

User Pre-Release Notes

for RADNET rRIS

Build 1.08

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1. Purpose

This document describes some of the new features and changes implemented in rRIS as of the end of Sprint 8. This pre-release version of rRIS is referred to as Build 1.08.

Only features which can be visually demonstrated to the user will be outlined in this document.

2. Intended Audience

This document is created by the rRIS Development team for the RadNet RIS management team.

3. Installing/Accessing the Application

This build will not be available for remote access. The Baltimore server will be upgraded directly to Build 1.09

4. New Features and Enhancements

Organization Editor

There is now an editor to accommodate the setup of the organization structure. It utilizes regions, practices, and sites. A region such as the East Coast can have multiple practices such as Advanced Radiology associated to it. A practice such as Advanced Radiology can have multiple sites such as St. Joseph Breast Center and St. Joseph Medical Center. A site can have multiple modalities or rooms associated to it. For example, here is the proposed hierarchy for a scanner located at St. Joseph Breast Center.

Region: East Coast (EAST)

Practice: Advanced Radiology (ADV)

Site Group: North Service Area

Site: St. Joseph Breast Center (SB)

Modality: Mammo Room 1 (MA1SB)

Please note that “Site Group” has not been included in this release and will be developed in a future sprint.

The screenshot displays the 'Organization Maintenance' interface. On the left is a 'Lookup Tables - Organization' sidebar with a list of fields including AccessString, AddressDescription, Affiliation, AvailabilityTemplate, BodyPart, Carrier, EmploymentStatus, Gender, Holiday, Laterality, MaritalStatus, Modality, Organization (highlighted), PatientClass, PatientContactType, PatientRelation, Personnel, ProcedureCode, ProcedureModifier, ProcedurePlan, QueueSubscription, ReportTemplate, ResourceType, ScanType, ScheduleGroup, Specialty, StudentStatus, SystemConfig, UserCDSPProfile, UserGroup, UserGroupPermission, and WorkType.

The main area shows a 'Region' dropdown set to 'East Coast'. Below it are two tables:

Practices	
Practice	Practice Notes
→ Advanced Radiology(ADV)	
Test Practice(LUTH)	

Sites	
Site	Notes
→ GBMC Pavilion North(PN)	
GBMC Pavilion(PV)	
Lutherville(LU)	
ODEA(OA)	
St Joseph Breast Center(SB)	
St Joseph Medical Center(ST)	
St Joseph Mobile MRI(SM)	
St Joseph PET-CT(SP)	
Towson(TO)	

Figure 4.1 – Organization Maintenance Screen

Modalities:				
modality code	short name	site code	description	ae title
Contains:	Contains:	Contains: St Joseph Breast Center	Contains:	Contains:
MA1SB	SB MA1	St Joseph Breast Center		
MA2SB	SB MA2	St Joseph Breast Center		
MA3SB	SB MA3	St Joseph Breast Center		
MA4SB	SB MA4	St Joseph Breast Center		
Click here to add a new row				
SB MA1 modality closure:				
from date	to date	active flag	description	
SB MA1 modality duration override:				
procedure code				

Figure 4.2 – Modality Maintenance Screen Illustrating Site Mapping

A system administrator can add or edit a region by simply right-clicking the Region dropdown. Given the fact that more detail is required at the Practice and Site level, data grids and popup forms have been utilized.

Region: East Coast

Practices

Practice	Practice Notes	Address
Advanced Radiology(ADV)		
Test Practice(LUTH)		

Sites

Site
GBMC Pavilion North(PN)
GBMC Pavilion(PV)
Lutherville(LU)
ODEA(OA)
St Joseph Breast Center(SB)
St Joseph Medical Center(ST)
St Joseph Mobile MRI(SM)
St Joseph PET-CT(SP)
Towson(TO)

Edit Practice

Practice
Practice Code: ☒ Active
Description:
Phone #:
Fax #:
Practice Notes:

This is a test

Contact
Contact Name:
Phone #:
Mobile #:
Fax #:
Email:
Contact Notes:

Notes go here

Address
Address 1:
Address 2:
City:
State:
Zip Code:

Save Close

Figure 4.3 – Editing a Practice

Personnel Editor

The UserDetail and PersonResource editors have now been combined into one management screen called Personnel. The Personnel screen will be used by the system administrator to manage users and resources. A person may exist in the system as a resource such as a Referring Physician but not necessarily be a user.

