Howdy Computerized Phlebotomy Login Process

C3-C1 Conversion Project

Technical Manual



Laboratory Patch LR\*5.2\*405

January 2012

Department of Veterans Affairs

Office of Information and Technology (OIT)

Office of Enterprise Development (OED)

Revision History

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| August 2010 | 1.4 | Added Blood Bank Clearance Statement | REDACTED |
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* Prepped for national release
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 | REDACTED |

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# Introduction

Patch LR\*5.2\*405 introduces 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. This software performs the following functions:

* Howdy automates laboratory check-in, accessioning of orders, and printing of specimen labels
* Howdy captures collection process times and provides the information required to create phlebotomy performance reports
* Howdy eliminates the need for a hand-written log book for sign-in where the patient's name and SSN can be compromised
* Howdy can utilize bar code technology to assist in the process of patient and specimen identification

# Blood Bank Clearance

VistA Laboratory Patch LR\*5.2\*405 contains changes to software controlled by VHA.

EFFECT ON BLOOD BANK FUNCTIONAL REQUIREMENTS: Patch LR\*5.2\*405 does not contain any changes to the VISTA BLOOD BANK Software as defined by VHA DIRECTIVE 2004-058 titled VISTA BLOOD BANK SOFTWARE VERSION 5.2.

EFFECT ON BLOOD BANK FUNCTIONAL REQUIREMENTS: Patch LR\*5.2\*405 does not alter or modify any software design safeguards or safety critical elements functions.

RISK ANALYSIS: Changes made by patch LR\*5.2\*405 have no effect on Blood Bank software functionality, therefore RISK is none.

VALIDATION REQUIREMENTS BY OPTION: Because of the nature of the changes made, no specific validation requirements exist as a result of installation of this patch.

# Implementation and Maintenance

This section contains information on how to evaluate the specific menu options and procedures for efficient functioning and to select the menu options and procedures for implementation. Once the Howdy software is installed by the IRM, ADPAC or LIM, you can define and set up your Howdy Site File (#69.86). After you configure the file, examine the menu options and functions available in Howdy.

## Security Keys

Assign the LRHYKEY security key to lab personnel who will configure the HOWDY SITE file (#69.86). The [LRHY SITE FILE EDIT] menu option on the [HOWDY MAIN MENU] and the [HOWDY PPOC MAIN MENU] is accessible only to the LRHYKEY keyholder.

**Note:** Give the key only to lab personnel (LIM/ADPAC) who understand:

* Business rules of the lab and
* How the HOWDY SITE File (#69.86) parameters dictate this functionality.

## Installation of Howdy Bot User

The post-installation process, which runs automatically after the installation of patch LR\*5.2\*405, populates file (#200).

* Sites may enter the HOWDY,BOT proxy user into the HOWDY BOT field (#56) of the HOWDY SITE file (#69.86).
* This field is only to be used when the site does not have a system user.
* HOWDY,BOT is the user assigned to the logged event when a patient VIC is scanned and prohibits this user from accessibility to VistA, other than entering patient identification information.

## Installation of Howdy Hardware

LR\*5.2\*405 uses printers as they are currently configured for lab usage. No special changes are required for implementation of this patch.

**Note:** All printers must already be in the DEVICE FILE (#3.5).

Howdy Flow Process



Howdy Process Flow

## Configuration of the Howdy Site File (#69.86)

The Howdy application has two files that come with the software contained in Patch LR\*5.2\*405.

1. Howdy Site file (#69.86)
File (#69.86) is a parametric file. It holds information related to the business practices of the site phlebotomy department. The Howdy Site file is considered a static file. This file (#69.86) will be edited when the site first goes live and then it will remain relatively unchanged.
2. Howdy Specimens Times by UID file (#69.87)
File (#69.87) is a data file that is dynamic. This file contains the times associated with the movement of a patient specimens through the phlebotomy department.

For more information on these files and their fields, refer to the patch documentation.

For the benefit of those interested in medical center services, a complete Data Dictionary (DD) is included. The DD contains information on data types, file pointing, and field cross-referencing. The M routines associated with the fields are annotated for the purposes of illumination.

Howdy Site File (#69.86)

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,.01 NAME 0;1 FREE TEXT (Required)

CROSS

REFERENCED BY: NAME(B)

 INPUT TRANSFORM: K:$L(X)>30!(X?.N)!($L(X)<3)!'(X'?1P.E) X

 HELP-PROMPT: NAME MUST BE 3-30 CHARACTERS, NOT NUMERIC OR

 STARTING WITH PUNCTUATION

 CROSS-REFERENCE: 69.86^B

 1)= S ^LRHY(69.86,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,"B",$E(X,1,30),DA)

The routine variable associated with the name field is **LRHYSITE**.

This variable is used throughout the Howdy software to differentiate between site file entries.

69.86,2 LAB TEST (TO EXCLUDE) 2;0 POINTER Multiple #69.862

69.862,.01 LAB TEST (TO EXCLUDE) 0;1 POINTER TO LABORATORY TEST FILE (#60 Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Lab test that should be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.862^B

 1)= S ^LRHY(69.86,DA(1),2,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),2,"B",$E(X,1,30),DA)

This field is used by code in the routine **LRHYA**

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,4 COLLECTION SAMPLE (TO EXCLUDE) 4;0 POINTER Multiple #69.864

69.864,.01 COLLECTION SAMPLE (TO EXCLUDE) 0;1 POINTER TO COLLECTION SAMPLE

 FILE (#62) (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Collection sample to be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.864^B

 1)= S ^LRHY(69.86,DA(1),4,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),4,"B",$E(X,1,30),DA)

This field is used by code in **LRHYA**

69.86,6 SITE SPECIMEN (TO EXCLUDE) 6;0 POINTER Multiple #69.861

69.861,.01 SITE SPECIMEN (TO EXCLUDE) 0;1 POINTER TO TOPOGRAPHY FIELD FILE

 (#61) (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Site specimens to be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.861^B

 1)= S ^LRHY(69.86,DA(1),6,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),6,"B",$E(X,1,30),DA)

This field is used by code in **LRHYA**

69.86,8 COLLECTION TYPES (TO EXCLUDE) 8;0 SET Multiple #69.868

69.868,.01 COLLECTION TYPES (TO EXCLUDE) 0;1 SET (Multiply asked)

 'LC' FOR LAB COLLECTION;

 'WC' FOR WARD COLLECTION;

 'SP' FOR SEND PATIENT TO THE LAB;

 'IC' FOR IMMEDIATE COLLECT;

 LAST EDITED: APR 27, 2011

 DESCRIPTION: Collection types to be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.868^B

 1)= S ^LRHY(69.86,DA(1),8,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),8,"B",$E(X,1,30),DA)

This field is used by code in the routine **LRHYA**

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,10 LABEL PRINTERS 10;0 POINTER Multiple #69.863

69.863,.01 LABEL PRINTERS 0;1 POINTER TO DEVICE FILE (#3.5)

 (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION:

 Label printers used with Howdy.

