User Release Notes

for eRAD RIS
Version 2
Build 42.1

Table of Contents

1. Purpose

This document describes some of the new features and changes implemented in eRAD RIS as of the end of Sprint 42.1 and subsequent server releases. This version of eRAD RIS is referred to as Build 2.42.1.

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 RIS management team.

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 2.42.1 is considered a new core release of the application and will require a reinstallation of eRAD RIS. 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 Access Strings and Configuration Settings 42.1

Setting Placeholder	Setting	Default	Purpose / Controls Access to
Access string / User Group Permission tables	Config.AllowMModalConfig	None	Allows users access to turning on M*Modal workflow for themselves or other users if the current user has admin access
Access string / User Group Permission tables	Config.AllowPowerScribeConfig	None	Allows users access to turning on PowerScribe workflow for themselves or other users if the current user has admin access
Access string / User Group Permission tables	PowerScribe360.AllowAutofeed	None	Allows users access to the PowerScribe autofeed next study functionality
Access string / User Group Permission tables	PowerScribe360.Enable	Full	Controls Access to the PowerScribe 360 menu item. Under this menu item are 2 options - enable and disable .When set to Disabled messages will not be sent to Powerscribe 360 via API integration
Access string / User Group Permission tables	Clinical.SetMarkAsReadFlag	None	Allows access to right click menu to Mark As Read or Unmark As Read
SystemConfig lookup	LimitOpenReportingWithPowerscribeCount	0	Determines the number of reporting windows that can be opened at one time by a given user with Powerscribe integration. 0 or negative values result in no defined limit.

New access strings from 42.0.3

Setting Placeholder	Setting	Default	Purpose / Controls Access to
Ris.exe.config	<add key="RowLevelCacheDataSetNamesCSV" value="ProcedureCode,TemplateMacro,Indication"/> **Changes to** <!--<add key="RowLevelCacheDataSetNamesCSV" value="ProcedureCode,TemplateMacro,Indication"/> -->		The setting has resulted in undesired results of possible slowness, depending on the lookup table, and possibly additional bugs. Because of this, we are requesting that all sites comment out this line in the ris.exe.config table.

New access strings from 42.0.10

Setting Placeholder	Setting	Default	Purpose / Controls Access to
Ris.exe.config	<add key="EnableHighPriorityLookupStrategy" value="true"/>		New setting added. The High Priority Lookup is different by role. If someone opens scheduling (or appointmentbook), we add Modality, ProcedureCode, AvailabilityTemplate, and ScheduleGroup to the High Priority List. If someone opens Reporting or Transcription, we add QualityReviewDistribution to the High Priority List
Ris.exe.config	<add key="LookupTableTimeToLiveInMinutes" value="5"/> **Changes to** <add key="LookupTableTimeToLiveInMinutes" value="60"/>		The change **only applies for systems that have a value of less than 60**. For example: Change the value of 5 to 60. Since the Time to Live will be increased to 60 minutes, the cache will be updated every 60 minutes if changes were made.

5. New Features and Enhancements

Reporting – Reporting Mode User Preference option added.

There is an additional user preference accessible from the administrative personnel area and also in the User Preferences, to turn off embedded reporting and turn on PowerScribe reporting. The new Reporting Integration user preference is set up in the User Preference on the General tab under the Workflow Options section and is labeled as "Reporting mode". The preference is set with a drop down list.
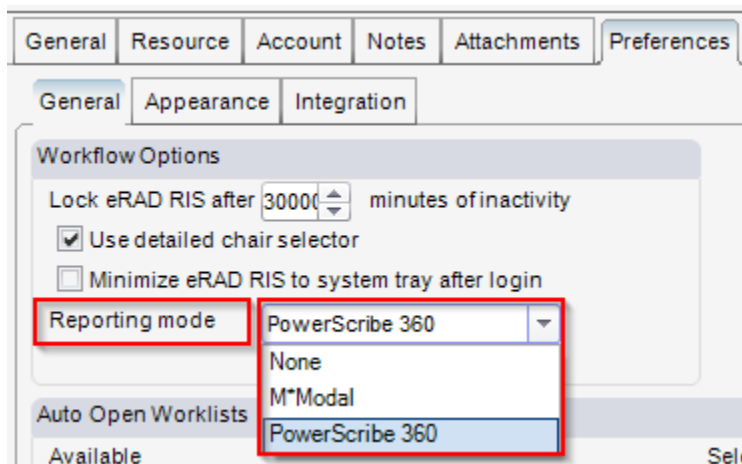
Figure 5.1 – Reporting mode selection dropdown list

The available reporting integration options available are described below:

None

This mode will disable the embedded or closely integrated reporting solutions. Radiologist worklists and screens do exist but do not include a report editor, dictation control or any other tool windows that would otherwise interact or depend on the report or the dictation existing within RIS.

If PACS integration is enabled, this will remain. It is possible in *None* mode to have PACS drive a third party reporting solution. However RIS will not communicate directly with such reporting solution.

*M*Modal*

The *M*Modal* mode will use the traditional eRad RIS embedded reporting solution with M*Modal.

A new access string named "**Config.AllowMModalConfig**" controls access to the M*Modal option in the Reporting Mode list box. The default value for this access string is None.

PowerScribe

The PowerScribe mode will enable system integration with PowerScribe 360s reporting solution. This option will allow for reporting to be done externally with PowerScribe 360 however will support direct application communication/interaction between eRad RIS and PowerScribe 360.

An access string named "**Config.AllowPowerScribeConfig**" has been added for this preference with a default value of 'None'. This ensures only admins have access to enable/disable the preference, or users who have access via this could also enable/disable this preference for themselves.

Reporting – Non Essential View menu items removed from Reporting window when user is not in M*Modal mode.

While a user is working in the Reporting window and is in "PowerScribe" mode or "None" mode, the view menu options will only display relevant patient folder tool windows. "Templates", "Macros", and "Fields" are no longer available to the user. These options are still available for an M*Modal user.
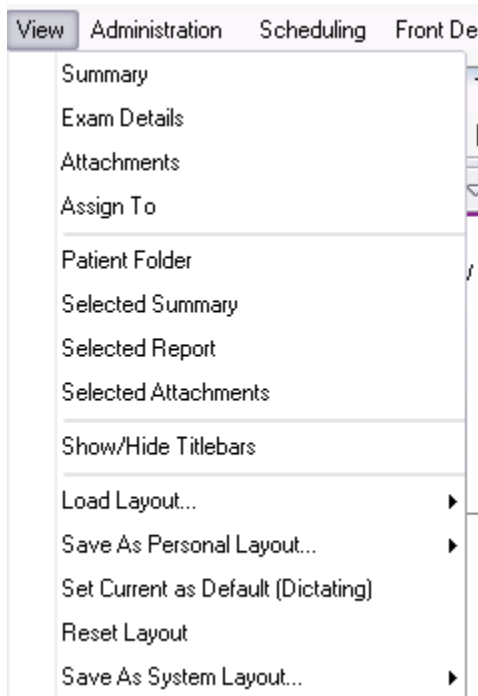