Here is the current list of features implemented in the Personnel Editor:

1. The ability to add Persons (not patients) to the system. A Person can be a RIS User and/or a Resource.
2. Associate contact information and one or more addresses to a Person.
3. Associate one or more Resource Types to a Person. Current types supported are Referring Physician, Transcriptionist, Radiologist, and Technologist. This list will grow as more features are implemented.
4. Assign Resource Information such as NPI and Specialties.
5. Assign a User Name and Password to a Person.
6. The ability to deactivate a User.
7. Assign a Schedule Group to a User. A Schedule Group will define what sites and procedures a user can schedule against.
8. Assign one or more User Groups to a User. User Groups mainly dictate user permissions.
9. The ability to specify if User Account supports Voice Recognition.

UserName	First Name	Last Name
Contains: <input type="text"/>	Contains: <input type="text"/>	Contains: <input type="text"/>
stuart	stephen	stuart
dave	dave	perry
denis	denis	doiron
darcy	darcy2	aiken
→ spencer	Spencer	MacDougall
test3	test3	test3
	bob	joe
	RHONIESE	BARNETT SMITH

General Resource Account Preferences System

First Name: Prefix: Birth Date:
Middle Name: Gender:
Last Name: Suffix: ☒ Active Person

Contact Information

Email:
Mobile #:

Contact	Address	Delivery
→ Home Address Phone: 902-878-7894 Fax: 902-455-7845	123 West Drive Summerside, PE 12356	

Edit Add Remove

Figure 4.4 – Personnel Editor showing General Tab

The screenshot shows the 'Resource' tab of the Personnel Editor. At the top, there are five tabs: 'General', 'Resource' (selected), 'Account', 'Preferences', and 'System'. Below the tabs, the 'Resource Type' section contains four checkboxes: 'Referring Physician' (checked), 'Radiologist' (unchecked), 'Transcriptionist' (unchecked), and 'Technologist' (unchecked). The 'Resource Information' section below it contains four text input fields: 'NPI:' with the value '7845', 'Practices:', 'Affiliations:', and 'Specialties:'.

Figure 4.5 – Personnel Editor showing Resource Tab

The screenshot shows the 'Account' tab of the Personnel Editor. At the top, there are five tabs: 'General', 'Resource', 'Account' (selected), 'Preferences', and 'System'. Below the tabs, the 'Account Information' section contains several fields: a checked checkbox for 'Active Account', a 'User Name:' field with the value 'spencer', a 'Password:' field, a 'Schedule Group:' dropdown menu with 'Lutherville' selected, and a 'User Groups:' section with three buttons: 'Scheduling x', 'Technologist x', and 'Administrator x'.

Figure 4.6 – Personnel Editor showing Account Tab

Modality Duration Override

In this release, the Modality management screen has been enhanced to include a section to account for duration overrides for scanners that are on average faster or slower than the standard procedure duration.

Default procedure durations are set at the Procedure Code level. To specify a duration override, the user simply specifies the modality, procedure code, and revised duration. In the sample below, an ultrasound scanner (US1LU) at the Lutherville site has a duration override set at 40 minutes for the US Chest procedure. The default duration for the US Chest procedure is 30 minutes. When scheduling a US Chest in room US1LU at Lutherville, the duration will now be 40 minutes.

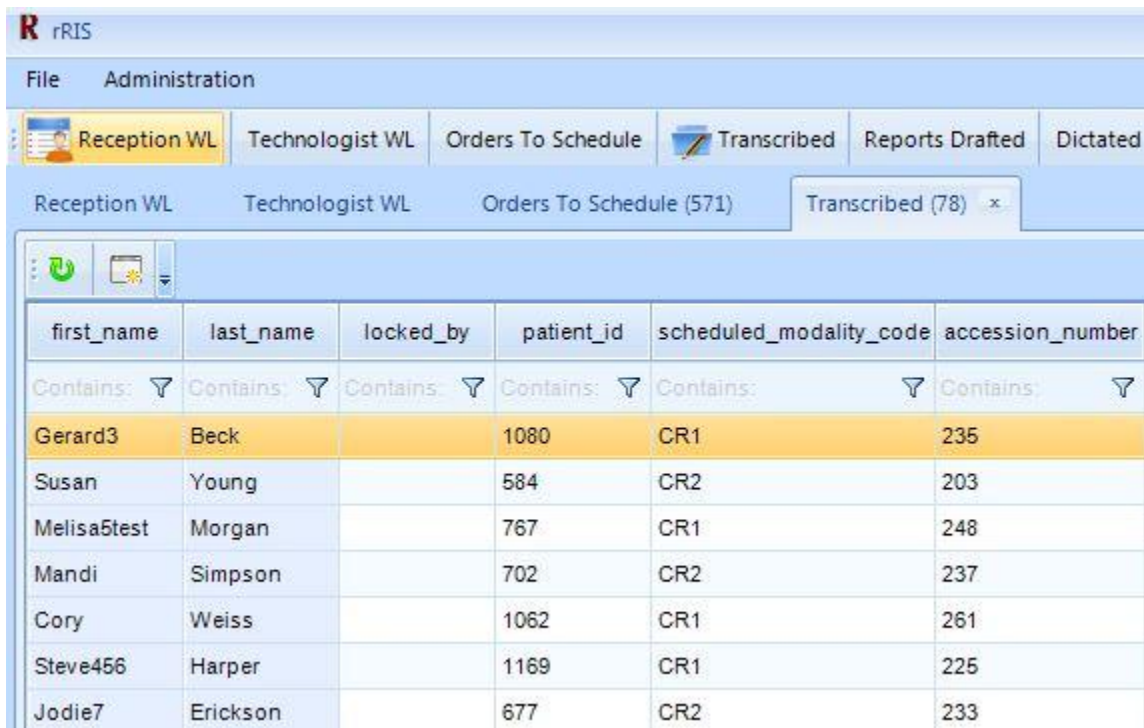
Modalities:							
modality code	short name	description	ae title	digital flag	active flag	site code	
Contains: ▼	Contains: ▼	Contains: ▼	Contains: ▼	Contains: ▼	Contains: ▼	Contains: Lutherville ▼	
CT1LU	LU CT1		TOCT1ADV	Y	Y	Lutherville	
DX1LU	LU DX1			Y	Y	Lutherville	
MA1LU	LU MA1			Y	Y	Lutherville	
MR1LU	LU MR1			Y	Y	Lutherville	
➤ US1LU	LU US1			Y	Y	Lutherville	
US2LU	LU US2			Y	Y	Lutherville	
XR1LU	LU XR1			Y	Y	Lutherville	
* Click here to add a new row							