 CROSS-REFERENCE: 69.863^B

 1)= S ^LRHY(69.86,DA(1),10,"B",$E(X,1,30),DA)="

 "

 2)= K ^LRHY(69.86,DA(1),10,"B",$E(X,1,30),DA)

This field is used by code in **LRHYBLD**

69.86,11 ORDER LABEL ROUTINE 11;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>8!($L(X)<3) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 3-8 characters in length.

 DESCRIPTION:

 The name of the routine to print order labels.

This field is used by in the routine **LRHYBLD** for printing order labels

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,16 EXCLUDE CLINICS 16;0 POINTER Multiple #69.8616

69.8616,.01 EXCLUDE CLINICS 0;1 POINTER TO HOSPITAL LOCATION FILE (#

 44) (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: This field allows you to exclude the

 accessioning of orders from those specialty

 clinics unless the collection date is for

 Today (multiple clinics allowed).

 Note: If the order is for today for the

 "excluded" clinic, the order will accession.

 If there is an order put in for TOMORROW, and

 you run the program, it will ignore that

 order.

 CROSS-REFERENCE: 69.8616^B

 1)= S ^LRHY(69.86,DA(1),16,"B",$E(X,1,30),DA)="

 "

 2)= K ^LRHY(69.86,DA(1),16,"B",$E(X,1,30),DA)

This field is used by code in the routine **LRHYA**

69.86,18 CHECK FOR FUTURE ORDERS (DAYS) 18;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>3!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-3 characters in length.

 DESCRIPTION: The number of days Howdy searches for orders in

 the future.

This field is used by code in **LRHYB**

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,20 CHECK FOR PAST ORDERS (DAYS) 20;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>3!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-3 characters in length.

 DESCRIPTION: The number of days Howdy searches for orders in

 the past

This field is used by code in **LRHYB**

69.86,25 ORDER LABEL TESTS 25;0 POINTER Multiple #69.8625

69.8625,.01 ORDER LABEL TESTS 0;1 POINTER TO LABORATORY TEST FILE (#60

 ) (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION:

 The test which will print order labels.

 CROSS-REFERENCE: 69.8625^B

 1)= S ^LRHY(69.86,DA(1),25,"B",$E(X,1,30),DA)="

 "

 2)= K ^LRHY(69.86,DA(1),25,"B",$E(X,1,30),DA)

This field is used by code in **LRHYA**

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,30 EXCLUDE URGENCY 30;0 POINTER Multiple #69.867

69.867,.01 EXCLUDE URGENCY 0;1 POINTER TO URGENCY FILE (#62.05)

 (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Urgencies that will be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.867^B

 1)= S ^LRHY(69.86,DA(1),30,"B",$E(X,1,30),DA)="

 "

 2)= K ^LRHY(69.86,DA(1),30,"B",$E(X,1,30),DA)

This field is used by code in **LRHYA**

69.86,32 GREETING 32;0 WORD-PROCESSING #69.8632

 (IGNORE "|")

69.86,40 WELCOME TO 40;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>80!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-80 characters in length.

 DESCRIPTION:

 Welcome statement.

This field is used by code in **LRHY0**

69.86,42 YOUR HOST IS 42;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>80!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-80 characters in length.

 DESCRIPTION:

 Name of the host. (Chief P&LM)

This field is used by code in **LRHY0**

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,44 HOST TITLE 44;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>80!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-80 characters in length.

 DESCRIPTION:

 Title of the Host

This field is used by code in **LRHY0**

69.86,45 SPACER LABEL PRINTER 45;0 POINTER Multiple #69.8645

69.8645,.01 SPACER LABEL PRINTER 0;1 POINTER TO DEVICE FILE (#3.5)

 (Multiply asked)

 LAST EDITED: FEB 09, 2011

 DESCRIPTION: Used for the name of the printer that is used

 to print a spacer label.

 CROSS-REFERENCE: 69.8645^B

 1)= S ^LRHY(69.86,DA(1),45,"B",$E(X,1,30),DA)="

 "

 2)= K ^LRHY(69.86,DA(1),45,"B",$E(X,1,30),DA)

This field is used by the label printer routine (selectable in file # 69.9)

69.86,52 DELETE SAME DAY DUPLICATES 52;1 SET

 'Y' FOR YES;

 'N' FOR NO;

 LAST EDITED: OCT 09, 2011

 DESCRIPTION: Used to delete duplicate lab tests from the

 same day.

This field is used by code in **LRHYA**

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.86,54 BINGO BOARD DEVICE 54;0 POINTER Multiple #69.8654

69.8654,.01 BINGO BOARD DEVICE 0;1 POINTER TO DEVICE FILE (#3.5)

 (Multiply asked)

 LAST EDITED: FEB 09, 2011

 DESCRIPTION:

 This is the bingo board device.

 CROSS-REFERENCE: 69.8654^B

 1)= S ^LRHY(69.86,DA(1),54,"B",$E(X,1,30),DA)="

 "

 2)= K ^LRHY(69.86,DA(1),54,"B",$E(X,1,30),DA)

69.86,56 HOWDY BOT 56;1 POINTER TO NEW PERSON FILE (#200)

 LAST EDITED: FEB 06, 2011

 DESCRIPTION:

 Used to run Howdy as a non human user.

