab Tests to LOINC Codes" after no matches are found related to an affirmative response to the prompt "Do you want to see possible LOINC code matches?", an <UNDEFINED> error results.
- 2. The option to map a default LOINC code and the option to unmap a default LOINC code use the same routines. Sometimes the code gets confused and prompts one to "unmap" when one is in the "map" option.

3.2.9 Sequence 322, Patch LR*5.2*406: Some Alerts for Lab Test Results Are Not Being Sent

This patch addresses Patient Safety Issue PSPO #1384 which involves critical lab test result alerts. When a lab test result is verified and that result lies outside the normal boundaries defined for the test, alerts are generated that are sent to the physicians who are responsible for the patient's care. In some cases these alerts are not being generated. This patch resolves the issue by modifying the appropriate routines.

3.2.10 Sequence 323, Patch LR*5.2*408: Disable VistA Blood Bank Entry/Edit Options (VistA Only)

This patch is included only because other VA Lab Patches depend upon it. It is only activated on VistA systems that have installed the VBECS package.

It does not disable anything in RPMS.

3.2.11 Sequence 324, Patch LR*5.2*410: DD and Option Modifications

This patch addresses the following issues by modifying the necessary data dictionary or routines:

- 1. The code contained in FileMan to delete the CANCELLED BY field (#10) has faulty syntax which leads to a <SUBSCRIPT> error.
- 2. The routines which execute options Service Dictionary [LR WKLD SERVICE] and Requesting Center Dictionary [LR WKLD REQUEST] are reversed.

3. During extraction of lab data for the Decision Support Software (DSS), it was discovered that some lab test names included a tilde (~) or an exclamation point (!) which caused the record parser to incorrectly identify the end of the record and thus skip pertinent data.

3.2.12 Sequence 325, Patch LR*5.2*405: HOWDY Computerized Phlebotomy Login Process (Disabled)

This patch is included only because other VA Lab Patches depend upon it.

To utilize this update within RPMS would require major hardware and software setups and, as such, it is included in RPMS in a disabled state.

3.2.13 Sequence 326, Patch LR*5.2*413: Some Anatomic Pathology Routine Fixes

This patch addresses the following issues related to the Anatomic Pathology area of the Lab package by modifying the necessary routines:

- 1. When using option LRAPMOD (Print path modifications) an <UNDEFINED> error is occurs.
- 2. When a date is typed in the EXPIRATION DATE field (#3), of the PERSON CLASS MULTIPLE file (#200.05), of the NEW PERSON file (#200), for a provider, that same provider will not be able to verify/electronically sign Anatomic Pathology reports. This happens even if the date is a future date.
- 3. If more than one Special Studies selection is included in an Anatomic Pathology Report, the text of the subsequent Special Studies is not stored properly in the TIU document and thus doesn't display in CPRS.

3.2.14 Sequence 327, Patch LR*5.2*411: Fix Problem with Deletion of Preselected Lab Test/Patient Lists

This patch addresses the following issues by modifying the necessary routines:

- 1. When trying to accession an order user gets the message "TEST NAME does not have an appropriate accession area. Order xxxxx IS NOT ACCESSIONED."
- 2. The GROUP DATA REVIEW [LRGVP] option does not always show the proper report routing location.
- 3. <UNDEFINED> error occurs when trying to delete old user-defined patient/test lists.

3.2.15 Sequence 328, Patch LR*5.2*419: Ordered Tests Filed Under Wrong Patient

This patch addresses the following issues by modifying the necessary routines:

- 1. A lab test ordered through CPRS may be misplaced on an order for the wrong patient in LAB ORDER ENTRY file (#69).
- 2. The LOCK timeout in routine LR7OF5 is not in compliance with SACC guidelines.

3.2.16 Sequence 329, Patch LR*5.2*415: Modify LRWLST1 Routine To Address In-Common Accessioning

This patch is a VM patch that addresses a problem in the Lab package related to accessioning with in-common accession areas. When an "in-common" accession area is added to an existing accession area, it is possible that data in file #68 (ACCESSION) will be overwritten and two patients will have the same accession number. This patch will prevent that error from occurring.

4.0 New Routines

The following new routines have been added by IHS or by a VA Patch to the IHS Lab module.

BLR7OMZ5	BLRADDCD	BLRCCPED	BLRENTRY	BLRF612A	BLRHLTBL
BLRLA7QR	BLRLABIR	BLRLAHGU	BLRLDFIS	BLRLROS	BLRLRRP1
BLRLTRRR	BLRMIAUT	BLRMIEHR	BLRMIRPT	BLRPRE33	BLRREFLA
BLRRLEV2	BLRRLMST	BLRRLMU2	BLRRLMU3	BLRRLMU4	BLRRLMUA
BLRRLMUC	BLRRLMUM	BLRRLMUU	BLRRLTAR	BLRRLTDR	BLRRLTDU
BLRROLLD	BLRSGNSD	BLRSGNSP	BLRSGNSY	BLRSM	BLRUTIL5
BLRUTIL6	BLRWU4	LA7CSHL	LA7MUNK1	LA7MUOBX	LA7MUPID
LA7MUSFT	LA7MUSPM	LA7VCIN9	LA7VCMI		

5.0 Modified Routines

The following routines have been modified by IHS or by a VA Patch in order to prevent errors and/or add new functionality.