Figure 5.2 – Reporting View menu when PowerScribe or None mode is enabled

Reporting – Non-essential Tool windows removed from the PowerScribe Reporting window

While a user is working in the Reporting window and is in "PowerScribe" mode or "None" mode, the non-essential tool windows will not be displayed. The tool windows removed includes "Templates", "Macros", and "Fields".
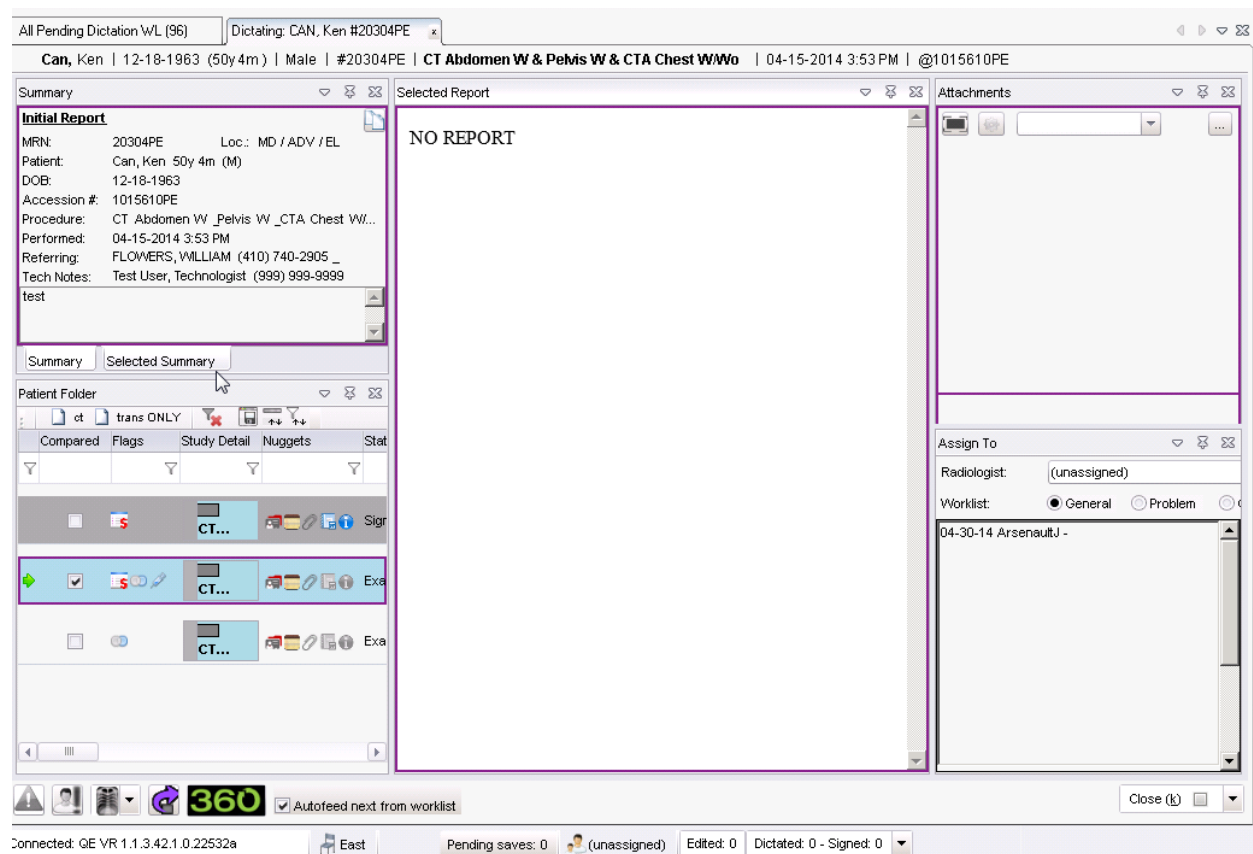

Figure 5.3 – Reporting window displaying only the essential tool windows.

Reporting – BI-RADS control disabled for Reporting Integration Type that is not M*Modal.

The BI-RADs control is no longer available for non M*Modal reporting integration types. The control now is hidden and disabled.

Reporting – SpeechMike - ability to bypass activation of the speech mike

If the user is not in M*Modal mode, the speech mike initialization routines will be bypassed, leaving the speech mike non-functional other than as an audio input/output device as configured in Windows.

Reporting – Report Recovery disabled for Reporting Integration Type that is not M*Modal.

For M*Modal ReportIntegrationType you can enable autosave on your user preference, and the feature will be available to you. Autosave/report recovery work flow does not run if you are not using M_MODAL as your ReportingIntegrationType. Now we have created a convenience method for the system to use which tells the system whether report recovery is enabled. It checks the ReportingInterpertationType first, if not M_MODAL then the recovery feature is disabled regardless of user preference for autosaving.
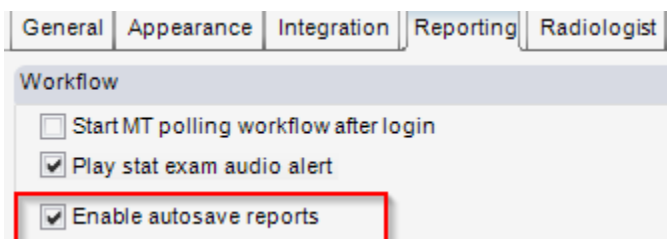

Figure 5.4 – Enable autosave reports from User Preferences

Reporting – "CDS Management Console" option removed when not in M*Modal mode.

The system currently relies on an MModal connection for radiologists. We need to be able to open the dictate screen cleanly without prompts or errors and without CDS configuration values present in the system config table.

The ability to launch the application and open dictate screen without CDS system configuration variables is now available. The "CDS Management Console" option in the "Administration" menu is now hidden when not in M*Modal mode.
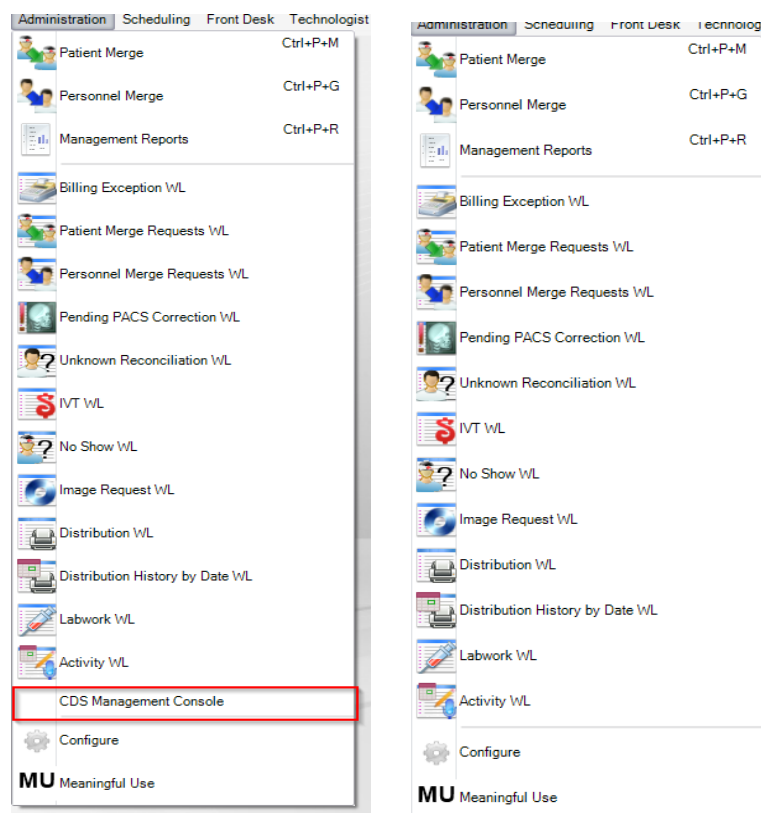

