
Installation, Setup, and Service Guide KI-2246C



Responder® 5 ADT Interface Installation, Setup, and Service Guide



Rauland-Borg Corporation

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Table of Contents

1: RESPONDER® 5 ADT INTERFACE INTRODUCTION	6
REVISION HISTORY	7
SCOPE OF THIS DOCUMENT	7
CUSTOMER CONNECTION	7
RELATED DOCUMENTS	7
ALERTS, PRECAUTIONS, AND LIMITATIONS	8
HOST REQUIREMENTS	8
<i>Server Host Requirements</i>	8
<i>Client Host Requirements</i>	8
PACKING LIST	9
2: INSTALLATION AND SETUP OVERVIEW	10
3: PREPARING FOR INSTALLATION	11
SQL Server Parameters	11
4: INSTALLATION	12
<i>Updating an Existing Installation</i>	12
5: TOURING THE INTERFACE	16
LOGGING IN TO THE ADT INTERFACE	18
ACCESSING AND USING THE WIZARD	19
<i>Logging Off</i>	21
<i>Dropdown Menus</i>	21
File Menu	21
Actions Menu	21
Other Things You Should Know:	22
Style Menu	22
Service Menu	23
Help Menu	23
Admin Menu	24
<i>Quick Action Selector</i>	25
<i>Direct Action Buttons</i>	26
<i>Context-Sensitive Controls</i>	26
<i>Status Display (Home Screen)</i>	26
<i>Context-Sensitive Quick Help</i>	27
Controls and Indicators	27
6: PREPARING FOR SETUP	29
DAY 0 SETUP-RELATED REQUIREMENTS	29
DAY 1 SETUP-RELATED REQUIREMENTS	29

DAY 2 SETUP-RELATED REQUIREMENTS	30
7: SETUP.....	31
STEP 1: ESTABLISH ADT LINK (ADT LINK).....	31
<i>ADT Communication Port</i>	31
<i>Activity Timeout</i>	32
<i>Options</i>	33
Admit patients on A08 update.....	33
Cancel discharge on update.....	33
<i>Event Handling</i>	33
<i>Failed Event Retry Limit</i>	33
STEP 2: TEST TRIGGER EVENTS (EVENT TEST RESULTS).....	34
STEP 2A: VIEW SAMPLE EVENTS (ADT EVENT SIMULATION)	35
<i>Standard Events</i>	35
<i>Custom Events</i>	37
STEP 3: REVIEW EVENT TEST SUMMARY (TEST SUMMARY)	37
STEP 4: RESTORE DEFAULTS (PURGE EVENTS).....	39
STEP 5: REVIEW OVERNIGHT SUMMARY (TEST SUMMARY)	40
STEP 6: REVIEW OVERNIGHT ERRORS (ERROR EVENTS)	42
STEP 7: REVIEW OVERNIGHT CENSUS (BED CENSUS)	44
STEP 8: ADT BED LIST (ADT BED)	47
<i>Manually Adding ADT Beds</i>	48
<i>Manually Deleting ADT Beds</i>	49
<i>Locking the ADT Bed List</i>	49
STEP 9: ESTABLISH RAULAND LINKS (RAULAND LINK)	50
STEP 10: RAULAND BED LIST (RAULAND BED).....	52
<i>Manually Adding Rauland Beds</i>	53
STEP 11: MAP ADT BEDS TO RAULAND BEDS (BED MAPPING)	54
STEP 12: MAP ADT FIELDS TO RAULAND FIELDS (FIELD MAPPING)	56
8: SERVICE ACCESS, DIAGNOSTICS, AND MAINTENANCE	61
LOGGING IN: SERVICE ACCESS.....	61
MAINTENANCE	62
<i>Review Census</i>	62
<i>Review Errors (Error Events)</i>	62
<i>Bed Report</i>	63
<i>Patient Report</i>	63
<i>Remove an Incorrect Patient</i>	64
APPENDIX A: CUSTOMIZING THE INTERFACE	66
SCREEN HEIGHT CONTROL	66
SCREEN DESIGN	67
HEADER TEXT SIZE	68

COLOR (THEMES)	68
FACILITY LOGO	70
CUSTOMIZE ACTIONS	71
CUSTOMIZE VIEWS	72
TECHNICAL SUPPORT CONTACT INFORMATION	73
FAILURE NOTIFICATION	74
CUSTOM PRINTOUT HEADER	75
APPENDIX B: ICON LEGEND	77
APPENDIX C: TRIGGER EVENTS PROCESSED	78
APPENDIX D: COMMON HL7 MYTHS	81
An account ID will always be present.....	81
Account IDs will be unique to a patient/incident.....	81
There will always be a patient ID/MRN present.....	81
HL7 segments will arrive in a pre-defined order.....	81
Every Trigger Event from the ADT System will reach its destination.....	81
There will be only one discharge date/time for an Account.....	81

1

1: Responder[®] 5 ADT Interface Introduction

Responder[®] 5 (R5) ADT Interface (Interface) is a Server application sold for use on a customer-provided Application Server. The Application Server sits between a facility's ADT system and the R5 system—and provides the R5 system with ADT bed census and patient data.

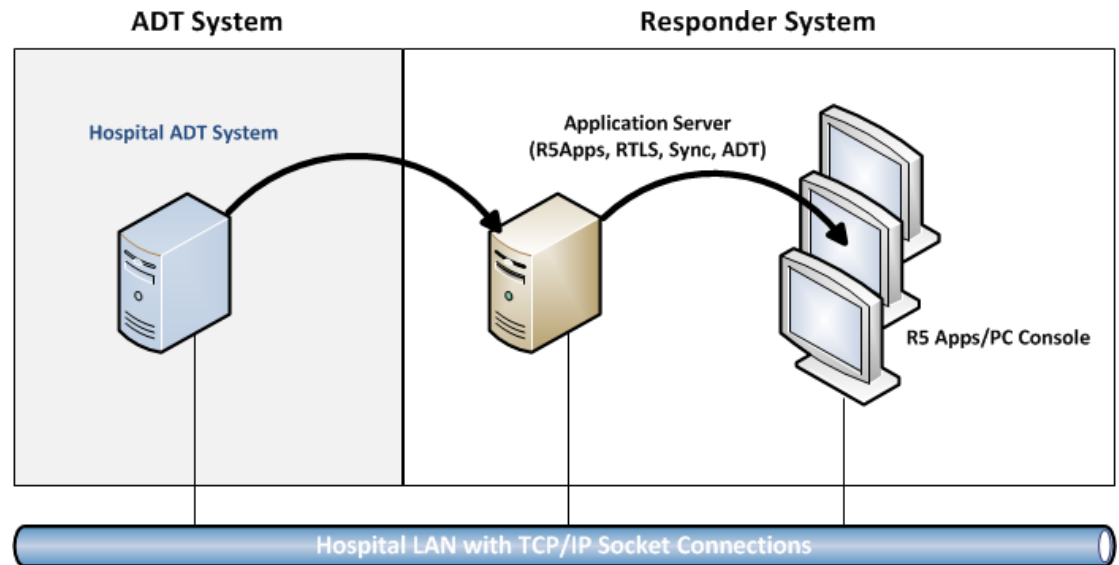


Figure 1: Interface Overview

The Interface is a self-contained application that can be installed and compatibility-tested with or without the remainder of the Responder system. It includes a web service that can be password-accessed by any PC running Microsoft Internet Explorer 6.0 or later.

Diagnostic monitoring, reporting, and a live input port are included to facilitate complete testing.

Revision History



This is the “C” version, which documents the “T12” iteration of the Interface. Since the “B” version, we have made many changes, including the addition of additional sections and chapters.

Scope of this Document



Read this document if your duties include installing/maintaining the Interface. Note: it does not deal with the effect of patient information once it is passed on to the rest of the Rauland solution.

Customer Connection

CUSTOMER CONNECTION

You can use Rauland’s secure Customer Connection site to find, view, and/or download many support documents—including manuals, drawings, and reports. To request an account, follow the online instructions at: <http://customerconnection.rauland.com>.

Related Documents



Other, related information can be found in the following documents:

- ✓ *Responder 5 Integration to ADT Systems* (HAN0053)
- ✓ *Responder 5 ADT and RTLS Integration Pre-requisites* (H3513TB)
- ✓ *Responder 5 in Your Data Center* (HAN0065)
- ✓ *Responder 5 Server Management* (HAN0092)
- ✓ *Responder 5 Configuration Guide* (KI-2237)
- ✓ *Responder 5 PC Console User Guide* (KI-2229A)

Alerts, Precautions, and Limitations



- ✓ The Interface is compatible with systems using the HL7 2.2—2.5 protocols. See the *Responder 5 Integration to ADT Systems* (HAN0053) for details regarding compatibility and supported trigger events.
- ✓ The Interface can be installed, connected to an ADT system, and gather patient information; it cannot pass that information to the remainder of the R5 system without an ADT Interface license (located on the Responder Application or Responder Database Server).
- ✓ Leave the Rauland Responder connection unconfigured during initial testing to prevent test data from being passed to the Responder system.

Host Requirements

The installation must meet the following Server Host and Client requirements:

Server Host Requirements

The Host Server should meet the following minimum requirements:

Item	Minimum Requirements
Operating System	Microsoft™ Windows Server 2008 Standard Edition, 5 CAL - IP Version 4 only. (The OS is not compatible with IP Version 6).
Database	Microsoft™ SQL Server 2008 with defaults plus: <ul style="list-style-type: none"> • Management Studio option • Database Engine option, with Text and Replication sub-options enabled • Login with admin rights available for Rauland use
IIS	IIS, version 7 (with IIS management compatibility)
Processor	Intel Core 2 Xeon CPU @ 2.4 GHz, 4MB cache
RAM	4GB DDR2 667 MHz
Hard Disk	(2) 250 GB SATA2 7.2 K RPM
RAID	SATA2 RAID controller – RAID 1
Drives	DVD R/W USB port

Table 1: Application Server Host Requirements

Client Host Requirements

All Clients must be running Microsoft Internet Explorer 6.0 or later.

Packing List



The Interface “kit” ships with the following:

Quantity	Part	Part Reference
1	Installation, Setup, and Service Guide (on CD)	KI-2246
1	Release Notes (on CD)	
1	Responder 5 Integration Applications CD	

Table 2: Packing List

2

2: Installation and Setup Overview

We strongly recommend that you observe the following installation and setup steps in the order presented.

What You Must Do ...	Where/How To Do It...
Gather all information and resources	Review the pre-installation and pre-setup sections.
Install the Server Application	Load the Install CD, and follow the prompts.
Logon as Admin	Admin Admin01 (default login and password)...
Configure an ADT port	See setup step 1 , (requires IS capability to send controlled events).
Complete the initial (day 1) tests	See setup steps 2 , 3 , and 4 .
Start a live feed for overnight test	Involve IS for this step.
Review the overnight test results	See setup steps 5 , 6 , and 7 .
Complete the ADT Bed list	See setup step 8 .
Configure the Rauland connection	See setup step 9 (requires working Responder 5 system).
Map ADT Beds to Rauland Beds	See setup steps 10 and 11 .
Map ADT fields to Rauland Fields (optional)	See setup step 12 .

Table 3: Installation and Setup Steps

3

3: Preparing for Installation

You must have the following equipment and resources prior to installation:

- ✓ A Host Server that meets all documented [specifications](#)
- ✓ A restricted access location for the Host
- ✓ A copy of Microsoft™ SQL Server 2008 with Management Studio

SQL Server Parameters

Microsoft™ SQL Server must be installed with the following parameters.

Item	Value
Authentication	<ul style="list-style-type: none"> ○ The Installation program requires SSQL mixed mode. ○ The Windows user performing the installation must be a part of the “Administrators” group and hold administrator privileges.
Login	Set automatically.
Password	Set automatically.

Table 4: Microsoft™ SQL Server 2008 Requirements

4

4: Installation

The Integration software is distributed on CD, the contents of which must be loaded on a dedicated LAN-based Server designated as the “Responder Application PC.” The CD will check for a valid PC host environment—including available drive space, OS versions, DB installation, and components (IIS, .NET 2.0 framework)—and will alert you of any issues.

Updating an Existing Installation...

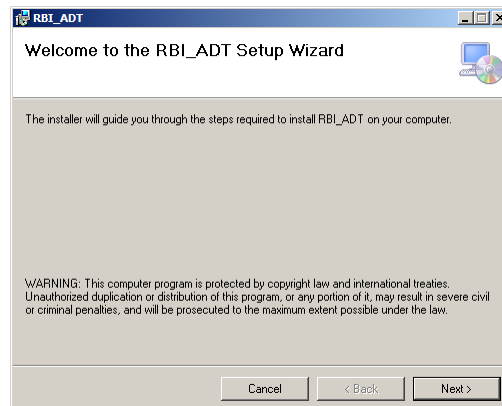
If you are updating an existing installation, you must use the Add/Remove Programs applet (Control Panel) to remove the RBI-ADT prior to loading a newer version:



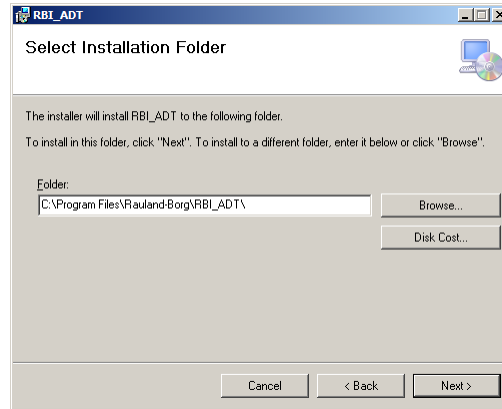
Existing configuration and data (beds, mapping, patients) are kept when updating an existing installation.

To Load the Software:

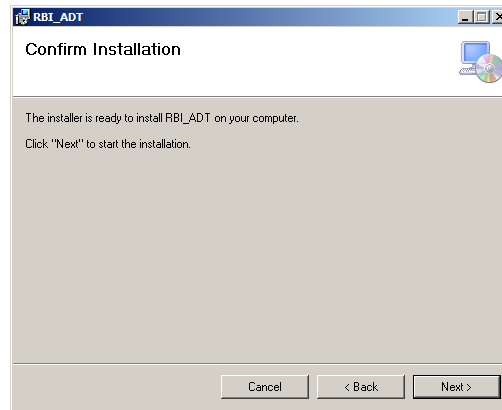
- 1 Insert the CD into an available drive.
- 2 Double click on SetupADT.exe.
 - The Components screen will appear.
- 3 Click on Install.
 - The RBI_ADT setup wizard will appear:



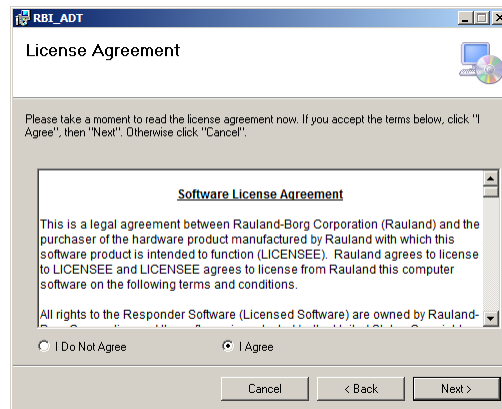
- 4 Click on Next.
 - The Select Installation Folder screen will appear:



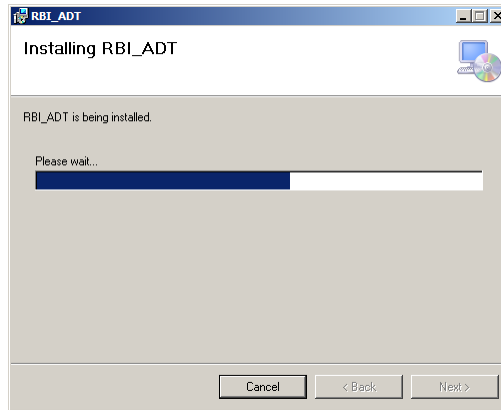
- Do not change the default installation folder entry.
- 5 Click on Next.
 - The Confirm Installation screen will appear:



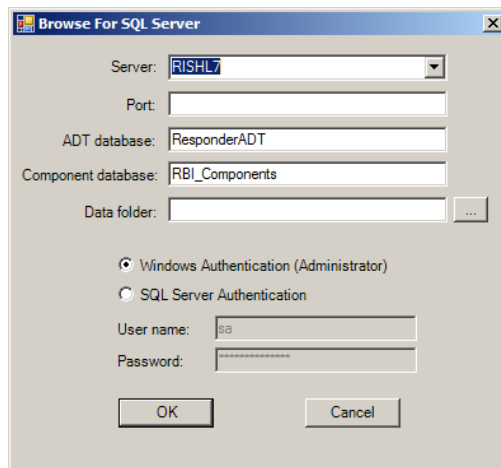
- The License Agreement screen will appear:



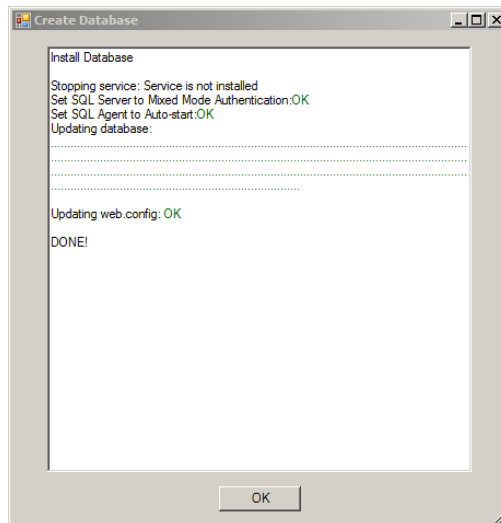
- 6 Read and agree to the license agreement.
- 7 Click on Next.
 - The Installation Program screen will appear:



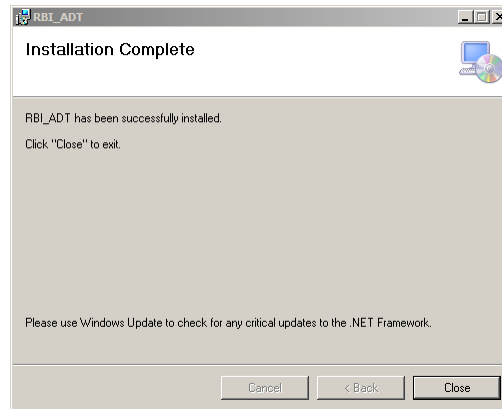
➤ The Browse for SQL Server screen will appear:



- Should you have a specific reason for doing so, you may choose a new location for the SQL Server database.
 - Leave the Database Name and Windows Authentication defaults in place.
- 8 Click OK.
- The Create Database screen will appear:



- 9 Click OK.
 - The Installation Complete screen will appear:



- 10 Click on Close.
 - The main Install screen will reappear.
- 11 Click on Close.
 - The Responder ADT Web UI shortcut will appear on your desktop:



5

5: Touring the Interface

In this chapter, you'll learn how to use the Interface. The Interface is comprised of multiple dynamic panes, dropdown menus, controls, and buttons.