BLRZOGMM BLRZOGMP BLRDIAG BLREVTQ BLREXEC2 BLREXECU BLRFLTL BLRGMENU BLRHLT BLRKIDSU BLRLINK BLRLINK1 BLRLINK2 BLRLINK3 BLRLINK4 BLRLINKP BLRLINKU BLRLUAC1 BLRNFLTL BLRNLINK BLRPCCVC BLRPOC2 BLRRLEDI BLRRLEVT BLRRLMV BLRSHPM BLRTASKS BLRTN BLRUTIL BLRUTIL2 BLRUTIL3 BLRUTIL4 BLRVPTCH LA68 LA7CHDR LA7CHKFP LA7CHKFP LA7CHLU LA7CHLU3 LA7CHLU5 LA7CHDR LA7COBR LA7COBRA LA7COBRB LA7COBX LA7COBX1 LA7CORUA LA7CORUB LA7COBXA LA7CORC LA7CORU LA7CORU1 LA7CORUA LA7CORUB LA7CORY1 LA7HDR LA7HDR1 LA7QRY LA7QRY1 LA7QRY2 LA7SM1 LA7SMP LA7UTILA LA7VCIN LA7VCIN1 LA7VCIN2 LA7VCIN3 LA7VCIN4 LA7VCIN5 LA7VCN1A LA7VCN5A LA7VHLU LA7VHLU2 LA7VHLU3 LA7VHLU4 LA7VHLU5 LA7VHLU9 LA7VIN5 LA7VOBX1 LA7VOBX2 LA7VOBX3 LA7VOBXA LA7VORX LA7VOBX1 LA7VOBX2 LA7VOBX3 LA7VOBXA LA7VORC LA7VORM1 LA7VORU LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VORM1 LA7VORU LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VORM1 LA7VORU LA7VNSA LAMIAUTO LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLEO LRGV LRGVP LRHYO LRHYO1 LRHYSC LRHYBC9 LRHYBL LRHYBLD LRHYDEL LRHYPD LRHYP1 LRHYPC LRHYPDS LRHYT1 LRHYDEL LRHYBC LRHYPL LRHYPDS LRHYBL LRHYBLD LRHYDEL LRHYPD LRHYP1 LRHYBC9 LRHYBC9 LRHYBL LRHYBLD LRHYDEL LRHYPD LRHYP1 LRHYBC9 LRHYBC9 LRHYBL LRHYBLD LRHYBC9 LRHXPST LRHYBLD LRHYBC9 LRHYBC9 LRHYBL LRHYBLD LRHYBC9 LRHXPST LRHYBLD LRHYBC9 LRHYBC9 LRHYBL LRHYBLD LRHYBC9 LRHXPST LRHYBLD LRHYBC9 LRHYBC9 LRHYBL LRHYBLD LRHYBC9 LRHXPST LRMDD LRPWER LRHYBC9 LRHYBC9 LRHYBC9 LRHYBC9 LRHXBT LRHYBC1 LRHYB		l	l	l	l	
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BLRRLMV BLRSHPM BLRTASKS BLRTN BLRUTIL BLRUTIL2 BLRUTIL3 BLRUTIL4 BLRVPTCH LA68 LA7CHDR LA7CHKF LA7CHKFP LA7CHLU LA7CHLU3 LA7CHLU5 LA7CHLU9 LA7COBR LA7COBRA LA7COBRB LA7COBX LA7COBX1 LA7COBX2 LA7COBX3 LA7COBXA LA7CORC LA7CORU LA7CORU1 LA7CORUA LA7CORUB LA7CORY1 LA7HDR LA7HDR1 LA7CORU1 LA7CORUA LA7CORUB LA7CORY1 LA7HDR LA7HDR1 LA7CORU1 LA7CORUA LA7CORUB LA7CORY1 LA7HDR LA7HDR1 LA7CORU1 LA7CORUA LA7CORUA LA7CORUA LA7VORY1 LA7HDR1 LA7VORIA LA7VCINA	BLRLINK2	BLRLINK3	BLRLINK4	BLRLINKP	BLRLINKU	BLRLUAC1
BLRUTIL3 BLRUTIL4 BLRVPTCH LA68 LA7CHDR LA7CHKF LA7CHKFP LA7CHLU LA7CHLU3 LA7CHLU5 LA7CHLU9 LA7COBR LA7COBRA LA7COBRB LA7COBX LA7COBX1 LA7COBX2 LA7COBX3 LA7COBXA LA7CORC LA7CORU LA7CORU1 LA7CORUA LA7CORUB LA7CORY1 LA7HDR LA7HDR1 LA7QRY LA7QRY1 LA7QRY2 LA7SM1 LA7SMP LA7UTILA LA7VCIN LA7VCIN1 LA7VCIN2 LA7VCIN3 LA7VCIN4 LA7VCIN5 LA7VCN1A LA7VCN5A LA7VHLU LA7VHLU2 LA7VHLU3 LA7VHLU4 LA7VHLU5 LA7VHLU9 LA7VIN5 LA7VOBX1 LA7VOBX2 LA7VOBX3 LA7VOBXA LA7VORC LA7VORM1 LA7VORU LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VQINS LA7VQN5A LA7VRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHYO LRHYO1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBL1 LRHYBL1 LRHYPHO LRHYP12 LRHYPC1 LRHYPC1 LRHYPC1 LRHYCS1 LRHYPHO LRHYP12 LRHYPC2 LRHYPC1 LRHYT1 LRHYBL1 LRHYPHO LRHYP12 LRHYPC1 LRHYPC1 LRHYT1 LRHYBL1 LRHYPC1 LRHYPC1 LRHYPC2 LRHYPC1 LRHYT1 LRHYLS1 LRHYPC1 LRHYPC2 LRHYPC1 LRHYPC1 LRHYT1 LRHYCS1 LRHYPC1 LRHYPC2 LRHYPC1 LRHYPC1 LRHYT1 LRHYLS1 LRHYPC1 LRHYPC2 LRHYPC1 LRHYPC1 LRHYT1 LRHYCS1 LRHYCC1 LRHYCC2 LRHYC	BLRNFLTL	BLRNLINK	BLRPCCVC	BLRPOC2	BLRRLEDI	BLRRLEVT
