

User Release Notes

for eRAD RIS
Version 2
Build 44.6

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1. Purpose

This document describes some of the new features and changes implemented in eRAD RIS as of the end of Sprint 44.6 and subsequent server releases. This version of eRAD RIS is referred to as Build 2.44.6

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 RIS Development team for the RadNet /eRAD RIS implementation teams.

3. Installing/Accessing the Application

The installation guide for the eRAD RIS client have been posted to the RadNet Wiki page at <http://mdbal01rdtweb/Wiki/>

Under the RIS menu click on the rRIS page. The credentials to access the page are:

Username: rRIS

Password: Summerside

Please note that Build 2.44.6 is considered a new release of the application. It does not require a reinstallation of eRAD RIS. If users choose to reinstall, this is accomplished by navigating to the eRAD RIS shared installation drive and running the CoreInstall.bat file (ex: I:\RISDeployment\CoreInstall.bat)

If you experience difficulties accessing the application, please do not hesitate to contact Darcy Noye with the PEI RIS Development Team.

4. New Settings for B2.44.6

Access strings

Setting	Default	Purpose / Controls Access to
Clinical.CreateReminder	None	Controls access to the create reminder feature from patient folder.
Clinical.EditReminder	None	Controls access to the edit reminder feature from patient folder.
Clinical.PreviewTerminatedReport	None	Controls access to previewing reports that have been terminated for voided or discontinued exams.
Config.LookupEditor.Complication	None	Grants access to the Complication lookup table located under the Mammography folder from the Configure option under Administration menu
Config.LookupEditor.PreparationInstructionType	None	Grants access to the PreparationInstructionType lookup table located under the Procedure folder from the Configure option under Administration menu

System Config

Setting	Default	Purpose / Controls Access to
BreastBodyPartCode	N/A	The code for the breast body part. May be used to activate mammo related functionality (e.g. Create Reminder)

5. New Features and Enhancements

Breast Imaging Updates

Feature 11221 – Biopsy Window Re-Design

The General section of the Add Mammo Biopsy window has been re-designed to make various labels more intuitive and add additional data collection fields. As displayed in Figure 5.1, Concordance and Complications sections have been added. These additions allow the user to collect additional information that can be made available for future Management Reports or database queries. Also a new option for a Lesion Classification of High Risk Malignant has been added. This allows for the flexibility of categorizing High Risk pathology findings as either Malignant or Benign, while still maintaining their “High Risk” designation. The database was updated to consider the selection of “High Risk Malignant” as Malignant when calculating statistics for MQSA-related management reports (e.g. True/False Positives, Sensitivity, Specificity, etc.). As before, the “High Risk Benign” category is treated as Benign for MQSA statistics.

The screenshot shows the 'General' section of a biopsy window. It contains the following fields and options:

- Performing physician: Aiken, Darcy j (dropdown)
- Biopsy facility*: test (text input)
- Internal facility (selected) / External facility (radio buttons)
- Biopsy technique*: Core Biopsy (dropdown)
- Date performed *: 10-02-2015 (calendar icon)
- Breast side: Left (radio), Both (selected, radio), Right (radio)
- Lesion classification: Benign (radio), High Risk Benign (radio), Malignant (radio), High Risk Malignant (selected, radio)
- Concordance: Concordant (selected, radio), Discordant (radio)
- Complications: (empty dropdown)
- Additional pathology results: Not required (selected, radio), Required (select to keep on WL) (radio)
- Imaging Follow up: Not required (selected, radio), Required (radio)
- Notes: testHRM and Hematoma (text area)

Figure 5.1 – Biopsy window changes

The following labels have also been updated to more accurately and precisely identify various data to be collected:

- Performing surgeon → Performing physician
- Biopsy location → Biopsy facility
- Additional surgery → Additional pathology results
- Follow up → Imaging follow up
- Create Follow Up (button available after selecting Follow Up Required) → Create Reminder

Selecting Required for Additional Pathology Results will allow the exam to remain on the ACR Category 4/5 Follow Up WL after saving the pathology results. This allows the Mammo Tracking personnel to continue to monitor the case for outstanding pathology results that may be forthcoming for a repeat biopsy, a biopsy of an additional site that was recommended in the same report, or simply additional surgical pathology if desired. This behavior has not changed, but the terminology has been updated to *Additional Pathology Results Required/Not Required*, as the previous label of *Additional Surgery Required/Not Required* sometimes misled Mammo Tracking personnel who believed that the purpose was to record whether the patient would be having surgery as a result of the biopsy results.