LU US1 modality closure:				LU US1 modality duration override:			
from date	to date	active flag	description	procedure code	active flag	description	duration
* Click here to add a new row				* Click here to add a new row			
				➤ US Chest	Y	Test Case	40

Figure 4.7 – Modality Editor showing Duration Override

Worklist Icons

In this release, steps have been taken to make the application more visually appealing to the user. For example, icons can now be associated to a worklist.



The screenshot shows the rRIS application interface. At the top, there is a menu bar with 'File' and 'Administration'. Below the menu bar, there are tabs for 'Reception WL', 'Technologist WL', 'Orders To Schedule', 'Transcribed', 'Reports Drafted', and 'Dictated'. The 'Reception WL' tab is selected, and it shows a sub-tab for 'Reception WL' and a button for 'Transcribed (78)'. Below the tabs, there is a table with columns: 'first_name', 'last_name', 'locked_by', 'patient_id', 'scheduled_modality_code', and 'accession_number'. The table contains several rows of patient data, with the first row highlighted in yellow. The first row is: Gerard3, Beck, 1080, CR1, 235. The second row is: Susan, Young, 584, CR2, 203. The third row is: Melisa5test, Morgan, 767, CR1, 248. The fourth row is: Mandi, Simpson, 702, CR2, 237. The fifth row is: Cory, Weiss, 1062, CR1, 261. The sixth row is: Steve456, Harper, 1169, CR1, 225. The seventh row is: Jodie7, Erickson, 677, CR2, 233.

first_name	last_name	locked_by	patient_id	scheduled_modality_code	accession_number
Gerard3	Beck		1080	CR1	235
Susan	Young		584	CR2	203
Melisa5test	Morgan		767	CR1	248
Mandi	Simpson		702	CR2	237
Cory	Weiss		1062	CR1	261
Steve456	Harper		1169	CR1	225
Jodie7	Erickson		677	CR2	233

Figure 4.8 – Reception and Transcribed Worklists with Icons

Scheduling Procedure Picker

There is a great deal of configuration involved with scheduling. In previous releases, the management screens to configure scheduling solutions have been incorporated. These include Modality, AvailabilityTemplate, Organization, ProcedurePlan, ScheduleGroup, and Personnel. In this build, the system is starting to utilize these configurations in the scheduling workflow.

In release 1.09, there will be a great deal more to show regarding scheduling as this release concentrated a great deal on architecture. A scheduling screen has been constructed with a procedure picker to select procedures to schedule for a study. If a procedure or procedures have been specified at the order level, the procedure picker at the study level will default accordingly.

The screenshot shows a software interface for scheduling. At the top, there are tabs for 'Patient', 'Order', and 'Schedule'. Below these, there are dropdown menus for 'Region' (set to 'East Coast'), 'Practice' (set to 'Advanced Radiology'), and 'Site' (set to 'Lutherville'). A 'Studies' section contains a table with columns for 'Duration', 'Modality', and 'Start Date'. The first row in the table shows '30', 'CT/LU', and '01-14-2011 1:15 PM'. Below the table, there are input fields for 'Body Part' and 'Laterality'. The interface is designed with a light blue header and a white main area.