LA7CHKFP LA7CHLU LA7CHLU3 LA7CHLU5 LA7CHLU9 LA7COBR LA7COBRA LA7COBRB LA7COBX LA7COBX1 LA7COBX2 LA7COBX3 LA7COBXA LA7CORC LA7CORU LA7CORU1 LA7CORUA LA7CORUB LA7CQRY1 LA7HDR LA7HDR1 LA7QRY LA7QRY1 LA7QRY2 LA7SM1 LA7SMP LA7UTILA LA7VCIN LA7VCIN1 LA7VCIN2 LA7VCIN3 LA7VCIN4 LA7VCIN5 LA7VCN1A LA7VCN5A LA7VHLU LA7VHLU2 LA7VHLU3 LA7VHLU4 LA7VHLU5 LA7VHLU9 LA7VIN5 LA7VOBX1 LA7VOBX2 LA7VOBX3 LA7VOBXA LA7VORX LA7VORX1 LA7VORU LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VORU5 LA7VQN5A LA7VRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYPHO LRHYP1 LRHYPC2 LRHYF1 LRHYBLD LRHYDEL LRHYPHO LRHYP1 LRHYPC2 LRHYF1 LRHYBLD LRHYDEL LRHYPHO LRHYP1 LRHYPC2 LRHYF1 LRHYBLD LRHYDEL LRHYPHO LRHYPH2 LRHYPL LRHYPOST LRHYLX LRHYLS1 LRHYPHO LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYC2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNCO LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRYER3 LRVER4	BLRRLMV	BLRSHPM	BLRTASKS	BLRTN	BLRUTIL	BLRUTIL2
LA7COBRA LA7COBRB LA7COBX LA7COBX1 LA7COBX2 LA7COBX3 LA7COBXA LA7CORC LA7CORU LA7CORU1 LA7CORUA LA7CORUB LA7CORY1 LA7HDR LA7HDR1 LA7QRY LA7QRY1 LA7QRY2 LA7SM1 LA7SMP LA7UTILA LA7VCIN LA7VCIN1 LA7VCIN2 LA7VCIN3 LA7VCIN4 LA7VCIN5 LA7VCN1A LA7VCN5A LA7VHLU LA7VHLU2 LA7VHLU3 LA7VHLU4 LA7VHLU5 LA7VHLU9 LA7VIN5 LA7VLN5A LA7VOBX2 LA7VOBRA LA7VOBRB LA7VOBX LA7VOBX1 LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VORU1 LA7VORU LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VORU5 LA7VQN5A LA7VRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYPD LRHYP1 LRHYPC2 LRHYF4 LRHYLRX LRHYLS1 LRHYPHO LRHYPH2 LRHYPC3 LRHYPOST LRHYLT LRHYBL1 LRHYPH0 LRHYPH2 LRHYPC4 LRHYPOST LRHYT1 LRHYC2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNCO LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRRP1 LRRPU	BLRUTIL3	BLRUTIL4	BLRVPTCH	LA68	LA7CHDR	LA7CHKF
LA7COBXA LA7CORC LA7CORU LA7CORU1 LA7CORUA LA7CORUB LA7CQRY1 LA7HDR LA7HDR1 LA7QRY LA7QRY1 LA7QRY2 LA7SM1 LA7SMP LA7UTILA LA7VCIN LA7VCIN1 LA7VCIN2 LA7VCIN3 LA7VCIN4 LA7VCIN5 LA7VCN1A LA7VCN5A LA7VHLU LA7VHLU2 LA7VHLU3 LA7VHLU4 LA7VHLU5 LA7VHLU9 LA7VIN5 LA7VLN5A LA7VMSG1 LA7VOBR LA7VOBRA LA7VOBRB LA7VOBX LA7VOBX1 LA7VOBX2 LA7VOBX3 LA7VOBXA LA7VORU5 LA7VQN5A LA7VRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYPHO LRHYP12 LRHYPL LRHYPA LRHYLS1 LRHYPHO LRHYP12 LRHYPL LRHYPA LRHYLS1 LRHYPHO LRHYP12 LRHYPL LRHYPOST LRHYT1 LRHYBLD LRHYCS LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROWZA LROW2P LRPHLIST LRPX LRVER3 LRVER4	LA7CHKFP	LA7CHLU	LA7CHLU3	LA7CHLU5	LA7CHLU9	LA7COBR
LA7CQRY1 LA7HDR LA7HDR1 LA7QRY LA7QRY1 LA7QRY2 LA7SM1 LA7SMP LA7UTILA LA7VCIN LA7VCIN1 LA7VCIN2 LA7VCIN3 LA7VCIN4 LA7VCIN5 LA7VCN1A LA7VCN5A LA7VHLU LA7VHLU2 LA7VHLU3 LA7VHLU4 LA7VHLU5 LA7VHLU9 LA7VIN5 LA7VLN5A LA7VOBX1 LA7VOBR LA7VOBRA LA7VOBRB LA7VOBX LA7VOBX1 LA7VOBX2 LA7VOBX3 LA7VOBXA LA7VORU6 LA7VQNS1 LA7VQNU LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VQINS LA7VQN5A LA7VRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYCD LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPHO LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYLS1 LRHYPHO LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNCO LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRYER3 LRVER4	LA7COBRA	LA7COBRB	LA7COBX	LA7COBX1	LA7COBX2	LA7COBX3
