

User Pre-Release Notes

for RADNET rRIS
Build 1.22

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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 22. This pre-release version of rRIS is referred to as Build 1.22.

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

The installation instructions for the rRIS 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 1.22 is considered a new core release of the application and will require a reinstallation of rRIS. This is accomplished by navigating to the rRIS 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.

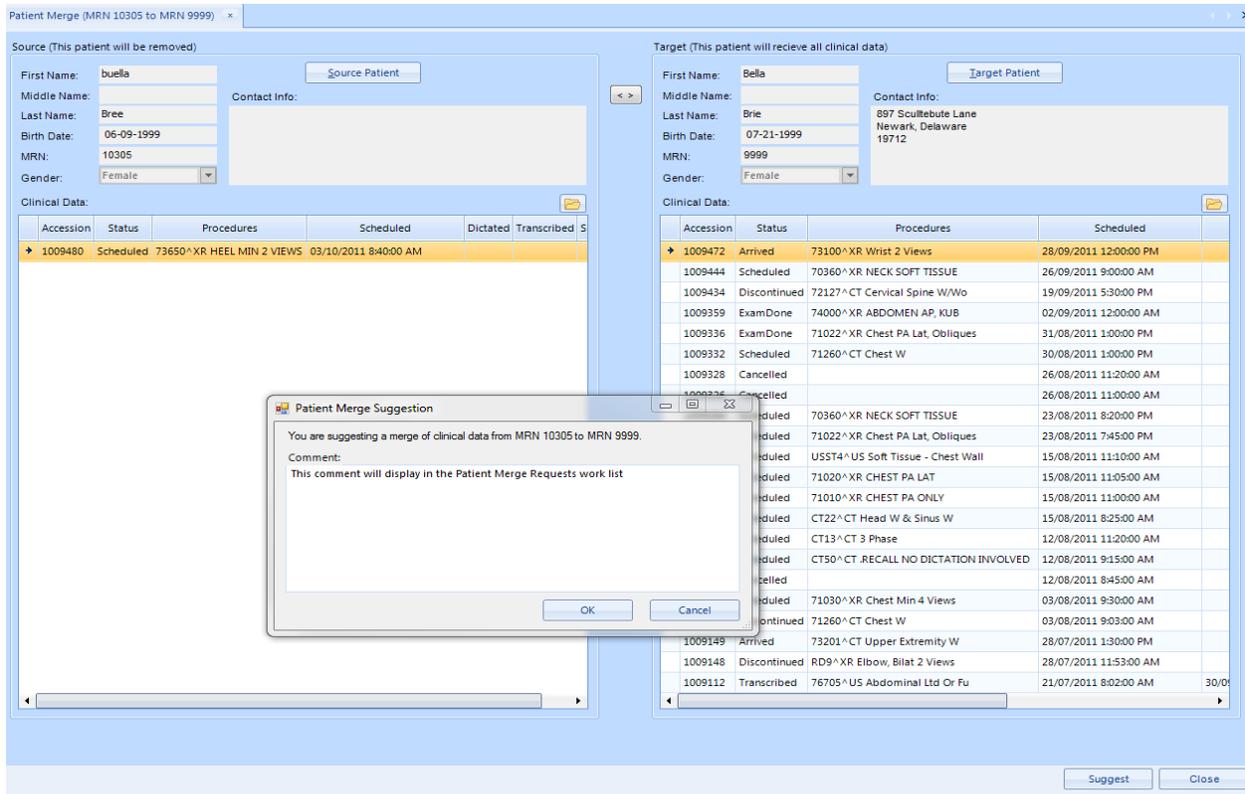
4. New Features and Enhancements

Patient Merge Request Work List

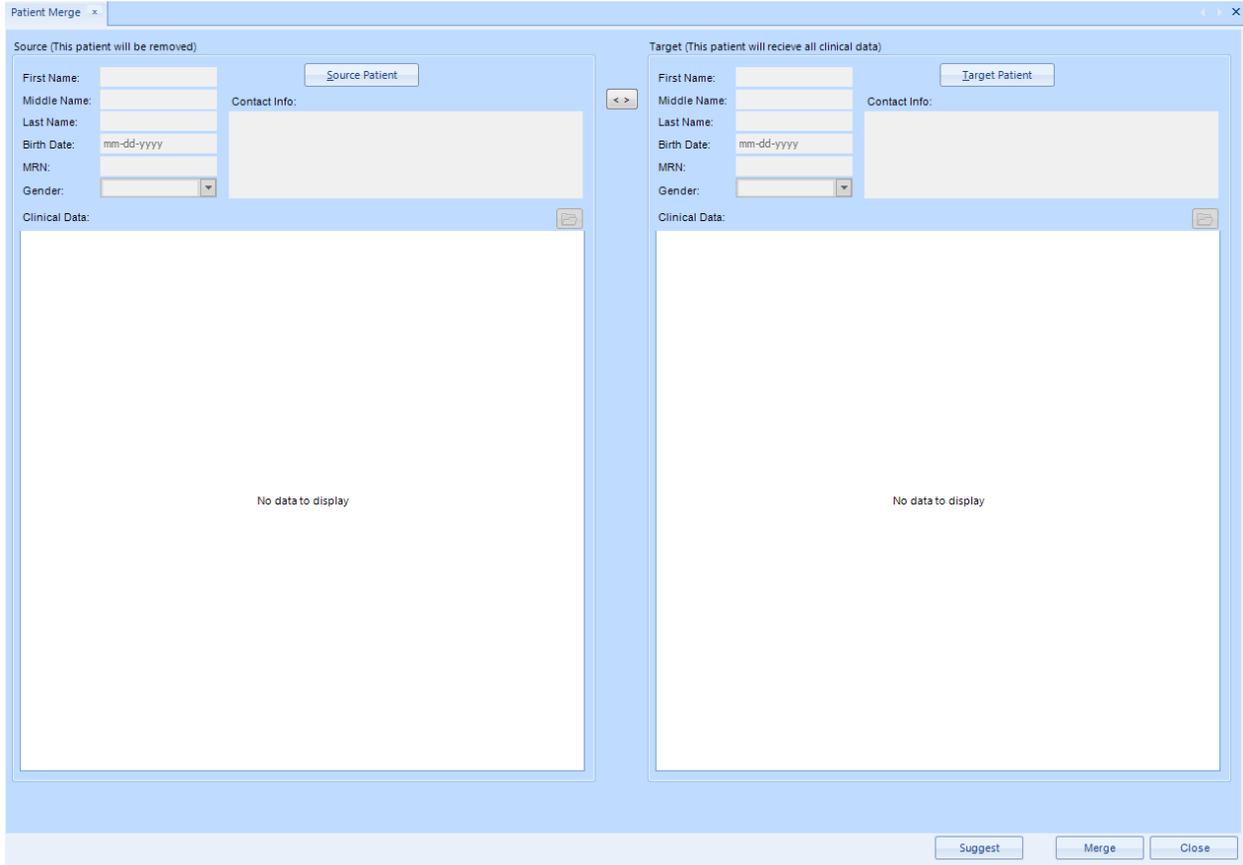
Patient Merge has been enhanced in this build, to make it more accessible to all users. Not all users will have the ability to complete a patient merge. Who can perform a patient merge and who may only be able to suggest a patient merge will be controlled by the following access strings:

- Clinical.PatientMerge - All users should have this access string set to full. This will give them access to the patient merge screen but only for “Suggesting” merges, not submitting them.
- Clinical.PatientMergeAdmin – given to a specific admin type. Permits users to complete patient merge, or reject the suggestion
- WL.PatientMergeRequest – allows access to the patient merge request work list

The system allows users to recommend multiple or duplicate merge requests since the reason for a second request might include a different or additional comment.



