

# Server Update

For eRAD RIS  
Version 1.0  
Build 40  
Update 40.019

Due to a few bugs discovered this software release will not be available for installation. The bugs fixes and new features listed in this document will be available in 40.020

**Table of Contents**

1. New Features ..... 3  
    Reporting - Limit or convert special characters in cue names, macros and templates ..... 3  
    Reporting - Ability to map “delete last word” to input devices..... 3  
    Reporting - Ability to map “Redo” or “Undo” to input devices..... 3  
    Reporting - Radiologist edit text color..... 3  
    Reporting - field tooltips staying on top of other screens after displaying ..... 3  
2. Defects Resolved ..... 5  
3. Package Contents ..... 6  
4. Intended Audience ..... 8  
5. Who is affected ..... 8  
6. eRAD RIS Release Version Numbers ..... 9  
7. Installing ..... 10

## 1. New Features

### **Reporting - Limit or convert special characters in cue names, macros and templates**

Conversion of special characters in cue names, macros and templates.

In a template if you have a field with a value in the cue like this "Technique :"

When you save the template and reopen it, the : is converted as follows "Technique %colon%".

This feature does the following, while dictating an exam and you say the words Technique colon, your cursor will be brought to the field that has a value of "Technique %colon%" in the cue.

NOTE: The user preference "Aggressive field navigation" must be checked for this feature to work, after checking this preference, a restart of RIS is required.

### **Reporting - Ability to map “delete last word” to input devices**

Mappings were added to delete last word functionality with keyboard, foot pedal and speechmike buttons.

This is User Preference > Input Device > SpeechMike Button Actions > DeleteWordLeftOfCursor

Known limitation: At some point we were able to delete last word multiple times, then redo each word individually. But if the input devices are set up to perform these actions, the Undo and Redo does nothing after executing this action.

### **Reporting - Ability to map “Redo” and “Undo” to input devices**

Mappings were added for Redo and Undo functionality with keyboard, foot pedal and speechmike buttons.

This is User Preference > Input Device > SpeechMike Button Actions > Redo or Undo

### **Reporting - Radiologist edit text color**

Added the ability to see what text was typed into the report by a radiologist. A new user preference was added to the editor appearance settings in Dictation window “Radiologist Typed Text”. The editor will use the selected color.

### **Reporting - field tooltips staying on top of other screens after displaying**

When you hover the mouse over a field it will display the tooltip popup, this is great. Now when you alt+tab, so that another application comes up on top of the report editor, you will notice the tooltip popup is still there.

## **RADNET, Inc. – eRAD RIS Server Update**

A new user preference was added "Show report field tooltips", which will disable the tooltip feature.

## RADNET, Inc. – eRAD RIS Server Update

### 2. Defects Resolved

Redmine #	Subject	Priority
4857	Wrong document model is loading in template editor	Urgent
4952	Reporting - ability to navigate cued fields without pausing	High
4798	Reporting - 7.82+ Numbering paragraphs creates an unwanted list	High
4740	Reporting - playback is not in order of dictated	High
4717	Sections from incorrect practice loading into template editor	High
3767	Using next field button while dictating (Fisher site visit)	High
1441	Interactive VR - Voice Commands not recognized efficiently	High
5148	Reporting - speech mics 3500 and 3600 showing incorrectly in Help>About	Normal
5048	Reporting - New recognizer for 7.88	Normal
4975	Next field voice command, showing field popup for one field too far	Normal
4961	Reporting - improper capitalization of measurements outside of a field	Normal
4960	Reporting - structured lists splitting when dictating next item in the middle of an existing item	Normal
4959	Reporting - ability to dictate 'next item' without pausing	Normal
4958	Reporting - integrate M*Modal 7.88 release into 40.019 code stream.	Normal
4957	Reporting - negative two views rendering	Normal
4954	Reporting - ability to dictate negative or minus numbers	Normal
4732	Reporting - AudioReplacementEnabled on causes "undo that" to malfunction	Normal
3838	Improve performance of "next field" (CRA site visit)	Normal
3072	Reporting - Not a field exception causing application hang	Normal
2981	M*Modal - select command will not select first or last word in a field	Normal
2520	Reporting - interactive number lists are not consistent	Normal
3840	Unable to dictate "+" into a report (CRA site visit)	Low

### **3. Package Contents**

Files included for this server update:

- 1) GUI ZIP Updates folder contains
  - a) rRIS\_1.3.40.19909(3GB).zip
  
- 2) RIS Service Updates folder contains the following files and 2 subfolders titled config and XSL.
  - a) CDSJobManager.dll
  - b) CDSJobManager.pdb
  - c) CdsLib.dll
  - d) CdsLib.xml
  - e) CdsLib.XmlSerializers.dll
  - f) CommonLib.dll
  - g) CommonLib.pdb
  - h) DDEngine.dll
  - i) DDEngine.pdb
  - j) Interop.FAXCOMEXLib.dll
  - k) Microsoft.Practices.EnterpriseLibrary.Caching.dll
  - l) Microsoft.Practices.EnterpriseLibrary.Caching.pdb
  - m) Microsoft.Practices.EnterpriseLibrary.Common.dll
  - n) Microsoft.Practices.EnterpriseLibrary.Common.pdb
  - o) Microsoft.Practices.EnterpriseLibrary.Logging.dll
  - p) Microsoft.Practices.EnterpriseLibrary.Logging.pdb
  - q) Microsoft.Practices.ServiceLocation.dll
  - r) Microsoft.Practices.ServiceLocation.pdb
  - s) Microsoft.Practices.Unity.dll
  - t) Microsoft.Practices.Unity.Interception.dll
  - u) Microsoft.Practices.Unity.Interception.pdb
  - v) Microsoft.Practices.Unity.pdb
  - w) Microsoft.ReportViewer.Common.dll
  - x) Microsoft.ReportViewer.WinForms.dll
  - y) Microsoft.ReportViewer.WinForms.dll
  - z) Newtonsoft.Json.dll
  - aa) Ninject.dll
  - bb) Ninject.Web.Common.dll
  - cc) Ninject.Web.Common.xml
  - dd) Ninject.xml
  - ee) O2S.Components.PDFRender4NET.dll
  - ff) PDFToImages.exe
  - gg) rRISServices.exe
  - hh) rRISServices.exe.config

## **RADNET, Inc. – eRAD RIS Server Update**

- ii) rRISServices.pdb
- jj) rRISServicesx64.exe
- kk) rRISServicesx64.exe.config
- ll) ScheduledTaskManager.dll
- mm) ScheduledTaskManager.pdb
- nn) SignatureApprovalService.exe
- oo) SignatureApprovalService.pdb
- pp) System.Net.Http.dll
- qq) System.Net.Http.Formatting.dll
- rr) System.Net.Http.WebRequest.dll
- ss) System.Web.dll
- tt) System.Web.Helpers.dll
- uu) System.Web.Helpers.xml
- vv) System.Web.Http.dll
- ww) System.Web.Http.SelfHost.dll
- xx) System.Web.Http.WebHost.dll
- yy) System.Web.Http.WebHost.xml
- zz) System.Web.Mvc.dll
- aaa) System.Web.Mvc.xml
- bbb) System.Web.Optimization.dll
- ccc) System.Web.Providers.dll
- ddd) System.Web.Razor.dll
- eee) System.Web.Razor.xml
- fff) System.Web.WebPages.Deployment.dll
- ggg) System.Web.WebPages.Deployment.xml
- hhh) System.Web.WebPages.dll
- iii) System.Web.WebPages.Razor.dll
- jjj) System.Web.WebPages.Razor.xml
- kkk) System.Web.WebPages.xml
- lll) Tourreau.Gilles.FaxDotNet.dll
- mmm) Tourreau.Gilles.FaxDotNet.pdb
- nnn) Tourreau.Gilles.FaxDotNet.xml
- ooo) WCFService.dll
- ppp) WCFService.pdb
- qqq) WebApi.dll
- rrr) WebApi.pdb
- sss) Wedge.exe
- ttt) Wedge.pdb

The config folder contains the following files:

- a) Applicationsettings.config
- b) Connectionstrings.config
- c) Services.config

## **RADNET, Inc. – eRAD RIS Server Update**

The XSL folder also contains 1 subfolder titled Stylesheets. The following files are contained in the Stylesheets folder

- a) CDAToHTMLCompleteReport.xslt
- b) CDAToHTMLImpressionSection.xslt
- c) CDAToRIS.xslt
- d) CDAToTxt.xslt
- e) DocumentModelReport.xslt
- f) DocumentModelReportAsXml.xslt

3) Recognizer folder contains:

- a) 7~Recognizer.MtiRecognitionUS.Radiology\_Interactive\_v13\_v5\_401.12893.xc
- b) 7~Recognizer.MtiRecognitionUS.Radiology\_Interactive\_v13\_v5\_401.12893-descriptor.xc

### **4. Intended Audience**

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

### **5. Who is affected**

Build 40 installs. This server update must be applied directly to the build 40 core install. Server updates are not cumulative. Any previous server updates must be applied before this one.