Because the Interface is customizable, your views may differ from the ones in this guide.

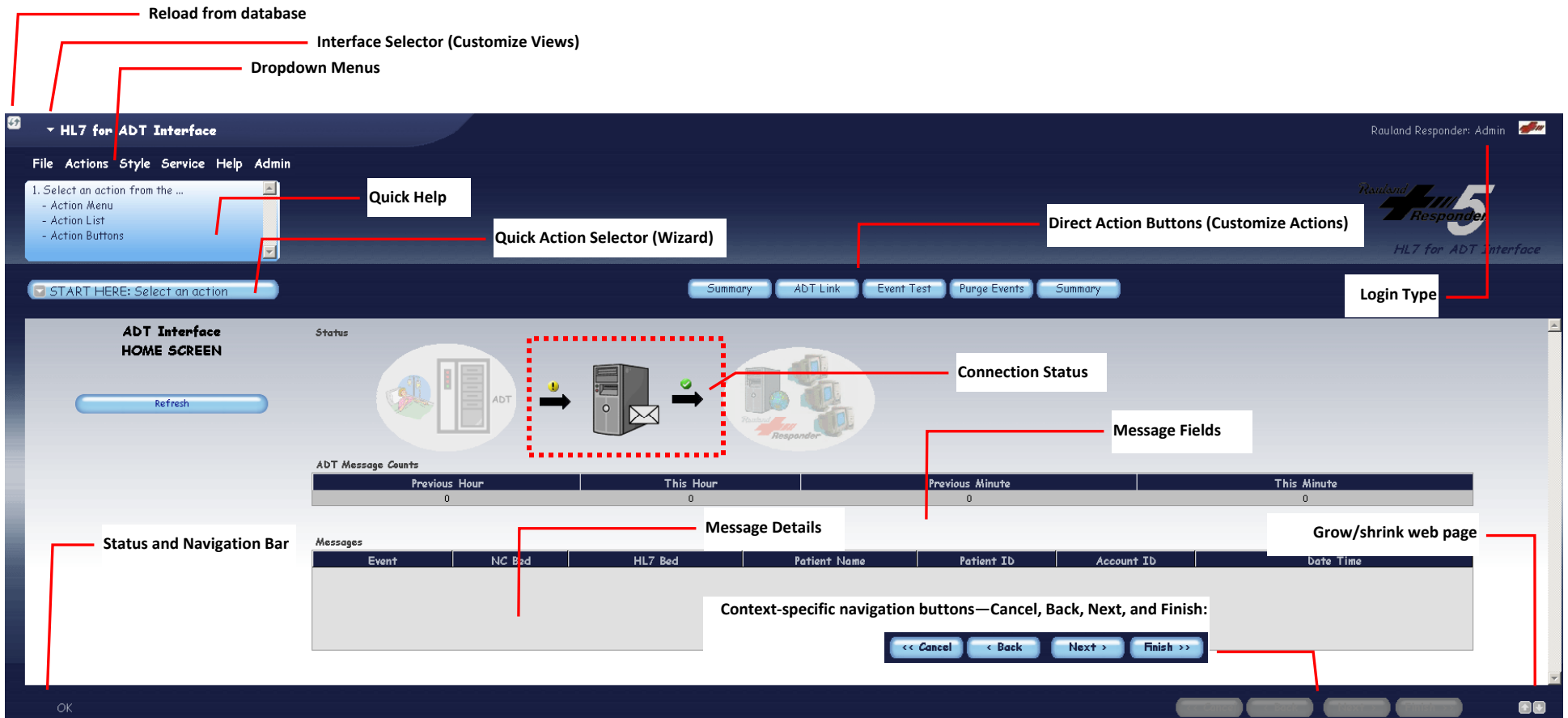


Figure 2: Interface Home Screen

Logging In to the ADT Interface

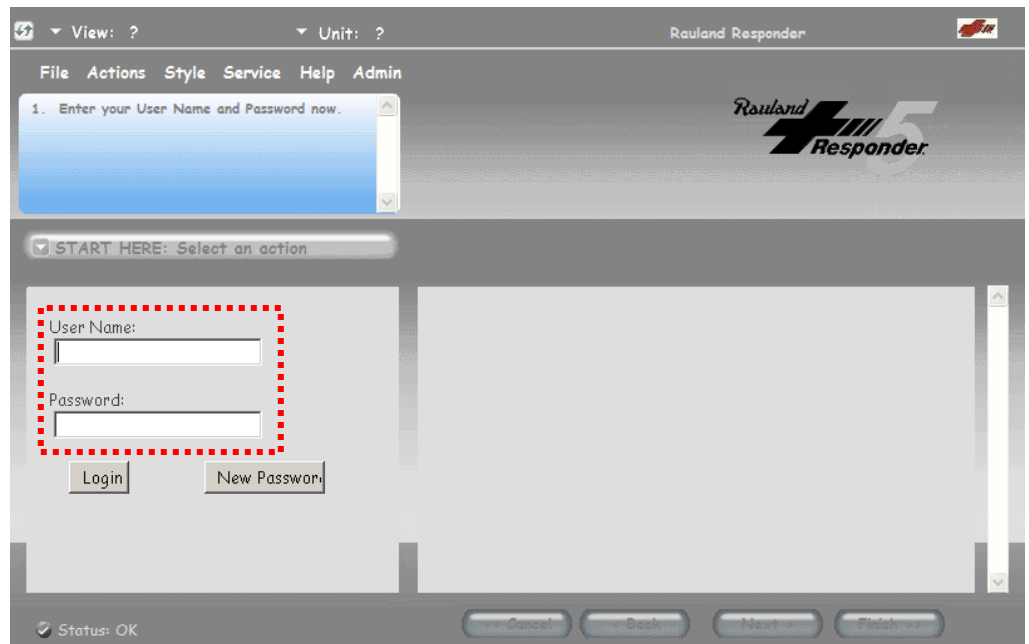
In order to begin the setup process, you must first login to the ADT Interface:

To Login:

- 1 Locate and double click on the Responder ADT Web UI Login desktop icon:



- Or, enter the following URL in your IE browser:
[HTTP://yourServerIP/RBI_ADTweb/default.aspx](http://yourServerIP/RBI_ADTweb/default.aspx).
- The Login screen will appear:



- 2 Enter the following default administrator information:
 - **User Name:** Admin
 - **Password:** Admin01
- 3 Click on Login.
 - The Home Screen will appear.



You may use the “New Password” button to change the default/current password:



User Name:

Password:

New Password

Confirm New Password:

Accessing and Using the Wizard

You can access the wizard from the Actions menu, Quick Action Selector, or Direct Action Buttons. (You may have to click on the Cancel or Finish buttons in order to return to the Home Screen.)



Figure 3: Actions Menu



Figure 4: Quick Action Selector (Setup Wizard)



Figure 5: Direct Action Buttons

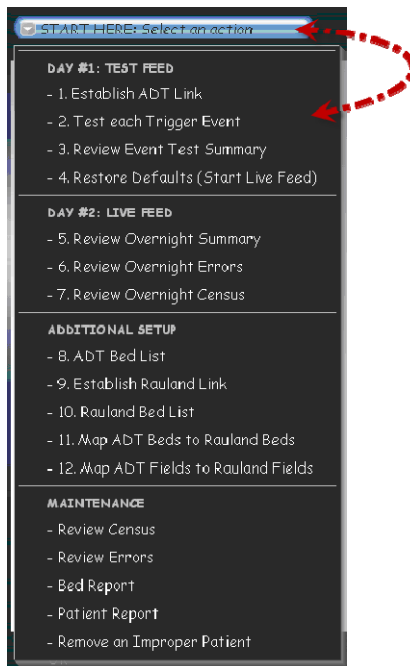
To Access and Begin Using the Setup Wizard:

- 1 Open and log into the Interface.
 - The menu bar, Quick Action selector, and/or Direct Action buttons will appear:



Figure 6: Menu bar, Quick Action Selector, Direct Action Buttons

- You'll use either the Actions menu or the Quick Action selector to access and begin using the Wizard.
 - You may later use the Direct Action buttons to engage any of the individual configuration options.
- 2 Click on the Quick Action selector.
 - Wizard steps 1 through 12 will appear in the drop down.



To Control the Setup Wizard:

You can control the Wizard using the context-sensitive control buttons, located at the bottom of the Interface:

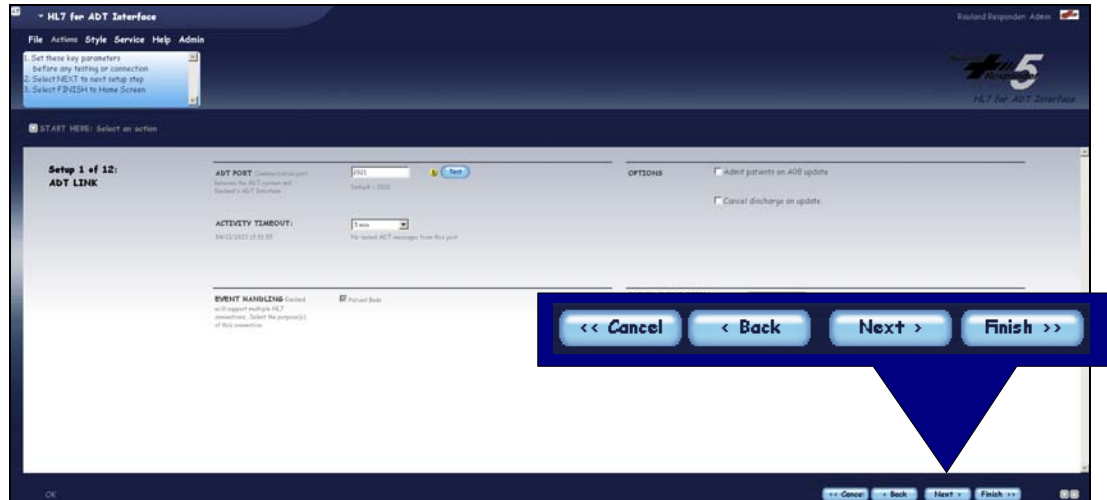


Figure 7: Wizard Control Buttons

Logging Off

In order to log off, you’ll need to “X” out of the Interface web page.

Dropdown Menus

All functions are accessible via one of the dropdown menus.

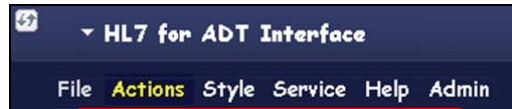


Figure 8: Interface Menu

File Menu

Only the Print option is currently functional on the File Menu.

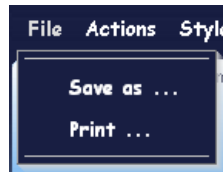


Figure 9: Interface File Menu

Actions Menu

You’ll use Setup Wizard steps found in the Actions menu to configure the ADT Interface:

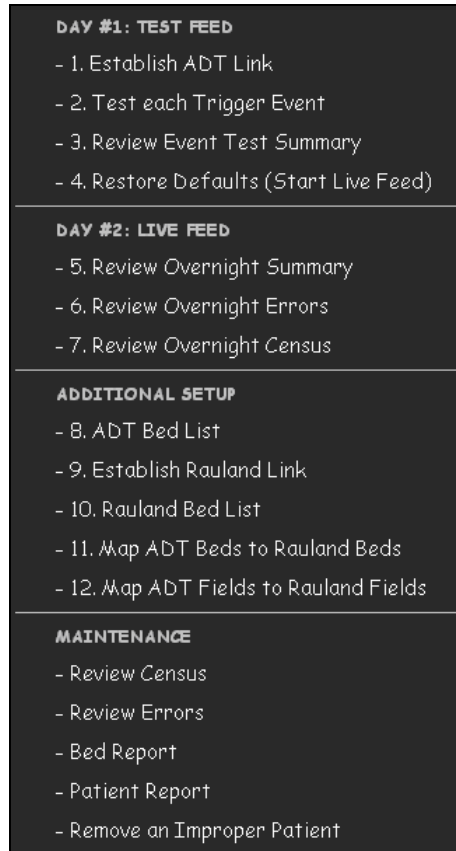


Figure 10: Interface Actions Menu

The Actions menu also provides access to all of the Maintenance functions.

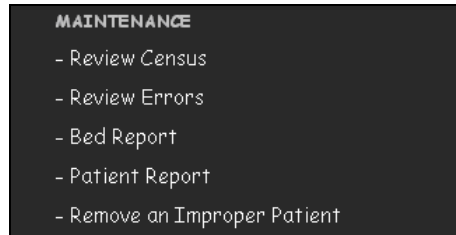


Figure 11: Interface Actions Menu (Maintenance Callout)

Other Things You Should Know:

- ✓ You can only access the Actions Menu from the Home Screen.
- ✓ Clicking on any Cancel or Finish button will return you to the Home Screen.

Style Menu

Should you wish, you'll use the Style Menu to change the look of the display—screen design, header text size (not currently functional), color, and facility logo.

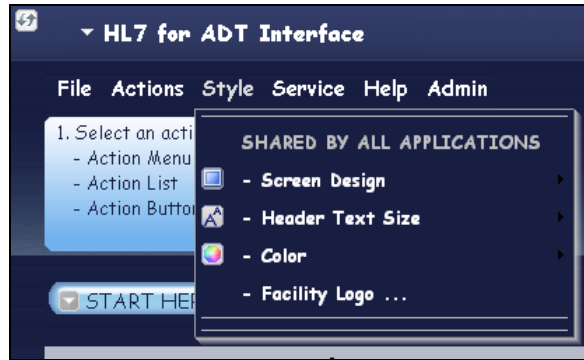


Figure 12: Interface Style Menu

Service Menu

You'll use the Service menu to view service logs and technical support contacts and set technical support information.



Figure 13: Interface Service Menu

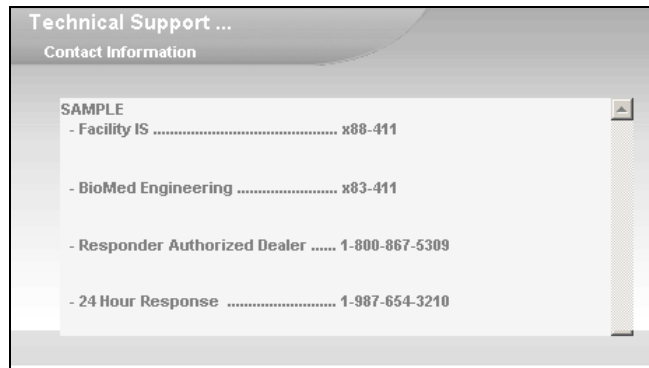


Figure 14: Technical Support

Help Menu

You'll use the Help menu to toggle the Quick Help feature on and off, view the system help file, access technical support contacts, and set technical support information.



Figure 15: Interface Help Menu

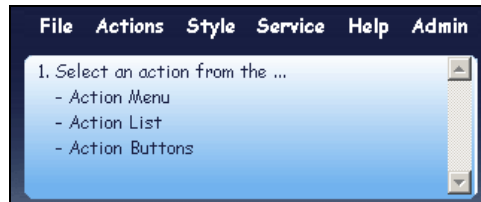


Figure 16: Interface Quick Help

The About link provides current Responder 5 Server and Client Apps version details:

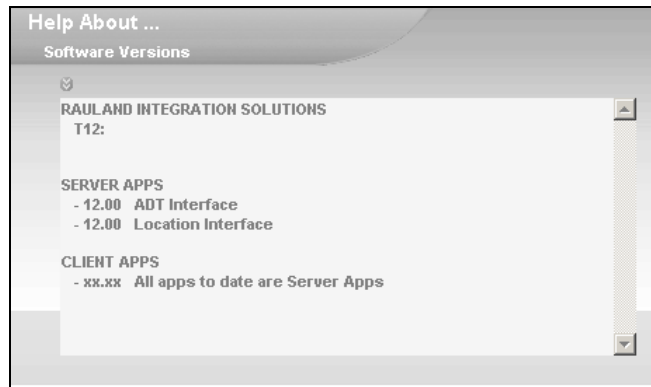


Figure 17: Help | About

Admin Menu

You'll use the Admin menu to set technical support information.