**Figure 4.1 – Patient merge data window for non admin users. Permitted to “Suggest” merge only.
Clinical.PatientMerge = full.**



**Figure 4.2 – Patient Merge data window for an Admin user that has
Clinical.PatientMergeAdmin = full. Permitted to Merge as well as Suggest.**

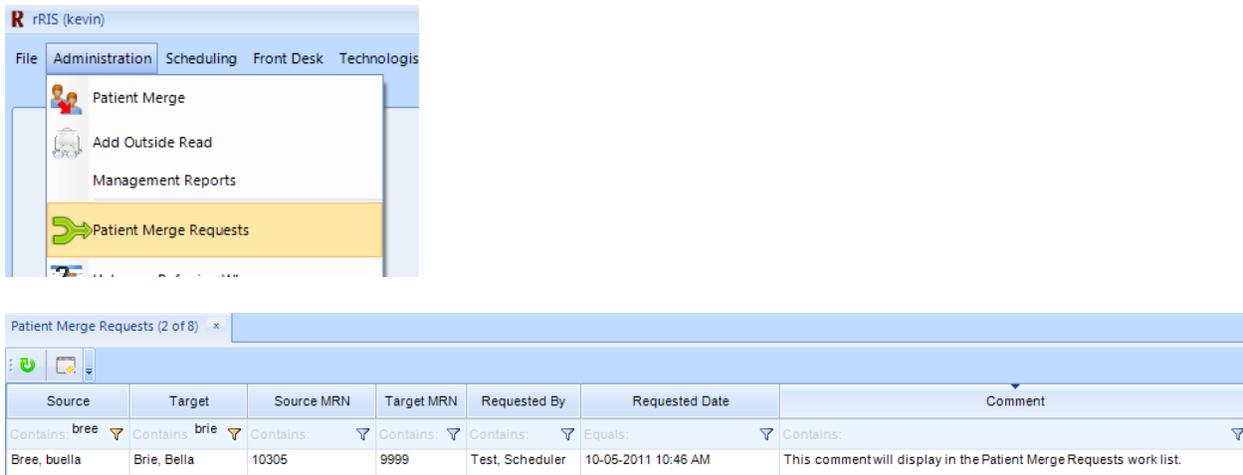


Figure 4.3 – Patient Merge access and work list.

Figure 4.3 above shows how to access the Patient Merge Requests work list. It is recommended that all users that have access to suggest patient merges as well as complete a merge have access to this work list. Figure 4.4 displays that Patient Merge data window for an admin user. The admin has the ability to “Reject” the suggestion, “Merge” the suggestion, or do additional searching, change source / target patient and complete merge or simply close the window.

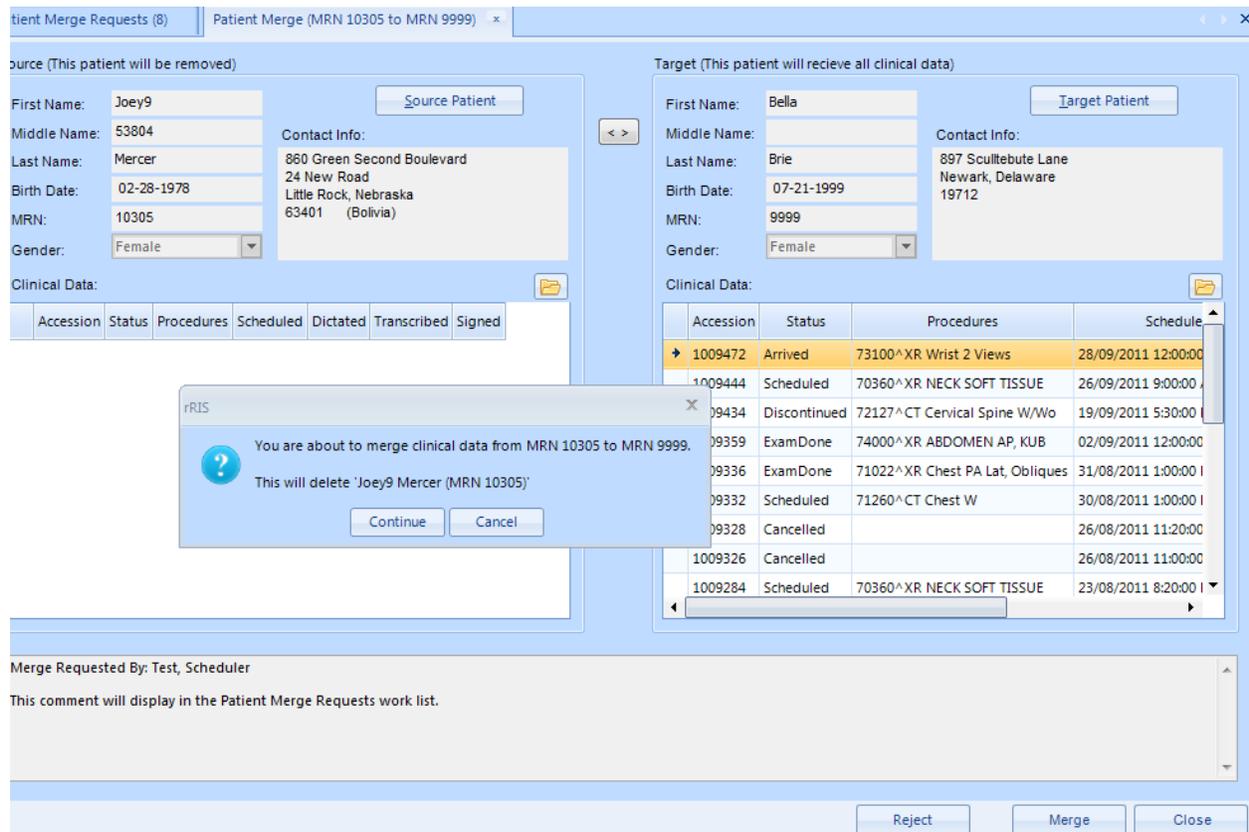


Figure 4.4 – Data window opened from figure 4.2. This admin type user can complete merge, reject or complete their own search for source and target patient.

If more than one merge request is created for a particular patient the admin must choose which one to select from the work list. If an admin completes a merge for the first request, the second request drops off the list.

Patient Search for Outside Orders

In Build 1.22 the rRIS application will determine if the order to be scheduled was received from an external system. It will compare the “Issuer of ID” with our internal, configurable value.

Issuer of id code	Description	Display order	Active
Contains: ▼	Contains: ▼	Equals: ▼	Contains: ▼
RIS	RIS	3	Y
SIM	SIM	2	Y
system	system	1	Y
* Click here to add a new row			

Figure 4.5 - IssuerOfID lookup table

If the “issuer of ID” does not match, the user is prompted with a message displayed in figure 4.6.