LA7SM1 LA7SMP LA7UTILA LA7VCIN LA7VCIN1 LA7VCIN2 LA7VCIN3 LA7VCIN4 LA7VCIN5 LA7VCN1A LA7VCN5A LA7VHLU LA7VHLU2 LA7VHLU3 LA7VHLU4 LA7VHLU5 LA7VHLU9 LA7VIN5 LA7VLN5A LA7VMSG1 LA7VOBR LA7VOBRA LA7VOBRB LA7VOBX LA7VOBX1 LA7VOBX2 LA7VOBX3 LA7VOBXA LA7VORC LA7VORM1 LA7VORU LA7VORU1 LA7VORU2 LA7VORUA LA7VORUB LA7VQINS LA7VQN5A LA7VRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNCO LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRRP1 LRRPU LRTSTSET LRUMD LRVER LRVER3 LRVER3A LRVER4	LA7COBXA	LA7CORC	LA7CORU	LA7CORU1	LA7CORUA	LA7CORUB
LATVCIN3 LATVCIN4 LATVCIN5 LATVCN1A LATVCN5A LATVHLU LATVHLU2 LATVHLU3 LATVHLU4 LATVHLU5 LATVHLU9 LATVIN5 LATVLN5A LATVMSG1 LATVOBR LATVOBRA LATVOBRB LATVOBX LATVOBX1 LATVOBX2 LATVOBX3 LATVOBXA LATVORC LATVORM1 LATVORU LATVORU1 LATVORU2 LATVORUA LATVORUB LATVQINS LATVQN5A LATVRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR70B63 LR70F1 LR70F3 LR70F5 LR70GMC LR70GMG LR70GMM LR70GMP LR70G0 LR70SMZ0 LR70SMZ2 LR70SUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRPR1 LRRPU	LA7CQRY1	LA7HDR	LA7HDR1	LA7QRY	LA7QRY1	LA7QRY2
LATVHLU2 LATVHLU3 LATVHLU4 LATVHLU5 LATVHLU9 LATVIN5 LATVLN5A LATVMSG1 LATVOBR LATVOBRA LATVOBRB LATVOBX LATVOBX1 LATVOBX2 LATVOBX3 LATVOBXA LATVORC LATVORM1 LATVORU LATVORU1 LATVORU2 LATVORUA LATVORUB LATVQINS LATVQN5A LATVRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRYER LRYER3 LRVER3 LRVER4	LA7SM1	LA7SMP	LA7UTILA	LA7VCIN	LA7VCIN1	LA7VCIN2
LATVUNSA LATVMSG1 LATVOBR LATVOBRA LATVOBRB LATVOBX LATVOBX1 LATVOBX2 LATVOBX3 LATVOBXA LATVORC LATVORM1 LATVORU LATVORU1 LATVORU2 LATVORUA LATVORUB LATVQINS LATVQNSA LATVRNSA LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR70B63 LR70F1 LR70F3 LR70F5 LR70GMC LR70GMG LR70GMM LR70GMP LR70G0 LR70SMZ0 LR70SMZ2 LR70SUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRYER3 LRVER4	LA7VCIN3	LA7VCIN4	LA7VCIN5	LA7VCN1A	LA7VCN5A	LA7VHLU
LATVOBX1 LATVOBX2 LATVOBX3 LATVOBXA LATVORC LATVORM1 LATVORU LATVORU1 LATVORU2 LATVORUA LATVORUB LATVQINS LATVQN5A LATVRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYPD LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRRP1 LRRPU LRTSTSET LRUMD LRVER LRVER3 LRVER3A LRVER4	LA7VHLU2	LA7VHLU3	LA7VHLU4	LA7VHLU5	LA7VHLU9	LA7VIN5
LATVORU LATVORU1 LATVORU2 LATVORUA LATVORUB LATVQINS LATVQN5A LATVRN5A LAMIAUT0 LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR7OB63 LR7OF1 LR7OF3 LR7OF5 LR7OGMC LR7OGMG LR7OGMM LR7OGMP LR7OGO LR7OSMZ0 LR7OSMZ2 LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRRP1 LRRPU LRYSTSET LRUMD LRVER LRVER3 LRVER3A LRVER4	LA7VLN5A	LA7VMSG1	LA7VOBR	LA7VOBRA	LA7VOBRB	LA7VOBX
LATVQN5A LATVRN5A LAMIAUTO LAMIAUT1 LAMIAUT3 LAMIAUT6 LR411PST LR70B63 LR70F1 LR70F3 LR70F5 LR70GMC LR70GMG LR70GMM LR70GMP LR70G0 LR70SMZ0 LR70SMZ2 LR70SUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRYER3 LRVER3	LA7VOBX1	LA7VOBX2	LA7VOBX3	LA7VOBXA	LA7VORC	LA7VORM1
LR411PSTLR70B63LR70F1LR70F3LR70F5LR70GMCLR70GMGLR70GMMLR70GMPLR70GOLR70SMZ0LR70SMZ2LR70SUM4LRAPBR3LRAPMODLRAPMRLLRAPMRL1LRAPRES1LRAPTTLRCAPBVLRCAPBV1LRCAPDARLRCAPDSSLRCAPPHLRCAPR2LRCELRCENDELLRDIDLE0LRGVLRGVPLRHY0LRHY01LRHY22LRHY4XLRHYALRHYAFTLRHYBLRHYBC1LRHYBC9LRHYBL1LRHYBLDLRHYDELLRHYEDLRHYF1LRHYF2LRHYF4LRHYLRXLRHYLS1LRHYPH0LRHYPH2LRHYPLLRHYPOSTLRHYT1LRHYT2LRHYULRHYU4LRHYU5LRHYUTLLRLNC0LRLNCMDLRLRRVFLRMIEDZ2LRMIPSZ2LROLOVERLRORDLROSLROW2ALROW2PLRPHLISTLRPXLRRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LA7VORU	LA7VORU1	LA7VORU2	LA7VORUA	LA7VORUB	LA7VQINS