This field is used by code in **LRHY0**

 FILES POINTED TO FIELDS

COLLECTION SAMPLE (#62) COLLECTION SAMPLE (TO EXCLUDE):COLLECTION SAMP

LE (TO EXCLUDE) (#.01)

DEVICE (#3.5) LABEL PRINTERS:LABEL PRINTERS (#.01)

 SPACER LABEL PRINTER:SPACER LABEL PRINTER (#.0

1)

 BINGO BOARD DEVICE:BINGO BOARD DEVICE (#.01)

HOSPITAL LOCATION (#44) EXCLUDE CLINICS:EXCLUDE CLINICS (#.01)

LABORATORY TEST (#60) LAB TEST (TO EXCLUDE):LAB TEST (TO EXCLUDE) (#

.01)

 ORDER LABEL TESTS:ORDER LABEL TESTS (#.01)

NEW PERSON (#200) HOWDY BOT (#56)

TOPOGRAPHY FIELD (#61) SITE SPECIMEN (TO EXCLUDE):SITE SPECIMEN (TO E

XCLUDE) (#.01)

URGENCY (#62.05) EXCLUDE URGENCY:EXCLUDE URGENCY (#.01)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

CAPTIONED USER #0

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

Howdy Specimen Times by UID File (#69.87)

CROSS

REFERENCED BY: LAB ARRIVAL TIME(ARIV), SPECIMEN UID(B),

 COLLECTION TIME(COLT), TIME LABELS PRINTED(LT),

 INITIAL SCAN TIME(SCAN), COLLECTOR(TECH)

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

69.87,.01 SPECIMEN UID 0;1 FREE TEXT (Required)

 INPUT TRANSFORM: K:$L(X)>10!($L(X)<10) X

 LAST EDITED: NOV 09, 2010

 HELP-PROMPT: Answer must be 10 characters in length.

 DESCRIPTION: This field contains the universal

 identification number (UID).

 CROSS-REFERENCE: 69.87^B

 1)= S ^LRHY(69.87,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"B",$E(X,1,30),DA)

69.87,2 INITIAL SCAN TIME 2;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: NOV 09, 2010

 DESCRIPTION: This field contains the date and time a patient

 scans their VIC at the Howdy station.

 CROSS-REFERENCE: 69.87^SCAN

 1)= S ^LRHY(69.87,"SCAN",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"SCAN",$E(X,1,30),DA)

 xref the initial scan field

69.87,4 TIME LABELS PRINTED 4;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: MAR 01, 2009

 DESCRIPTION: This field contains the date and time the

 Phlebotomist prints the specimen labels.

 CROSS-REFERENCE: 69.87^LT

 1)= S ^LRHY(69.87,"LT",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"LT",$E(X,1,30),DA)

 This xref is the time the labels were printed

69.87,6 COLLECTOR 6;1 POINTER TO NEW PERSON FILE (#200)

 LAST EDITED: NOV 09, 2010

 DESCRIPTION: This field contains the name of the person who

 collects the specimen. Usually, this is the

 person who scanned their ID badge.

 CROSS-REFERENCE: 69.87^TECH

 1)= S ^LRHY(69.87,"TECH",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"TECH",$E(X,1,30),DA)

 This is the Phlebotomist who signed in.

69.87,8 COLLECTION TIME 8;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: MAR 01, 2009

 DESCRIPTION: This field contains the time the specimen was

 collected.

 CROSS-REFERENCE: 69.87^COLT

 1)= S ^LRHY(69.87,"COLT",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"COLT",$E(X,1,30),DA)

 This xref if is for the specimen collection

 time

69.87,10 LAB ARRIVAL TIME 10;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: NOV 09, 2010

 DESCRIPTION: This field contains the time the specimen

 arrived in the lab.

 CROSS-REFERENCE: 69.87^ARIV

 1)= S ^LRHY(69.87,"ARIV",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"ARIV",$E(X,1,30),DA)

 This xref is for the lab arrival time

69.87,12 RECEIVER 12;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>99!($L(X)<1) X

 LAST EDITED: NOV 09, 2010

 HELP-PROMPT: Answer must be 1-99 characters in length.

 DESCRIPTION: This field contains the name of the person who

 received the specimen in the lab.

 FILES POINTED TO FIELDS

NEW PERSON (#200) COLLECTOR (#6)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

**Sample session: Edit Howdy Site File**

INPUT TO WHAT FILE: HOWDY SITE FILE//

EDIT WHICH FIELD: ALL//

Select HOWDY SITE FILE NAME: DALLAS

NAME: DALLAS//

Select LAB TEST [to exclude]: OCC

1 OCCULT BLOOD 1

2 OCCULT BLOOD 2

3 OCCULT BLOOD 3

4 OCCULT BLOOD PROFILE

CHOOSE 1-4: 4 OCCULT BLOOD PROFILE

Are you adding 'OCCULT BLOOD PROFILE' as a new LAB TEST (the 1ST for this HOWDY SITE FILE)? No// Y(Yes)

Select COLLECTION SAMPLE [to exclude]: 24

1 24 HR CTNR URINE-5 HR URINE 24 HR CTNR

2 24 HR.CTNR. URINE,12 HOUR URINE 24 HR.CTNR.

3 24HR CTNR URINE-24 HR URINE-24 HR 24HR CTNR

CHOOSE 1-3: 3 URINE-24 HR URINE-24 HR 24HR CTNR

Are you adding 'URINE-24 HR' as a new COLLECTION SAMPLE (the 1ST for this HOWDY SITE FILE)? No// Y(Yes)

Select SITE SPECIMEN:

Select COLLECTION TYPES: LC

Are you adding 'LC' as a new COLLECTION TYPES (the 1ST for this HOWDY SITE FILE)? No// Y(Yes)

Select PRINTERS: LABLABEL

Are you adding 'LABLABEL' as a new PRINTER (the 1ST for this HOWDY SITE FILE)? No// Y (Yes)

ORDER LABEL ROUTINE: LRHYLABX

Select EXCLUDE CLINICS: ER

1 ER PORTABLE

2 ERC El Reno SCP (999)

3 ERDAY EMERGENCY ROOM/DAY 8 to 4 PM

4 ERE El Reno FCI

5 ERECTIL UROLOGY ED CLINIC 3th Floor

Press <RETURN> to see more, '^' to exit this list, OR

CHOOSE 1-5: 1 ER PORTABLE

Are you adding 'ER PORTABLE' as a new EXCLUDE CLINICS (the 1ST for this LR

HOWDY SITE FILE)? No// Y (Yes)

CHECK FOR FUTURE ORDERS (DAYS): 1

CHECK FOR PAST ORDERS (DAYS): 7// 30

Select ORDER LABEL TESTS: AFB SMEAR & CULTURE

Are you adding AFB SMEAR & CULTURE as a new ORDER LABEL TESTS (the 1ST for this HOWDY SITE FILE)? No// Y (Yes)

Select EXCLUDE URGENCY: STAT

Are you adding 'STAT' as a new URGENCY (the 1ST for this HOWDY SITE FILE)? No//Y(Yes)

GREETING:

1>Welcome to the VA.