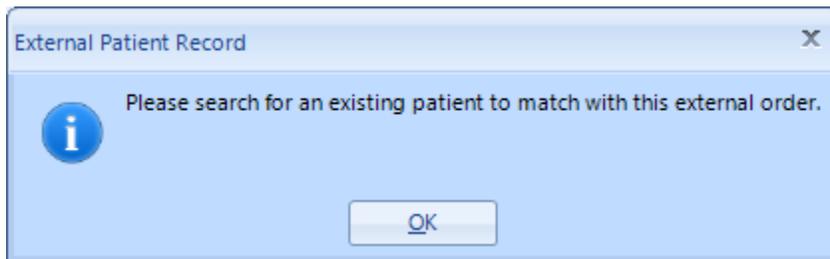


Figure 4.6 – External Patient Record – user is informed that the order is from an external system

Selecting OK will automatically open the patient search window displaying any matches and will also search for “Other Variations” of the name. As with the previous build, the user can try alternate search criteria (e.g. reversing the first and last name), if no patient matches are found the user may create a new patient from the “Patient Search New Order” window.

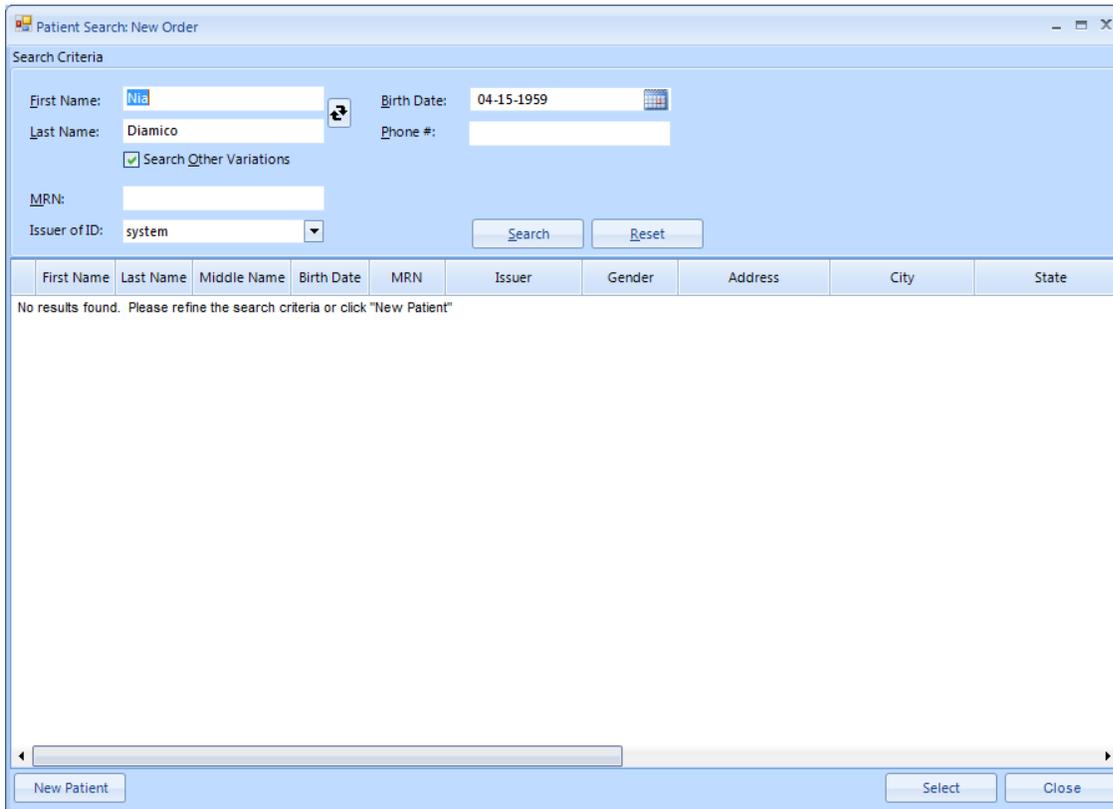


Figure 4.7 – Patient Search New Order

If the “New Patient” option is selected, the Schedule Order (patient name) will open. The user may proceed as if they were creating a new patient. This will issue an rRIS MRN for future orders. The patient record provided from the EMR is retained, and future messages coming in from the EMR will automatically reference the newly created internal patient. **Note:** if the user closes the search screen without selecting or creating a patient, the Schedule Order screen will close and the user will be returned to the “Orders to Schedule” work list.

If the Patient Search New Order does find a match to an existing patient record, the user must determine if they are indeed the same person.

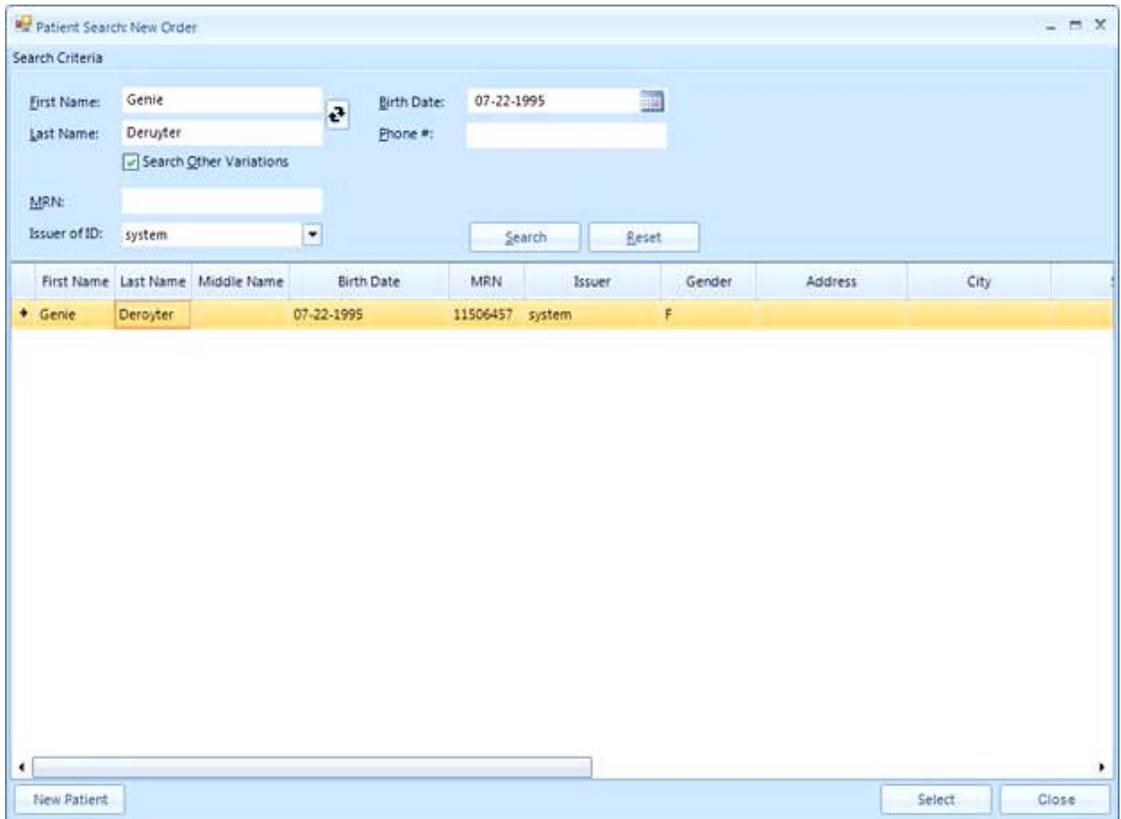


Figure 4.8 – Patient Search New Order finding a matching external order patient with internal patient with a similar name.