Figure 5.5 - Administration menu with and without M*Modal enabled

Reporting – Report History - ability to support non M*Modal reporting

If you are using reporting integration mode that is not M*Modal or you are using M*Modal but looking to preview a report that was not created via M*Modal integration, the report history window will load an HTML version of the report. This differs from M*Modal integration that loads the full editor and dictation control in read only modes.
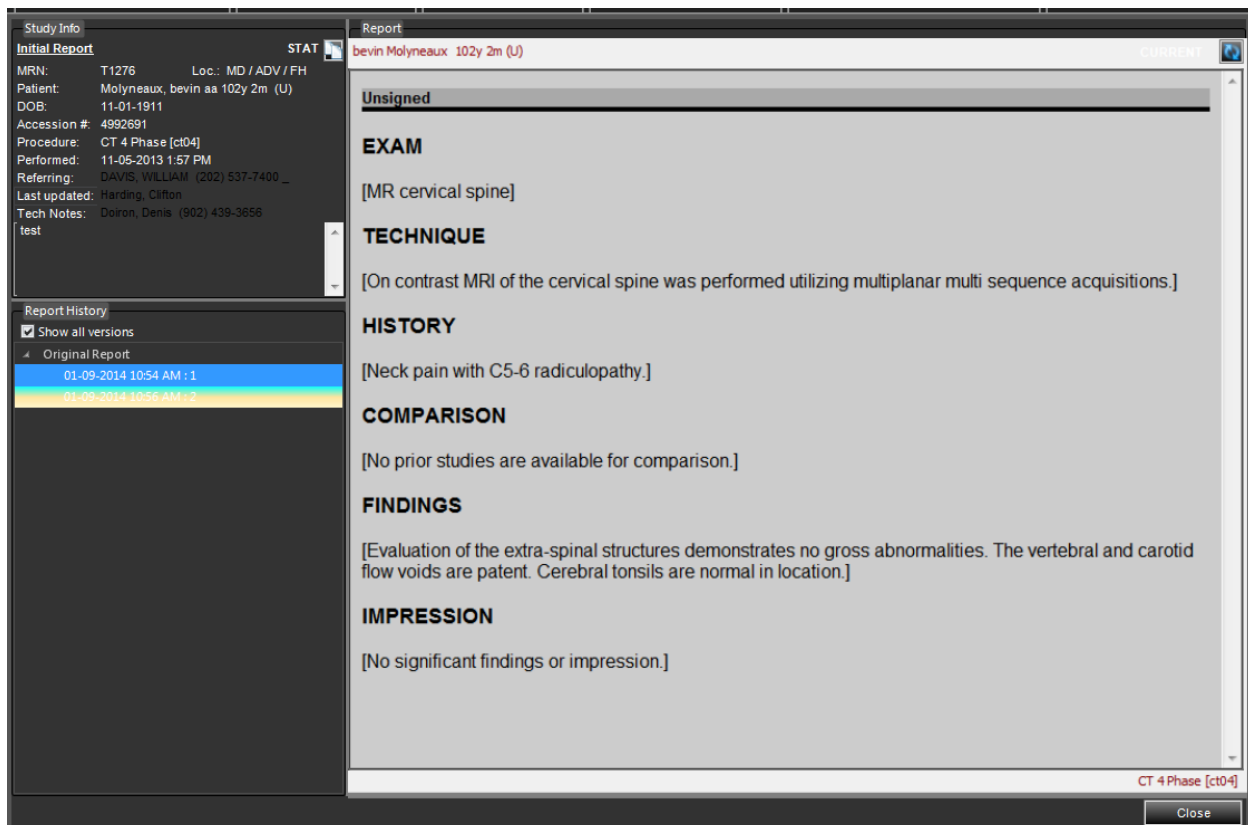

Figure 5.6 – HTML version of the report without the audio components.

Reporting – Added Powerscribe 360 to the available Interpretation Types.

Powerscribe360 was added to the available InterpretationTypes in the s_interpretation_type database table as well as the InterpretationTypes enumeration type within the client code.

What does this mean? Previous to Build 42.1 we had to Interpretation Types of Interactive and Batch. These interpretation types were assigned to studies that were dictated on in eRAD RIS using the M*Modal reporting solution. The interpretation type assigned depended on the users dictation type setting (if they had the user preference "Enable Interactive" selected or not)

With the introduction of PowerScribe 360 as a reporting solution to be used with eRAD RIS we created a new interpretation type of PowerScribe 360. If the user has a Reporting mode of PowerScribe 360 and they action a study in PowerScribe 360, the study will be given an interpretation type of PowerScribe 360.

During the transition period between the 2 reporting systems, users will have to complete all studies that currently have been reported on using M*Modal and is not in a status of Signed.

Reporting – User prevented from opening a study when interpretation type conflict with current Reporting Mode.

If a user is set up as using "NONE" as his reporting integration, then that user will not be able to open M*Modal or PowerScribe studies. User can only open studies of the same type as their reporting integration mode. If a user tries to open an unsupported study, a message prompt is displayed and the study will abort loading.
When using next workflow, items on the worklist that are not compatible, with the current reporting integration will be skipped.
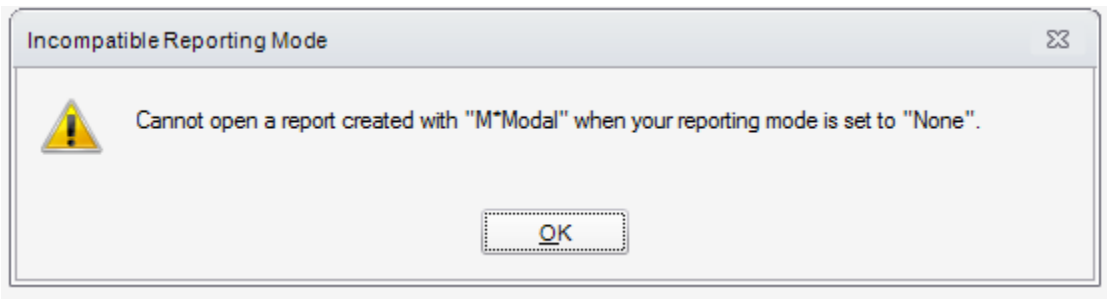

Figure 5.7 –   Message prompt for user trying to open unsupported study.