The Complications list box is populated with values from the new lookup table titled Complications which can be found at Administration menu>Configure>Mammography>Complication.

This new lookup table's access is controlled by access string: **“Config.LookupEditor.Complication”** which has a default of None.

ComplicationCode	Description	Display Order	Last Updated	Active
Contains:	Contains:	Equals:	Equals:	Contains:
Click here to add a new row				
HT	Hematoma	0	10-02-2015 11:39 AM	Y
IS	Insufficient Sample	0	10-02-2015 11:39 AM	Y
PI	Post-procedure Infection	0	10-02-2015 11:39 AM	Y

Figure 5.2 – Complication lookup table

Additional improvements have also been made to the Breast History grid at the top of the Add Mammo Biopsy window, as outlined in the description for Feature 11418 beginning on the following page.

Feature 11418 – Manually Create Mammo Tracking Reminders

Previously, eRAD RIS did not have a method to manually create breast imaging Reminders, unless pathology results are being entered as follow-up to a BI-RADS® 4 or 5 exam. It is sometimes desirable to create Reminders at other times, particularly for patients who have come to our facilities for biopsies that had been recommended elsewhere and are therefore not on the ACR Category 4/5 Follow Up WL.

From the Patient Folder:

A new context menu item (right-click menu) titled Create Reminder has been added in the Patient Folder. Selecting this option will open the Create Reminder window. This new context menu item is controlled by access string “**Clinical.CreateReminder**” with a default of none. The Create Reminder option will be available for procedures that have the body part that is specified in the new system config setting “**BreastBodyPartCode**.” This would include both BI-RADS® enabled exams, as well as other breast procedures and biopsies.

Options in the Create Reminder window are: Type of Reminder (Annual, Short Term or Callback), Site and Target Date.

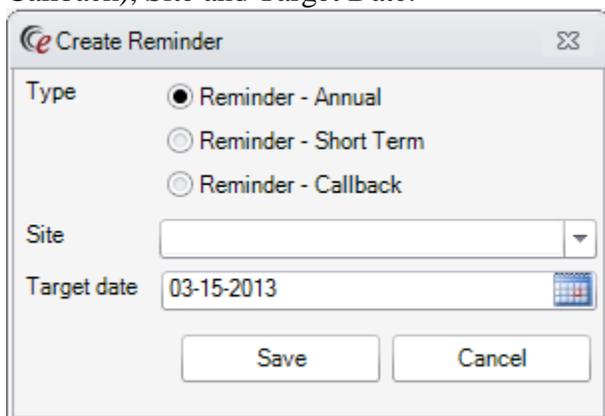


Figure 5.3 – Create Reminder window accessed from Patient Folder

The procedure used for a Reminder is determined by the pre-existing system config setting of DefaultMammoFollowUpOrderProcedureCode. The referring physician assigned will be that from the original study that was used to create the Reminder.

Another new context menu item added to the Patient Folder is Edit Reminder. This new context menu option is controlled by access string “**Clinical.EditReminder**” which has a default of None. This option will be available for statuses of Reminder – Annual, Reminder – Short Term, and Reminder – Callback. The purpose is to edit the details for an existing Reminder.

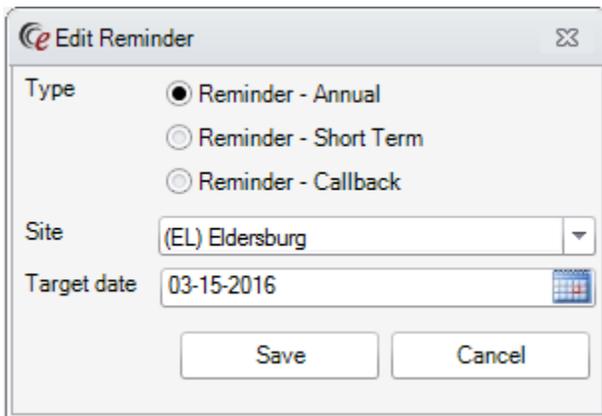


Figure 5.4 – Edit Reminder window

From the Add Mammo Biopsy Window

It is also possible to Create or Edit Reminders from the Add Mammo Biopsy window.

The Breast History grid at the top of this window has been updated in order to provide a comprehensive view of all BI-RADS® enabled exam in any status other than Cancelled or Discontinued, as well as outstanding Reminders.