In this case, “Genie **Deruyter**” from the external system was a close match to internal patient “Genie **Deroyter**”. The user can press select to associate the current order with our internal patient and establish a link between “Genie Deruyter” and “Genie Deroyter” (based on the patient ID sent in from the external system). If the user selects an existing patient record, they will be presented with the following prompt to confirm:

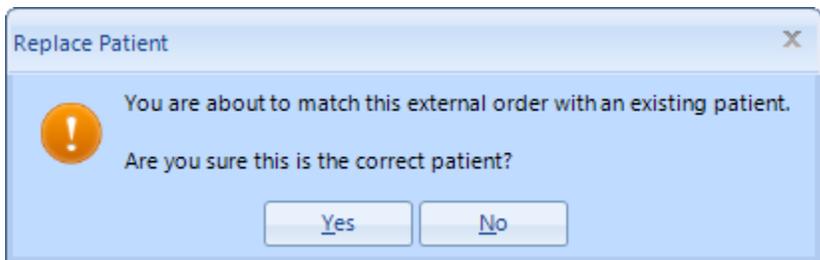


Figure 4.9 – Confirmatory message

Closing Pending Signature Option Removed

When a Radiologist logs into rRIS the Pending Signature window launches automatically displaying his/her list of exams to be signed off. In build 1.22 closing the Pending Signature window has been removed (except for one defect. See bug 565 in Section 5 of this document)

The X has been removed from the tab. The Pending Signature tab itself has had context menu items (right click on tab name) “Close” and Close All” removed. When “Closing All” or “Closing All But This” is initiated from another tab, it will not close the Pending Signature work list.

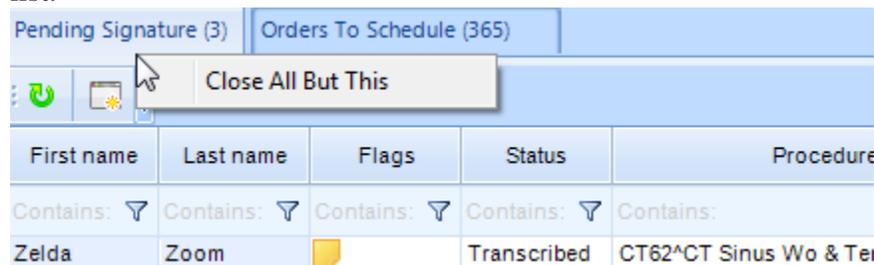


Figure 4.10 – Context menu on Pending Signature tab

Emergency Access

Emergency access to authorized users has been implemented in build 1.22. A flag has been added at the Personnel level

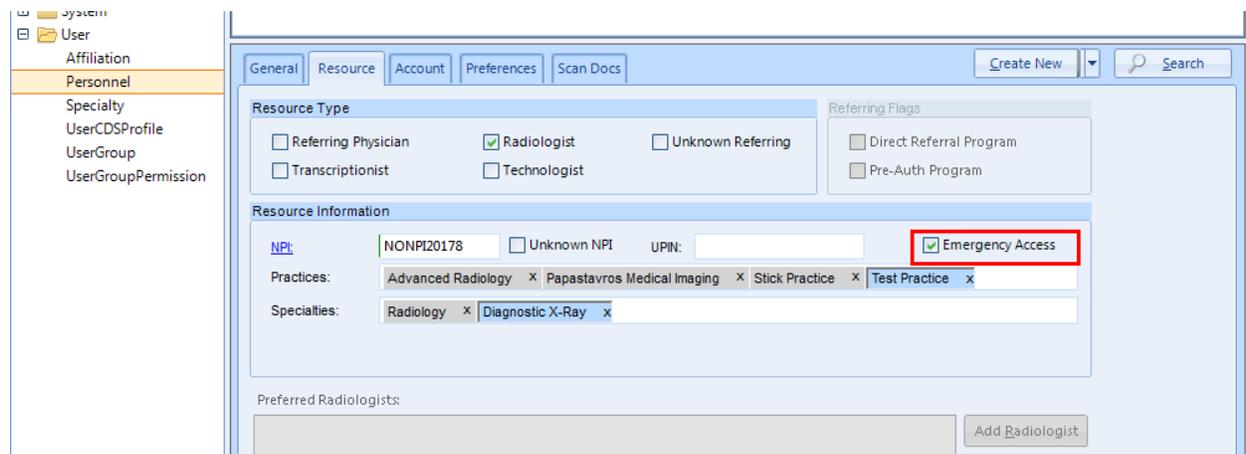
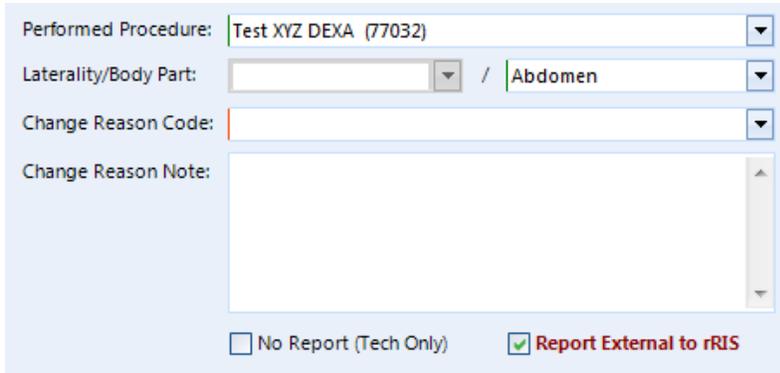


Figure 4.11 – Emergency Access flag in Personnel editor

External Reporting Flag

In build 1.22 further enhancements have been made to “Outside Read” workflow. In the last build Tech Only workflow was added. In addition we have added “Reporting External to rRIS”. The tech data window Perform Exam will have checkboxes for

- No Report (Tech Only)
- Report External to rRIS



The screenshot shows a data entry window for a 'Perform Exam'. It includes several dropdown menus: 'Performed Procedure' (set to 'Test XYZ DEXA (77032)'), 'Laterality/Body Part' (set to 'Abdomen'), 'Change Reason Code', and 'Change Reason Note'. At the bottom, there are two checkboxes: 'No Report (Tech Only)' which is unchecked, and 'Report External to rRIS' which is checked.

Figure 4.13 – Report External to rRIS in Perform Exam data window

If both of these check boxes are present when Performing Exam, only one will be permitted to be checked as they contradict one another. A warning message will be presented to the user when one of the checkboxes is selected.

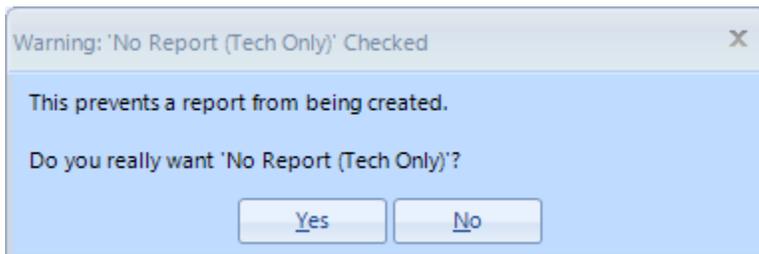


Figure 4.14 – Selecting No Report (Tech Only) checkbox

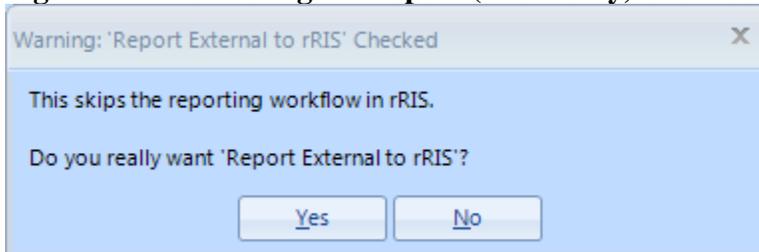


Figure 4.15 – Selecting Report External to rRIS checkbox

The “Report External to rRIS” flag will only appear if the “no_report_required_flag” for the procedure is “Y”.