2>

EDIT Option:

WELCOME TO: Pathology and Laboratory Medicine

YOUR HOST IS: Dr HowdyProvider,One

HOST TITLE: Chief of Service

Select SPACER LABEL PRINTER: HOWDY PRINTER//

DELETE SAME DAY DUPLICATES: YES//

Select BINGO BOARD DEVICE: GTM-UNIX-CONSOLE//

HOWDY BOT: HOWDY,BOT BH

## Bingo Board Device (Print at Point of Collection-PPOC)

This field contains the device on which patient names display when using the Print at Point of Collection (PPOC) menu of Howdy. The entry in this field points to the DEVICE file (#3.5) and can be a monitor (CRT), printer, or any output device.

When setting up a dedicated public display device, such as the bingo board, only devices defined in the DEVICE FILE (#3.5) with the sub-type C-VT should be entered in the Bingo Board Device field.

To install the hardware, follow the instructions provided with the equipment.

**Note:** The bingo board process was validated using a printer to verify functionality. Using a display monitor for the bingo board functionality was not tested, but may be included in a future release.

## Howdy Bot

The post-install routine automatically adds the HOWDY,BOT as a cyber (non-human) proxy user to the NEW PERSON file (#200).

* The HOWDY,BOT is used to populate the Howdy Bot field (#56) of the HOWDY SITE file (#69.86).
* HOWDY,BOT is the user assigned to the logged event when a patient VIC is scanned.

# Files

## Howdy Site File (#69.86)

The Howdy Site File allows each local phlebotomy lab to customize the *look and feel* of Howdy by allowing each site to configure the fields contained in the HOWDY SITE FILE (#69.86) The Information Resource Manager (IRM) at each site controls access to the Howdy Site File. Howdy can be used in a standalone outpatient phlebotomy lab, or an integrated site, such as a VA Medical Center that has Community-based Outpatient Clinics associated with it.

This file can be locally customized using site-specific criteria to identify existing unprocessed and pending orders for each encounter. Not all lab orders that exist for a patient are processed by staff in a routine outpatient setting, which is primarily where Howdy is used.

**Note:** The bingo board process was validated using a printer to verify functionality. Using a display monitor for the bingo board functionality was not tested, but may be included in a future release.

STORED IN ^LRHY(69.86, (2 ENTRIES) SITE: TEST.BECKLEY.MED.VA.GOV UCI: TST,ROU (VERSION 5.2)

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

-------------------------------------------------------------------------------

This file is used to run the Howdy software and to reflect the sites business

rules.

 DD ACCESS:

 RD ACCESS:

 WR ACCESS:

 DEL ACCESS:

 LAYGO ACCESS:

 AUDIT ACCESS:

 (NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS

REFERENCED BY: NAME(B)

69.86,.01 NAME 0;1 FREE TEXT (Required)

 INPUT TRANSFORM: K:$L(X)>30!(X?.N)!($L(X)<3)!'(X'?1P.E) X

 HELP-PROMPT: NAME MUST BE 3-30 CHARACTERS, NOT NUMERIC OR

 STARTING WITH PUNCTUATION

 CROSS-REFERENCE: 69.86^B

 1)= S ^LRHY(69.86,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,"B",$E(X,1,30),DA)

69.86,2 LAB TEST (TO EXCLUDE) 2;0 POINTER Multiple #69.862

69.862,.01 LAB TEST (TO EXCLUDE) 0;1 POINTER TO LABORATORY TEST FILE (#60)

 (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Lab test that should be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.862^B

 1)= S ^LRHY(69.86,DA(1),2,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),2,"B",$E(X,1,30),DA)

69.86,4 COLLECTION SAMPLE (TO EXCLUDE) 4;0 POINTER Multiple #69.864

69.864,.01 COLLECTION SAMPLE (TO EXCLUDE) 0;1 POINTER TO COLLECTION SAMPLE

 FILE (#62) (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Collection sample to be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.864^B

 1)= S ^LRHY(69.86,DA(1),4,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),4,"B",$E(X,1,30),DA)

69.86,6 SITE SPECIMEN (TO EXCLUDE) 6;0 POINTER Multiple #69.861

69.861,.01 SITE SPECIMEN (TO EXCLUDE) 0;1 POINTER TO TOPOGRAPHY FIELD FILE

 (#61) (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Site specimens to be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.861^B

 1)= S ^LRHY(69.86,DA(1),6,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),6,"B",$E(X,1,30),DA)

69.86,8 COLLECTION TYPES (TO EXCLUDE) 8;0 SET Multiple #69.868

69.868,.01 COLLECTION TYPES (TO EXCLUDE) 0;1 SET (Multiply asked)

 'LC' FOR LAB COLLECTION;

 'WC' FOR WARD COLLECTION;

 'SP' FOR SEND PATIENT TO THE LAB;

 'IC' FOR IMMEDIATE COLLECT;

 LAST EDITED: APR 27, 2011

 DESCRIPTION: Collection types to be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.868^B

 1)= S ^LRHY(69.86,DA(1),8,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),8,"B",$E(X,1,30),DA)

69.86,10 LABEL PRINTERS 10;0 POINTER Multiple #69.863

69.863,.01 LABEL PRINTERS 0;1 POINTER TO DEVICE FILE (#3.5)

 (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION:

 Label printers used with Howdy.

 CROSS-REFERENCE: 69.863^B

 1)= S ^LRHY(69.86,DA(1),10,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),10,"B",$E(X,1,30),DA)

69.86,11 ORDER LABEL ROUTINE 11;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>8!($L(X)<3) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 3-8 characters in length.

 DESCRIPTION:

 The name of the routine to print order labels.

69.86,16 EXCLUDE CLINICS 16;0 POINTER Multiple #69.8616

69.8616,.01 EXCLUDE CLINICS 0;1 POINTER TO HOSPITAL LOCATION FILE (#

 44) (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION:

 Clinics to exclude when Howdy is run.