Any study that has an interpretation type of Interactive or Batch cannot be opened in PowerScribe 360 until the study is in Signed status, in which at that point the user will be able to open for Addendum in PowerScribe 360.

If a PowerScribe 360 user attempts to open a study that is not signed and has interpretation type of Interactive or Batch they will receive a message.
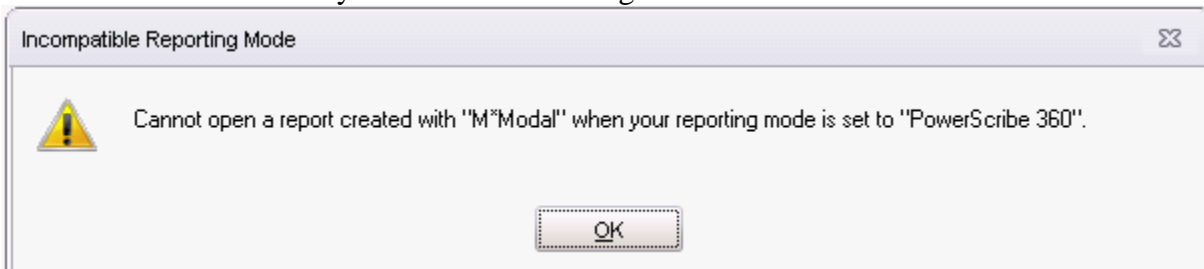

Figure 5.8 – Message to PowerScribe 360 users from mismatched interpretation type

For users that will continue to use M*Modal and also for previous studies that were actioned in eRAD RIS using the M*Modal reporting option they will assigned an interpretation type of Interactive or Batch, depending on the user's M*Modal dictation option.

As well, M*Modal users are prevented from opening studies in reporting window that have an interpretation type of PowerScribe 360.

Figure 5.9 – Message to M*Modal users from mismatched interpretation type

Reporting – WPR workflow button disabled for Reporting Integration Type that is not M*Modal.

When using non-M_MODAL ReportingIntegrationType, users no longer have the WPR-000 workflow button available to create new reports that do not have an accession number associated with it.

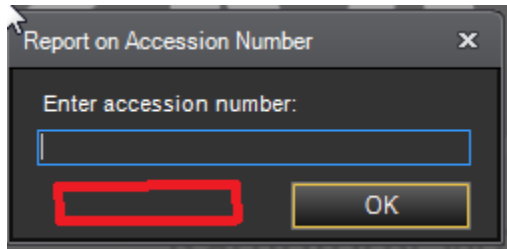Users can still use report on accession to load valid exams.

Figure 5.10 – Updated Report on Accession Number display.

Reporting – Added the ability to drop an XML file to open PowerScribe reports.

The ability to drop an XML file to open PowerScribe reports has been added as a User Preference. The ability to provide a path to write the XML file has also been added. These are available in the Outbound Reporting Section under the Integration tab. This new file will be dropped when we open or focus a reporting tab in RIS. When the file is dropped PowerScribe reads the file and attempts to open the study.
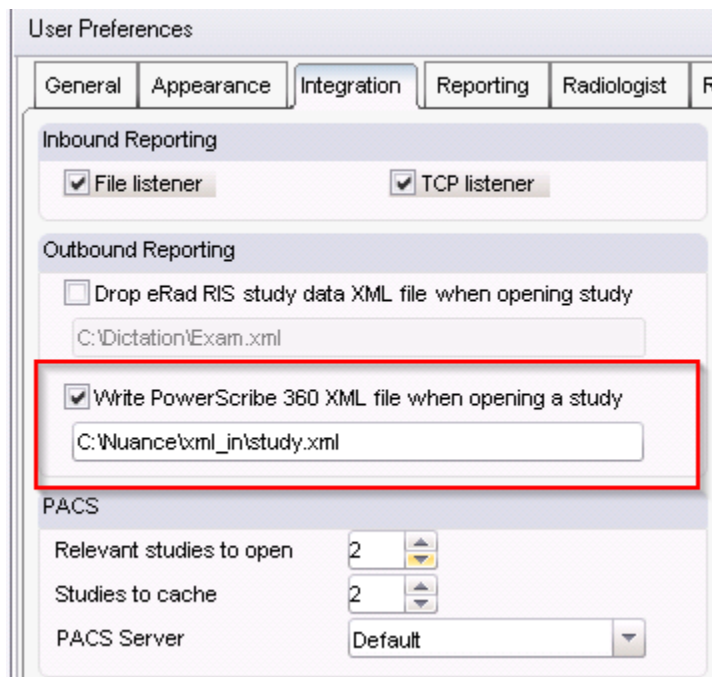
Figure 5.11 – New Integration User Preferences in Outbound Reporting

If these are enabled and configured, when opening exams to dictate, RIS will now save an xml file formatted to be read by PowerScribe to trigger opening a study.

If the study fails to load in PowerScribe there will be a trigger button on the rad screen. This can be pressed to re-drop the XML file and try to get PowerScribe to load the file.

Figure 5.12 –Trigger button to re-drop XML file shown as purple arrow.