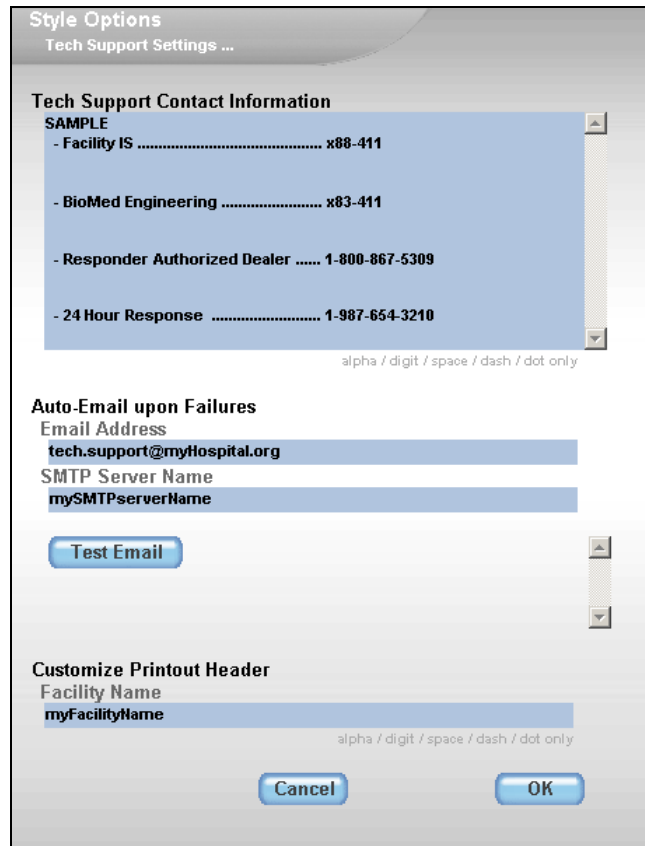
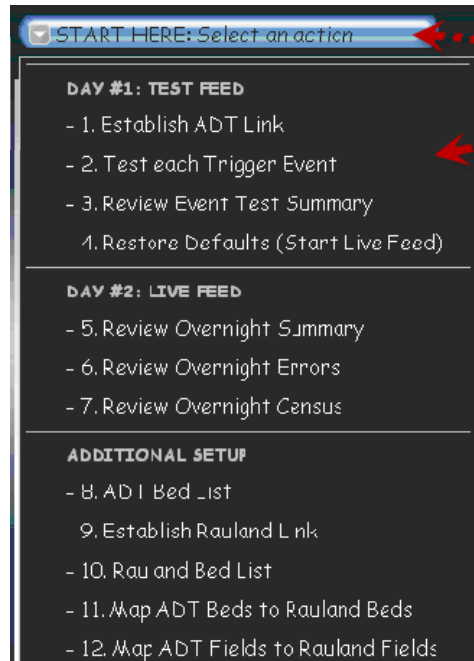


Figure 18: Interface Menu

Quick Action Selector

Depending on the screen design you've chosen, you may see the Quick Action selector, which allows you to access all of the options available on the Actions menu.



Direct Action Buttons

The Interface supports 25 listed actions; five (5) of these actions can appear at any time as “Direct Action Buttons”—which are used as shortcuts.



Figure 19: Direct Actions Buttons

The Interface automatically assigns the most frequently used actions to buttons—unless you use the [Customize Actions feature](#), which allows you to “Hide Unused Actions,” “Always” make an action a button, or “Never” make an action a button.

Context-Sensitive Controls

Context-sensitive controls appear on the left side of many screens:

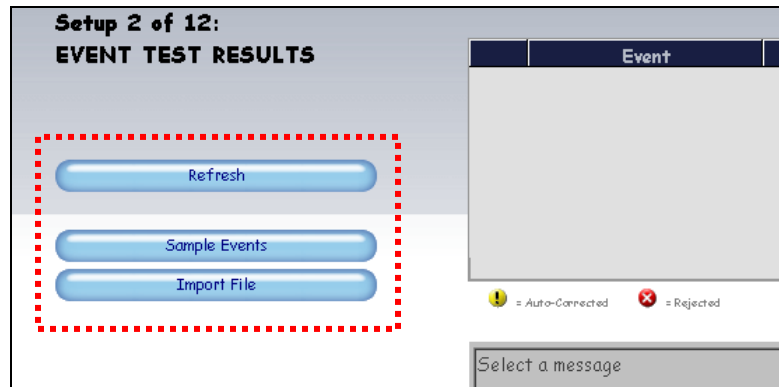


Figure 20: Context-Sensitive Controls

Status Display (Home Screen)

System status will appear above the message area on the Home Screen:

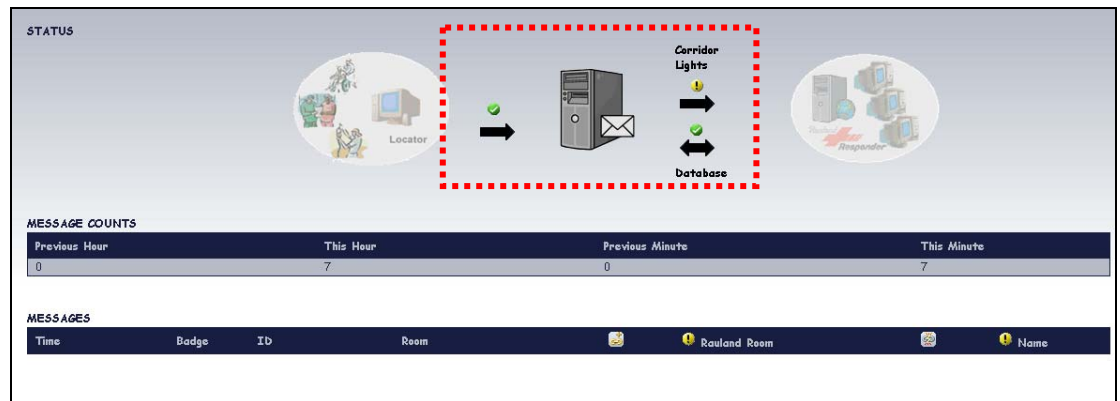


Figure 21: Status Display (Home Screen)

Context-Sensitive Quick Help

In certain display modes, the Context-Sensitive Quick Help box will appear. For instance, what you see while viewing the Event Test Results screen will differ from what you see while using the Test Summary screen:

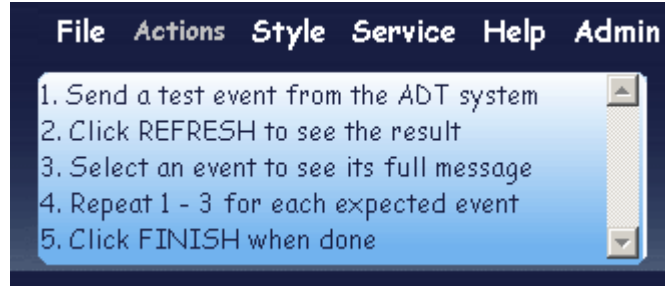


Figure 22: Context-Sensitive Instruction Box (Event Test Results)

Controls and Indicators

You'll find various context-specific controls and indicators on the Home screen, including those that impact or show Units, Username, logo, menu ribbon, and screen display.



Figure 23: Interface Controls

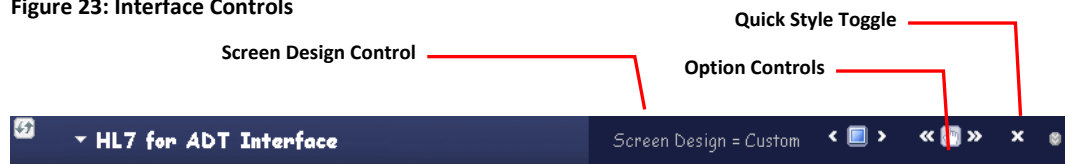


Figure 24: Interface Controls 2

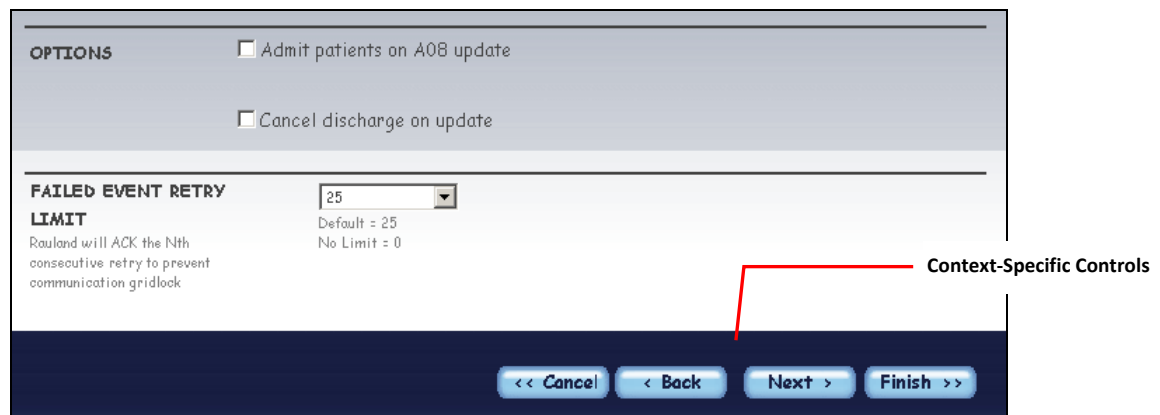


Figure 25: Context-Specific Controls

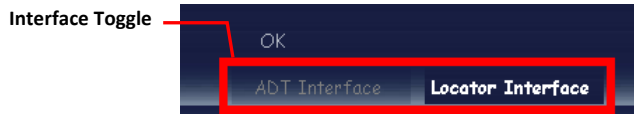


Figure 26: Interface Toggle (ADT or RTLS “Locator”)

6

6: Preparing for Setup

Setup involves the pre-implementation and implementation steps listed below:

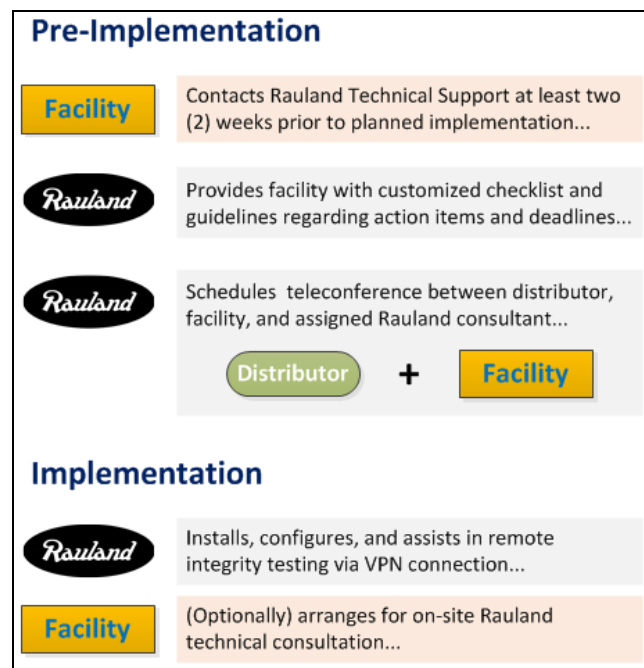


Figure 27: Pre- and Implementation Overview

Day 0 Setup-Related Requirements

- ✓ Have a working R5 system(s).
- ✓ Have a license key for the Interface for each R5 system.

Day 1 Setup-Related Requirements

- ✓ Have a completed Installation Prerequisites document for the site.
- ✓ Request Facility IS support from someone with can send controlled trigger events *A01 Admit* to *A62 Cancel Change Consulting Doctor* as needed from the ADT system.

- ✓ Have the [ADT system port number](#).
-

Day 2 Setup-Related Requirements

- ✓ Request Facility IS support from someone with can read the ADT system census.
- ✓ Have a list of all R5 beds.
- ✓ Have a list of all ADT beds that will be linked to R5 beds.
- ✓ Have the connection string for each R5 system (defaults are presented on-screen).

7

7: Setup

After you've logged in, setup requires you engage in the following 12 steps in the following order—over the course of two (2) days:

Step 1: Establish ADT Link (ADT Link)



Of the 12 steps, the first requires you to attend to communication port, timeout, event handling, option, and failed event retry limit parameters using the ADT Link screen:

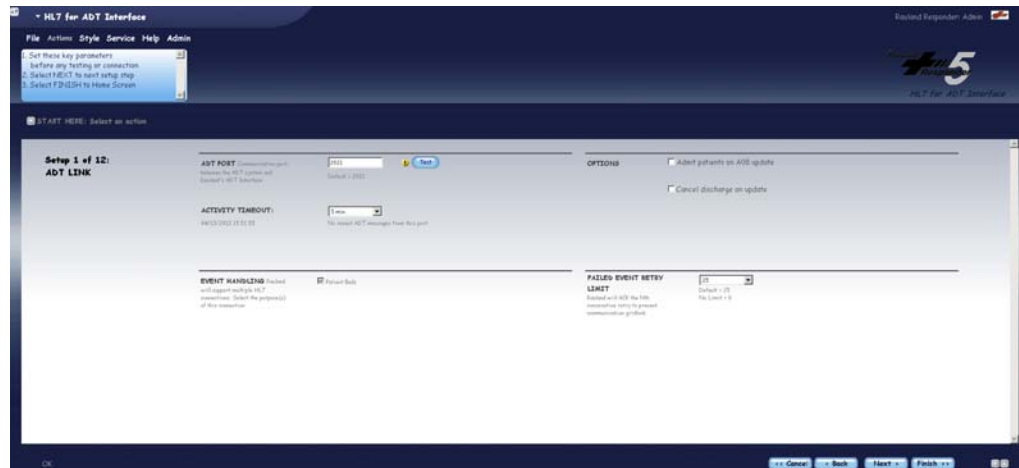


Figure 28: ADT Link Screen

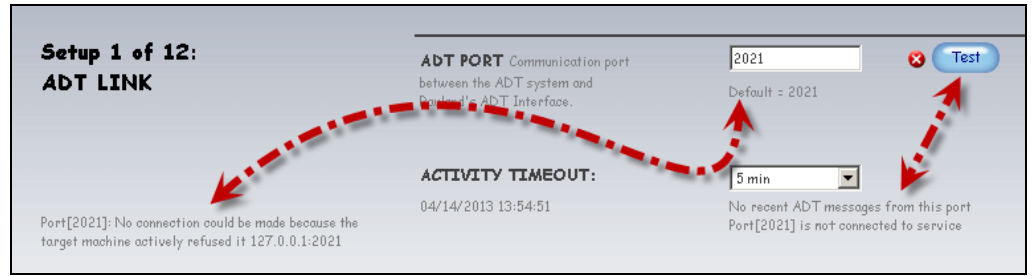
ADT Communication Port

The Interface sits between the facility's ADT system and the R5 system and communicates with the ADT system via a specific port.

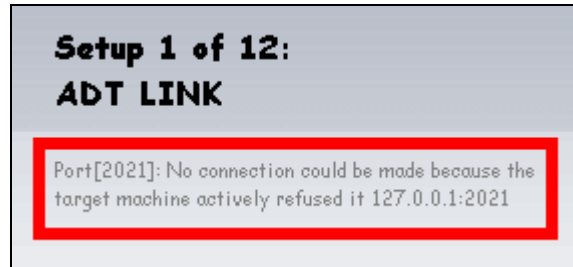
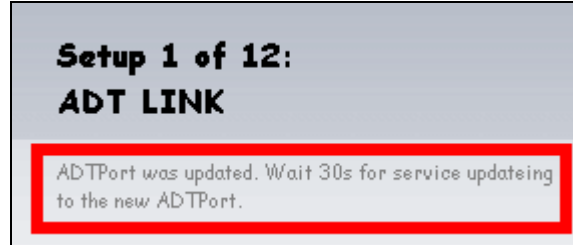
Default: Port 2021

To Select a Port

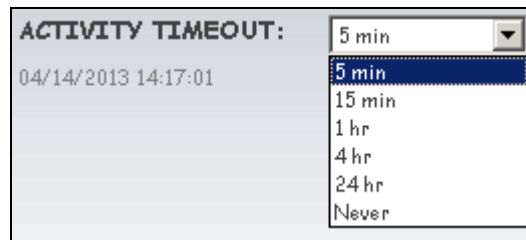
- 1 Type in the port number (provided by the facility's IS group).
 - Use the TEST button to retry the link and refresh port status once you've made an entry:



► **Note:** it takes 30 seconds for a new port assignment to activate. Update status is displayed in the left pane:



Activity Timeout



You can enter an Inactivity Timeout value in order to mark the link as “failed” after a period of inactivity and to help determine Interface reliability.

Default: 5 mins.