	Procedure code	Description	Duration	Birad enabled flag	Prep instruction code	Coding scheme	Procedure group code	No report required flag	Require
	74400	XR IVP	5	N	General XR	RIS	XR (Plain Film/Xray/CR)	Y	N
	77081	DX Appendicular Skeleton	30	N	General XR	RIS	XR (Plain Film/Xray/CR)	Y	N
	0028T	DX Body Composition Study	30	N	General XR	RIS	XR (Plain Film/Xray/CR)	N	N
	20605	FL Arthrocentesis Inject Intermediate It	30	N	General FL	RIS	FL (Fluoroscopy)	N	N
	70030	XR ORBITS FOR FOREIGN BODY	5	N	General XR	RIS	XR (Plain Film/Xray/CR)	N	N
	70100	XR Mandible 1-3 Views	5	N	General XR	RIS	XR (Plain Film/Xray/CR)	N	N
	70110	XR MANDIBLE 4 VIEWS	5	N	General XR	RIS	XR (Plain Film/Xray/CR)	N	N
	70120	XP Mandible 1-2 Views Pa Side	5	N	General XR	RIS	XR (Plain Film/Xray/CR)	N	N

Figure 4.16 – Flag “No Report required flag” flag added to procedure

Completing an exam with either “No report (Tech Only)” or “Report External to rRIS” will send the exam to a status of “ExamDoneTechOnly” and will not be added to the Radiologists work list of Exam Done.

Document Distribution Enhancements

Enhancements have been made for Distributing Reports and later editing Document Distribution. A lookup is still available for finding Referring personnel that already exist in the rRIS system. The “Other” text box is enabled by selecting the corresponding radio button. This is a free form text field allowing the user to enter the name of the recipient. The user is able to submit the job when the Destination / Fax field has a value.

Distribute Report

Physician Noye, Darcy T [v] [m]

Location: 154 Workdown Dr., Worktown, MD, 4 [v]

Other Noye, Darcy T

Delivery Method: Fax [v]

Destination: (902) 548-4848

Priority: High [v]

Note:

Notes entered here will display under the Activity log column of Document Distribution work list.

OK Cancel

Figure 4.17 – Distribute Report

The Document Distribution work list displays all of the existing jobs that have not been completed or cancelled. A user may multi-select rows from this work list and change values that each job has in common. In the example in Figure 4.18, all three of the jobs presently selected have the same Physician, location and delivery method, all three of these jobs can have all of these fields edited at the same time. If two jobs exist for the same accession number and were sent to the same physician, but at different locations, then only the Priority and Note fields are enabled.

1009273	10-04-2011 9:28 AM	10-04-2011 9:28 AM	0					(902) 548-8564
1009273	10-04-2011 10:17 AM	10-04-2011 10:17 AM	0					(902) 555-5556
1009273	10-04-2011 10:36 AM	10-04-2011 10:36 AM	0					(902) 548-4848
1009159	10-04-2011 10:42 AM	10-04-2011 10:42 AM	0					(902) 548-7885
1009207	10-04-2011 10:42 AM	10-04-2011 10:42 AM	0					(902) 555-5557
1009159	10-04-2011 10:55 AM	10-04-2011 10:55 AM	0					(902) 555-5557
1009159	10-04-2011 11:28 AM	10-04-2011 11:28 AM	0					(902) -
1009432	10-04-2011 11:28 AM	10-04-2011 11:28 AM	0					(902) -
1009479	10-04-2011 11:28 AM	10-04-2011 11:28 AM	1					(902) -
1009159	10-04-2011 11:29 AM	10-04-2011 11:29 AM	0					(902) 185-4854
1009432	10-04-2011 11:29 AM	10-04-2011 11:29 AM	0					(902) 548-
1009479	10-04-2011 11:29 AM	10-04-2011 11:29 AM	0					(902) 548-
1009479	10-04-2011 11:44 AM	10-04-2011 11:44 AM	1					(902) 548-7854
1009119	10-05-2011 3:37 PM	10-05-2011 3:37 PM	0					(902) 436-2117
1009432	10-05-2011 3:38 PM	10-05-2011 3:38 PM	0					(902) 436-5145
1009432	10-05-2011 3:39 PM	10-05-2011 3:39 PM	0					(902) 154-8542
1009432	10-05-2011 4:00 PM	10-05-2011 4:00 PM	0					(902) 548-4848
1009159	10-05-2011 4:19 PM	10-05-2011 4:19 PM	0	Pending	Fax	Noye, Darcy T		(902) 548-4848
1009432	10-05-2011 4:19 PM	10-05-2011 4:19 PM	0	Pending	Fax	Noye, Darcy T		(902) 548-4848
1009479	10-05-2011 4:19 PM	10-05-2011 4:19 PM	0	Pending	Fax	Noye, Darcy T		(902) 548-4848

Distribute Report

Physician Noye, Darcy T

Location: kdown Dr., Worktown, MD, 45742

Other

Delivery Method: Fax

Destination: (902) 548-4848

Priority: High

Note:

Figure 4.18 – Document Distribution work list editing multiple jobs from for different reports but sent to the same Physician, location and fax number

Unknown NPI Flag

In recent builds users that had the resource type of Referring Physician or Radiologist were required to have NPI identifier complete. The user can select the NPI label on the Resource tab and it will complete a NPI Registry Search. It became apparent that in some cases, an NPI number may not be found. To assist the user in completing the task at hand of creating the user account we have added an additional check box “Unknown NPI”. When this check box is selected the required NPI field may be by-passed and the user account may be created.

User

Affiliation

Personnel

Specialty

UserCDSPProfile

UserGroup

UserGroupPermission

Resource Type

Referring Physician
 Radiologist
 Unknown Referring

Transcriptionist
 Technologist

Referring Flags

Direct Referral Program
 Pre-Auth Program

Resource Information

NPI: 254478 Unknown NPI UPIN: Emergency Access

Practices: Advanced Radiology x

Specialties:

Figure 4.19 – Unknown NPI flag

Diagnostic Reporting Forms

Using the Forms and Label editor, Diagnostic report forms may be configured to be used with a particular practice, procedure, etc. If a report does not exist under Label and Forms, the default report template will be used from the system config value. When previewing the report from Diagnose / Create report data windows, the report form specified will be used.

First a form category must be created.