Reporting – Reporting Integration None – advance status flag.
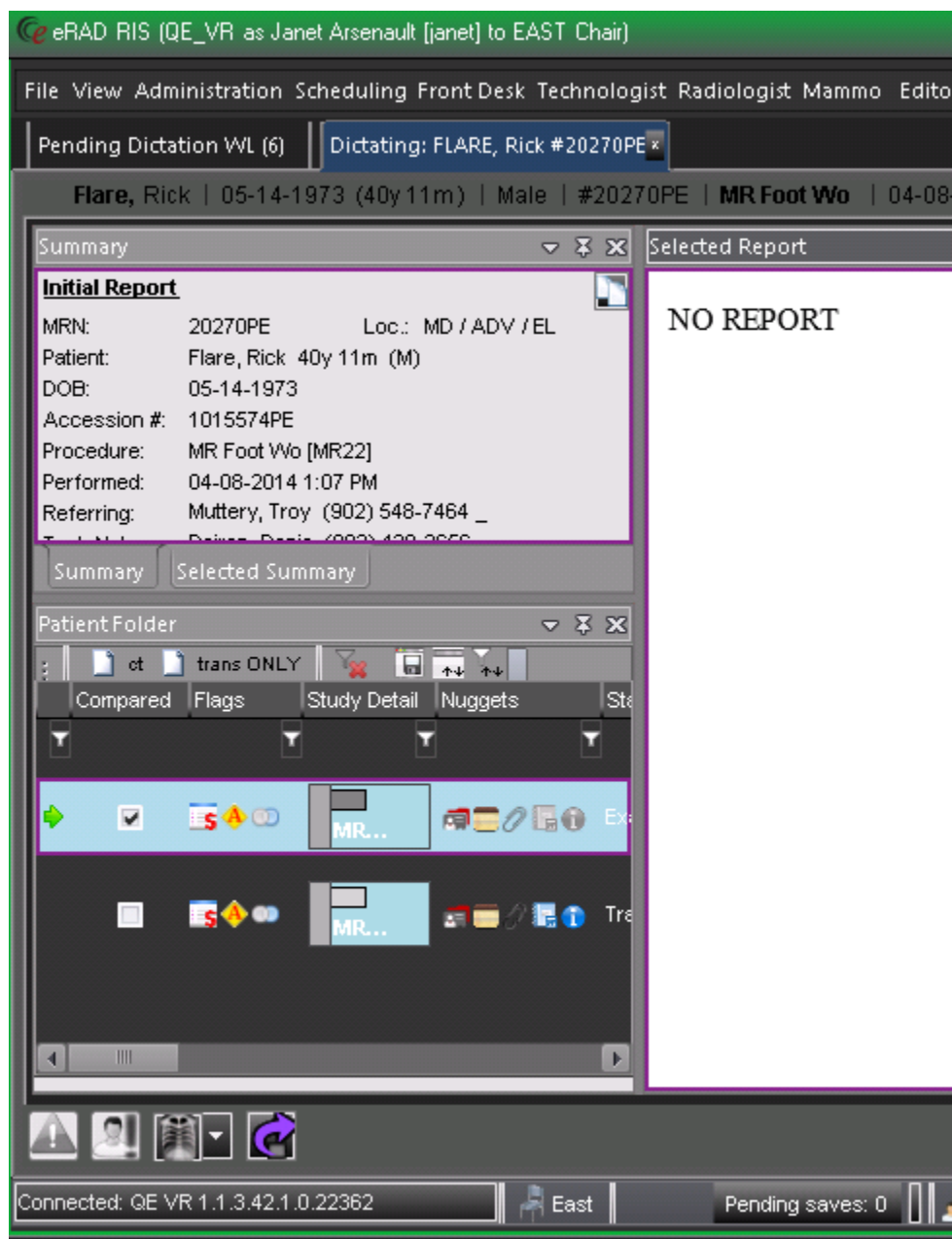
The advanced status flag is called "Marked Read" and is indicated on the work list with a new

flag that will appear under the Flags column in all work lists that have the Flags column. There is also a new column added to the My Pending Dictation, All Pending Dictation, My Pending Signature and All Pending Signature work lists. The column name is "Marked Read" that will display a check mark if the study has the flag applied. This flag is only relevant for reporting integration mode being set to NONE.
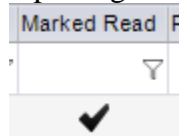

Figure 5.13 – Marked Read column

While using Reporting Mode of NONE (as opposed to MModal or PowerScribe 360), RIS does not advance the status of the exam until the outside reading system tells RIS to do so (such as HL7). This new flag is used to indicate that a study which has been on a pending work list has been actioned on. When set, the flag removes the study in question from the My Pending work lists, however leaves it on the All Pending work lists.

New context menu options have been added to add / remove the Marked As Read flag. These options from the context menu (right click menu) are available on the My Pending Dictation, All Pending Dictation, My Pending Signature, All Pending Signature work lists and the Patient Folder.

The menu option names are "Mark As Read" which is available when the study does not have the flag applied. Once it is applied the context menu option will be 'Unmark As Read". See figures below.
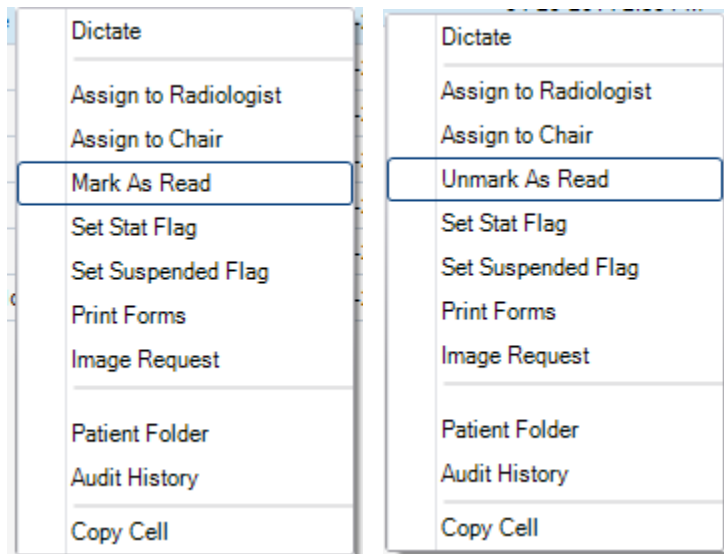
Figure 5.14 – Mark/Unmark As Read context menu options

Access to these new context menu options are controlled by a new access string titled "**Clinical.SetMarkAsReadFlag**" that has a default value of None. User groups will need to have this access string added to the user group permissions to gain access to the menu option.

Reporting – Added the ability to limit the number of reporting windows open.

We now can limit the number of reporting screens that a user can open while using ReportingIntegrationType of PowerScribe 360. There is a new system configuration variable named "**LimitOpenReportingWithPowerscribeCount**" which is to be used by the administrator to set how many reporting windows can be open. The default value for this setting is 0 (zero).

Figure 5.15 – New system config table setting

While using PowerScribe 360 mode, if the user tries to open a new reporting window which would exceed the predefined count, they will be notified to close some tabs before opening a new one.
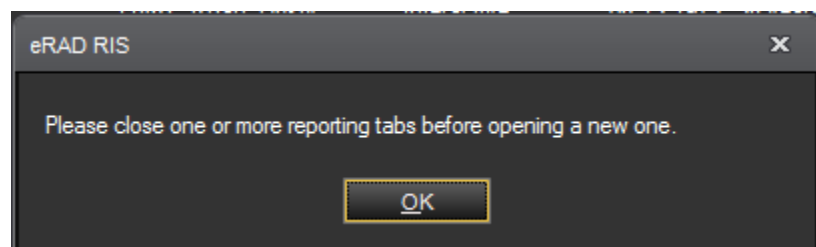

Figure 5.16 – Prompt to notify user they will have to close one or more tabs.

This new setting will override the User Group setting.

<u>As a reminder</u>, the User Group setting value is set in the UserGroup lookup table under the column Maximum Open Tabs.

Figure 5.17 – Usergroup lookup displaying Maximum Open Tabs column

Reporting – Added User Preference Autofeed studies for PowerScribe users.