Range: 5 mins., 15 mins., 1 hr., 4 hrs., 24 hrs., Never

To Set the Inactivity Timeout Value

- 1 Use the dropdown box to select a timeout value that anticipates false failures.

Options

The ADT Link screen requires you make admit and discharge decisions regarding A08 updates:

Admit patients on A08 update

The system can be set to re-sync (correct previous census errors) on each A08 update, which is a) typically the most common message in normal operation, b) the simplest for IS personnel to generate manually, c) helpful for initial census population, and d) a sound way to maintain accurate census during continued operation.

To Use the A08 Update Feature

- o Check the **Admit patients on A08 update** to cause each A08 update—containing a bed, but no discharge date—to admit or transfer the account to the bed if not already there.

Cancel discharge on update

Check the **Cancel discharge on update** to if wish to send an A08 discharge message.

Event Handling

Because Responder 5 can report multiple HL7 connections, you must determine the purpose of the ADT connection.

The only Event Handling option for the T12 software version is Patient Beds. **Note:** this feature has not yet been implemented.

Failed Event Retry Limit

The ADT system typically retries failed events until manually made to skip the failed message—potentially causing an endless “loop”; therefore, you may wish to enter a Failed Event Retry Limit, which will automatically prevent endless loops.

A Retry Limit will NAK consecutive failed events until the limit is reached, log the limit, ACK the event, and automatically prevent an endless loop.

Default: 25.

No limit: 0.

Range: 0-100.

To Set the Failed Event Retry Limit

- 1 Use the dropdown to select the limit.
 - If the limit is triggered, the system logs the Failed Event Retry data (Service | View Service Logs).

Step 2: Test Trigger Events (Event Test Results)



Next, you should test compatibility to insure that Facility IS understands how the Interface handles **each and every** HL7 event sent by the ADT system:



Figure 29: Event Test Results



Test each facility trigger event, one at a time.

To Test a Trigger Event

- 1 Send a single trigger event from the facility ADT system.
- 2 Click on REFRESH.
- 3 Review the response (AA accept or AE error) and patient census reaction (MOVE TO, MOVE FROM, and REMOVE) in the Message box:

LAST EVENT					
Event	ADT Bed	Name	Patient ID	Account ID	
Event ADT A02	TRAINING1, 102, 1	Abramsson02, Abra	PID_02T	AID_02T	
---- Move From	TRAINING1, 102, 2	Abramsson02, Abra	PID_02T	AID_02T	
---- Move To	TRAINING1, 102, 1	Abramsson02, Abra	PID_02T	AID_02T	
Response AA					

! = Auto-Connected ✖ = Rejected

TEST STATISTICS

# Event Sent	= 2
# Error Events	= 0
Event Rate (Events/Sec)	= 6.47

4 Repeat for each ADT trigger event type.

Step 2A: View Sample Events (ADT Event Simulation)



View/send known good events in a loopback (from the Interface to the Interface).

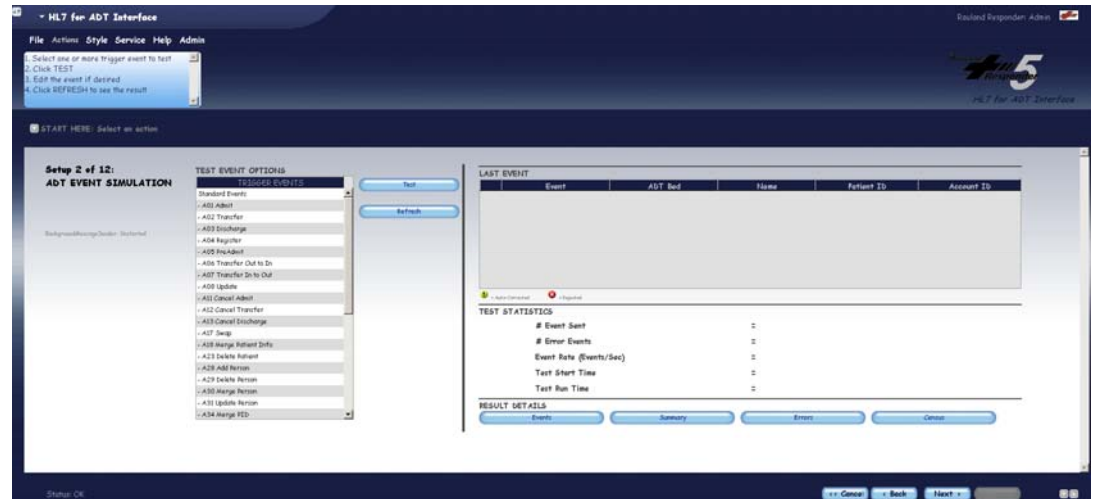


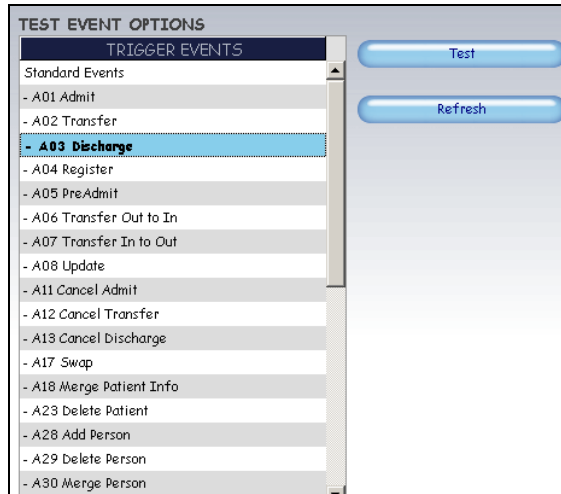
Figure 30: ADT Event Simulation

Standard Events

If any particular ADT trigger event from the facility does not work, sample events can be sent to view the exact message and how the Interface handles it.

To Send a Standard Event

1 Select the trigger event(s) to send.



- 2 Click on TEST.
 - The Custom Test Message summary will appear:



- Test messages can be used by Rauland personnel during troubleshooting.
- 3 Click on SEND.
 - The results will appear:



- Review the response (AA accept or AE error) and patient census reaction (MOVE TO, MOVE FROM, and REMOVE) in the Message box.

Custom Events

If any particular ADT trigger event from the facility does not work, you can edit, send, and analyze known good events to pinpoint cause. Consult Rauland Technical personnel for further assistance with this analysis.

To Send a Custom Event

- 1 Select the trigger event to use as a baseline.
- 2 Click on TEST.
 - The Custom Test Message summary will appear:



- 3 Make changes to any entry in the textbox.
- 4 Select SEND to view the results:

LAST EVENT					
Event	ADT Bed	Name	Patient ID	Account ID	
Event ADT A02	TRAINING1, 102, 1	Abramsson02, Abbral	PID_02T	AID_02T	
--- Move From	TRAINING1, 102, 2	Abramsson02, Abbral	PID_02T	AID_02T	
--- Move To	TRAINING1, 102, 1	Abramsson02, Abbral	PID_02T	AID_02T	
Response AA					

! = Auto-Connected x = Rejected

TEST STATISTICS		
# Event Sent	=	2
# Error Events	=	0
Event Rate (Events/Sec)	=	6.47

- Review the response (AA accept or AE error) and patient census reaction (MOVE TO, MOVE FROM, and REMOVE) in the Message box.
- 5 Select NEXT to return to the Event Test Results screen.

Step 3: Review Event Test Summary (Test Summary)



After you've tested trigger events, you should review untested, rejected, and accepted trigger events:

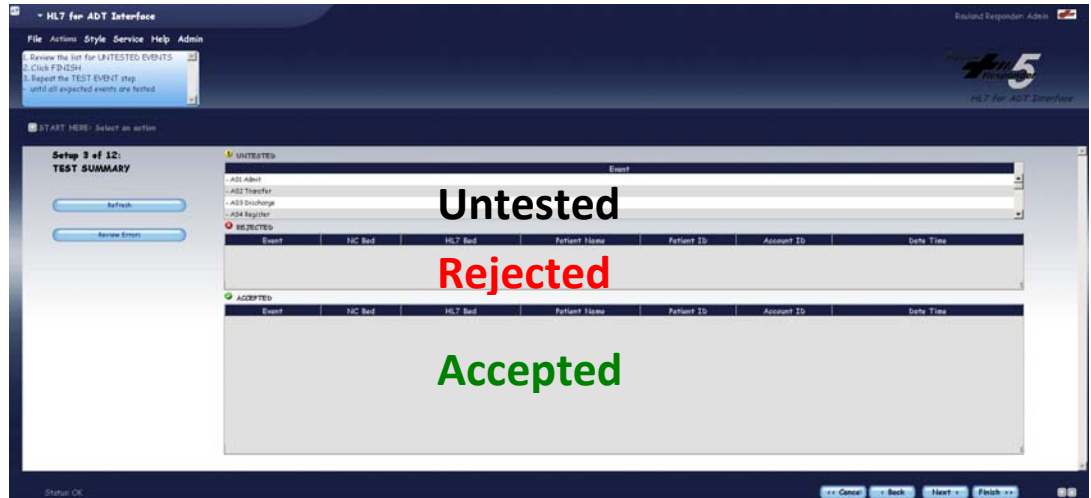
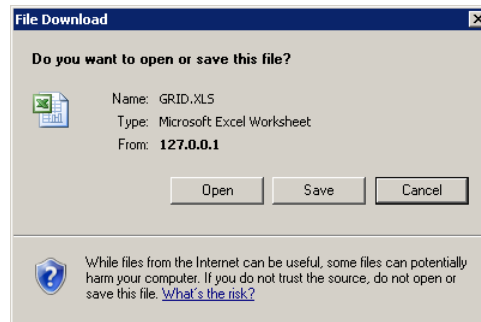


Figure 31: Review Event Test Summary (Test Summary)

You can either save the results as an Excel worksheet or print them as a web page:

To Save the Test Summary as an Excel Worksheet

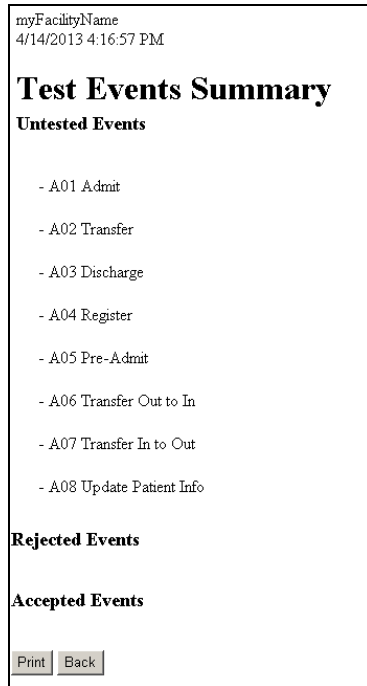
- 1 Click on SAVE As (File | Save As).
 - The file download dialog will appear:



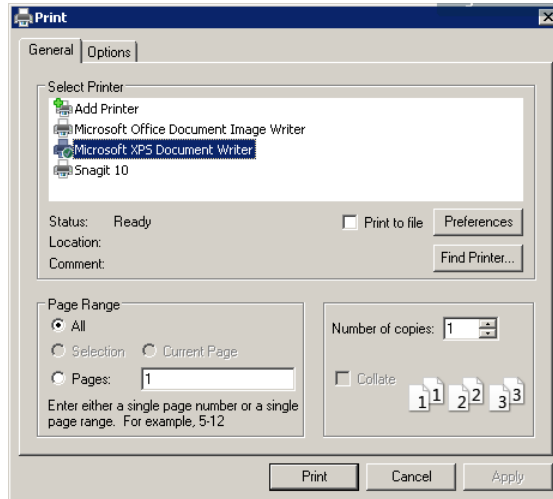
- 2 Click OPEN to view the worksheet, or SAVE to save it for later review.

To Print the Test Summary

- 1 Click on PRINT (File | Print).
 - The summary will appear as a web page:



- 2 Click on PRINT.
 - The Print dialog will appear:



Step 4: Restore Defaults (Purge Events)



Once you've completed the Events tests, you must purge the database to remove artificial errors, beds, or patients associated with initial event testing.

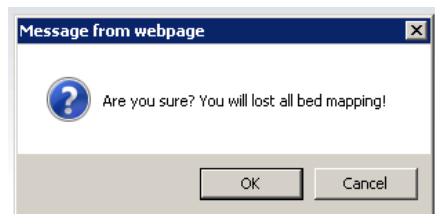
Purging this data before retesting or reconnecting the live feed insures that subsequent statistics and census will reflect only real facility data.



Figure 32: Restore Defaults (Purge Events)

To Restore Defaults

- 1 Make sure that you do not require any patient, bed, or event data.
 - You cannot restore purged data.
- 2 Click PURGE ALL.
- 3 Confirm your action:



Step 5: Review Overnight Summary (Test Summary)



On the second day, you should review the overnight summary—which shows untested, rejected, and accepted trigger events. Rejected events offer insight into how to adjust the Interface engine.

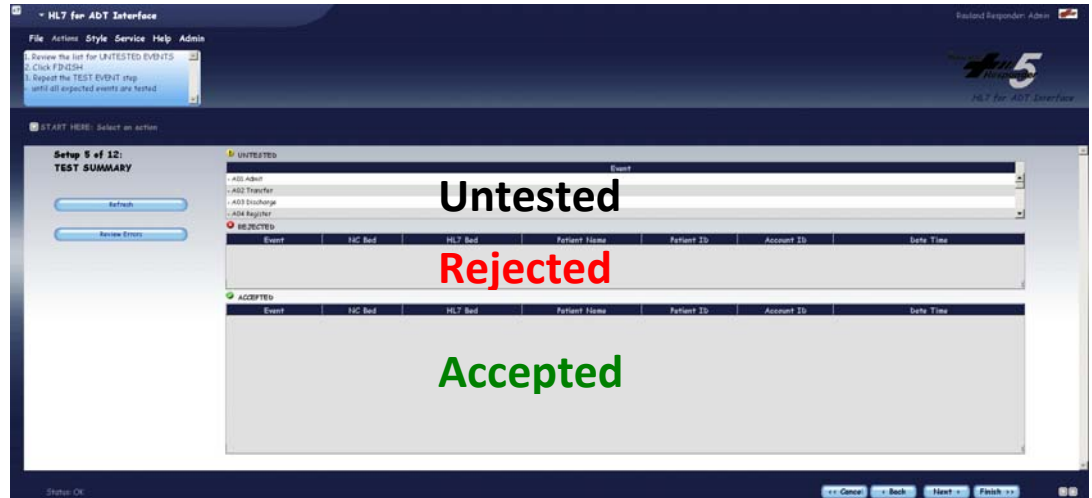
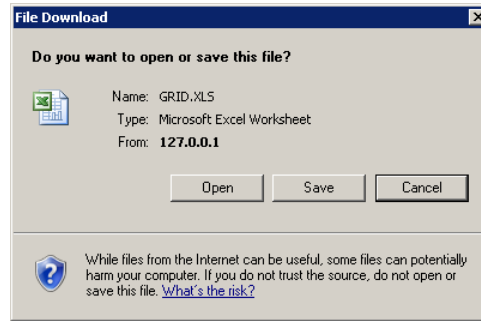


Figure 33: Review Overnight Summary (Test Summary)

To Save the Test Summary as an Excel Worksheet

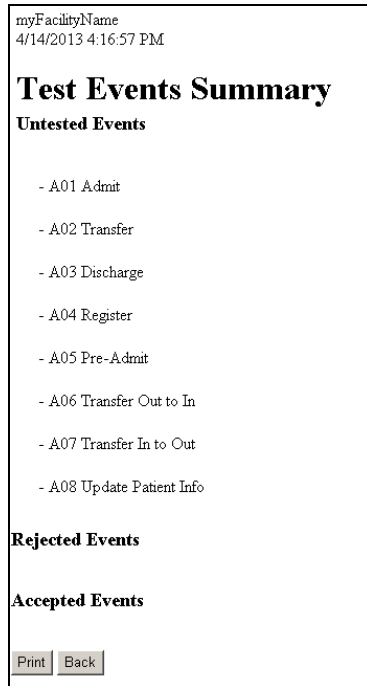
- 1 Click on SAVE As (File | Save As).
 - The file download dialog will appear:



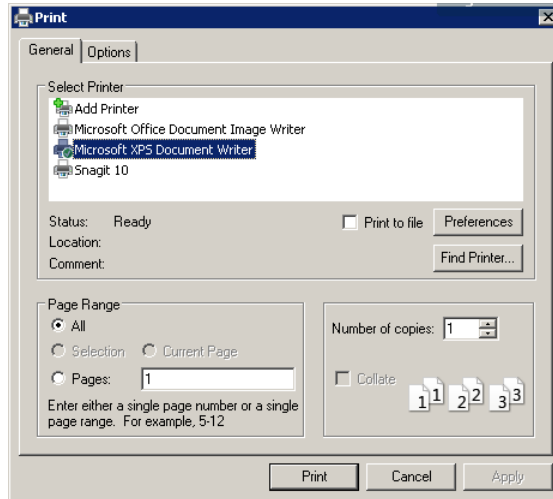
- 2 Click OPEN to view the worksheet, or SAVE to save it for later review.