Figure 4.9 – Scheduling Screen Illustrating Procedure Picker

5. Known Limitations

Bugs, Suggested Features, and Support Issues are now tracked in a web based system called Redmine. The following is a snapshot of the issues found in Build 1.08 as of the end of Sprint 9. Note that the majority if these issues will be resolved in Build 1.09.

#	Status	Subject	Category	Found	%Done	Resolved
56	Resolved	When Renaming a WorklistView, popup should default to current values	Thick Client GUI	1.08	100	1.09
108	Resolved	Organization - Inconsistent design with similiar admin screens	Admin Tools	1.08	100	1.09
109	Resolved	Organization - I_practice.contact_email_address field size needs to be increased	Web Services/DB	1.08	100	1.09
110	Resolved	Modality - Screen freezes after removing a modality	Admin Tools	1.08	100	1.09.1
111	Resolved	Random exception with DropDown controls	Admin Tools	1.08	100	1.09
112	Resolved	Order Screen - Site dropdown is not filtering by selected Practice	Thick Client GUI	1.08	100	1.09
113	Resolved	Scheduling - User can schedule procedures at a practice that is marked as inactive	Thick Client GUI	1.08	100	
114	Resolved	User is able to push tool bar out of view	Thick Client GUI	1.08	100	1.09
115	In Progress	Look and Feel - Pop up forms are inconsistent across application	Thick Client GUI	1.08	90	1.09
116	New	ScheduleGroup - new templates will not show up without app restart	Admin Tools	1.08	0	
117	Resolved	ScheduleGroup - Grid shows modality description while popup shows modality code	Admin Tools	1.08	100	1.09.1
118	Resolved	Organization - Issue with context menu on record selector	Admin Tools	1.08	100	1.09
119	Resolved	Personnel - Exception when adding a new user	Admin Tools	1.08	100	1.09
120	Resolved	ScheduleGroup - When adding multiples, the list box should be sortable	Admin Tools	1.08	100	1.09.1
121	Resolved	ScheduleGroup - Exception when adding multiple procedures	Admin Tools	1.08	100	1.09.1
122	Resolved	Personnel - Application crashes when adding address to existing user	Admin Tools	1.08	100	1.09
123	Resolved	Modality - Short name is not enough characters to support existing configurations	Web Services/DB	1.08	100	1.09
124	Resolved	Personnel - Resource type required in grid	Admin Tools	1.08	100	1.09
125	Resolved	Personnel - First Name should be a required field	Admin Tools	1.08	100	1.09
126	Resolved	Personnel - Exception when making an exisitng person a user	Admin Tools	1.08	100	1.09
127	New	Modality - Duration is not a required field in duration override	Admin Tools	1.08	0	

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128	New	Modality - Duration override procedures are not filtered by selected modality	Admin Tools	1.08	0	
129	New	ScheduleGroup - No validation for duplicate entries	Admin Tools	1.08	0	
130	New	Modality - No duration override default value	Admin Tools	1.08	0	
131	Resolved	Modality - duration grid AddNewRowPosition property	Admin Tools	1.08	100	1.09
132	New	Modality - modalities should be grouped by Modality Type	Admin Tools	1.08	0	
133	New	Modality - "To Date" should be defaulted when specifying closure	Admin Tools	1.08	0	
134	Resolved	Flag columns should be defaulting to "N"	Web Services/DB	1.08	100	1.09
135	New	GUI - Label sizing issue with patient search	Thick Client GUI	1.08	0	
136	New	GUI - Sizing issue with Edit Patient	Thick Client GUI	1.08	0	
137	New	Body Part and Laterality should only be enabled if required	Thick Client GUI	1.08	0	
138	Resolved	Personnel - When creating a new user, should default to first required field	Admin Tools	1.08	100	1.09
139	New	ProcedurePlan - When saving plan, focus moves to top of grid	Admin Tools	1.08	0	
140	In Progress	commandBarStripElement issue	Thick Client GUI	1.08	0	
141	New	Worklist - "Group By" should include record counts	Thick Client GUI	1.08	0	
142	Resolved	Worklist - User is able to save a worklist view without a valid name	Thick Client GUI	1.08	100	
143	Resolved	Procedure Picker - Procedure code instead of description shows on form load	Thick Client GUI	1.08	100	1.09
144	Resolved	Scheduling - Body Part and Laterality are not being carried forward from order item	Thick Client GUI	1.08	100	1.09.1
145	Resolved	Scheduling - Procedure picker is not expanding to show multiple procedures	Thick Client GUI	1.08	100	1.09.1