Form category code	Description	Display order	
Contains: ▼	Contains: ▼	Equals: ▼	Contains: ▼
4	Diagnostic Report	4	Y
1	Exam	1	Y
2	Label	2	Y
3	Questionnaire	3	Y
* Click here to add a new row			

Figure 4.20 – Creating Form Category

Open the Forms and Label editor and add the form. The form must first exist on the report server

form	description	active	form category
/QE Current/Forms/Diagnostic Templates/SampleDiagnosticReport	Report	Y	Diagnostic Report
/QE Current/Forms/Exams/CT History Sheet	CT History Sheet	Y	Exam
/QE Current/Forms/Exams/Exam Form	Exam Form	Y	Exam
/QE Current/Forms/Exams/IV Contrast Consent	IV Contrast Consent	Y	Exam
/QE Current/Forms/Exams/Medicare Questionnaire	Medicare Questionnaire	Y	Exam
/QE Current/Forms/Exams/Patient Registration	Patient Registration	Y	Exam
/QE Current/Forms/Exams/Payment Receipt	Payment Subreport	Y	Exam
/QE Current/Forms/Exams/Stat Results Form	Stat Prelim Form	Y	Exam
/QE Current/Forms/Exams/Thyroid Ultrasound History Sheet Page 1	Thyroid Ultrasound History Sheet Page 1	Y	Exam
/QE Current/Forms/Exams/Thyroid Ultrasound Worksheet Page 2	Thyroid Ultrasound Worksheet Page 2	Y	Exam
/QE Current/Forms/Label/Mailing Address Label	Mailing Address Label	Y	Label
/QE Current/Forms/Receipt/Payment Receipt	Created this one today	Y	Exam
* Click here to add a new row			

name	description	active	stat	exam	form	action	carrier	carrier type	modality type	procedure	gender	practice	bir
Contains: ▼	Contains: ▼	C... ▼	Contains: ▼										
* The Report	The Report	Y	N		(none)	(all)		(all)	(-)	(-)	(all)	(all)	(all)
* Click here to add a new row													

Figure 4.21 – Creating Diagnostic Report Form

NOTE: Although this functionality has been added QE has not been successful in getting the report form to be applied to only a particular Modality or Procedure. As a result when a report template exists and specified from Forms and Label lookup editor, all studies will use this report template. Defect 608 has been logged.

Diagnostic – Note to Radiologist

Note to Radiologist has been added in this build. Utilizing the pre-existing “Transcription Notes” data pane in the reporting data window, a checkbox was added. When checked it marks the notes are meant for the radiologist to review. Also when this checkbox is selected the “Assign to:” and Assign to WL:” are disabled.

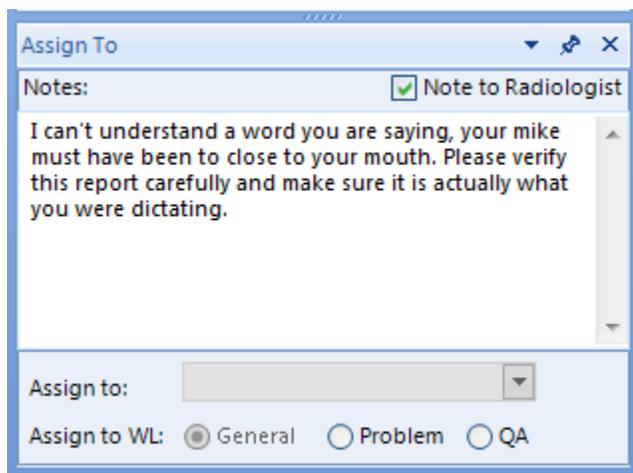


Figure 4.22 – Note to Radiologist selecting, disabling Assign to and Assign to WL

When the transcriptionist submits this study with “Note to Radiologist” checked, the Radiologist must acknowledge the note before the study can be signed off.

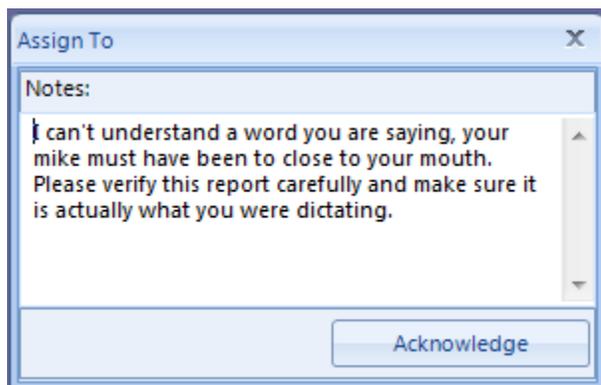


Figure 4.23 – Note to Radiologist – Note to be acknowledged.

The Radiologist can choose to re-dictate, edit report, or edit data window fields without having to acknowledge the “Note to Radiologist”. If the exam is moved to a status of Dictated or Report Drafted, the flag for “Note to Radiologist” is retained. The radiologist still has to acknowledge

the note before it can be signed. If the exam status was changed to Report Drafted by a radiologist, the transcriptionist can remove the “Note to Radiologist” flag and the exam will no longer have to be acknowledged by the Radiologist.

If the Radiologist attempts to sign off a report that has not been acknowledged, they will be presented with a confirmatory message that provides the option to acknowledge and sign off, or select No and return to the data window.

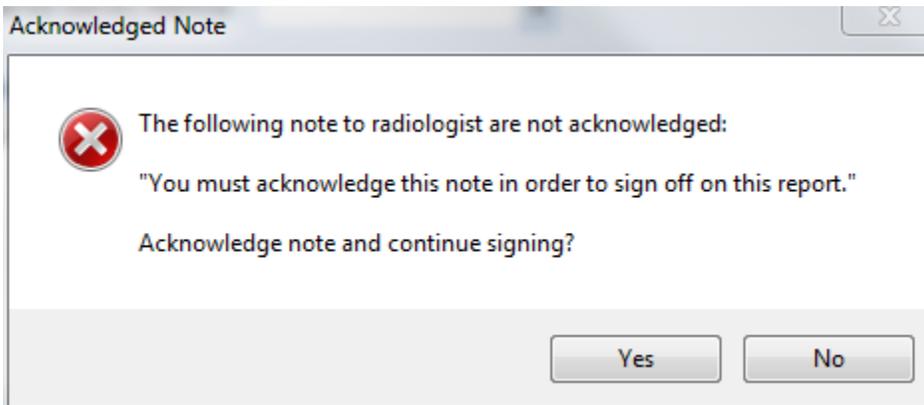


Figure 4.24 – Confirmation of signing before acknowledging Note To Radiologist

Toggle States for Dictation Buttons

A new dictation control has been added to the Dictate and Create Report windows and along with the new control the buttons in use will be lit to easily identify the current state. The buttons will light up in a blue color, with the exception of the record button which will be red. When no buttons are selected from either the Speechmike, or the dictation control, the stop button will be lit blue.



Figure 4.25 – Dictation control in a stopped state



Figure 4.26 – Dictation control in record state

Film Image Request (preliminary)

In the last sprint, Film Image Request was started but only included a data window. In build 1.22 additional functions have been added. The feature is not complete and a few outstanding bugs have been logged against this feature during Sprint 22 and can be seen in Section 5 of this document.

The request for images screen now includes a study list and an image request history list. The study list includes all studies that this request is being generated for. A user can check or uncheck studies that they do not want to request copies of images for.

The image request history list shows a list of requests for the “selected” study in the study list. Note this is “selected” or the “highlighted” row and not necessarily the “checked” row. The user now has the ability to see if there is already an existing request before create a new request.