To Print the Test Summary

- 1 Click on PRINT (File | Print).
 - The summary will appear as a web page:



- 2 Click on PRINT.
 - The Print dialog will appear:



Step 6: Review Overnight Errors (Error Events)

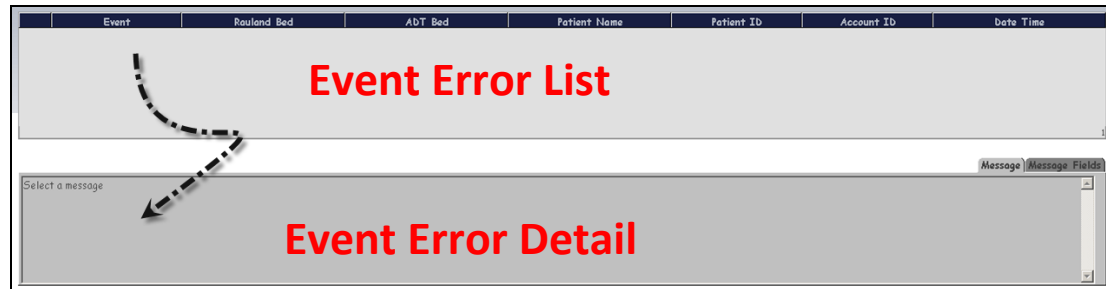


The Trigger Event Error log shows the most recent failed and problematic events.



Event	Roulend Bed	ADT Bed	Patient Name
Event ADT A01	TUB, 330, 01		MASSOLI, JENNIFER, M
---- Response AE			

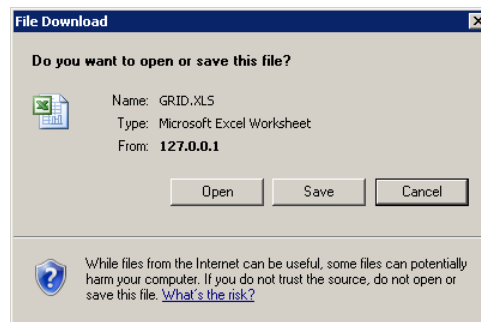
➤ A detailed record will appear in the Event Error Detail pane:



To Save the Test Summary as an Excel Worksheet

1 Click on SAVE As (File | Save As).

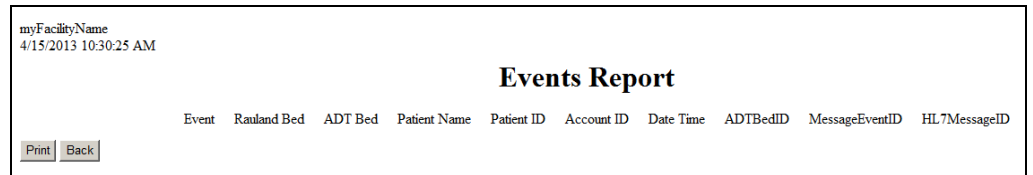
➤ The file download dialog will appear:



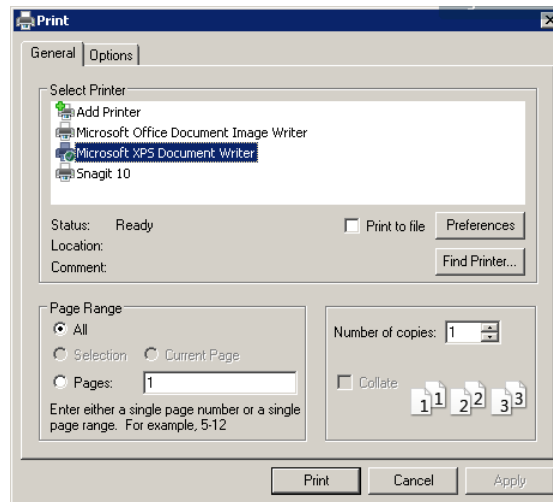
2 Click OPEN to view the worksheet, or SAVE to save it for later review.

To Print the Test Summary

- 1 Click on PRINT (File | Print).
 - The summary will appear as a web page:



- 2 Click on PRINT.
 - The Print dialog will appear:



Step 7: Review Overnight Census (Bed Census)



Census data indicates the success of the overnight census test. It is also the first place to review Rauland/ADT patient data consistency.

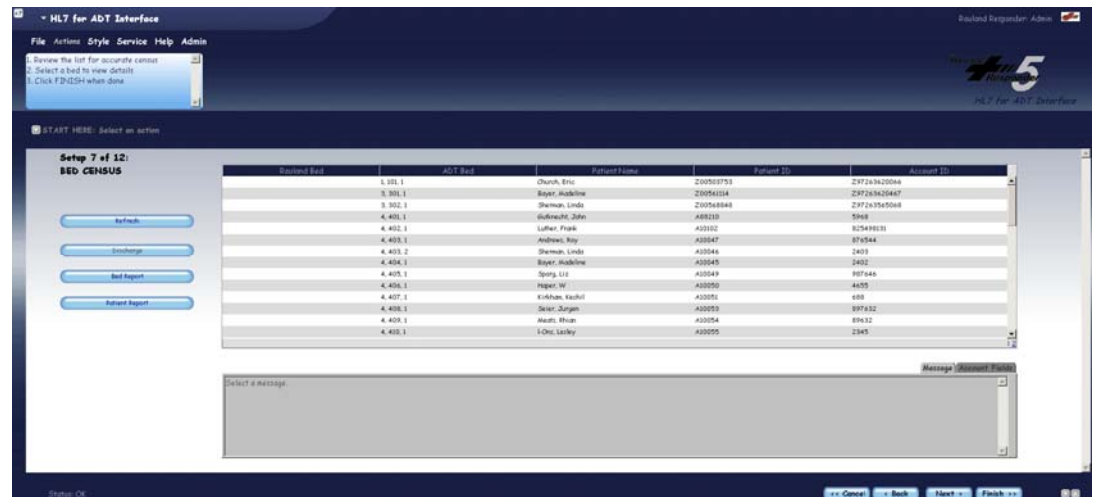


Figure 35: Review Overnight Census (Bed Census)

To View the Bed Report

- 1 Click on BED REPORT:



- The Bed Report screen will appear:



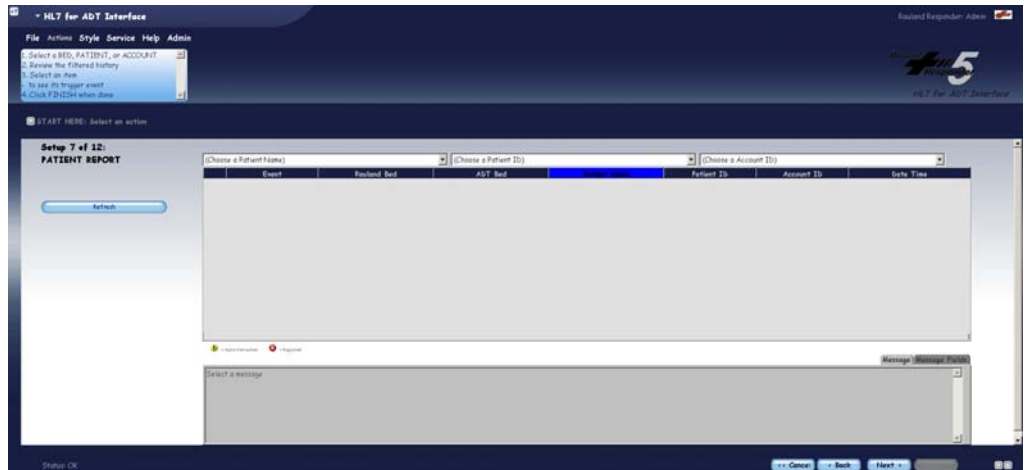
- Clicking on any entry in the upper pane will show details in the lower.

To View the Patient Report

- 1 Click on PATIENT REPORT:



- The Patient Report screen will appear:

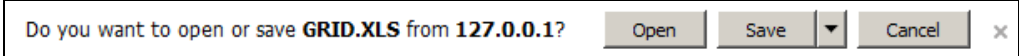


- Clicking on any entry in the upper pane will show details in the lower.

To Save the Test Summary as an Excel Worksheet

- 1 Click on SAVE As (File | Save As).

- The file download dialog will appear:



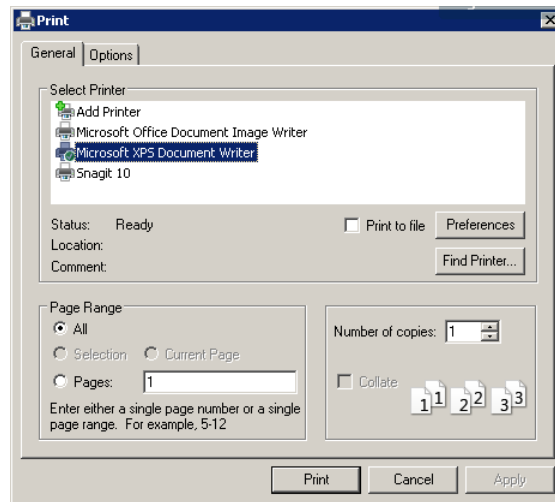
- 2 Click OPEN to view the worksheet, or SAVE to save it for later review.

To Print the Census Results

- 1 Click on PRINT (File | Print).
 - The results will appear as a web page:

myFacilityName 4/19/2013 11:56:37 AM						
Bed Census Data						
Rauland Bed	ADT Bed	Patient Name	Patient ID	Account ID	NoBedID	ADTBedID
	1, 3501, 1, 1					64
	1, 3503, 1, 1					65
	ER, 24, RW	TEST, ORDERREVIEW/BUDE	E189570	8908806		67
	TRAINING1, 101, 1	Aronson01, Aaron, A	PID_01T	AID_01T		66
ICU, 3503, 1	1, 3503, 1	OTTER, EMMET	M000000021	V00000000028	24	59
rec, RM3501, 1	1, 3501, 1				26	57
rec, RM3502, 1	1, 3502, 1	DUCK, DAFFY	M000000007	V00000000004	28	58
rec, RM3502, 2	1, 3502, 2				29	62
staff, RM3504, 1	1, 3504, 1				11	60
staff, RM3505, 1	1, 3501, 1, 1	Berg, Erik	M000000020	V00000000020	13	63
staff, RM3505, 1	1, 3505, 1				13	61

- 2 Click on PRINT.
 - The Print dialog will appear:



- 3 Click BACK to return to the results screen.

To Discharge a Patient

- 1 Select any entry in the entry in the Bed Census list.

Rauland Bed	ADT Bed	Patient N
	1, 101, 1	Church, Eric
	3, 301, 1	Bayer, Madeline
	3, 302, 1	Sherman, Linda
	4, 401, 1	Gutknecht, John
	4, 402, 1	Luther, Frank
	4, 403, 1	Andrews, Roy

- 2 Click on DISCHARGE:



- 3 Confirm the discharge:

Setup 7 of 12:
BED CENSUS

Refresh

Discharge

Bed Report

Patient Report

Rauland Bed	ADT Bed	Patient N
	1, 101, 1	Church, Eric
	3, 301, 1	Bayer, Madeline
	3, 302, 1	Sherman, Linda
	4, 401, 1	Gutknecht, John
	4, 402, 1	Luther, Frank
	4, 403, 1	Andrews, Roy
	4, 403, 2	
	4, 404, 1	
	4, 405, 1	
	4, 406, 1	
	4, 407, 1	
	4, 408, 1	
	4, 409, 1	
	4, 410, 1	

Message from webpage

Are you sure to discharge this patient?

OK Cancel

- 4 Repeat as necessary.
- 5 Click NEXT to move on the step 8/12.

Step 8: ADT Bed List (ADT Bed)



You can use the ADT Beds setting to display the name and link status of each ADT Bed in the Interface database; you can also use it to manually “express” add/delete beds, and/or lock the bed list.

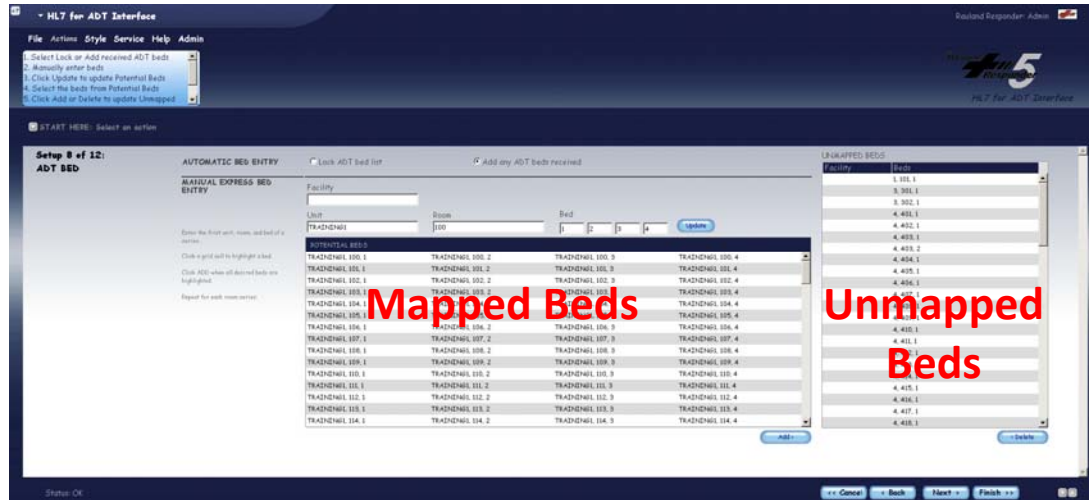


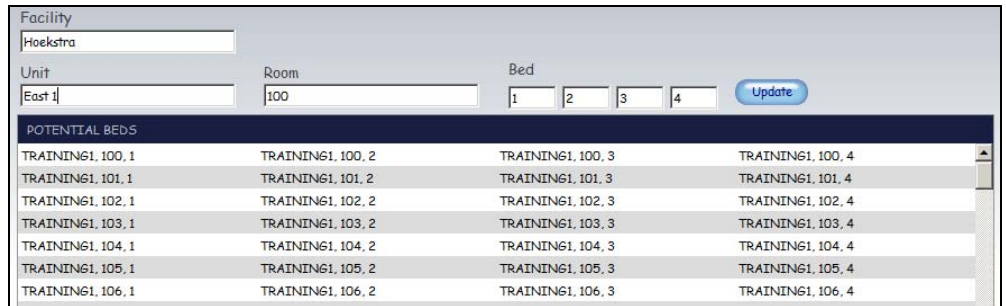
Figure 36: ADT Bed List (ADT Bed)

Manually Adding ADT Beds

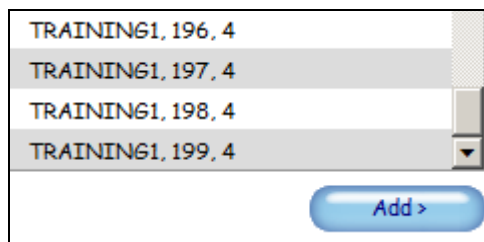
You can add beds manually without waiting for messages from the ADT system regarding each bed. Manual addition also prevents extra beds from being entered into the database.

To Manually Add Beds

- 1 Select ADT BED LIST from the Quick Actions Selector, dropdown menu, or Direct Action buttons.
- 2 Enter the facility, unit, room, and up to four (4) bed suffixes:
- 3 Click on UPDATE.
 - The Potential Beds list will appear:



- 4 Select the beds you wish to add from the potential bed grid.
 - Use the ctrl/click combination to highlight multiple beds.
- 5 Click on ADD:



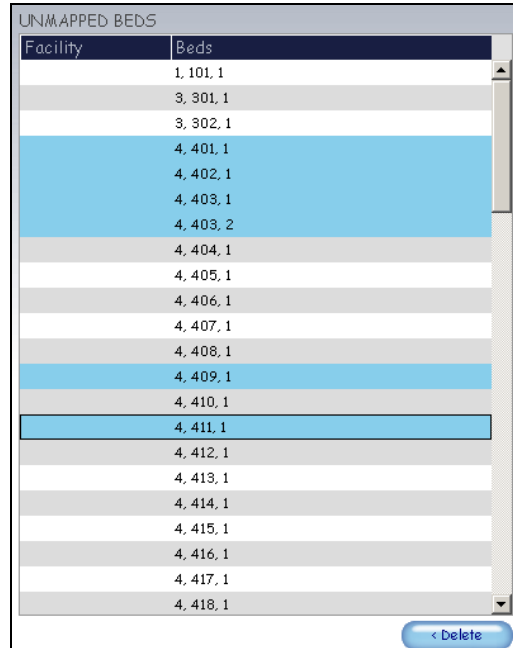
- 6 Repeat for each unit.

Manually Deleting ADT Beds

Because response times deteriorate as the database grows, it is best to remove beds appearing in the Unmapped Beds list. Note: a smaller database requires less scrolling during Bed Report bed selection.

To Manually Delete Beds

- 1 Select ADT BED LIST from the Quick Actions Selector, dropdown menu, or Direct Action buttons.
- 2 Select the beds you wish to delete from the Unmapped Beds list:



Facility	Beds
	1, 101, 1
	3, 301, 1
	3, 302, 1
	4, 401, 1
	4, 402, 1
	4, 403, 1
	4, 403, 2
	4, 404, 1
	4, 405, 1
	4, 406, 1
	4, 407, 1
	4, 408, 1
	4, 409, 1
	4, 410, 1
	4, 411, 1
	4, 412, 1
	4, 413, 1
	4, 414, 1
	4, 415, 1
	4, 416, 1
	4, 417, 1
	4, 418, 1

- **Note:** you **cannot** delete linked beds; unlink them ([Bed Mapping](#) screen) first.
- 3 Click on DELETE.
 - 4 Repeat until all extra beds are deleted.
 - 5 Lock the bed list.