LR7OGMGLR7OGMMLR7OGMPLR7OGOLR7OSMZ0LR7OSMZ2LR7OSUM4LRAPBR3LRAPMODLRAPMRLLRAPMRL1LRAPRES1LRAPTTLRCAPBVLRCAPBV1LRCAPDARLRCAPDSSLRCAPPHLRCAPR2LRCELRCENDELLRDIDLE0LRGVLRGVPLRHY0LRHY01LRHY22LRHY4XLRHYALRHYAFTLRHYBLRHYBC1LRHYBC9LRHYBL1LRHYBLDLRHYDELLRHYEDLRHYF1LRHYF2LRHYF4LRHYLRXLRHYLS1LRHYPH0LRHYPH2LRHYPLLRHYPOSTLRHYT1LRHYT2LRHYULRHYU4LRHYU5LRHYUTLLRLNCOLRLNCMDLRLRRVFLRMIEDZ2LRMIPSZ2LROLOVERLRORDLROSLROW2ALROW2PLRPHLISTLRPXLRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LA7VQN5A	LA7VRN5A	LAMIAUT0	LAMIAUT1	LAMIAUT3	LAMIAUT6
LR7OSUM4 LRAPBR3 LRAPMOD LRAPMRL LRAPMRL1 LRAPRES1 LRAPTT LRCAPBV LRCAPBV1 LRCAPDAR LRCAPDSS LRCAPPH LRCAPR2 LRCE LRCENDEL LRDIDLE0 LRGV LRGVP LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRYER3A LRVER4	LR411PST	LR7OB63	LR7OF1	LR7OF3	LR7OF5	LR70GMC
LRAPTTLRCAPBVLRCAPBV1LRCAPDARLRCAPDSSLRCAPPHLRCAPR2LRCELRCENDELLRDIDLE0LRGVLRGVPLRHY0LRHY01LRHY22LRHY4XLRHYALRHYAFTLRHYBLRHYBC1LRHYBC9LRHYBL1LRHYBLDLRHYDELLRHYEDLRHYF1LRHYF2LRHYF4LRHYLRXLRHYLS1LRHYPH0LRHYPH2LRHYPLLRHYPOSTLRHYT1LRHYT2LRHYULRHYU4LRHYU5LRHYUTLLRLNC0LRLNCMDLRLRRVFLRMIEDZ2LROLOVERLRORDLROSLROW2ALROW2PLRPHLISTLRPXLRRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LR70GMG	LR70GMM	LR70GMP	LR70G0	LR7OSMZ0	LR7OSMZ2
LRCAPR2LRCELRCENDELLRDIDLEOLRGVLRGVPLRHY0LRHY01LRHY22LRHY4XLRHYALRHYAFTLRHYBLRHYBC1LRHYBC9LRHYBL1LRHYBLDLRHYDELLRHYEDLRHYF1LRHYF2LRHYF4LRHYLRXLRHYLS1LRHYPH0LRHYPH2LRHYPLLRHYPOSTLRHYT1LRHYT2LRHYULRHYU4LRHYU5LRHYUTLLRLNC0LRLNCMDLRLRRVFLRMIEDZ2LRMIPSZ2LROLOVERLRORDLROSLROW2ALROW2PLRPHLISTLRPXLRRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LR7OSUM4	LRAPBR3	LRAPMOD	LRAPMRL	LRAPMRL1	LRAPRES1
LRHY0 LRHY01 LRHY22 LRHY4X LRHYA LRHYAFT LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRRP1 LRRPU LRTSTSET LRUMD LRVER LRVER3 LRVER3A LRVER4	LRAPTT	LRCAPBV	LRCAPBV1	LRCAPDAR	LRCAPDSS	LRCAPPH
LRHYB LRHYBC1 LRHYBC9 LRHYBL1 LRHYBLD LRHYDEL LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRRP1 LRRPU LRTSTSET LRUMD LRVER LRVER3 LRVER3A LRVER4	LRCAPR2	LRCE	LRCENDEL	LRDIDLE0	LRGV	LRGVP
LRHYED LRHYF1 LRHYF2 LRHYF4 LRHYLRX LRHYLS1 LRHYPH0 LRHYPH2 LRHYPL LRHYPOST LRHYT1 LRHYT2 LRHYU LRHYU4 LRHYU5 LRHYUTL LRLNC0 LRLNCMD LRLRRVF LRMIEDZ2 LRMIPSZ2 LROLOVER LRORD LROS LROW2A LROW2P LRPHLIST LRPX LRRP1 LRRPU LRTSTSET LRUMD LRVER LRVER3 LRVER3A LRVER4	LRHY0	LRHY01	LRHY22	LRHY4X	LRHYA	LRHYAFT
LRHYPH0LRHYPH2LRHYPLLRHYPOSTLRHYT1LRHYT2LRHYULRHYU4LRHYU5LRHYUTLLRLNC0LRLNCMDLRLRRVFLRMIEDZ2LRMIPSZ2LROUVERLRORDLROSLROW2ALROW2PLRPHLISTLRPXLRRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LRHYB	LRHYBC1	LRHYBC9	LRHYBL1	LRHYBLD	LRHYDEL
LRHYULRHYU4LRHYU5LRHYUTLLRLNC0LRLNCMDLRLRRVFLRMIEDZ2LRMIPSZ2LROLOVERLRORDLROSLROW2ALROW2PLRPHLISTLRPXLRRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LRHYED	LRHYF1	LRHYF2	LRHYF4	LRHYLRX	LRHYLS1
LRLRRVFLRMIEDZ2LRMIPSZ2LROLOVERLRORDLROSLROW2ALROW2PLRPHLISTLRPXLRRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LRHYPH0	LRHYPH2	LRHYPL	LRHYPOST	LRHYT1	LRHYT2
LROW2ALROW2PLRPHLISTLRPXLRRP1LRRPULRTSTSETLRUMDLRVERLRVER3LRVER3ALRVER4	LRHYU	LRHYU4	LRHYU5	LRHYUTL	LRLNC0	LRLNCMD
LRTSTSET LRUMD LRVER LRVER3 LRVER3A LRVER4	LRLRRVF	LRMIEDZ2	LRMIPSZ2	LROLOVER	LRORD	LROS
	LROW2A	LROW2P	LRPHLIST	LRPX	LRRP1	LRRPU
LRWLST1 LRWU4 LRWU5 LRWU6	LRTSTSET	LRUMD	LRVER	LRVER3	LRVER3A	LRVER4
	LRWLST1	LRWU4	LRWU5	LRWU6		