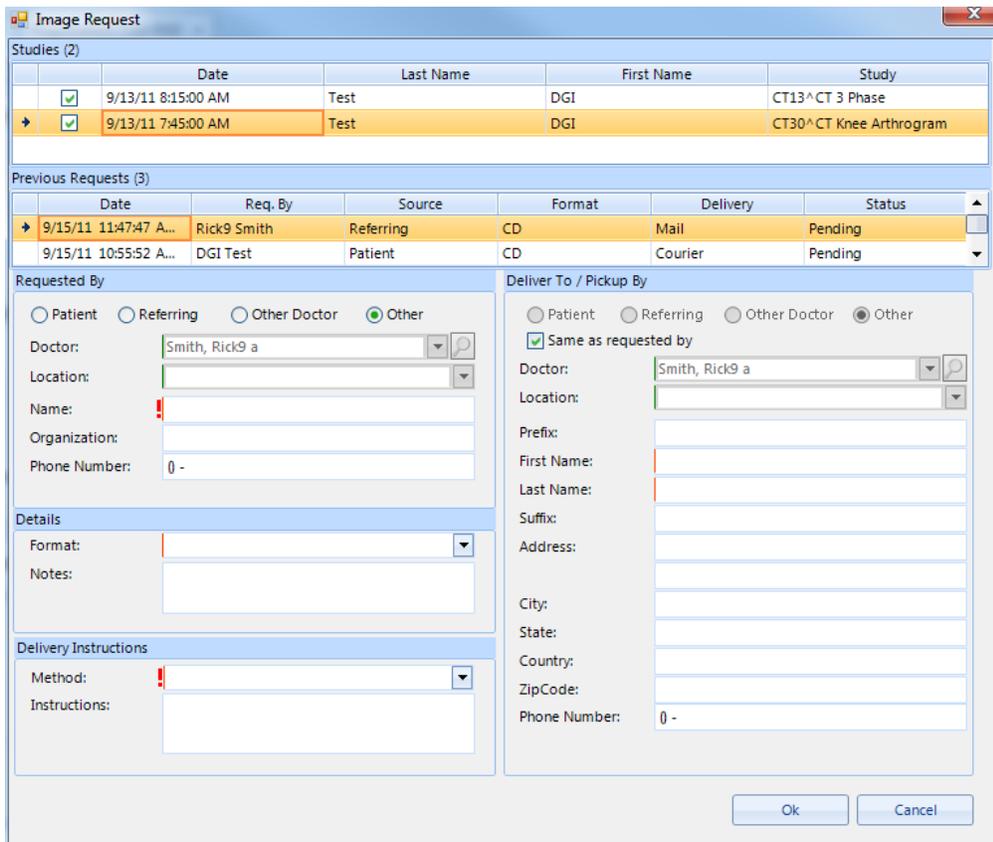


Figure 4.27 – Image Request data window

Also, on this request form, a new radio button was added to allow the user to choose another doctor from the rRIS personnel database. This button behaves similarly to the “referring” radio button, but now the user can select another doctor instead of the referring.

This request form has the ability to have the requestor different from the delivery to. By default, the form behaves as if the delivery to is the same as the requestor. However, we can have the deliver to person different by un-checking the “Same as requested by” check box.

An “Image Request” tab page was added to the registration screen. This tab shows a list of image requests for the studies included in this registration process. From here, the user can choose to “Delete” image requests that are “New”. They will not be able to delete image requests that have been saved to the db. This will have to be done via the Image Request Worklist – Edit Request function.

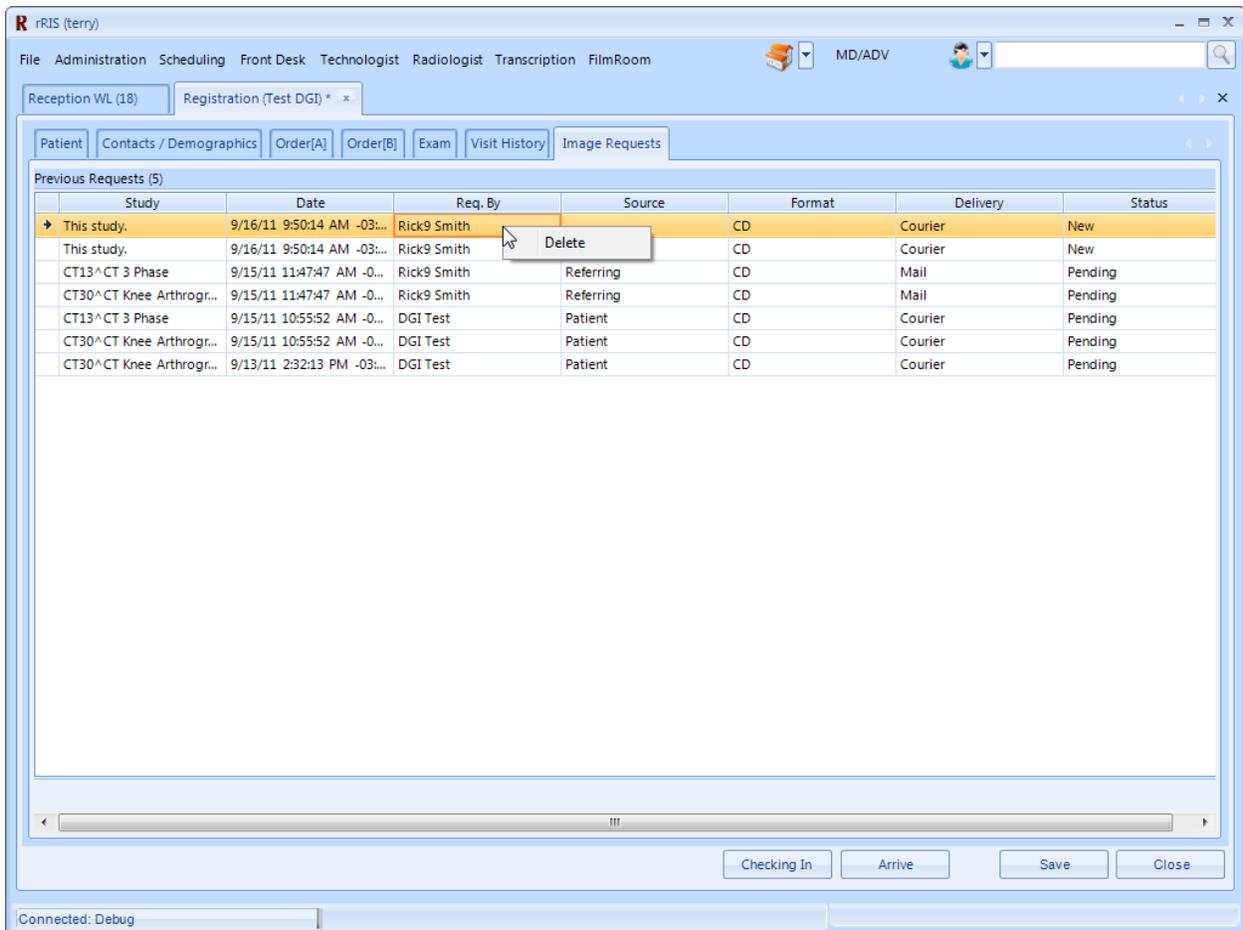


Figure 4.28 – New tab “Image Request” for Registration

The film request worklist now contains all images requests where the examination status is not “Scheduled” and the image request status is not “Cancelled” or “Completed”.

From the “Film Request” worklist, we can “Edit” an image request. This opens the “Request Copies” content form.