Locking the ADT Bed List

Locking the ADT Bed List allows you to filter out beds. Locking the beds after initial installation is the best way to filter out unwanted beds—for instance: “pre-op” and “outpatient.”

To Lock the ADT Bed List

- 1 Select ADT BED LIST from the Quick Actions Selector, dropdown menu, or Direct Action buttons.
- 2 Check the LOCK ADT BED LIST checkbox:

Step 9: Establish Rauland Links (Rauland Link)



In order for the facility's ADT system to communicate with Responder databases, you must identify a Rauland link.

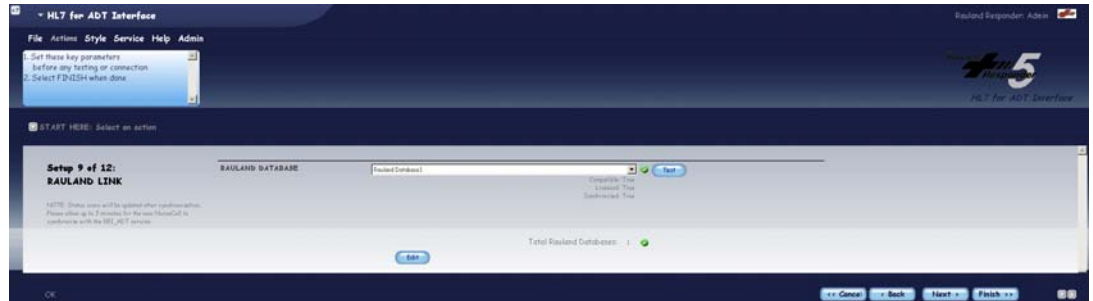


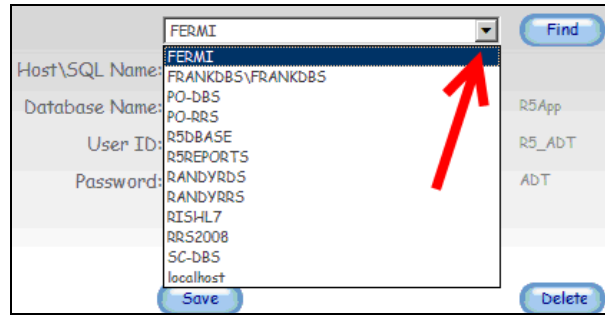
Figure 37: Establish Rauland Link (Rauland Link)

To Establish a Link

- 1 Click on EDIT:

- The link fields will open:

- **Note:** the unlabeled dropdown field allows you to search all available SQL Servers:



2 Make Database Name, User ID, and Password selections to create a connection string for the Responder system.

➤ The defaults are:

Item	Default Entry
Database Name	R5App
User ID	R5_ADT
Password	ADT

➤ Once a valid link to the Responder system is established, insure that all [Responder Beds are linked](#).

3 Click on TEST to retry links and refresh the status indicator.

4 Click on SAVE when you have completed editing.

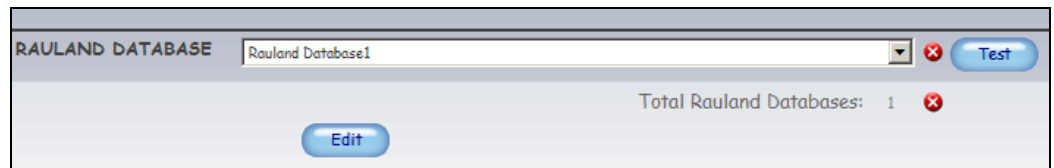


Leave the Rauland Responder connection unconfigured during initial testing to prevent test data from being passed to the Responder system.

To Add a Connection String

You would only add a connection string if one doesn't already exist.

1 Click on EDIT:



➤ The link fields will open, bearing the ADD control:

The screenshot shows the 'RAULAND DATABASE' window with a dropdown menu set to 'Rauland Database1'. Below the menu are several input fields: a dropdown for 'PO-DBS', 'Host\SQL Name: PO-DBS', 'Database Name: r5app', 'User ID: R5_ADT', and 'Password: ADT'. To the right of these fields are labels: 'R5App', 'R5_ADT', and 'ADT'. At the bottom right, it says 'Total Rauland Databases: 1'. At the bottom left, there are three buttons: 'Add' (with a green checkmark), 'Save', and 'Delete'.

- 2 Make Database Name, User ID, and Password selections to create a connection string for the Responder system.
- 3 Click on ADD.

To Delete a Connection String

You would delete a connection string when switching from one database to another.

- 1 Click on EDIT:

The screenshot shows the 'RAULAND DATABASE' window with the same dropdown menu. The 'Edit' button is now visible in the center of the window. The 'Total Rauland Databases: 1' text is still present at the bottom right.

➤ The link fields will open, bearing the DELETE control:

The screenshot shows the 'RAULAND DATABASE' window with the same input fields as the first screenshot. The 'Add', 'Save', and 'Delete' buttons are now visible at the bottom. The 'Delete' button has a green checkmark next to it. The 'Total Rauland Databases: 1' text is still present at the bottom right.

- 2 Click on DELETE.

Step 10: Rauland Bed List (Rauland Bed)



You can use the Rauland Bed List to display the name and link status of each Rauland Bed in the Interface database; you can also use it to manually add or delete beds.

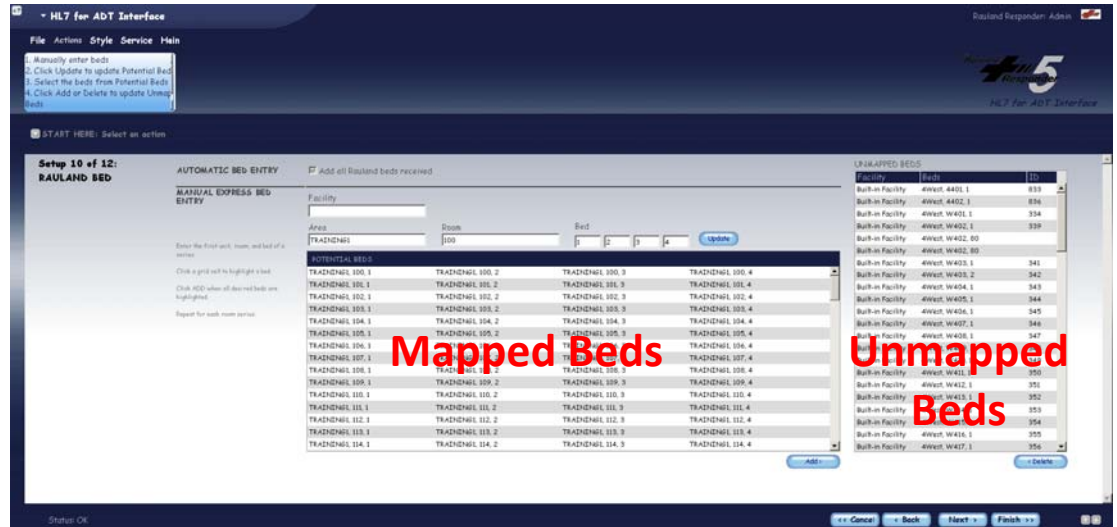


Figure 38: Rauland Bed List (Rauland Bed)

Manually Adding Rauland Beds

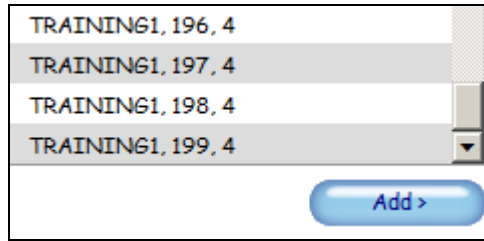
Manually adding beds can quickly populate the database and allows for immediate bed mapping. Manual addition is particularly useful when the Rauland system is likely to grow over time.

To Manually Add Rauland Beds

- 1 Select RAULAND BED LIST from the Quick Actions Selector or dropdown menu.
- 2 Enter the facility, unit, room, and up to four (4) bed suffixes:
- 3 Click on UPDATE.
 - The Potential Beds list will appear:

Facility	Hoekstra			
Unit	Room	Bed		
East 1	100	1	2	3
		4	Update	
POTENTIAL BEDS				
TRAINING1.100.1	TRAINING1.100.2	TRAINING1.100.3	TRAINING1.100.4	
TRAINING1.101.1	TRAINING1.101.2	TRAINING1.101.3	TRAINING1.101.4	
TRAINING1.102.1	TRAINING1.102.2	TRAINING1.102.3	TRAINING1.102.4	
TRAINING1.103.1	TRAINING1.103.2	TRAINING1.103.3	TRAINING1.103.4	
TRAINING1.104.1	TRAINING1.104.2	TRAINING1.104.3	TRAINING1.104.4	
TRAINING1.105.1	TRAINING1.105.2	TRAINING1.105.3	TRAINING1.105.4	
TRAINING1.106.1	TRAINING1.106.2	TRAINING1.106.3	TRAINING1.106.4	

- 4 Select the beds you wish to add from the potential bed grid.
 - Use the ctrl/click combination to highlight multiple beds.
- 5 Click on ADD:



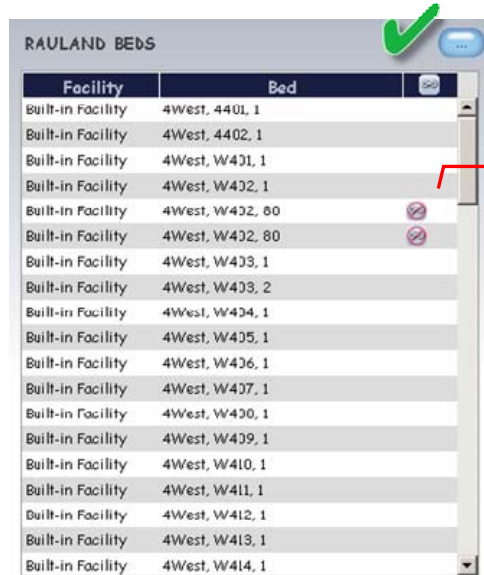
6 Repeat for each unit.


To Manually Delete Rauland Beds

Changes in a Rauland system can cause obsolete Rauland beds to show in the Interface database; removing these beds will improve system performance.

To Manually Delete Rauland Beds

- 1 Select RAULAND BED LIST from the Quick Actions Selector or dropdown menu, or the RAULAND BEDS Direct Action button.
- 2 Click on the EDIT icon at the top of the Rauland bed list:



The  icon indicates a bed is linked in the Interface, but missing from the R5 or integrated system.

- 3 Select the beds no longer in the Rauland system.
 - **Note:** you **cannot** delete linked beds; unlink them ([Bed Mapping](#) screen) first.
 - **Note:** a bed will automatically reappear if it is still part of the Rauland system.
- 4 Repeat until all extra beds are deleted.

Step 11: Map ADT Beds to Rauland Beds (Bed Mapping)



Mapping (linking) ADT and Rauland Beds insures that a patient in an ADT Bed is shown in the corresponding Rauland Bed.

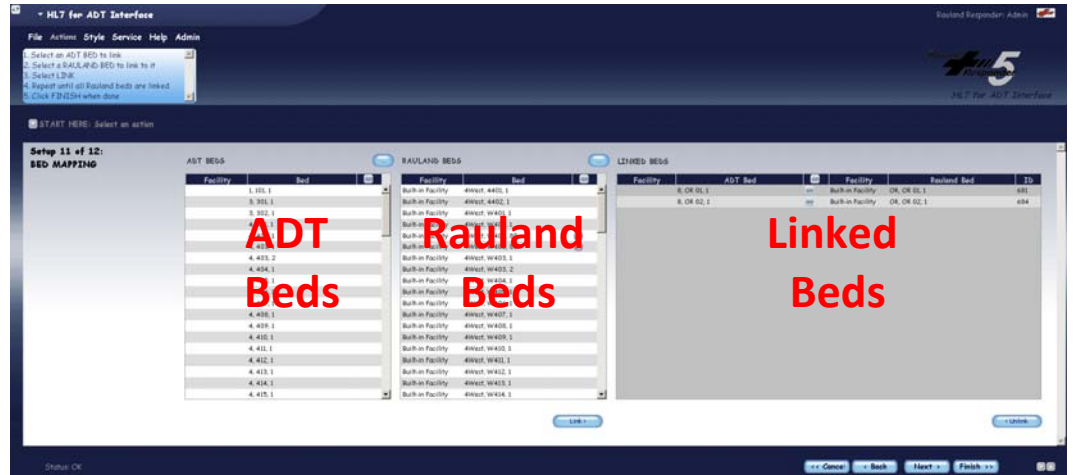


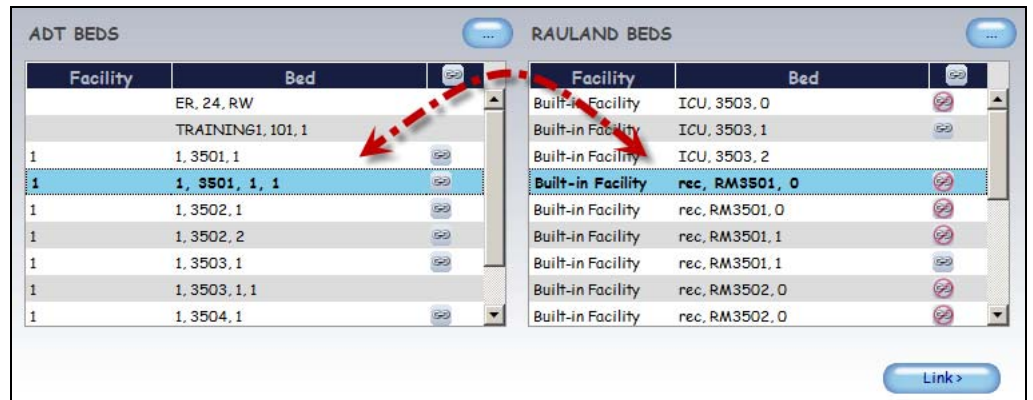
Figure 39: Map Beds (Bed Mapping)

Note:

Link multiple ADT beds to a single Rauland bed if your ADT system differentiates a single physical bed based on room occupancy (private vs. semi-private) or patient status (labor vs. delivery vs. post partum) or unit (swing beds).

To Link Beds

- 1 Insure the ADT and Rauland Bed lists are up to date.
- 2 Select an ADT Bed.
- 3 Select a Rauland Bed link target:



- 4 Click on LINK.



➤ Linked Beds appear in the Linked Beds list:

LINKED BEDS					
Facility	ADT Bed		Facility	Rauland Bed	ID
1	1, 3503, 1		Built-in Faci ICU, 3503, 1		42
1	1, 3501, 1		Built-in Faci rec, RM3501, 1		45
1	1, 3502, 1		Built-in Faci rec, RM3502, 1		47
1	1, 3502, 2		Built-in Faci rec, RM3502, 2		48
1	1, 3504, 1		Built-in Faci staff, RM3504, 1		49
1	1, 3505, 1		Built-in Faci staff, RM3505, 1		51
1	1, 3501, 1, 1		Built-in Faci staff, RM3505, 1		51

- 5 Repeat for each unlinked Rauland bed.
- 6 Remove extra facility (ADT) beds.
- 7 Lock the [bed database](#) for optimum performance:

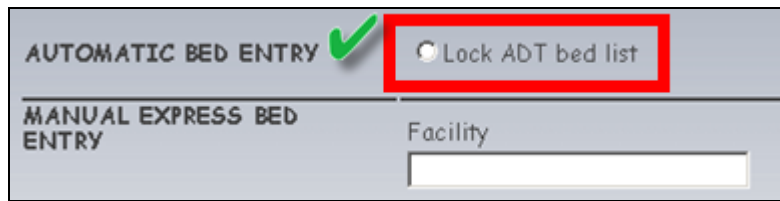


Figure 40: ADT Bed Screen (Step 8/12)

Step 12: Map ADT Fields to Rauland Fields (Field Mapping)



Field Mapping allows you to assign an HL7 segment/field/component source for each ADT display field in the Rauland system. Some facilities may deviate from the HL7 standard regarding trigger event information. Other facilities may want additional information that is not part of the Interface data defaults. Coded fields can be translated into readable strings, and compound fields can be translated into separate readable strings.

You'll use the Fields filters (Required, Standard, Custom, Translated) to control what appears in the mapping grid:



Figure 41: Map Fields (Field Mapping)

The Required Fields grid includes the following fields:

Required Fields	
Name	Editable
Rauland Field	No
HL7 Field	Yes
Components	Yes
Default Field	No
Description	No

Table 5: Field Mapping, Required Fields

Standard Fields	
Name	Editable
Rauland Field	No
HL7 Field	Yes
Components	Yes
Translated	Yes
Default Field	No
Description	No

Table 6: Field Mapping, Standard Fields

Custom Fields	
Name	Editable
Rauland Field	No
HL7 Field	Yes
Components	Yes

Table 7: Field Mapping, Custom Fields

Translated Fields	
Name	Editable
Rauland Field	Yes
HL7 Field	Yes
Components	Yes

Table 8: Field Mapping, Custom Fields



Note: add * at the end of the HL7 field (AL1-03*, for example) to combine repeating segments.