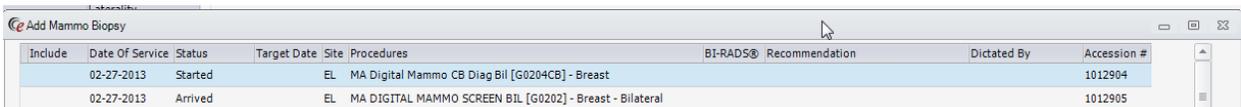


Figure 5.5 – Add Mammo Biopsy window history

The “Include” column is used for correlating pathology results with multiple exams; the behavior of this column has not changed, though the checkbox is only displayed for rows that are in the Signed status. The columns displayed in this Breast History grid have also been adjusted to display the most relevant details in a logical order.

From the Breast History grid, the user can now right-click on an existing Reminder and choose Edit Reminder to change the type of Reminder, the site, or the target date.

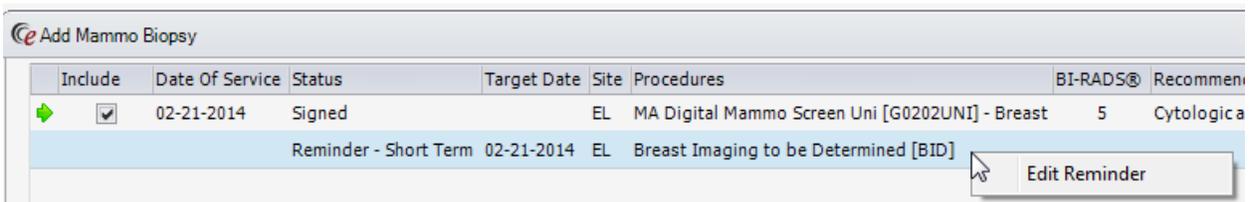


Figure 5.6 – Edit reminder on existing reminders

Reminders can also be created in the same manner as before from the Add Mammo Biopsy screen, though some of the terminology has been updated, as described above. The Create Reminder button (previously labeled Create Follow up) becomes available after selecting Additional Pathology Results = Not Required *and* Imaging Follow Up = Required. After clicking the Create Reminder button, the user can enter the type of Reminder, the Site, and the Target Date.

One additional improvement to the Breast History section has been added. To help the user determine what follow-up is necessary, there is a new context menu option available, “Show Report,” to display the report on a signed exam.

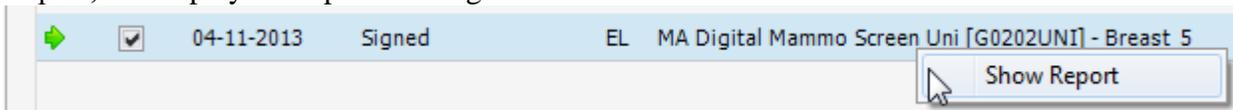


Figure 5.7 – Show report option on signed exam

Select Show Report to open a quick loading view of the report that is similar to the Data Nugget report view.

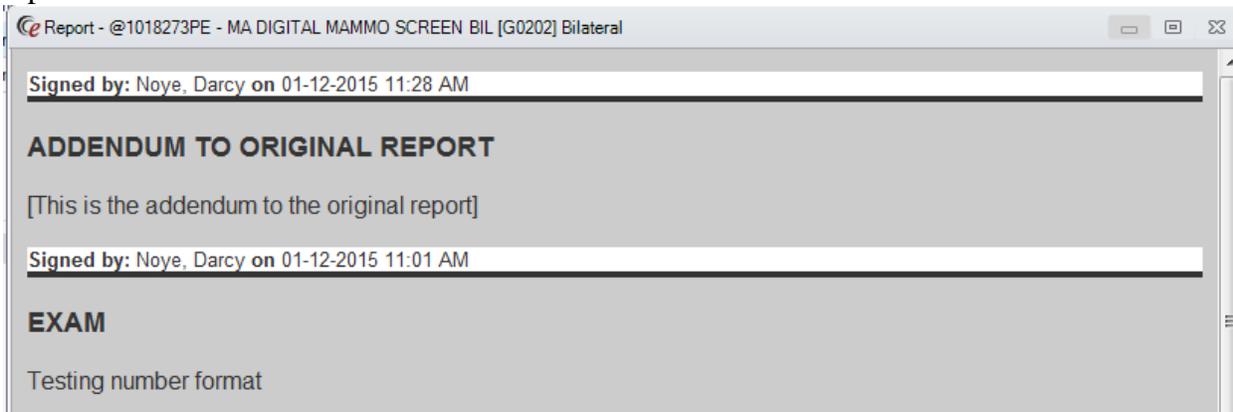


Figure 5.8 – Show report window

Insurance Eligibility

Feature 7852 - Reduce number of calls to Eligible API

This feature will reduce the number of redundant eligibility checks. We will omit the day-of-service auto eligibility check for the following scenarios:

- The remaining deductible is 0 or not provided and a previous request was valid in the same calendar month.
- More than one insurance policy is selected. In these cases, we don't calculate the amount to collect using deductible, so there is no need to retrieve an up-to-date deductible amount.
- The status or remaining deductible has been overridden. Manual overrides do not require updated deductible amounts for the calculation of the amount to collect.

Radiologist

Feature 11277 – Automate Logging into PowerScribe Immediately After Logging into eRAD RIS

eRAD RIS is now launching and logging into PowerScribe immediately after successful login to eRAD RIS if the reporting mode is PowerScribe. eRAD RIS maintains full functionality during this initial login process. If a user opens a case before the PowerScribe login is complete, eRAD RIS will wait for the login process to complete and display the message "Waiting for PowerScribe."

This feature is enabled by default, but users can change this behavior by changing the “Launch on login” user preference on the “Reporting” tab in the “PowerScribe” section.

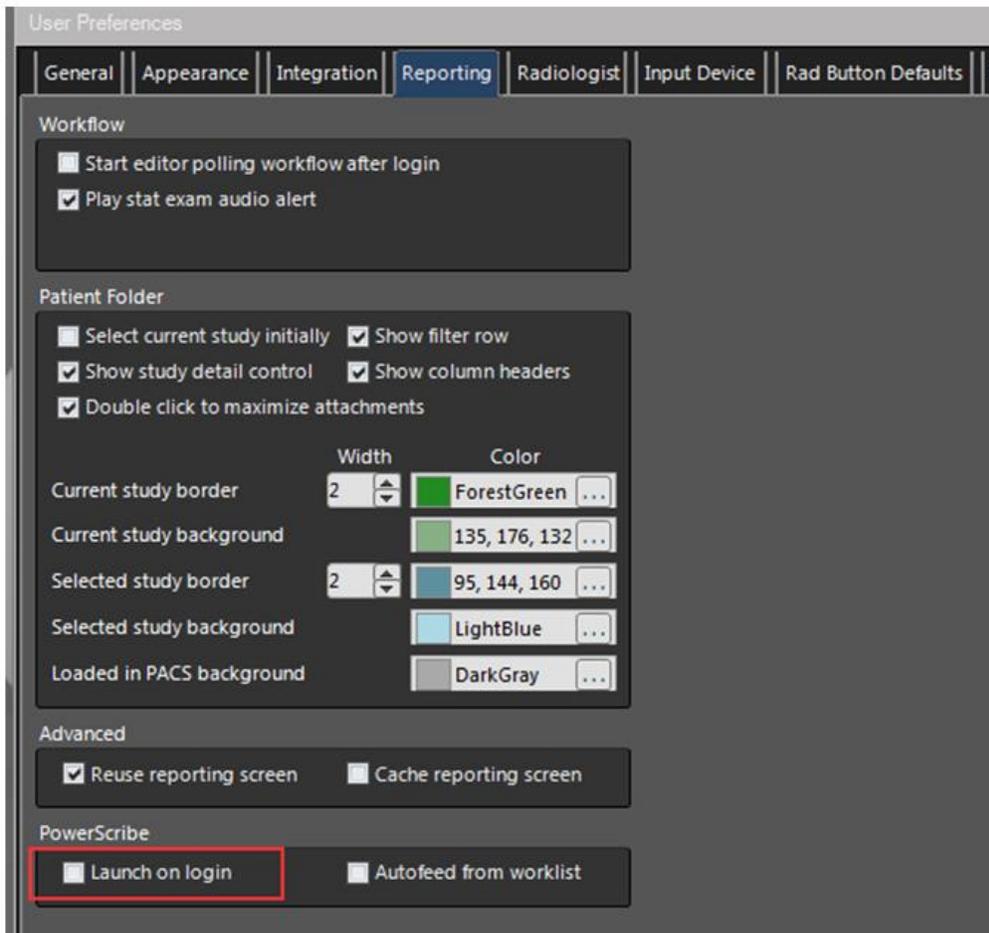


Figure 5.9 – New user preference for PowerScribe “Launch on login”

Outbound Messaging

Feature 10564 – Support ICD Data in RIS Outbound Messages

eRAD RIS needs to support sending each ICD9 or ICD10 entered in RIS in its own field in the DG1 segment of the HL7 message.