The new user preference "Autofeed studies from worklist" was added to the Reporting tab under the PowerScribe section, which is only available in the PowerScribe 360 reporting integration mode. This determines if this user wishes to have the next study in their worklist auto-fed after completing a study in PowerScribe.
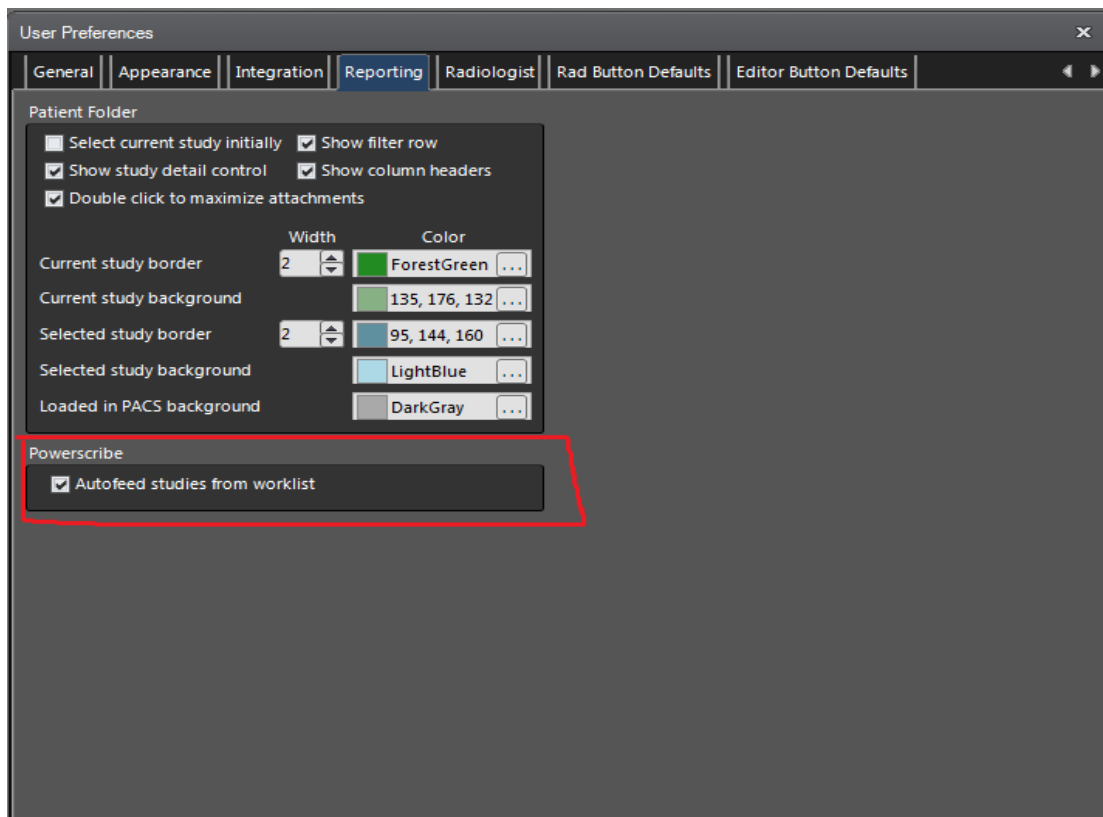
Figure 5.18 – PowerScribe users option to Autofeed studies from worklist.

The user preference also shows up as a check box in lower left corner of reporting screens. So a user can change it mid-way through workflow. The checkbox in the reporting windows is controlled by a new access string titled "**PowerScribe360.AllowAutofeed**". Default for this setting is None. The User Preference is always available
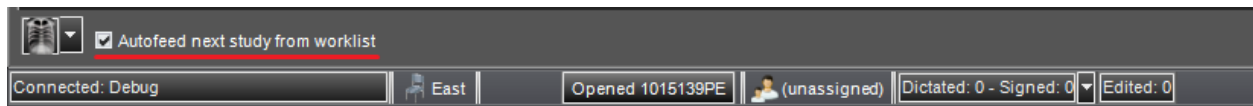
Figure 5.19 – Option to Autofeed studies from reporting screen.

Changing the setting "on the fly" via the check box on the reporting screen does not change the actual user preference. It just adjusts/overrides that setting for the current session. When checked, the preference tells RIS to open the next study in your work list after closing/completing the current study. This is enables a "next" workflow of sorts.

Reporting – Added menu option to Enable or Disable PowerScribe 360.

A new main menu option for PowerScribe 360 has been added that is only displayed when the reporting integration mode is set to PowerScribe 360. The menu item is displayed when the user is logged in using PowerScribe 360. This new menu option will be used to house any PowerScribe 360 specific main menu options in the future. The PowerScribe 360 menu item also has a new access string titled "**PowerScribe360.Enable**" that will control access to the menu item. Default value is Full.
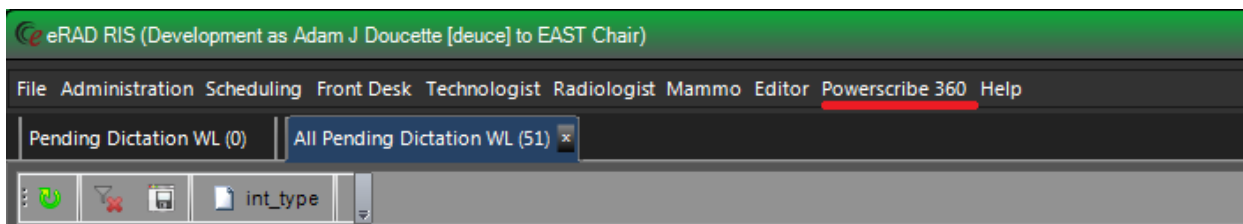
Figure 5.20 – New Menu option for PowerScribe 360 users.

For now it will simply have options for Enable and Disable, which will operate similar to the PACS menu options. By default, each session will begin with the menu item set to Enabled.

Figure 5.21 – Dropdown list options for PowerScribe 360 menu option.
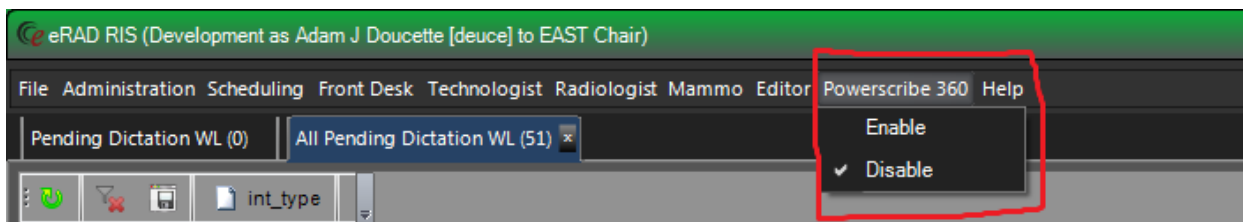
Figure 5.22 –PowerScribe 360 menu option set to Disable.