To Map Fields

Required and Standard Fields

Using the **Required Fields** or **Standard Fields** filter...



We strongly recommend **not** changing required fields.

- 1 Select the Required Fields or Standard Fields filter:



- 2 Edit the Segment and Field (separated by a dash) within the mapping grid (SSS-FF).
- 3 Edit the component(s) within the mapping grid (C) or (C, C, C).
- 4 Terminate the entry with a "*"—if all repeating segment fields are to be combined to create this information.
- 5 Click on SAVE.



- 6 Repeat for each custom field.
 - View the census fields after receiving new trigger events containing data in the custom fields to test your mapping configuration.

Custom Fields

- 1 Edit the Field Name.
- 2 Edit the Segment and Field (separated by a dash) within the mapping grid (SSS-FF).
- 3 Edit the component(s) within the mapping grid (C) or (C, C, C).
- 4 Terminate the entry with a "*"—if all repeating segment fields are to be combined to create this information.
- 5 Click on SAVE.



- 6 Repeat for each custom field.
 - View the census fields after receiving new trigger events containing data in the custom fields to test your mapping configuration.

Translated Fields

Make sure to check the “Translated” box (Standard filter screen) for any field you wish to translate. Fields bearing a check will auto-appear on the Translated filter screen:



Rauland Field	HL7 Field	Component	Translated
Patient Name	PID-05	1,2,3	<input type="checkbox"/>
Patient Last Name	PID-05	1	<input type="checkbox"/>
Patient First Name	PID-05	2	<input type="checkbox"/>
Patient Middle	PID-05	3	<input type="checkbox"/>
Date of Birth	PID-07	1	<input type="checkbox"/>
Gender	PID-08	1	<input checked="" type="checkbox"/>
Language	PID-15	1	<input checked="" type="checkbox"/>
Attending Physician	PV1-07	6.2	<input type="checkbox"/>

Required Fields		Translated Fields	
Rauland Field	Components	Rauland Field	Components
Gender	1	Gender	1
Language		Language	
Custom03		Custom03	
Custom04		Custom04	

Field Sources

- 1 Edit the Segment and Field (separated by a dash) within the mapping grid (SSS-FF).
- 2 Edit the component(s) within the mapping grid (C) or (C, C, C).
- 3 Terminate the entry with a “*”—if all repeating segment fields are to be combined to create this information.
- 4 Click on SAVE.



- 5 Repeat for each field.

Translations

- 1 Click the ‘...’ button column.



- 2 Enter a desired display string.
- 3 Enter the search string(s)—semi-colon delimited—to cause the display string to be sent to the Responder 5 applications.
 - **Note:** use the up/down arrows at left to insure proper search order. A search will stop when the first string is found.



- 4 Click on SAVE.



- 5 Enter the default display value (must be a search string, or NULL, or Raw (passes field untranslated)).
- 6 Click on SAVE.
- 7 Repeat for each display string
 - Review census fields after receiving new trigger events containing custom field data.

8

8: Service Access, Diagnostics, and Maintenance

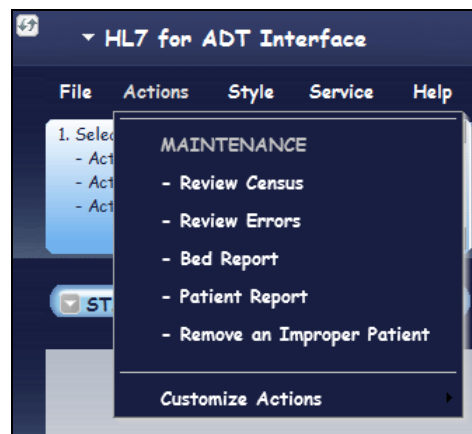
In addition to the fully privileged administrator login, a unique limited access “Service Login” is available which provides access to maintenance tools, but not configuration settings.

Logging In: Service Access

In addition to the fully privileged administrator login, a unique and restricted access login is available. Those logging in under the “Service” login can **only** access diagnostic tools; they **cannot** access/edit configuration settings.

To Login Using the Service Credential

- 1 Access the Interface login page.
- 2 Enter the default Service case-sensitive Login/Password information:
 - Login = Service
 - Password = Service1
- 3 Click on Login.
 - The Home Screen will appear, bearing diagnostic/maintenance links:



Maintenance

You can access the five (5) Maintenance options via the Actions menu or Quick Action selector. They are:

- Review Census
- Review Errors
- Bed Report
- Patient Report
- Remove an Incorrect Patient

Review Census

A census review providing bed-by-bed patient information can confirm success of the overnight test. It is also the first place to look to resolve incorrect or missing patient data within the Rauland solution.

Here's how to perform the review:

To Review the Census

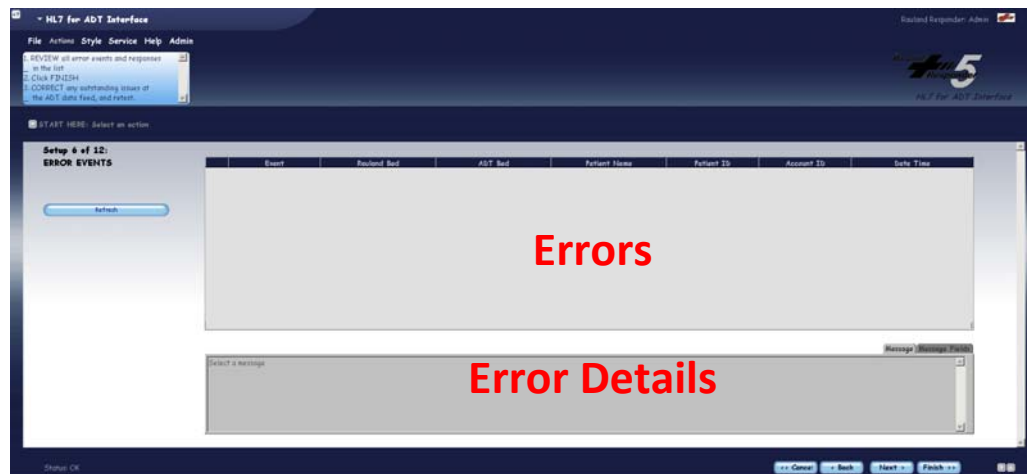
- 1 Select File/Save as or File/Print (File menu) to save or print a copy of the census.
- 2 Compare the Interface census to the ADT system census.
- 3 Investigate any discrepancies between the Bed Report or Patient Report options—for instance, if a patient does not show up as expected in a particular bed.
- 4 Click on FINISH to return to the home screen.

Review Errors (Error Events)

You can review the most recent failed trigger events using the Review Errors utility.

To Review Recent Failed Trigger Events

- 1 Select Review Errors from the Actions menu or directly from the Bed Census screen.
 - The Error Events screen will appear:



- 2 Select an error item.

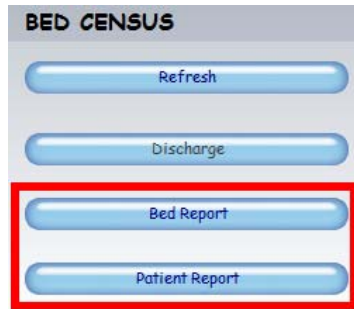
- Message details will appear in the lower pane—either in message or message field form.
- 3 Select File/Save to save a copy.

Bed Report

The Bed Report shows a brief history of bed-related trigger events. If a Census Review reveals that the Interface census data does not match the ADT census data, you can typically find the reason in the trigger event history.

To View the Bed Report

- 1 Select Bed Report from the Actions menu or Quick Action selector:



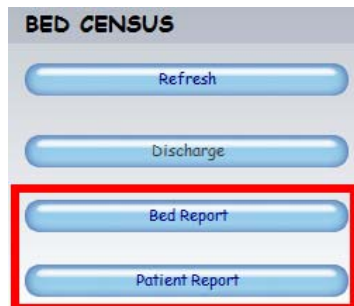
- 2 Select the ADT or Rauland Bed to review.
- 3 Review the bed's transaction history.
- 4 Select a reaction to see details of the implicated trigger event.
- 5 Click on FINISH.

Patient Report

The Patient Report shows patient-related data. If a Census Review reveals that the Interface census data does not match the ADT census data, you can typically find the reason in the trigger event history.

To View a Patient Report

- 1 Select Patient Report from the Actions menu or directly from the Bed Census screen:



- The Patient Report will appear:



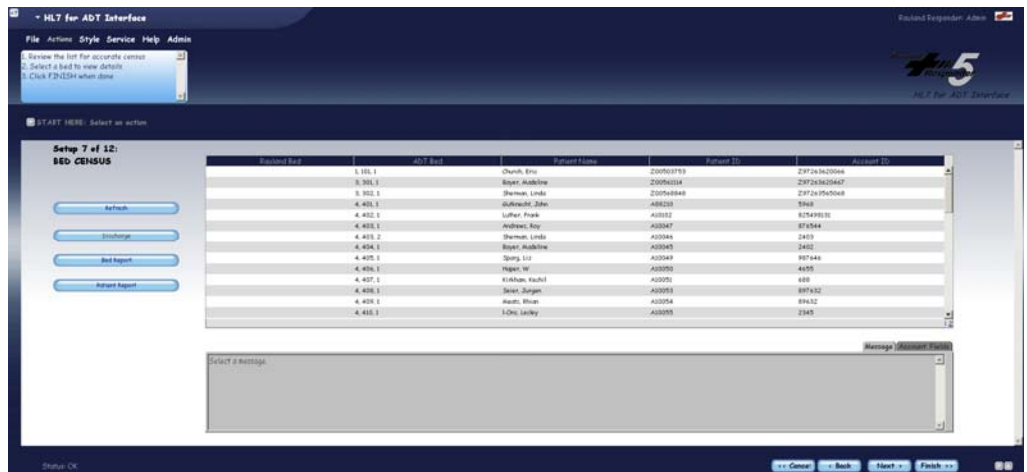
- 2 Select the Name, Account, or ID of the patient to review.
- 3 Review the patient’s transaction history.
- 4 Select a reaction to see details of the implicated trigger event.
- 5 Click on FINISH.

Remove an Incorrect Patient

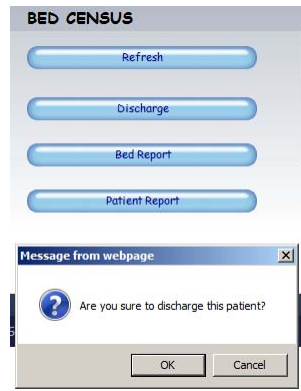
The Remove an Incorrect Patient utility allows you to manually remove a patient from the Interface database without a discharge re-send or new ADT system admit transaction. Use this option if a synchronization error results in a discharged patient remaining in a bed.

To Manually Discharge a Patient

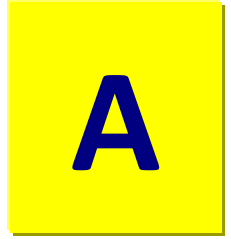
- 1 Select Remove Patient from the action menu, list, or buttons.
 - The Bed Census screen will appear:



- 2 Select the bed or patient from the census display.
- 3 Click on DISCHARGE.
- 4 Confirm your action:



- The census will update.
- 5 Click on FINISH.



Appendix A: Customizing the Interface

In this chapter, you'll learn how you can use the Style menu to change the look of the Interface—customizing screen design, header text size, color, and facility logo. You can apply different styles to the Admin and Service logins.

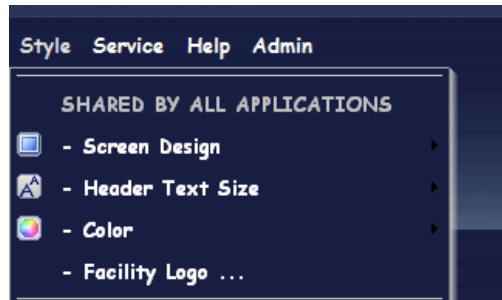


Figure 42: Home Screen, Style Menu



Because the Interface is customizable, your views may differ from the ones in this guide.

Note: if the menu is not visible, use the pulldown control  at the top right of the screen:

Screen Height Control

You can adjust the height of the screen to fill your display and minimize scrolling using the resize controls, located in the bottom right corner of the screen:

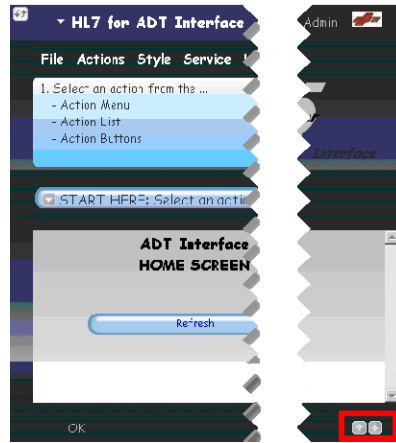


Figure 43: Screen Height Control

To change the screen height:

- 1 Click on either the up arrow (↑) to shrink the size of the Interface web page or the down arrow (↓) to grow the size.

Screen Design

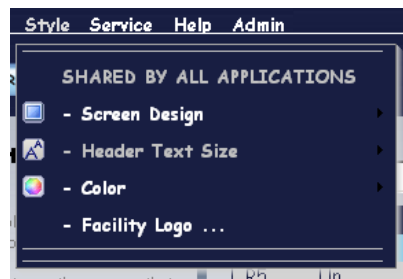
You can configure the screen design to maximize usable screen space, to provide level-appropriate on-screen operational hints, to accommodate mouse or touchscreen, etc. by adjusting one or more of the following options:

Helpful -----	On-screen help, with highlighted auto-favorite action buttons and fully-descriptive action list
UnitHopper -----	On-Screen help, with highlighted actions and auto-favorite unit tabs
Mouse -----	Non-touch, multi-action user without on-screen help
Touch -----	Auto-favorite touchscreen compatible action buttons, plus highlighted action list, without on-screen help
View Hopper -----	Multi-view / multi-action user with auto-favorite view tabs, without action highlights or on-screen help
Read Only -----	Maximum screen space: no actions, help, menu, or view switching
Demo -----	Highlights on-screen help, auto-favorite touchscreen compatible buttons, view switching, and facility logo

Figure 44: Screen Design Menu

To change the screen design:

- 1 Select Screen Design from the Style menu:



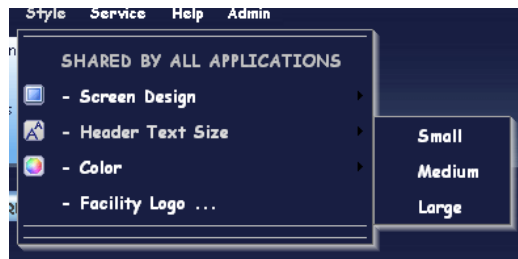
- 2 Select one of the available screen design options:
 - Helpful
 - Unit Hopper

- Mouse
 - Touch
 - View Hopper
 - Read Only
 - Demo
- If it appears, you may also cycle through all screen design options using the Screen Design selector:



Header Text Size

You can use the Header Text Size adjustment to select small, medium, or large text headings:



Color (Themes)

You can change theme colors to accommodate preference, display characteristics, and ambient lighting.

To change the default color:

- 1 Click on the Color option (Style | Color).
- 2 Select one of the available theme colors:



Figure 45: Style Options, Color Choices

➤ The new color theme will appear:



Figure 46: Style Options, Color (Example 1)



Figure 47: Style Options, Color (Example 2)

Facility Logo

You can insert a facility picture or logo to display in the upper right hand corner of the web page.

To replace the default logo:

- 1 Create a JPG logo file measuring 62 x 272 pixels.
- 2 Contact Rauland Technical Support.
 - The support team will take and install your logo image on the server.

To change the default caption:

- 1 Type over the existing caption.

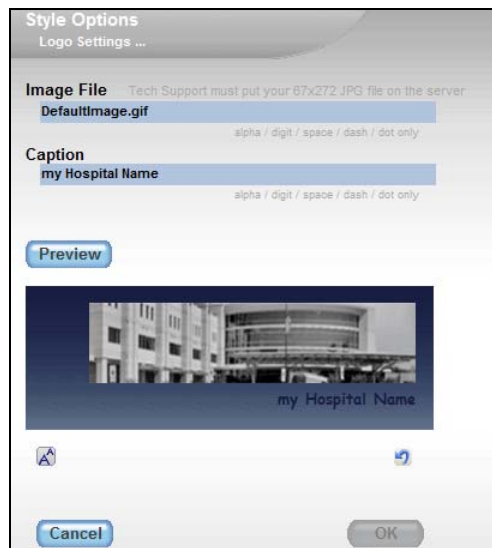


Figure 48: Style Options, Logo Settings (Default)

- 2 Click Preview.
 - The new caption will appear beneath the logo image:

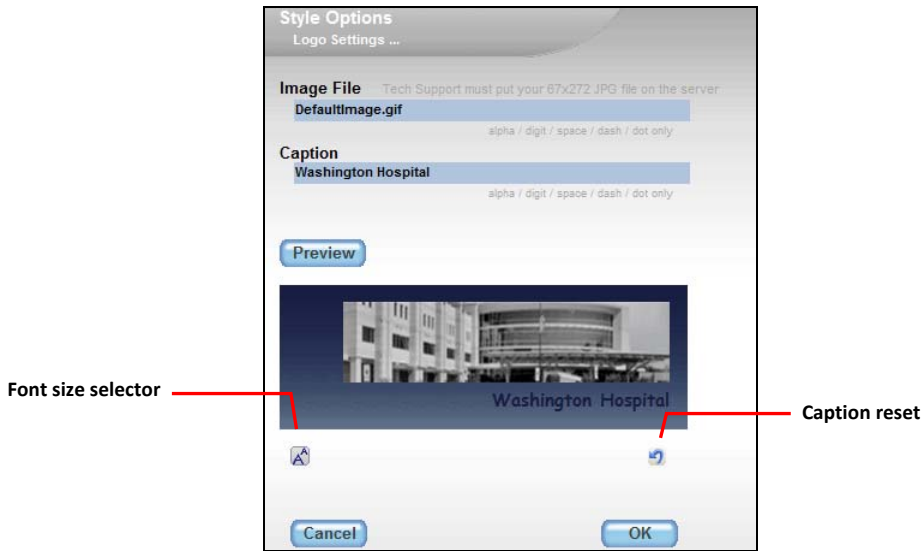


Figure 49: Style Options, Logo Settings (Custom)

- 3 Use the font selector to cycle through the three (3) available font sizes—small, medium, and large.
- 4 Click on the OK button to save and exit the logo window.