 CROSS-REFERENCE: 69.8616^B

 1)= S ^LRHY(69.86,DA(1),16,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),16,"B",$E(X,1,30),DA)

69.86,18 CHECK FOR FUTURE ORDERS (DAYS) 18;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>3!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-3 characters in length.

 DESCRIPTION: The number of days Howdy searches for orders in

 the future.

69.86,20 CHECK FOR PAST ORDERS (DAYS) 20;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>3!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-3 characters in length.

 DESCRIPTION: The number of days Howdy searches for orders in

 the past

69.86,25 ORDER LABEL TESTS 25;0 POINTER Multiple #69.8625

69.8625,.01 ORDER LABEL TESTS 0;1 POINTER TO LABORATORY TEST FILE (#60)

 (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: The test which will print order labels.

 CROSS-REFERENCE: 69.8625^B

 1)= S ^LRHY(69.86,DA(1),25,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),25,"B",$E(X,1,30),DA)

69.86,30 EXCLUDE URGENCY 30;0 POINTER Multiple #69.867

69.867,.01 EXCLUDE URGENCY 0;1 POINTER TO URGENCY FILE (#62.05)

 (Multiply asked)

 LAST EDITED: FEB 04, 2011

 DESCRIPTION: Urgencies that will be excluded when Howdy

 runs.

 CROSS-REFERENCE: 69.867^B

 1)= S ^LRHY(69.86,DA(1),30,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),30,"B",$E(X,1,30),DA)

69.86,32 GREETING 32;0 WORD-PROCESSING #69.8632

 (IGNORE "|")

69.86,40 WELCOME TO 40;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>80!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-80 characters in length.

 DESCRIPTION:

 Welcome statement.

69.86,42 YOUR HOST IS 42;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>80!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-80 characters in length.

 DESCRIPTION:

 Name of the host. (Chief P&LM)

69.86,44 HOST TITLE 44;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>80!($L(X)<1) X

 LAST EDITED: FEB 04, 2011

 HELP-PROMPT: Answer must be 1-80 characters in length.

 DESCRIPTION:

 Title of the Host

69.86,45 SPACER LABEL PRINTER 45;0 POINTER Multiple #69.8645

69.8645,.01 SPACER LABEL PRINTER 0;1 POINTER TO DEVICE FILE (#3.5)

 (Multiply asked)

 LAST EDITED: FEB 09, 2011

 DESCRIPTION: Used for the name of the printer that is used

 to print a spacer label.

 CROSS-REFERENCE: 69.8645^B

 1)= S ^LRHY(69.86,DA(1),45,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),45,"B",$E(X,1,30),DA)

69.86,52 DELETE SAME DAY DUPLICATES 52;1 SET

 'Y' FOR YES;

 '1' FOR YES;

 LAST EDITED: FEB 09, 2011

 DESCRIPTION: Used to delete duplicate lab tests from the same
 day.

69.86,54 BINGO BOARD DEVICE 54;0 POINTER Multiple #69.8654

69.8654,.01 BINGO BOARD DEVICE 0;1 POINTER TO DEVICE FILE (#3.5)

 (Multiply asked)

 LAST EDITED: FEB 09, 2011

 DESCRIPTION:

 This is the bingo board device.

 CROSS-REFERENCE: 69.8654^B

 1)= S ^LRHY(69.86,DA(1),54,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.86,DA(1),54,"B",$E(X,1,30),DA)

69.86,56 HOWDY BOT 56;1 POINTER TO NEW PERSON FILE (#200)

 LAST EDITED: FEB 06, 2011

 DESCRIPTION:

 Used to run Howdy as a non human user.

 FILES POINTED TO FIELDS

COLLECTION SAMPLE (#62) COLLECTION SAMPLE (TO EXCLUDE):COLLECTION SAMPLE (TO EXCLUDE) (#.01)

DEVICE (#3.5) LABEL PRINTERS:LABEL PRINTERS (#.01)

 SPACER LABEL PRINTER:SPACER LABEL PRINTER (#.01)

 BINGO BOARD DEVICE:BINGO BOARD DEVICE (#.01)

HOSPITAL LOCATION (#44) EXCLUDE CLINICS:EXCLUDE CLINICS (#.01)

LABORATORY TEST (#60) LAB TEST (TO EXCLUDE):LAB TEST (TO EXCLUDE)

 (#.01)

 ORDER LABEL TESTS:ORDER LABEL TESTS (#.01)

NEW PERSON (#200) HOWDY BOT (#56)

TOPOGRAPHY FIELD (#61) SITE SPECIMEN (TO EXCLUDE):SITE SPECIMEN (TO

 EXCLUDE) (#.01)

URGENCY (#62.05) EXCLUDE URGENCY:EXCLUDE URGENCY (#.01)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

## Howdy Specimen Times by UID File (#69.87)

The HOWDY SPECIMEN TIMES BY UID file (#69.87) captures the specifics about the accession. It lists the tests that are included in an order, who placed the order, who accessioned it (Howdy or manually by lab staff), who collected it, who verified it and the timestamp of each event. The fields in this file are used to calculate the true Turnaround Time (TAT), which tracks each step for a more detailed view.

This file has a number of cross references to make data storage more efficient.

STANDARD DATA DICTIONARY #69.87 -- HOWDY SPECIMEN TIMES BY UID FILE

STORED IN ^LRHY(69.87, (50 ENTRIES) SITE: TEST UCI: TST,ROU

DATA NAME GLOBAL DATA

ELEMENT TITLE LOCATION TYPE

-------------------------------------------------------------------------------

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

 DD ACCESS:

 RD ACCESS:

 WR ACCESS:

 DEL ACCESS:

 LAYGO ACCESS:

 AUDIT ACCESS:

 (NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS

REFERENCED BY: LAB ARRIVAL TIME(ARIV), SPECIMEN UID(B),

 COLLECTION TIME(COLT), TIME LABELS PRINTED(LT),

 INITIAL SCAN TIME(SCAN), COLLECTOR(TECH)

69.87,.01 SPECIMEN UID 0;1 FREE TEXT (Required)

 INPUT TRANSFORM: K:$L(X)>10!($L(X)<10) X

 LAST EDITED: NOV 09, 2010

 HELP-PROMPT: Answer must be 10 characters in length.