For customers who enter this information on the front end of RIS, they expect that information to be transferred to the billing system without the need to re-enter it in that system.

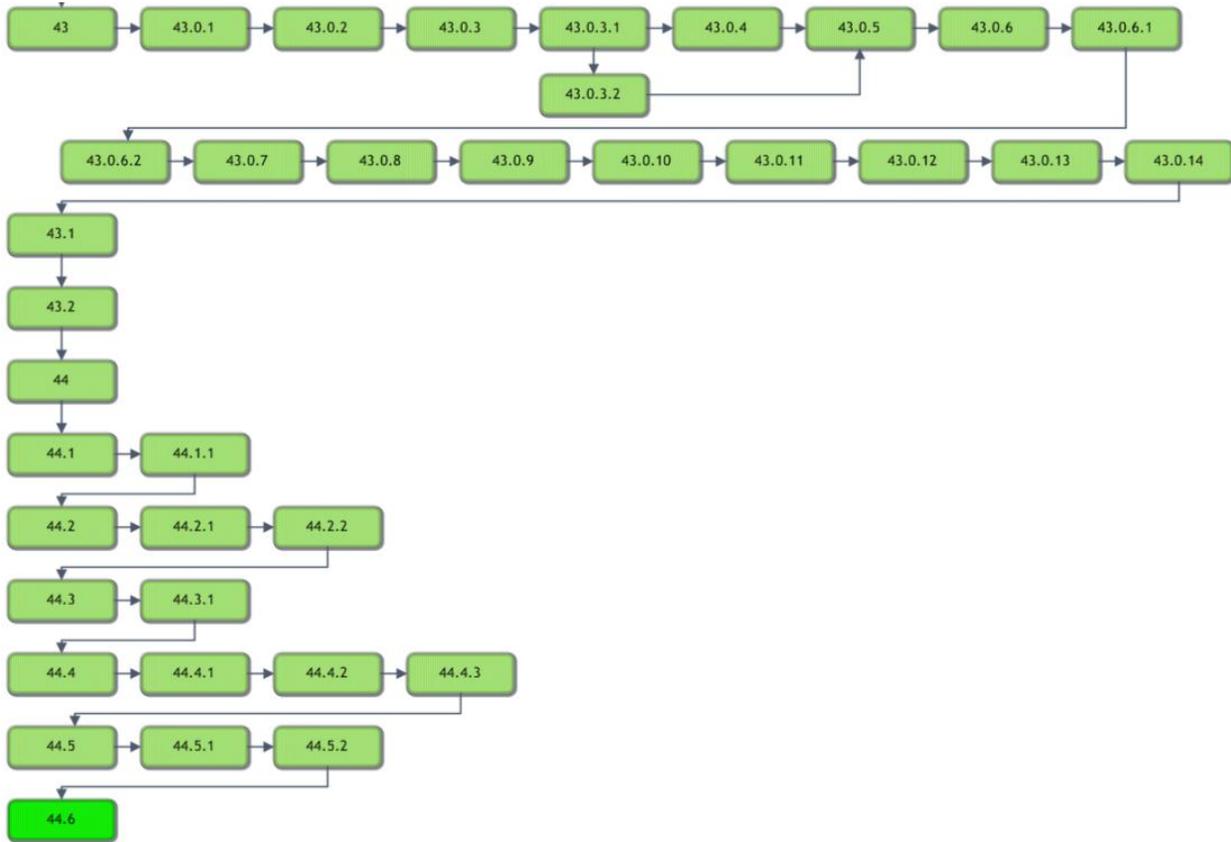
The problem is a limitation in the XML RIS sends to Mirth. The messages sent did not expand to include the ICD9 or ICD10 codes.