Customize Actions

The Interface supports 25 listed actions; five (5) of these actions can appear at any time as “Direct Action Buttons”—which are used as shortcuts.

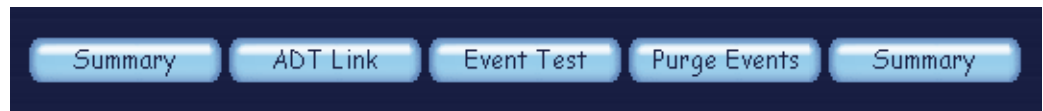


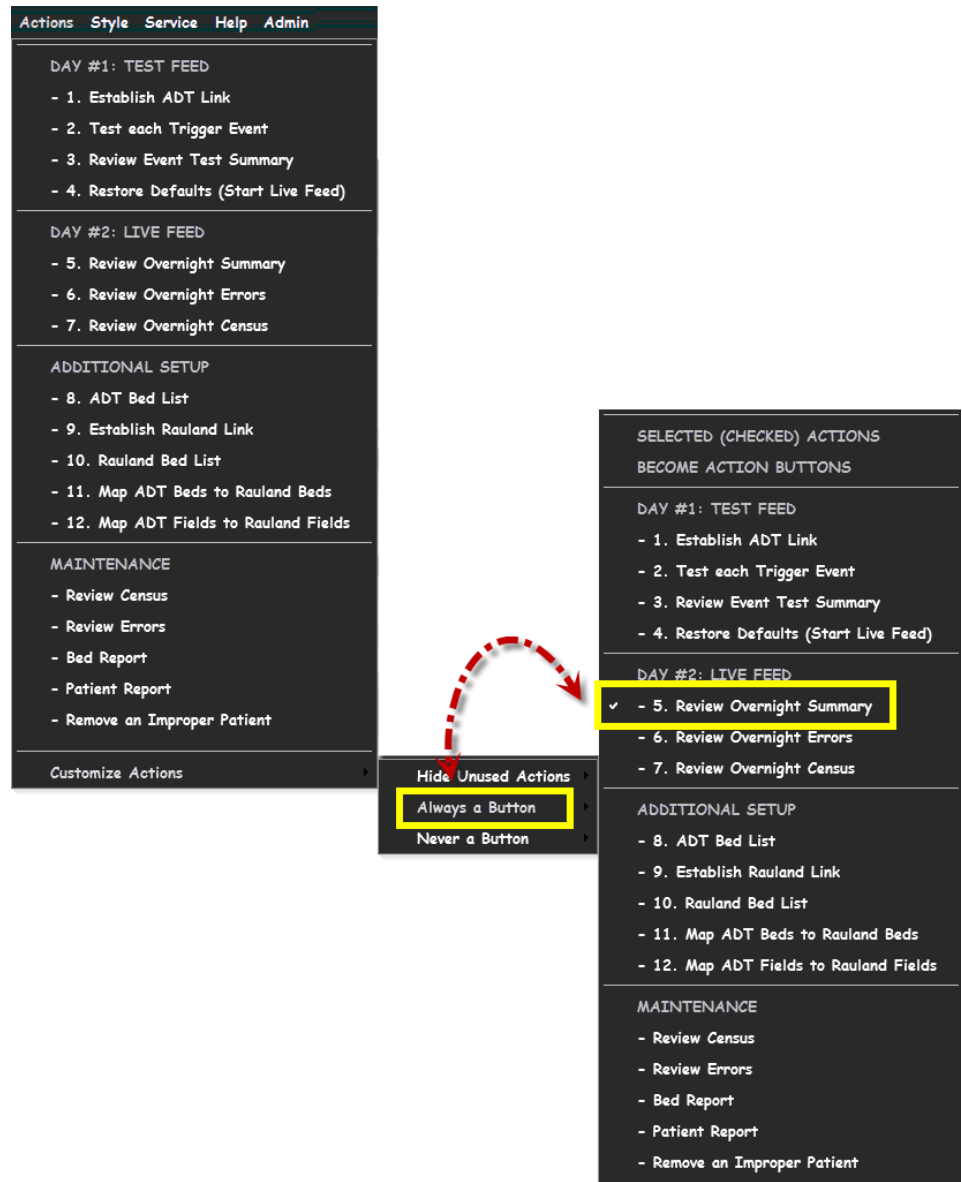
Figure 50: Direct Actions Buttons

The Interface automatically assigns the most frequently used actions to buttons; however, you can use the Customize Actions feature to

- ✓ Hide Unused Actions
- ✓ Always (make an action a button)
- ✓ Never (make an action a button)

To Customize Actions

- 1 Choose Customize Actions from the Actions menu.
 - The action options will appear.
- 2 Make your selection.
 - If you choose “Always” or “Never”...
- 3 Click on any of the items in the expanded Actions list.
 - An adjacent check mark confirms your selection(s):

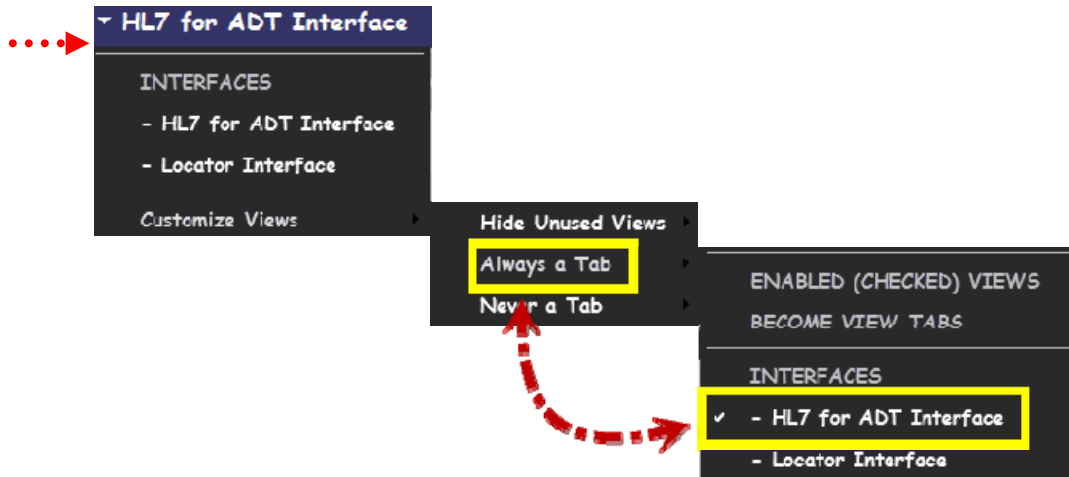


Customize Views

Because Interface components are shared between the HL7 for ADT and RTLS “Locator” Interfaces, you can choose to keep or remove View Tabs. View tabs allow you to toggle between Interface when both are installed.

To Customize Views

- 1 Choose Customize Views from the Interfaces dropdown.
 - The available Interfaces will appear:



- 2 Make your selection.
 - If you choose “Always” or “Never”...
- 3 Click on either of the Interfaces in the expanded Actions list.
 - An adjacent check mark confirms your selection(s).

Technical Support Contact Information

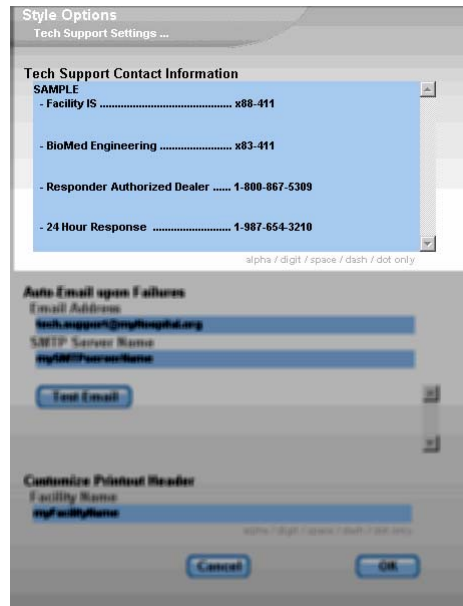
Logging into the Interface as an administrator allows you to record Technical Support Contact Information that appears to any user.

To Enter Technical Support Contact Information

- 1 Access the Set Tech Support Info link (Admin or Help menus):



- The Style Options | Tech Support Settings page will appear:



- 2 Position your cursor and enter or change details.
 - Fields only accept letters, numbers, spaces, dashes, and periods.
- 3 Click on OK when you are satisfied with the contact information.
 - The data entered here will appear on the Technical Support Contacts screen (Help menu):



Failure Notification

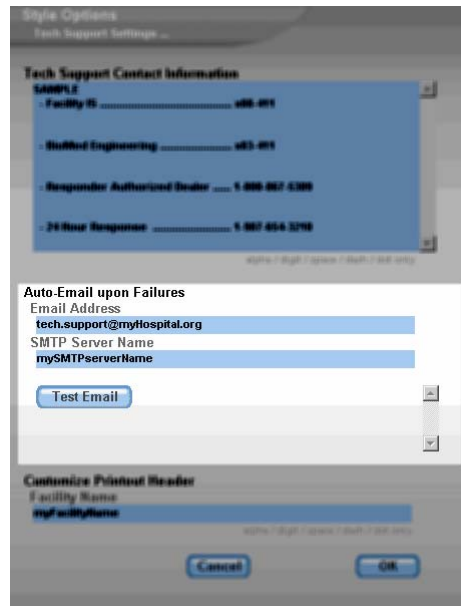
Using the Auto-Email upon Failures feature, the Interface can automatically send a failure notice to any single email address.

To Establish the Auto-Email upon Failures Recipient

- 1 Access the Set Tech Support Info link (Admin or Help menus):



- The Style Options | Tech Support Settings page will appear:



- 2 Enter a valid email address in the Email Address field.
- 3 Enter a valid SMTP Server Name.
 - The SMTP server is responsible for generating outgoing mail.
- 4 Click on OK when you are satisfied with the contact information.

Custom Printout Header

Should you wish, you may use the Custom Printout Header feature to create a custom report header, bearing the facility's name.

To Customize Printout Header

- 1 Access the Set Tech Support Info link (Admin or Help menus):

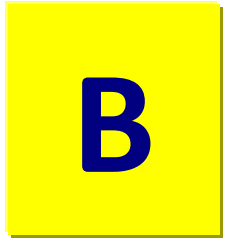


- The Style Options | Tech Support Settings page will appear:

The screenshot displays the 'Style Options' menu with 'Tech Support Settings' selected. It is divided into three main sections:

- Tech Support Contact Information:** A blue box containing contact details for 'SAMPLE'.
 - Facility ID: 400-401
 - Skilled Engineering: 403-401
 - Responder Authorized Dealer: 1-800-867-4300
 - 24-Hour Response: 1-800-856-3790
- Auto Email upon Failures:** Fields for email configuration.
 - Email Address: tech.support@myfacility.com
 - SMTP Server Name: mySMTPServerName
 - A 'Test Email' button is located below these fields.
- Customize Printout Header:** A white box for editing the facility name.
 - Facility Name: myFacilityName
 - A 'Cancel' button is on the left and an 'OK' button is on the right.

- 2 Delete the current name.
- 3 Enter the new name.
 - The field will only accept letters, numbers, spaces, dashes, and periods.
- 4 Click on OK.

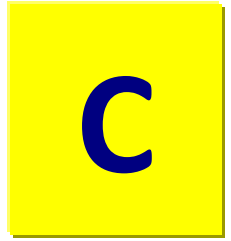


Appendix B: Icon Legend

The Interface may display any of the following icons:

Icon	Function/Explanation
	Link is active, or status is good
	Link has failed, status is failed, message failed, or error
	Some links have failed
	Warning
	Message caused a resync auto-correction in R5
	Item is linked
	Item is not linked
	Ignore
	Item is linked multiple times
	Item is linked in Interface, but is now missing from R5 or integrated system
	Undo or restore default
	Redo
	Item has been edited. You must save it.
	Delete
	Zoom in
	Zoom out
	Expand item
	Collapse Item
	Grow window size
	Shrink window size
	Dropdown list
	Text size
	Refresh
	Next option for this setting
	Previous option for this setting
	Next setting
	Previous setting
	Close

Table 9: Application Icons



Appendix C: Trigger Events Processed

You'll find all of the codes that **may** and **do not** affect the census in the following two (2) tables. **Important:** codes marked with a double asterisk (**) are required ADT trigger events. They are:

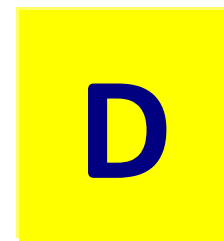
- ✓ A01 Admit
- ✓ A02 Transfer Patient
- ✓ A03 Discharge/End visit
- ✓ A06 Transfer Outpatient to Inpatient
- ✓ A07 Transfer Inpatient to Outpatient
- ✓ A08 Update Patient Info

Events that May Affect the Census
**A01 Admit
**A02 Transfer Patient
**A03 Discharge/End Visit
A04 Register Patient
**A06 Transfer Outpatient to Inpatient
**A07 Transfer Inpatient to Outpatient
**A08 Update Patient Info
A11 Cancel Admit
A12 Cancel Transfer
A13 Cancel Discharge
A17 Swap Patients
A18 Merge Patient Info
A23 Delete Patient Record
A28 Add Person/Patient Info
A29 Delete Person Info
A30 Merge Person Info
A31 Update Person Info
A34 Merge Patient Info ID only
A35 Merge Patient Info Account Only
A36 Merge Patient Info, ID and Account
A39 Merge Person/Patient ID
A40 Merge Patient Identifier List
A41 Merge Account: Patient Account#
A43 Move Patient Info: Identifier List
A44 Move Account Info: Account#
A46 Change Patient ID
A47 Change Patient ID List
A49 Change Patient Account#
A54 Change Attending Doctor
A55 Cancel Change Attending Doctor
A61 Change Consulting Doctor
A62 Cancel Change Consulting Doctor
P02 Purge Patient Account
P05 Update Account
P06 End Account

Table 10: Codes that May Affect the Census

Events that Do Not Affect the Census
A05 Pre-Admit Patient
A09 Patient Arriving
A10 Patient Departing
A14 Pending Admit
A15 Pending Transfer
A16 Pending Discharge
A20 Bed Status Update
A21 Patient Leave of Absence
A22 Patient Leave of Absence Return
A25 Cancel Pending Discharge
A26 Cancel Pending Transfer
A27 Cancel Pending Admit
A32 Cancel Patient Arriving
A33 Cancel Patient Departing
A52 Cancel Patient Leave of Absence
A53 Cancel Patient LOA Return
P01 Add Patient Account

Table 11: Codes that Will Not Affect the Census



Appendix D: Common HL7 Myths

Do not make assumptions regarding any HL7 implementation. Not understanding the following rules can result in a loss of synchronization with the ADT system.

An account ID will always be present...

Not so. Rauland permits field mapping to allow another field (typically the Patient ID) to be used in place of the account ID.

Account IDs will be unique to a patient/incident...

Not so. Rauland permits field mapping to allow another field (typically the Patient ID) to be used in place of the account ID.

There will always be a patient ID/MRN present...

Not so. Rauland permits field mapping to allow another field (typically the Social Security # for a VA hospital) to be used in place of the Patient ID.

HL7 segments will arrive in a pre-defined order...

Not so. R5 looks for the field anywhere within the message, and will process it regardless of order. The MSH segment is the only exception; it **must** occur first.

Every Trigger Event from the ADT System will reach its destination...

Not so. Unexpected events impact networks, servers, databases, and application software. Rauland maintains a history of events, but never rejects a message based on previous history. Instead, the Interface software will accept the new message and update the census based on the latest information, giving special markings to census actions that were caused by an apparent out-of-sync condition.

A configuration setting allows A08 updates to admit a patient, as long as the message contains a valid bed, account, and patient ID; does **not** contain a discharge date; and no discharge date had previously been received.

There will be only one discharge date/time for an Account...

Not so. There can be discharge dates and times set as a patient moves from one area (ED) to another (inpatient) even if the same account# is used in both areas. The Interface software offers a configuration option that allows a ReAdmit (equivalent to A13 Cancel Discharge) upon receiving an A08 Update to allow resynching of census for previously discharged patients.