## RADNET, Inc. – eRAD RIS Server Update

### 6. eRAD RIS Release Version Numbers

Build	Patch	UI Version	Core Version	WS Version	DB Version	Notes
39	-	1.3.39.15389	1.3.39.15389	1.3.39.15377	1.3.39.15355	Full version release
39	1	1.3.39.16026	1.3.39.15943	1.3.39.15943	1.3.39.15957	Requires Core Install. GUI.zip, Web Service, and Database updates
40	-	1.3.40.16628	1.3.40.16628	1.3.40.16628	1.3.40.16628	Full version release
40	1	1.3.40.16849	1.3.40.16659	1.3.40.16744	1.3.40.16727	GUI.zip, Web service, database updates and SQL Management reporting
40	2	1.3.40.16868	1.3.40.16659	1.3.40.16868	1.3.40.16727	GUI.zip and Web Service
40	3	1.3.40.16868	1.3.40.16659	1.3.40.16868	1.3.40.16727	DB updated only
40	4	1.3.40.16967	1.3.40.16659	1.3.40.16932	1.3.40.16961	GUI.zip, Web service, database updates
40	5	1.3.40.17087	1.3.40.16659	1.3.40.17069	1.3.40.17087	GUI.zip, Web service, database updates
40	6	1.3.40.17146	1.3.40.16659	1.3.40.17146	1.3.40.17146	GUI.zip, Web service, database updates
40	7	1.3.40.17268	1.3.40.16659	1.3.40.17268	1.3.40.17259	GUI.zip, Web service, database updates
40	8	1.3.40.17364	1.3.40.16659	1.3.40.17362	1.3.40.17343	GUI.zip, Web service, database updates
40	9	1.3.40.17370	1.3.40.16659	1.3.40.17370	1.3.40.17370	GUI.zip, Web service, database updates
40	10	1.3.40.17435	1.3.40.16659	1.3.40.17435	1.3.40.17370	<b>64 BIT web service.</b> GUI.zip, Webservice.
40	11	1.3.40.17435	1.3.40.16659	1.3.40.17525	1.3.40.17370	Web service update
40	12	1.3.40.17685	1.3.40.16659	1.3.40.17685	1.3.40.17648	GUI.zip, Web service, database updates
40	13	1.3.40.17776	1.3.40.16659	1.3.40.17776	1.3.40.17648	GUI.zip, Web service
40	14	1.3.40.18063(3GB)	1.3.40.16659	1.3.40.18063	1.3.40.18063	GUI.zip, Web service, database updates
40	14.1	1.3.40.18063(3GB)	1.3.40.16659	1.3.40.18107	1.3.40.18063	Web service
40	15	1.3.40.18127(3GB)	1.3.40.16659	1.3.40.18127	1.3.40.18127	GUI.zip, Web service, database updates
40	16	1.1.3.40.18585 (3GB)	1.3.40.16659	1.3.40.18585	1.3.40.18646	GUI.zip, Web service, database updates
40	16.1	1.3.40.18705 (3GB)	1.3.40.16659	1.3.40.18585	1.3.40.18646	GUI.zip
40	17	1.3.40.18780 (3GB)	1.3.40.18756	1.3.40.18756	1.3.40.18646	<b>Core install required for Radiologist User Group.</b> GUI.zip, Core setup, and Web Service updates
40	18	1.3.40.19253(3GB)	1.3.40.18756	1.3.40.18756	1.3.40.19253	GUI.zip, Web Service and database updates
40	19	1.3.40.19909 (3GB)	1.3.40.18756	1.3.40.19831	1.3.40.19253	GUI.zip, Web services, Recognizer files

## 7. Installing

- 1) Copy and replace the current rRIS...zip file with the rRIS\_1.3.40.19909.zip file provided with this release.

Be sure to make a backup of the ris.exe.config file contained within the current .zip folder.

- 2) Stop each service listed below. Copy the files from the RIS Service Updates folder to the directory for each rRISService. Be sure to make backup of all files, but especially the rRISServices.exe.config and rRISServices.vshost.exe.config files.

*rRISService directories include:*

- a) *rRISService*
- b) *CDS rRISService*
- c) *Wedge rRISService*
- d) *DDE rRISService*

Restart each service.

- 3) Copy the Recognizer files to your local machine to the following folder.

Note: this could be a hidden folder.

C:\ProgramData\RadNet\Recognizer\2.16.840.1.113883.3.21\