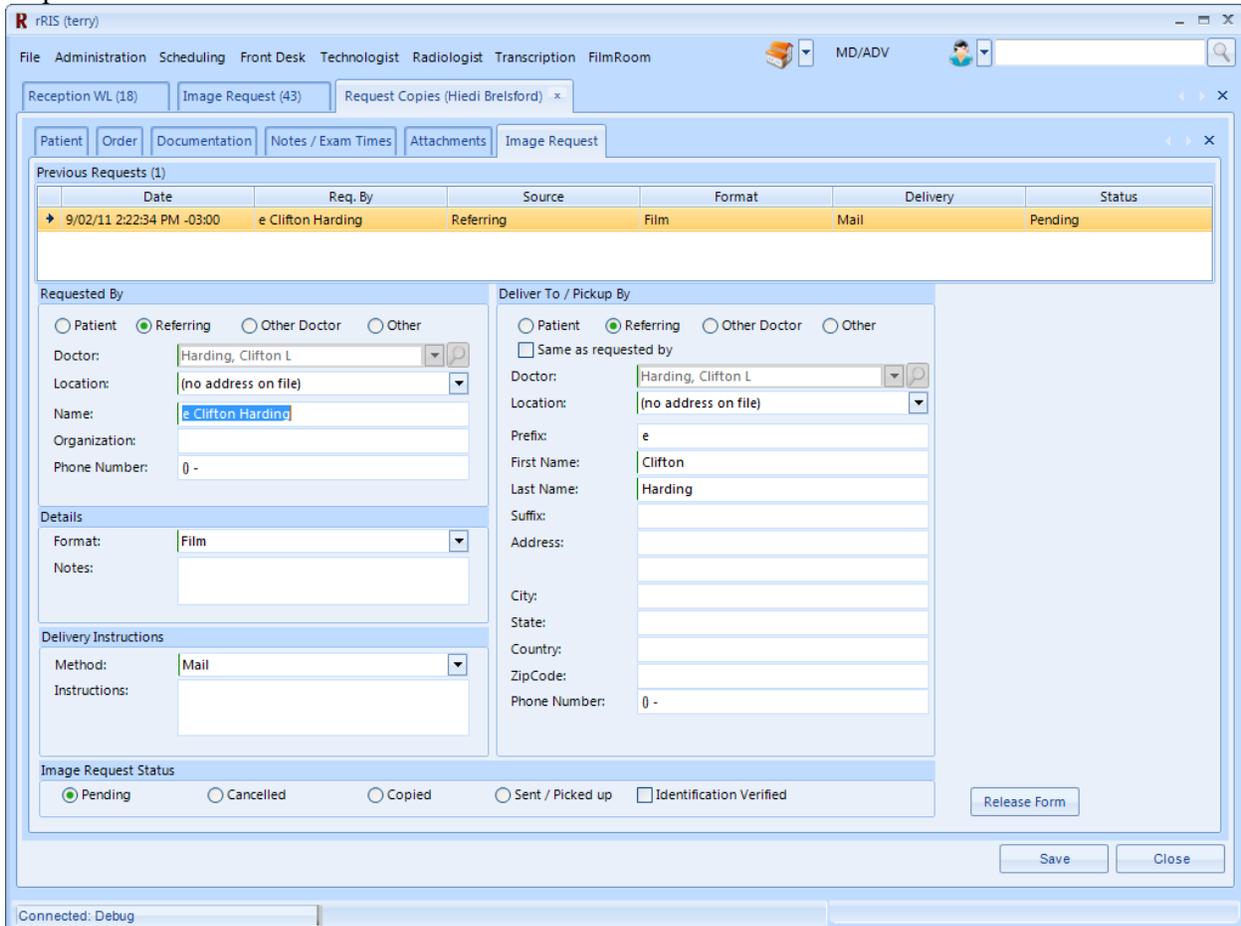


Figure 4.29 – Edit Image Request

Here the user can change any data element on the request and/or change it status. Changing the status to “Cancelled” or “Send / Picked up” will remove the item from the worklist. This form also includes the request history for this study.

5. Known Limitations

Bugs, Suggested Features, and Support Issues are tracked in a web based system called Redmine. The following is a snapshot of the issues found in Build 1.22.

#	Status	Subject	Category	Target version
607	New	Disbriute report - OK button enable with incomplete fax field	Thick Client GUI	1.22
606	New	Distribute Report - Selecting "Other" radio button from Physician will copy the Physician name to other text box	Thick Client GUI	1.22
605	New	Cannot remove some practices in Personnel editor	Admin Tools	1.22
604	New	Confirmation message for rejecting patient merge	Thick Client GUI	1.22
603	New	Add patient > Search returns existing patient and throws error	Thick Client GUI	1.22
602	New	My Dictated By Date worklist has duplicate column	Thick Client GUI	1.22
601	New	Document Distribution > Destination does not change to Fax	Thick Client GUI	1.22
600	New	Error scheduling order merging on patient search from outside order	Web Services/DB	1.22
599	Resolved	Patient merge must consider "Issuer of ID" as MRN are only unique if Issuer is the same	Thick Client GUI	1.22
598	New	Configure > Report Template > Selecting practice that does not have "cds_object_id" returns error	Web Services/DB	1.22
597	New	rRIS google search not working	Thick Client GUI	1.22
596	New	Dictate > Template Browser list cannot be expanded to see complete template name	Thick Client GUI	1.22
595	New	Request Image - MainApp error returned requesting image from Report Drafted work list.	Thick Client GUI	1.22
594	New	Request images from IVT work list throws error	Thick Client GUI	1.22
593	New	Edit image request workflow issue	Thick Client GUI	1.22
592	Resolved	Error message pop up can be hidden behind application	Thick Client GUI	1.22
591	New	Error replacing exteranl order with existing patient	Thick Client GUI	1.22
590	Resolved	Attempt to edit an order that is locked for scheduling returns error	Thick Client GUI	1.22
589	Resolved	Creating outside read that has laterality is not carried to Exam done.	Thick Client GUI	1.22
588	New	User is able to request images on order. Message returned is not user friendly	Thick Client GUI	1.22
587	New	Resuming a suspended study does present message with options to continue	Thick Client GUI	1.22
586	New	Cannot access "Closed Rooms Reschedule" work list if it has data.	Web Services/DB	1.22

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585	Resolved	Exam done work list Changes sort order when refreshed	Thick Client GUI	1.22
584	New	Dictation is not selecting the next patient in the work list.	Thick Client GUI	1.22
583	New	Exception thrown trying to access Unknown Referring work list.	Web Services/DB	1.22
582	New	Error returned trying to reschedule from appointment book	Thick Client GUI	1.22
581	New	Dictate > Report history > Add remove buttons > Names to be changed	Thick Client GUI	1.22
580	Resolved	Edit patient > returns error(s)	Thin Client GUI	1.22
579	New	IVT PreCert column does not update	Thick Client GUI	1.22
578	Resolved	Cannot dictate / diagnose or create / edit reports	Thick Client GUI	1.22
576	Resolved	Personnel > Edit User > removing resource types, no users can log in.	Web Services/DB	1.22
575	Resolved	Modality duration override ignored if the duration override is less than procedures default time	Thick Client GUI	1.22
574	Resolved	Schedule order > Remove procedure will throw error.	Thick Client GUI	1.22
573	New	Order can be created without Laterality when it is required.	Thick Client GUI	1.22
572	Resolved	Exception on reschedule	Thick Client GUI	1.22
571	New	Occasionally receive error attempting to perform exam	Thick Client GUI	1.22
570	New	Image Request	Thick Client GUI	1.22
569	Resolved	Cannot create new user in Personnel	Thick Client GUI	1.22
568	New	Cannot request copies of images from patient folder	Thick Client GUI	1.22
567	Resolved	User can check both Outside read flags	Thick Client GUI	1.22
566	Resolved	No Report Required flag	Thick Client GUI	1.22
565	New	Disallow closing pending signature work list still has "X" on the tab page	Thick Client GUI	1.22
608	New	Diagnostic Reporting Forms - assign to modality, procedure, etc... not working	Admin Tools	1.22