 DESCRIPTION: This field contains the universal

 identification number (UID).

 CROSS-REFERENCE: 69.87^B

 1)= S ^LRHY(69.87,"B",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"B",$E(X,1,30),DA)

69.87,2 INITIAL SCAN TIME 2;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: NOV 09, 2010

 DESCRIPTION: This field contains the date and time a patient

 scans their VIC at the Howdy station.

 CROSS-REFERENCE: 69.87^SCAN

 1)= S ^LRHY(69.87,"SCAN",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"SCAN",$E(X,1,30),DA)

 xref the initial scan field

69.87,4 TIME LABELS PRINTED 4;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: MAR 01, 2009

 DESCRIPTION: This field contains the date and time the

 Phlebotomist prints the specimen labels.

 CROSS-REFERENCE: 69.87^LT

 1)= S ^LRHY(69.87,"LT",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"LT",$E(X,1,30),DA)

 This xref is the time the labels were printed

69.87,6 COLLECTOR 6;1 POINTER TO NEW PERSON FILE (#200)

 LAST EDITED: NOV 09, 2010

 DESCRIPTION: This field contains the name of the person who

 collects the specimen. Usually, this is the

 person who scanned their ID badge.

 CROSS-REFERENCE: 69.87^TECH

 1)= S ^LRHY(69.87,"TECH",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"TECH",$E(X,1,30),DA)

 This is the Phlebotomist who signed in.

69.87,8 COLLECTION TIME 8;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: MAR 01, 2009

 DESCRIPTION: This field contains the time the specimen was

 collected.

 CROSS-REFERENCE: 69.87^COLT

 1)= S ^LRHY(69.87,"COLT",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"COLT",$E(X,1,30),DA)

 This xref if is for the specimen collection

 time

69.87,10 LAB ARRIVAL TIME 10;1 DATE

 INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

 LAST EDITED: NOV 09, 2010

 DESCRIPTION: This field contains the time the specimen

 arrived in the lab.

 CROSS-REFERENCE: 69.87^ARIV

 1)= S ^LRHY(69.87,"ARIV",$E(X,1,30),DA)=""

 2)= K ^LRHY(69.87,"ARIV",$E(X,1,30),DA)

 This xref is for the lab arrival time

69.87,12 RECEIVER 12;1 FREE TEXT

 INPUT TRANSFORM: K:$L(X)>99!($L(X)<1) X

 LAST EDITED: NOV 09, 2010

 HELP-PROMPT: Answer must be 1-99 characters in length.

 DESCRIPTION: This field contains the name of the person who

 received the specimen in the lab.

 FILES POINTED TO FIELDS

NEW PERSON (#200) COLLECTOR (#6)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

# Routines

The checksums below are new checksums, and can be checked with CHECK1^XTSUMBLD.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  | LRHY0  | Value | B3945989 |  |
|  | LRHY01  | Value | B42068305 |  |
|  | LRHY22  | Value | B4209641 |  |
|  | LRHY4X  | Value | B60499659 |  |
|  | LRHYA  | Value | B29476770 |  |
|  | LRHYAFT  | Value | B93475288 |  |
|  | LRHYB  | Value | B41480183 |  |
|  | LRHYBC1  | Value | B65673282 |  |
|  | LRHYBC9  | Value | B188141 |  |
|  | LRHYBL1  | Value | B187896 |  |
|  | LRHYBLD  | Value | B5635430 |  |
|  | LRHYDEL  | Value | B58771394 |  |
|  | LRHYED  | Value | B54493 |  |
|  | LRHYF1  | Value | B21719177 |  |
|  | LRHYF2  | Value | B1996292 |  |
|  | LRHYF4  | Value | B53704668 |  |
|  | LRHYLRX  | Value | B1258345 |  |
|  | LRHYLS1  | Value | B9947241 |  |
|  | LRHYPH0  | Value | B38997897 |  |
|  | LRHYPH2 | Value | B12074115 |  |
|  | LRHYPL  | Value | B9505821 |  |
|  | LRHYPOST  | Value | B856379 |  |
|  | LRHYT1  | Value | B12777188 |  |
|  | LRHYT2  | Value | B3165610 |  |
|  | LRHYU  | Value | B3762458 |  |
|  | LRHYU4  | Value | B116774 |  |
|  | LRHYU5  | Value | B83020 |  |
|  | LRHYUTL | Value | B160482 |  |
|  | done |  |

# Exported Menu Options

The following is a list of new menu options included in this patch:

Option Name Type

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LRHY HOWDY PPOC MAIN MENU menu

LRHY HOWDY MAIN MENU menu

LRHY PPOC LABEL PRINT action

LRHY PATIENT CARD SCAN run routine

LRHY PATIENT CARD SCAN (PPOC) run routine

LRHY PATIENT WAIT TIME run routine

LRHY PHLEBOTOMY LOG run routine

LRHY SCAN SPECIMENS INTO LAB action

LRHY SITE FILE EDIT run routine

LRHY TRACK COLLECTION run routine

LRHY HOWDY BOT action

# **Archiving**

There is no archiving capability at this time.

# Callable Routines/Entry Points/Application Programmer Interfaces

This software does not contain routines callable by other applications.

# External Relationships

The installation environment for version 1.0 of the Howdy Computerized Phlebotomy Login Process software on the VistA server includes:

* VA FileMan V. 22 or greater
* Kernel V. 8.0 or greater
* Kernel Toolkit V. 7.3 or greater
* Kernel RPC Broker V. 1.1 or greater
* VistA Lab Service V. 5.2

# Internal Relationships

The following are the Howdy PPOC Main Menu options and the Howdy Main Menu options. The LRHY menu options can function independently.

NAME: LRHY HOWDY MAIN MENU MENU TEXT: HOWDY MAIN MENU

TYPE: menu CREATOR: MANAGER,SYSTEM

DESCRIPTION: This is the traditional Howdy main menu.