Now messages sent will be expanded to include all of the ICD9 and ICD10 codes. Below is an example of the message with multiple ICD codes being sent. Implementations will need to configure mappings to handle the new nodes.

```
<c_study_item_indication>
<indication_key><indication_key>2844</indication_key><indication_code>257</indication_code><description>TESTICULAR HYPERFUNCTION
</description><display_order>1</display_order><last_updated>7/21/2011 12:22:35 PM
00:00</last_updated><last_updated_by_user_id>darcy</last_updated_by_user_id><active_flag>Y</active_flag><bloodwork_required_flag>N</bloodwork_required_flag><coding_scheme>ICD9</coding_scheme><code_effective_date>1/1/2001 12:00:00 AM</code_effective_date></indication_key>
  <study_item_key>3</study_item_key>
  <last_updated_by_user_id>deuce</last_updated_by_user_id>
  <last_updated>2015-09-29T12:15:40.6573928-03:00</last_updated>
</c_study_item_indication>
<c_study_item_indication>

<indication_key><indication_key>11556</indication_key><indication_code>39.4</indication_code><description>MADURA FOOT ACTINOMYCOTIC INFECTION
</description><display_order>1</display_order><last_updated>7/21/2011 12:22:35 PM
00:00</last_updated><last_updated_by_user_id>darcy</last_updated_by_user_id><active_flag>Y</active_flag><bloodwork_required_flag>N</bloodwork_required_flag><coding_scheme>ICD9</coding_scheme><code_effective_date>1/1/2001 12:00:00 AM</code_effective_date></indication_key>
  <study_item_key>3</study_item_key>
  <last_updated_by_user_id>deuce</last_updated_by_user_id>
  <last_updated>2015-09-29T14:43:59.5980514-03:00</last_updated>
</c_study_item_indication>
```

6. Code Stream



Legend:

Light Green = Released software

Gray = Will not be released

Bright Green = Current Release

7. eRAD RIS Release Version Numbers

Build	Patch	UI Version	Core Version	WS Version	DB Version	Notes
43	-	2.43.0.0.23715(3GB)	2.43.0.0.23171	2.43.0.0.23715	2.43.0.0.23743	Full Version Release
43	1	2.43.0.1.23798(3GB)	2.43.0.0.23171	2.43.0.1.23798	2.43.0.1.23770	Gui.zip, Web Service, DB updates
43	2	2.43.0.2.24017(3GB)	2.43.0.0.23171	2.43.0.2.24017	2.43.0.2.24023	Gui.zip, Web Service, DB updates and Management Report Deployment
43	3	2.43.0.3.24298(3GB)	2.43.0.0.23171	2.43.0.3.24298	2.43.0.3.24283	Gui.zip, Web Service, DB updates and Management Report Deployment
43	3.1	2.43.0.3.24450(3GB)	2.43.0.0.23171	2.43.0.3.24298	2.43.0.3.24421	Gui.zip, and DB updates
43	3.2	2.43.0.3.24450(3GB)	2.43.0.0.23171	2.43.0.3.24298	2.43.0.3.24421a	DB updates
43	4	2.43.0.4.24447(3GB)	2.43.0.0.23171	2.43.0.4.24447	2.43.0.4.24442	Gui.zip, Web Service, DB updates and Management Report Deployment
43	5	2.43.0.4.24632(3GB)	2.43.0.0.23171	2.43.0.4.24632	2.43.0.4.24560	Gui.zip, Web Service and DB updates
43	6	2.43.0.4.24(3GB)	2.43.0.0.23171	2.43.0.4.24	2.43.0.4.24	Gui.zip, Web Service and DB updates
43	6.1	2.43.0.6.24937(3GB)	2.43.0.0.23171	2.43.0.6.24937	2.43.0.6.24914	Gui.zip, Web Service
43	6.2	2.43.0.6.24970(3GB)	2.43.0.0.23171	2.43.0.6.24970	2.43.0.6.24914	Gui.zip, Web Service
43	7	2.43.0.7.25258(3GB)	2.43.0.0.23171	2.43.0.7.25258	2.43.0.7.25226	Gui.zip, Web Service, DB updates and Management Report Deployment
43	8	2.43.0.8.25440(3GB)	2.43.0.0.23171	2.43.0.8.25440	2.43.0.8.25425	Gui.zip, Web Service, DB updates and Management Report Deployment
43	9	2.43.0.9.25477(3GB)	2.43.0.0.23171	2.43.0.9.25477	2.43.0.8.25425	Gui.zip and Web Service
43	10	2.43.0.9.25477(3GB)	2.43.0.0.23171	2.43.0.10.25477	2.43.0.8.25425	Web Service
43	11	2.43.0.11.25512(3GB)	2.43.0.0.23171	2.43.0.11.25512	2.43.0.8.25425	Gui.zip and Web Service
43	12	2.43.0.12.25554(3GB)	2.43.0.0.23171	2.43.0.12.25554	2.43.0.12.25536	Gui.zip Web Service and DB Updates
43	13	2.43.0.12.25610(3GB)	2.43.0.0.23171	2.43.0.12.25610	2.43.0.12.25536	Gui.zip and Web Service
43	14	2.43.0.14.25644(3GB)	2.43.0.0.23171	2.43.0.13.25610	2.43.0.12.25536	Gui.zip
43.1	-	2.43.1.0.25850(3GB)	2.43.0.0.23171	2.43.1.0.25850	2.43.1.0.25771	Gui.zip Web Service and DB Updates
43.2	-	2.43.2.0.26864(3GB)	2.43.0.0.23171	2.43.2.0.26864	2.43.1.0.25771	Gui.zip and Web Service
44	-	2.44.0.0.26570(3GB)	2.44.0.0.26405	2.44.0.0.26570	2.44.0.0.26475	Full Version Release
44.1	-	2.44.0.0.26984(3GB)	2.44.0.0.26405	2.44.0.0.26984	2.44.0.0.26906	Gui.zip, Web Service, and DB
44.1	1	2.44.1.1.27093(3GB)	2.44.0.0.26405	2.44.1.0.26984	2.44.1.0.26906	Gui.zip
44.2	-	2.44.2.0.27410(3GB)	2.44.0.0.26405	2.44.2.0.27410	2.44.2.0.27365	Gui.zip, Web Service, and DB
44.2	1	2.44.2.1.27959(3GB)	2.44.0.0.26405	2.44.2.1.27959	2.44.2.1.27909	Gui.zip, Web Service, and DB
44.2	2	2.44.2.1.27959(3GB)	2.44.0.0.26405	2.44.2.2.28094	2.44.2.1.27909	Web Service
44.3	-	2.44.3.0.28292	2.44.0.0.26405	2.44.3.0.28277	2.44.3.0.28138	Gui.zip, Web Service, and DB
44.3	1	2.44.3.1.28535(3GB)	2.44.0.0.26405	2.44.3.1.28535	2.44.3.0.28138	Gui.zip and Web Service
44.4	-	2.44.4.0.28762(3GB)	2.44.0.0.26405	2.44.4.0.28762	2.44.4.0.28676	Gui.zip, Web Server, DB, Management Report Deployment
44.4	1	2.44.4.1.28953(3GB)	2.44.0.0.26405	2.44.4.1.28953	2.44.4.0.28676	Gui.zip and Web Service
44.4	2	2.44.4.2.29327(3GB)	2.44.0.0.26405	2.44.4.2.29327	2.44.4.0.28676	Gui.zip and Web Service
44.4	3	2.44.4.2.29722(3GB)	2.44.0.0.26405	2.44.4.2.29327	2.44.4.0.28676	Gui.zip and Web Service
44.5	-	2.44.5.0.30022(3GB)	2.44.0.0.26405	2.44.5.0.30022	2.44.5.0.29976	Gui.zip, Web Server, DB
44.5	1	2.44.5.1.30451(3GB)	2.44.0.0.26405	2.44.5.1.30451	2.44.5.1.30449	Gui.zip, Web Server, DB
44.5	2	2.44.5.2.30705(3GB)	2.44.0.0.26405	2.44.5.1.30705	2.44.5.1.30554	Gui.zip, Web Server, DB
44.6	-	2.44.6.0.31341(3GB)	2.44.0.0.26405	2.44.6.0.31341	2.44.6.0.31182	Gui.zip, Web Server, DB

8. Resolved Defects

Bugs, Suggested Features and Support Issues resolved in build 2.44.6. The extract is taken from Redmine bug tracking system and only displays defects resolved in 2.44.6.