When PowerScribe 360 is set to Disable, the reporting window will open with the same format and style as it usually does with reporting integration mode set to PowerScribe 360. See image below. However the study is not launched in PowerScribe.
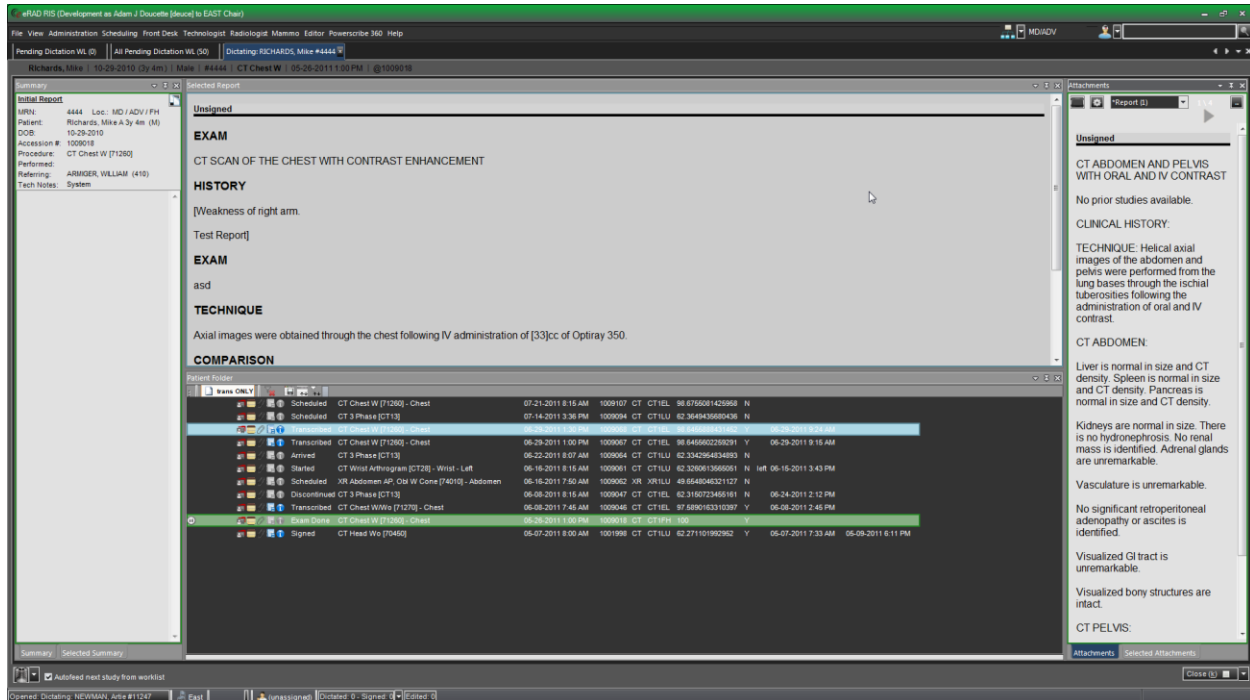
Figure 5.23 – The reporting window view with PowerScribe 360 disabled.

Reporting – Access string added for M*Modal reporting mode.

A new Access String "**Config.AllowMModalConfig**" has been added. This allows users access to turning on M*Modal workflow for themselves or other users if the current user has admin access.
If a user has access, then M*Modal will be a reporting mode available in their user preferences.

Figure 5.24 – Reporting mode list of options including M*Modal.

6. Code Stream

eRAD RIS - Source Code Evolution

Legend:

Light Green = Released software

Gray = Will not be released

Bright Green = Current Release

7. RIS Release Version Numbers

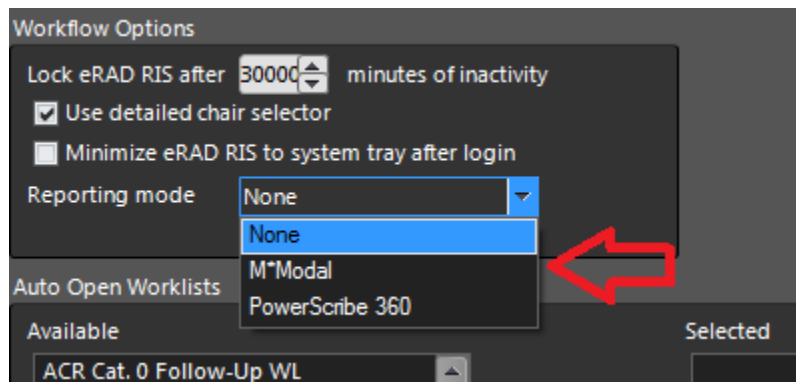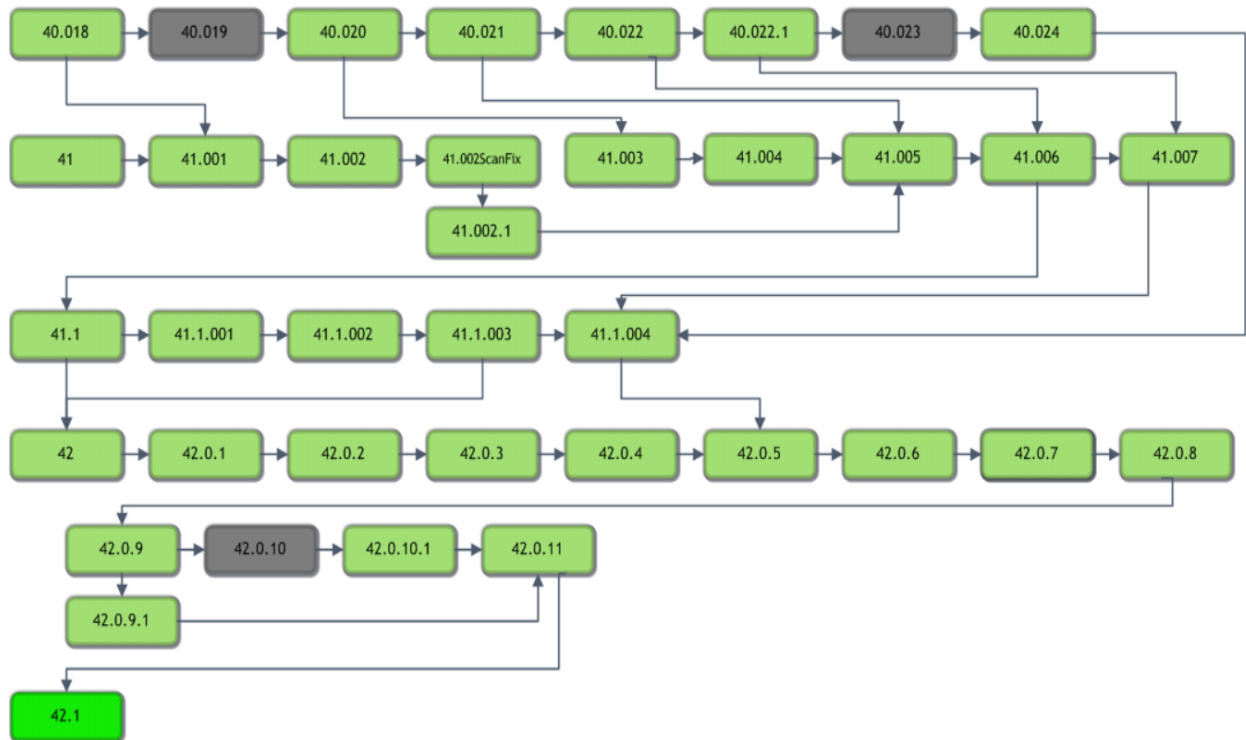| Build	Patch	UI Version	Core Version	WS Version	DB Version	Notes
41	-	1.3.41.19135(3GB)	1.3.41.19135	1.3.41.19135	1.3.41.19135	Full version release
41	1	1.3.41.19256(3GB)	1.3.41.19135	1.3.41.19256	1.3.41.19256	GUI.zip, Web Service and database updates
41	2	1.3.41.19620(3GB)	1.3.41.19135	1.3.41.19620	1.3.41.19346	GUI.zip and Web Service
41	2sf	1.3.41.19620SF(3G)	1.3.41.19135	1.3.41.19620	1.3.41.19346	GUI.zip
41	2.1	1.3.41.20622(3GB)	1.3.41.19135	1.3.41.20617	1.3.41.19346	GUI.zip and Web Service
41	3	1.3.41.20125(3GB)	1.3.41.19135	1.3.41.20171	1.3.41.19346	GUI.zip , Web Service and Recognizer
41	4	1.3.41.20285(3GB)	1.3.41.19135	1.3.41.20171	1.3.41.19346	GUI.zip
41	5	1.3.41.20809(3GB)	1.3.41.20708	1.3.41.20792	1.3.41.20738	GUI.zip, Core install, Web Service and DB updates
41	6	1.3.41.20912(3GB)	1.3.41.20708	1.3.41.20792	1.3.41.20738	GUI.zip
41	7	1.3.41.21963(3GB)	1.3.41.20708	1.3.41.20792	1.3.41.20738	GUI.zip
41.1	-	1.3.41.20918(3GB)	1.3.41.20791	1.3.41.20918	1.3.41.20739	GUI.zip
41.1	1	1.3.41.20987(3GB)	1.3.41.20791	1.3.41.20918	1.3.41.20739	GUI.zip
41.1	2	1.3.41.21162(3GB)	1.3.41.20791	1.3.41.21162	1.3.41.21150	GUI.zip, WS and DB updates
41.1	3	1.3.41.21264(3GB)	1.3.41.20791	1.3.41.21162	1.3.41.21150	GUI.zip
41.1	4	1.3.41.21931(3GB)	1.3.41.20791	1.3.41.21162	1.3.41.21150	GUI.zip
42	-	2.42.0.0.21261(3GB)	2.42.0.0.21261	2.42.0.0.21261	2.42.0.0.21187	Full version release
	1	2.42.0.1.21597	2.42.0.0.21261	2.42.0.1.21597	2.42.0.0.21187	GUI and Web Service updates
	2	2.42.0.2.21702	2.42.0.0.21261	2.42.0.2.21702	2.42.0.0.21187	GUI and Web Service updates
	3	2.42.0.2.21806	2.42.0.0.21261	2.42.0.2.21806	2.42.0.0.21187	GUI and Web Service updates
	4	2.42.0.2.21862	2.42.0.0.21261	2.42.0.2.21806	2.42.0.4.21870	GUI and Database updates
	5	2.42.0.5.21924	2.42.0.0.21261	2.42.0.2.21806	2.42.0.4.21870	GUI
	6	2.42.0.5.22009	2.42.0.0.21261	2.42.0.5.22009	2.42.0.4.21870	GUI and Web Service updates
	7	2.42.0.7.22090	2.42.0.0.21261	2.42.0.6.22009	2.42.0.4.21870	GUI.zip updates
	8	2.42.0.7.22090	2.42.0.7.22150	2.42.0.6.22009	2.42.0.4.21870	Web Service updates
	9	2.42.0.9.22203	2.42.0.0.21261	2.42.0.9.22203	2.42.0.4.21870	GUI and Web Service updates
	9.1	2.42.0.9.22203	2.42.0.0.21261	2.42.0.9.22203	2.42.0.4.21870	Web Service updates
	10	2.42.0.10.22232	2.42.0.0.21261	2.42.0.9.22203	2.42.0.4.21870	GUI.zip updates
	10.1	2.42.0.10.22420	2.42.0.0.21261	2.42.0.9.22203	2.42.0.4.21870	GUI.zip updates
	11	2.42.0.11.22495a	2.42.0.0.21261	2.42.0.11.22471	2.42.0.11.22527	GUI.zip, Web service and database updates
42.1	**-**	**2.42.1.0.22744(3GB)**	**2.42.0.0.21261**	**2.42.1.0.22744**	**2.42.1.0.22736**	**GUI.zip, Web Service, DB updates and Management Report Deployment**