ITEM: LRHY SCAN SPECIMENS INTO LAB SYNONYM: IN

ITEM: LRHY PATIENT CARD SCAN SYNONYM: SCAN

ITEM: LRHY PATIENT WAIT TIME SYNONYM: WAIT

ITEM: LRHY PHLEBOTOMY LOG SYNONYM: PL

ITEM: LRHY TRACK COLLECTION SYNONYM: TRAK

ITEM: LRHY SITE FILE EDIT SYNONYM: EDIT

TIMESTAMP OF PRIMARY MENU:

 UPPERCASE MENU TEXT: HOWDY MAIN MENU

NAME: LRHY HOWDY PPOC MAIN MENU MENU TEXT: HOWDY PPOC MAIN MENU

 TYPE: menu CREATOR: MANAGER,SYSTEM

DESCRIPTION: Howdy PPOC main menu.

ITEM: LRHY PATIENT CARD SCAN (PPOC) SYNONYM: SCAN

ITEM: LRHY PPOC LABEL PRINT SYNONYM: PPOC

ITEM: LRHY TRACK COLLECTION SYNONYM: TRAK

ITEM: LRHY PATIENT WAIT TIME SYNONYM: TAT

ITEM: LRHY SCAN SPECIMENS INTO LAB SYNONYM: IN

ITEM: LRHY SITE FILE EDIT SYNONYM: EDIT

TIMESTAMP: 62046,58901 TIMESTAMP OF PRIMARY MENU: 61947,39250

 UPPERCASE MENU TEXT: HOWDY PPOC MAIN MENU

 NAME: LRHY PPOC LABEL PRINT MENU TEXT: PRINT PPOC LABEL

 TYPE: action CREATOR: MANAGER,SYSTEM

 E ACTION PRESENT: YES

 DESCRIPTION: Labels for collected tests are printed on the designated label

 printer. This option captures collector and collection date & time.

 ENTRY ACTION: D VET^LRHYAFT TIMESTAMP OF PRIMARY MENU: 61417,56303

 UPPERCASE MENU TEXT: PRINT PPOC LABEL

NAME: LRHY HOWDY BOT MENU TEXT: LRHY SET HOWDY USER

 TYPE: action CREATOR: MANAGER,SYSTEM

 E ACTION PRESENT: YES X ACTION PRESENT: YES

 DESCRIPTION: This option sets the Howdy user that will run the Howdy scan

 option.

 EXIT ACTION: D ^XUS ENTRY ACTION: D USER^LRHYU D VET1^LRHY0

 TIMESTAMP OF PRIMARY MENU: 62027,38442

 UPPERCASE MENU TEXT: LRHY SET HOWDY USER

NAME: LRHY PATIENT CARD SCAN MENU TEXT: SCAN PATIENT CARD

 TYPE: run routine CREATOR: MANAGER,SYSTEM

 DESCRIPTION: This option initiates the Howdy process using the greeting from

 Howdy site file & prints labels.

 ROUTINE: VET^LRHY0 TIMESTAMP OF PRIMARY MENU: 62019,31579

 UPPERCASE MENU TEXT: SCAN PATIENT CARD

NAME: LRHY PATIENT CARD SCAN (PPOC) MENU TEXT: SCAN PATIENT CARD (PPOC)

 TYPE: run routine CREATOR: MANAGER,SYSTEM

 DESCRIPTION: This option confirms Patient, displays accessioned tests and

 allows the Collector to choose test(s) actually collected.

 ROUTINE: VET^LRHY01 TIMESTAMP: 61913,40894

 UPPERCASE MENU TEXT: SCAN PATIENT CARD (PPOC)

NAME: LRHY PATIENT WAIT TIME MENU TEXT: PATIENT WAIT TIME

 TYPE: run routine CREATOR: MANAGER,SYSTEM

 DESCRIPTION: This option displays how long a Patient waits to have a sample

 drawn.

 ROUTINE: LRHY4X TIMESTAMP OF PRIMARY MENU: 60103,45630

 UPPERCASE MENU TEXT: PATIENT WAIT TIME

NAME: LRHY PHLEBOTOMY LOG MENU TEXT: PHLEBOTOMY LOG

 TYPE: run routine CREATOR: MANAGER,SYSTEM

 DESCRIPTION: This is the log used to track the collector's phlebotomy

 performance times.

 ROUTINE: LRHYPL UPPERCASE MENU TEXT: PHLEBOTOMY LOG

NAME: LRHY SCAN SPECIMENS INTO LAB MENU TEXT: SCAN SPECIMENS INTO LAB

 TYPE: action CREATOR: MANAGER,SYSTEM

 E ACTION PRESENT: YES

 DESCRIPTION: This option allows the Receiver to scan collected specimen

 labels in order to capture Lab Receipt Time.

 ENTRY ACTION: S LRTECH=DUZ D LABIN^LRHYBC1

 UPPERCASE MENU TEXT: SCAN SPECIMENS INTO LAB

NAME: LRHY SITE FILE EDIT MENU TEXT: EDIT HOWDY SITE FILE

 TYPE: run routine CREATOR: MANAGER,SYSTEM

 LOCK: LRHYKEY

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

 ROUTINE: EDIT^LRHYU TIMESTAMP OF PRIMARY MENU: 61852,35530

 UPPERCASE MENU TEXT: EDIT HOWDY SITE FILE

NAME: LRHY TRACK COLLECTION MENU TEXT: TRACK COLLECTION

 TYPE: run routine CREATOR: MANAGER,SYSTEM

 DESCRIPTION: This option is used to display patient specimen collection

 demographics.

 ROUTINE: SINGLE^LRHYF1 UPPERCASE MENU TEXT: TRACK COLLECTION

# Global Variables

There are no non-standard global variables used in this software.