6.0 Modified Files

The following is a list of the files that will be updated by either IHS Lab patch 1033 or one of the included VA Patches.

6.1 LABORATORY TEST (#60) File

New field AMA COMPLIANT/BILLABLE PANEL (#508) field added to be able to pass data to the VA Patient Care Encounter (PCE) module. Not used by IHS.

- 6.2 TOPOGRAPHY FIELD (#61) File
- 6.3 MORPHOLOGY FIELD (#61.1) File
- 6.4 ETIOLOGY FIELD (#61.2) File
- 6.5 FUNCTION FIELD (#61.3) File
- 6.6 DISEASE FIELD (#61.4) File
- 6.7 PROCEDURE FIELD (#61.5) File
- 6.8 OCCUPATION FIELD (#61.6) File
- 6.9 COLLECTION SAMPLE (#62) File
- 6.10 ANTIMICROBIAL SUSCEPTIBILITY (#62.06) File
- 6.11 AUTO INSTRUMENT (#62.4) File
- 6.12 LAB DATA (#63) File

Various new fields have been added.

- 6.12.1 "CH" Subscript (#63.04)
- 6.12.1.1 RELEASING SITE
- 6.12.1.2 SPECIMEN CONDITION
- 6.12.1.3 RESULT COPIES TO
- 6.12.1.4 RELEVANT CLINICAL INFORMATION
- 6.12.1.5 RESULTS HANDLING
- 6.12.1.6 HL7 MESSAGE
- 6.12.2 "MI" Subscript (#63.05)
- 6.12.2.1 RELEASING SITE
- 6.12.2.2 SPECIMEN CONDITION
- **6.12.2.3 RELEASE DATE**
- 6.12.2.4 HL7 MESSAGE
- 6.12.3 "MI" Organism Subfile (#63.3)
- **6.12.3.1 RELEASE DATE**
- 6.12.3.2 STATUS
- 6.12.3.3 FLAG
- 6.12.3.4 SUSCEPTIBILITY
- 6.12.3.5 UNITS
- 6.12.3.6 INTP
- 6.12.4 ANTIBIOTIC LEVEL Subfile (#63.42)

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- 6.12.4.2 IHS REF LAB
- 6.13 LAB ELECTRONIC CODES File
- 6.14 WKLD SUFFIX CODES File
- 6.15 ACCESSION (#68) File
- 6.16 LAB ORDER ENTRY (#69) File
- 6.17 LAB LOINC (#95.3) File
 Updated with the December 2012 Regenestrief data.
- 6.18 LAB LOINC COMPONENT (#95.31) File Updated with the December 2012 Regenestrief data.
- 6.19 HL7 Application Parameter (#771)

 New entries were added to support the VA POC interface.
- 6.20 HL7 Logical Link (#870)

 New entries were added to support the VA POC interface.
- 6.21 IHS UCUM (#90475.3) File
 Updated with the December 2012 Regenestrief data.
- 6.22 IHS LAB CPT CODE (#9009021) File
 Updated to allow the selection of alphanumeric CPT codes.
- 6.23 IHS LAB TRANSACTION LOG (#9009022) File Added CLINICAL INDICATOR (#3002) field.

6.24 BLR REFERENCE LAB (#9009026) File

The field length for Ask at Order Result Codes and Result Codes has been expanded to 15 characters.