8. Resolved Defects

Bugs Suggested Features and Support Issues resolved in build 2.42.1. The extract is taken from Redmine bug tracking system and only displays defects resolved in 2.42.1.

Bug #	Priority	Subject	Category	Found Version
6426	Immediate	Faxes failing to submit to fax queue	Document Distribution	1.42
6427	Urgent	Medications table displaying incorrectly	Thick Client GUI	1.42
6148	Urgent	Reporting - users may not get properly assigned default templates	Radiology Reporting	2.42
6567	High	ReportTemplateEditor not being cleaned up with ReportingRadiologist closes	Radiology Reporting	2.42.0.9
6446	High	_max_interpretation_version does not update when an addendum is deleted	Radiology Reporting	2.42
6390	High	HL7 report signed not removing addendum flag	HL7	2.42.0.9
6213	High	Reporting - cannot reopen suspended studies (user id case problem)	Radiology Reporting	1.42
6114	High	Hidden text in editor counts as text when validating fields and section.	Radiology Reporting	1.4
6270	Normal	Reporting - images not loading automatically when user preference use dictating layout when signing supervised reports is set	Radiology Reporting	2.42
6210	Normal	Reporting - Next Section Or Field - if you have only one field in the template, it stops checking for sections after reaching field		1.41
6202	Normal	When showing message boxes we should be passing in the parent control.	Thick Client GUI	1.4
6184	Normal	Reporting - delete dictation and report doesn't remove suspended data	Web Services/DB	1.42
6027	Normal	PersonHyperlink for referring is not visible after hitting one with a null address row	Radiology Reporting	1.42
6020	Normal	view images/patient folder button should not be disabled in read only mode	Powerscribe Integration	1.42
6018	Normal	disable critical results in read only	Radiology Reporting	1.42

9. Known Limitations

The following are Bugs Suggested Features and Support Issues found in build 2.42.1. Bugs reported in previous versions are not captured as Known Limitation in this document.

#	Status	Priority	Subject
6574	New	Normal	Worklist Notifications memory leak
6545	In Progress	Normal	Reporting - Access string PowerScribe360.AllowAutofeed doesn't control user preference
6544	New	Normal	Reporting - Access string required to control access to User Preference Reporting Mode.
6538	New	Normal	Reporting - PowerScribe - Limit the number of open dictation tabs - UserGroup - Maximum is not adhered
6537	New	Normal	Reporting - Select Supervising Radiologist window has Unassign button enabled when no-one has been assigned
6467	New	Normal	PACS - disable via menu item will become enabled after user preference or org change
6335	New	Normal	Interactive dictation in suspended status will open in dictate window at start of dictation should be the end
6235	New	Normal	multiple pop ups at the same time can result in wrongly labeled buttons
6530	New	Low	Modality lookup - Logo Override will not accept procedure code number
6524	New	Low	Reporting - None. Close reporting window receive error