Bug #	Priority	Subject	Category	Found Version
11167	Urgent	Contacts/Demographics info not resetting on changing patients	Scheduling	2.44.4.3
11044	Urgent	Enhance wedge to support when a rad occupies or vacates a primary chair	Interfaces	
11579	High	Lab Work Request WL (CPOE) - Addendum Signed Bug	Meaningful Use	2.44.5.0
11292	High	RIS incorrectly stores PACS bookmark after logout from PACS	PACS (eRAD) Int - RIS only	2.44.4.2
11288	High	Users can print/preview unsigned reports without permission.	Radiology Reporting	2.44.2
11197	High	Missing access string for new lookup table PrepInstructionType	Access strings	2.44.5
11187	High	Patients that have the same Patient Flag set cannot be merged	Patient Merge	2.44.5
11186	High	Insurance Eligibility - Medicare DBNull parsing error on address line 2	Insurance Eligibility	44.4
11182	High	Removing Patient Flag and it's corresponding notes only removes the notes	Scheduling	2.44.5
10777	High	CA - Error adding billing codes	Billing	2.44.4.1.28953
10748	High	Error created when trying to do a confirmation on an exam.	Confirmation	44.2
11904	Normal	Next workflow can open the exact same report that was just closed causing exceptions	Radiology Reporting	2.44.x
11902	Normal	Closing PowerScribe 360 after initial sync will require two attempts from RIS to open a report	Powerscribe Integration	2.44.x
11889	Normal	Insurance Eligibility - WL Flag calculation is looking at cancelled studies.	Insurance Eligibility	44.4
11887	Normal	Insurance Eligibility - RIS loops updating the c_eligibilityrequest table	Insurance Eligibility	44.4
11840	Normal	Insurance Eligibility - We need to prevent accepting insurances if 3 of the 4 demographics do not match	Insurance Eligibility	44.4
11775	Normal	Same study can be opened multiple times from pending dictation WL	PACS (eRAD) Integration	2.44.5.2
11751	Normal	CD Import - fails to import all images.		44.4

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11572	Normal	Clean up trace table is cost higher db resources than is needed	DB	2.44.5
11568	Normal	Remove collations from database DDL files	DB	2.44.5
11557	Normal	Missing indexes that affect RIS performance	DB	2.44.5
11497	Normal	The 'minutes since cache requested' and 'cached by Name' columns should be synced up to update at the same time	Worklists	2.44.5.1
11421	Normal	billing codes not added for outside reads	Billing	2.44.5
11362	Normal	Height not Required on Scheduling when auto-entered from previous visit as <empty string>	Meaningful Use	2.44.5
11346	Normal	failed to enable constraint error when using the schedule button on the follow up screen	Mammography	2.44.4.3
11307	Normal	Powerscribe closing open report in eRAD RIS	Powerscribe Integration	2.43.0.6
11306	Normal	Waiting for PowerScribe 360 message box is hiding other focused applications	Powerscribe Integration	2.43
11305	Normal	Reporting Radiologist - PowerScribe initial dictation will open PS but not the report to dictate	Powerscribe Integration	2.44.2
11304	Normal	Reporting Radiologist - PowerScribe addendum interruption cases getting mismatched error with RIS	Powerscribe Integration	44.2
11303	Normal	Reporting Radiologist - PowerScribe issues with fix #7908 and #8143 one is reverting the other to fix different issues.	Powerscribe Integration	44.2
11267	Normal	align patient portal v1.0.x db views to RIS release	Connect Portal 4.x	2.44.5
11266	Normal	Missing access string to prevent a voided exam from having the report previewed and printed	Radiology Reporting	2.44
7969	Normal	Reporting Radiology - RTF to CDA converter bolding text when not bolded in source system	Powerscribe Integration	2.42.1
6333	Normal	Attachments Screen: fails to save for pre-scheduled studies.	Scanning	1.42

9. Known Limitations

The following are Bugs Suggested Features and Support Issues found in build 2.44.6. Bugs reported in previous versions are not captured as Known Limitation in this document.

#	Status	Priority	Subject
11980	New	Normal	BI-RADS picker is editable - causes Index out of range error
11978	New	Normal	Appointment book allows any procedure to be scheduled in a room
11966	New	Normal	Mammo Biopsies Window - Cancel and ESC Key functionality
11948	New	Normal	PowerScribe - approving an addendum also saves a 2nd exam that is opened.
11934	New	Normal	Study/Order locks not clearing on closing multi-orders from Walk-In window
11960	New	Low	Confirmation - Administered checkbox under Medications is always unchecked (visually)
11937	New	Low	Error on filtering Calculated Time Severity column (Confirmation/Closed Rooms/Reception WL)
11935	New	Low	Study/Order locks not clearing on closing multi-orders from Schedule Order>Existing Orders prompt