- 6.25 BLR REFERENCE LAB ORDER/ACCESSION (#9009026.3) File
- 6.26 BLR REFERENCE LAB MU SEGMENT DEFINITION (#9009026.4) File
- 6.27 BLR REFERENCE LAB MONITOR PARAMETERS (#9009026.5) File
- 6.28 BLR MASTER CONTROL (#9009029) File

7.0 New Files

The following is a list of the files that have been added to the RPMS Lab module by IHS or by VA Patch LR*5.2*405.

7.1 BLR REFERENCE LAB MU SEGMENT DEFINITION

This file was created for MU2 specific HL7 Segment building.

7.2 BLR REFERENCE LAB MONITOR PARAMETERS

This file was created for the Reference Lab Interface monitoring processes.

7.3 HOWDY SITE (#69.86) FILE

This file is used to store the site parameters for the HOWDY check-in software. It will not be used by IHS.

7.4 HOWDY SPECIMEN TIMES BY UID (#69.87) FILE

This file is used to capture and retain the specimen demographics.

It will not be used by IHS.

8.0 New Options

The following is a list of the new options added to the Option (# 19) file by IHS Lab patch 1033.

The only option not automatically added to the BLRMENU is the BLR CC DATA Parameter Edit.

8.1 BLR 62.49 HL7 SEGMENTS - Display File 62.49 HL7 Segments

This option will display a specific accession's HL7 segments from the LA7 MESSAGE QUEUE (#62.49) file to the screen.

8.2 BLR ADD COMPLETED DATE – Put Completed Date on Accession's tests

This will allow the user to forcefully put completed dates on an accession.

The option is locked with the LRSUPER key.

8.3 BLR CC PARAMETER EDIT - BLR CC DATA Parameter Edit

This will allow editing of the new BLR CC parameter.

If the parameter is set to YES, it will create CC entries in the HL7 outbound messages for Reference Labs based upon the

This option can be placed on any menu, but it is strongly recommended that it be placed on the Lab Supervisor's menu (the LRSUPERVISOR option).

The BLR CC PARAMETER EDIT option is locked with the LRSUPER key.

8.4 BLR LAB TESTS REF RANGES - Laboratory Test (#60) File's Reference Ranges

This will print the File 60 SEX Reference Range Report.

8.5 BLR LRAS MICRO REPORT - Accession IHS Lab Microbiology Report

This will display a modified Interim Micro report for a specific accession.

8.6 BLR MU2 MICRO REPORT - IHS Lab Microbiology Report

This will display patient's micro accessions in a modified Interim Micro report.

8.7 BLR REFLAB HL7 TABLE LOOKUP - Display Data in HL7 or Other Tables

Allows the user to display the values of various HL7 and Other tables.

8.8 BLR REFLAB MONITOR PARAMS - Assign namespaces for Reference Lab Monitor

Allows the user to add entries to the BLR REFERENCE LAB MONITOR PARAMETERS (#9009026.5) file.

8.9 BLRRLRPC - Reference Lab Interface Monitor Context

Deals with the Reference Lab Interface Monitor broker.

8.10 BLRSCRNTASKS - Determine if Required RPMS Lab Options Tasked

This option displays to the screen the report that shows crucial Lab Tasks' TaskMan statuses.

9.0 VA Patches New Options

The following is a list of the new options added to the Option (# 19) file by various VA Lab patches included in IHS Lab Patch 1033.

9.1 LA*5.2*68 – Health Data Repository (HDR) and Commercial Off the Shelf (COTS)

This patch supports the VA Health Data Repository (HDR) effort, allowing changes to LAB DATA file (#63) to be transmitted to the HDR via a VistA Laboratory HL7 Result (ORU) message.

9.1.1 LA7 HDR RECOVER - Recover/Transmit Lab HDR Result Messages

Option to recover from failed Lab HDR ORU Result message generation and/or transmission failure. This option allows the user to select those VistA Laboratory accessions that need to be transmitted to the VA HDR and other subscribers of the VistA Laboratory Result Available HL7 message capability via the protocol Lab Results Available Event [LA7 LAB RESULTS AVAILABLE (EVN)].

If the original message generation/transmission failed due to system or communication problems, then using this option will allow the generation of new HL7 messages with the results associated with the selected accessions. Accessions can be selected using the human-readable accession designation (area abbreviation modified date accession number - "CH 1225 100") or the accession's associated 10 character unique identifier (UID).

9.1.2 LRLIAISON - Lab Liaison Menu

The LA7 HDR RECOVER option is added to the LRLIAISON menu.

9.2 LR*5.2*405 - HOWDY Computerized Phlebotomy Login Process

Installs the Howdy Computerized Phlebotomy Login Process as an automated laboratory check-in application which can be used within the Veterans Health Information Systems and Technology Architecture (VistA) Laboratory module.

Note: This patch will not be utilized by RPMS and is only included due to other VA patches requiring it to be installed.

The following options will be installed with the OUT OF ORDER field filled in.

9.2.1 LRHY HOWDY BOT - LRHY SET HOWDY USER

This option sets the Howdy user that will run the Howdy scan option.

9.2.2 LRHY HOWDY MAIN MENU - HOWDY MAIN MENU

This is the traditional Howdy main menu.

9.2.3 LRHY HOWDY PPOC MAIN MENU - HOWDY PPOC MAIN MENU

This option initiates the Howdy process using the greeting from Howdy site file & prints labels.

9.2.4 LRHY PATIENT CARD SCAN - SCAN PATIENT CARD (PPOC)

This option initiates the Howdy process using the greeting from Howdy site file & prints labels.