# Glossary

| Term | Definition |
| --- | --- |
| Accession  | A sequential identifier made up of a number and a monthdayyear |
| ADPAC | Automated Data Processing Application Coordinator |
| Bingo Board | Nickname given to an electronic monitor display board within the phlebotomy waiting area It is used to notify patients that it is their turn to proceed to the phlebotomy lab**Note:** The bingo board process was validated using a printer to verify functionality. Using a display monitor for the bingo board functionality was not tested, but may be included in a future release. |
| BOT | Cyber non-human proxy user |
| CAC | Clinical Application Coordinator |
| Class 1 | Software produced inside of the Office of Enterprise Development (OED) organization. |
| Class 3 | Also known as Field Developed Software Refers to all VHA software produced outside of the Office of Enterprise Development (OED) organization |
| CPRS | Computerized patient Record System |
| DOB | Date of Birth |
| GUI | Graphical User Interface |
| HCW | Health Care Worker |
| HIS | Hospital Information System |
| IEN | Internal Entry Number – A patient-specific Identifier |
| IRM | Information Resource Manager |
| LRHY | Namespace assigned to Howdy Computerized Phlebotomy Login Process by the Database Administrator |
| Phlebotomy | The process of drawing samples from patients for laboratory analysis |
| PII | Personally Identifiable Information |
| PPID | Positive Patient Identification |
| PPOC | Print at Point of Collection |
| Proxy User | A *non-human* user in the NEW PERSON file (#200) which is assigned to the user when a patient VIC card is scanned or SSN entered; it is used to limit the accessibility of the person logged in. |
| RSD | Requirements Specification Document |
| Section 508 | Under Public Law, agencies must provide employees and members of the public who have disabilities access to electronic and information technology that is comparable to the access available to employees and members of the public who are not individuals with disabilities. |
| SSN | Social Security Number |
| TAT | Turn Around Time (patient time spent in phlebotomy) |
| UID | Unique Specimen Identifier |
| VA | Department of Veterans Affairs |
| VAMC | Department of Veterans Affairs Medical Center |
| VHA | Veterans Health Administration |
| VIC | Veteran’s Identification Card |
| VistA | Veterans Health Information Systems and Technology ArchitectureAn enterprise-wide information system built around an electronic health record used throughout the Department of Veterans Affairs medical system |
| VistA Lab | The legacy Laboratory application into which Howdy is placed |

# External Interfaces

There are no RPC or VistA HL7 messages contained in this software.

# Cross References

There are no non-standard or special cross-references in this software.

# Software Security

Howdy follows the overall VistA login specifications for system security. However, as a Howdy user, you need to possess the same pre-set security levels as set for the VistA Lab application. The security levels are tied to the users in the NEW PERSON file by the system manager or the ADPAC.

# Troubleshooting

## Printers

|  |  |  |
| --- | --- | --- |
|  | Problem | Solution |
|  | **Accession labels do not print** | * No orders for patient
 |
|  |  | * Multiple orders
 |
|  |  | * No printer assigned at sign on
 |
|  |  | * Printer not connected to network
 |
|  |  | * Card scanner not connected
 |
|  |  | * Incompatible printer in use
 |
|  |  |  |
|  | **Order labels do not print** | * Entry in Howdy Site File is not defined
 |
|  |  | * Wrong printer routine defined in Howdy Site File
 |
|  |  | * Check solutions described in problem 1
 |
|  |  | * Check order label field in Howdy Site File
 |
|  |  |  |
|  | **Label type printing incorrectly** | Entries in the Howdy Site File (#69.86), Printers (#10) field should also exist in the LABORATORY SITE file (#69.9), Label Device field (#360). * This field is a pointer to the DEVICE file (#3.5).
* Specific information and support pertaining to Lab Label printer configurations are detailed in the Lab patch descriptions: LR\*5.2\*161 and LR\*5.2\*218.
 |
|  |  |  |
|  | **Specimen labels do not print** | * No orders for patient
 |
|  |  | * Check that the date range agrees with the order date
 |
|  |  | * Check for exclusions in the Howdy Site File
1. Test exclusion
2. Status exclusion
3. Location exclusion
 |
|  |  | * Check that the printer name is correct in the device file
 |

**Note:** A new Item was created in Remedy for Howdy, Patch LR\*5.2\*405. If you have any questions concerning the implementation of this application REDACTED log a Remedy ticket via Remedy Requester application using
Category: Applications-VistA
Type: Lab 5.2
Item: Howdy

## Frequently Asked Questions (FAQs)

|  |  |
| --- | --- |
|  | What equipment is required with Howdy? |
|  | Using the Howdy Main Menu* Dedicated PC with an attached scanner
* Optional keyboard for patient check-in
* Shared barcode label printer
* Shared PC with scanner for phlebotomy staff

Using the Howdy PPOC Main Menu* Dedicated PC with an attached scanner
* Optional keyboard for patient check-in
* Barcode label printer per phlebotomy station
* Display (Bingo) board
 |
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|  | With Howdy, what type of scanners do I use? |
|  | It does not matter, as long as the scanner is a magnetic or a bar code scanner; either will work with the patient's VIC. |
|  |  |
|  | Does Howdy require someone to *man the station* at the receiving desk? |
|  | No, as long as there is someone available to address issues. It is better not to have someone at the receiving desk; patients want the personnel to scan for them. Without someone at the receiving desk, the patient will read signage and automatically scan the VIC without assistance. |
|  |  |
|  | Why have signage? |
|  | Signage is an important piece for Howdy--to be most efficient. Using Howdy, the check-in process does not require the assistance of a staff member for over 80% of the patients; the patient does need instruction on what to do. Once patients are familiar with this process, they like to assist new patients. |
|  |  |
|  | What is the advantage of having a keyboard available with a dedicated Howdy PC? |
|  | When a patient cannot use the VIC, (do not have it or it is damaged), the patient can type the SSN on the keyboard, which serves the same purpose as scanning the VIC. This eliminates the need for a staff member to assist and saves time. |
|  |  |
|  | Does the Bingo Board have to be a wall-mounted screen? |
|  | No, you can use a computer screen, as long as it is visible to the phlebotomy staff.**Note:** The bingo board process was validated using a printer to verify functionality. Using a display monitor for the bingo board functionality was not tested, but may be included in a future release. |

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| --- | --- |
|  | Should there be laboratory policies pertaining to Howdy? |
|  | YesOnce you determine how Howdy works best for your site, you develop your policies accordingly. Be sure to communicate this to your providers and scheduling staff, so the ordering practices match. This makes the flow of patients through the phlebotomy check-in process much smoother. |
|  |  |
|  | What is the optimum date range for Howdy to find orders? |
|  | Optimum date range is up to the individual site. * If you set the range short, you get too many **no orders found**.
* If you set the range wide, you get too many **multiple orders**.

We have found that **+7 days and back 31 days** works well for a majority of sites. |
|  |  |
|  | Does Howdy change laboratory *turnaround time* (TAT) in VistA? |
|  | No Howdy retrieves information only from VistA. Generating reports from Howdy is a standalone tool to help you with your laboratory practices. TAT in the Laboratory package is still accession time to verification time. |