9.2.5 LRHY PATIENT CARD SCAN - SCAN PATIENT CARD

This option confirms Patient, displays accessioned tests and allows the Collector to choose test(s) actually collected.

9.2.6 LRHY PATIENT WAIT TIME - PATIENT WAIT TIME

This option displays how long a Patient waits to have a sample drawn.

9.2.7 LRHY PHLEBOTOMY LOG - PHLEBOTOMY LOG

This is the log used to track the collector's phlebotomy performance times.

9.2.8 LRHY PPOC LABEL PRINT - PRINT PPOC LABEL

Labels for collected tests are printed on the designated label printer. This option captures collector and collection date & time.

9.2.9 LRHY SCAN SPECIMENS INT - SCAN SPECIMENS INTO LAB

This option allows the Receiver to scan collected specimen labels in order to capture Lab Receipt Time.

9.2.10 LRHY SITE FILE EDIT - EDIT HOWDY SITE FILE

This option enables the Keyholder to edit the Howdy site file.

9.2.11 LRHY TRACK COLLECTION - TRACK COLLECTION

This option is used to display patient specimen collection demographics.

9.3 LR*5.2*410 - DD AND OPTION MODIFICATIONS

This patch will address the following 3 items:

- 1. The code contained in FileMan to delete the CANCELLED BY field (#10) has faulty syntax which leads to a <SUBSCRIPT> error.
- 2. The routines which execute options Service Dictionary [LR WKLD SERVICE] and Requesting Center Dictionary [LR WKLD REQUEST] are reversed.
- 3. During extraction of lab data for the Decision Support Software (DSS), it was discovered that some lab test names included a tilde (~) or an exclamation point (!) which caused the record parser to incorrectly identify the end of the record and thus skip pertinent data.

9.3.1 LR WKLD REQUEST - Requesting Center Dictionary

This option lists by abbreviation every requesting center (or treating specialty) on file for your site.

Note: Only those treating specialties with abbreviations will be listed by this option. Use [LR WKLD SERVICE] 'Service Dictionary' for a complete listing.

9.3.2 LR WKLD SERVICE - Service Dictionary

This option lists all requesting locations by treating specialties for your site. This option is useful in determining which locations do not have abbreviations entered in the file. The option [LR WKLD REQUEST] 'Requesting Center Dictionary' only lists treating specialties with abbreviations.

10.0 New Security Keys

One Security Key for RPMS was added to restrict certain functions to users who are authorized to use them.

There was also one VA Security Key added for the HOWDY software.

10.1 BLRMU2MICRO - Meaningful Use Stage 2 Micro

The new BLRMU2MICRO Security Key controls access to the new Meaningful Use Stage 2 Microbiology routines.

10.2 LRHYKEY – Used By Howdy

Users can only access the HOWDY software if they have this key.

Since RPMS disables the HOWDY software, the key is superfluous, but is included for completeness.

11.0 New Protocols

Two new protocols were added to the PROTOCOL (#101) File. Both were required for the new ListMan listing of SNOMED codes during the Sign/Symptom ordering process.

Four other protocols were added by various VA Patches.

11.1 BLR SELECT SNOMED Protocol

The Protocol involved in the SNOMED Selection process.

11.2 BLR SNOMED Menu

The Protocol involved with displaying the ListMan display of the SNOMED codes.

11.3 LA7 LAB RESULTS ACTION - Lab process results for HL7 messaging

Action protocol to setup sending lab results to HL7 message subscribers via protocol LA7 LAB RESULTS AVAILABLE (EVN) - Lab Results Available Event. This protocol should be attached to protocol LAB RESULTS => EXTERNAL PACKAGE [LR7O ALL EVSEND RESULTS] which is an extended action protocol triggered by the lab result verification process.

11.4 LA7 LAB RESULTS AVAILABLE (EVN) - Lab Results Available Event

A VistA Laboratory package HL7 ORU result message is created and sent by the HL package for transmission to any subscribers of event protocol LA7 LAB RESULTS AVAILABLE (EVN).

11.5 LA7 LAB RESULTS TO HDR (SUB) - Send Lab Results to HDR

This subscriber protocol is used by the Laboratory package to indicate to the HL package to send laboratory results to the VA Health Data Repository (HDR).

It is disabled in RPMS.

11.6 LR7O ALL EVSEND RESULTS - LAB RESULTS => EXTERNAL PACKAGE

An extended action protocol triggered by the lab result verification process.

12.0 NEW LIST TEMPLATE: BLR SNOMED SELECT

The new List Template, BLR SNOMED SELECT, allows ListMan to display the array passed to it during the Sign/Symptom process.

13.0 NEW PARAMETER DEFINITION: BLR CC DATA

The BLR CC DATA parameter is used to determine if HL7 messages will be sent to a third party during ordering and/or resulting of Lab tests.

14.0 New Remote Procedures

There are three new Remote Procedures that are used by the new Reference Lab Ensemble Monitor routine.

14.1 BLRRL GET SITE PARAMETERS

This parameter returns the Site's information from File 4.

14.2 BLRRL GET STATUS

This parameter determines the status of interfaces.

14.3 BLRRL INTERFACE START/STOP

Starts or Stops or Recovers Monitors interfaces.

15.0 New LA7 Message Parameter

The new LA7HDR LA7 Message Parameter has been added by VA Lab Patch LA*5.2*68.

It is intended to be used for building HL7 messages to send to the VA's Health Data Repository.

It is not relevant to RPMS and is included for completeness.

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/

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