

Server Update

For eRAD RIS
Version 2.0
Build 43
Update 43.0.1

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1. New Features

Ability to Add Site Code in Drop Down Lists

Currently eRAD RIS supports practice and site names of 500 characters. The drop down fields that display these values typically only allow for 20-30 characters. Issues with the practice or site name may be very similar in the first 20 characters. To help the users differentiate between the practices/sites we have added a new system configuration setting of **“LocationLayoutFormatString”** with a default value of {description}. This default value means that it will display the Practice/Site description in the drop down list box. The user will have the option to have both the description and code displayed.

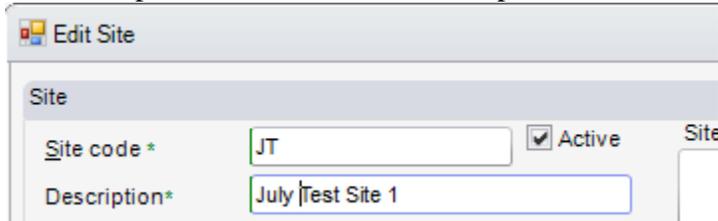


Figure 1.1 – Displaying site example

In the systemconfig table I add values for both the site code and the description. The value looks like ({{code}}) {description}.

System Config Code	Value	Default
Contains: locatio	Contains:	Contains:
LocationLayoutFormatString	{{code}} {description}	{description}

Figure 1.2 – New configuration setting

The supporting fields will display these values as displayed in the following screenshot.

Example of the site displayed

(JT) July Test Site 1

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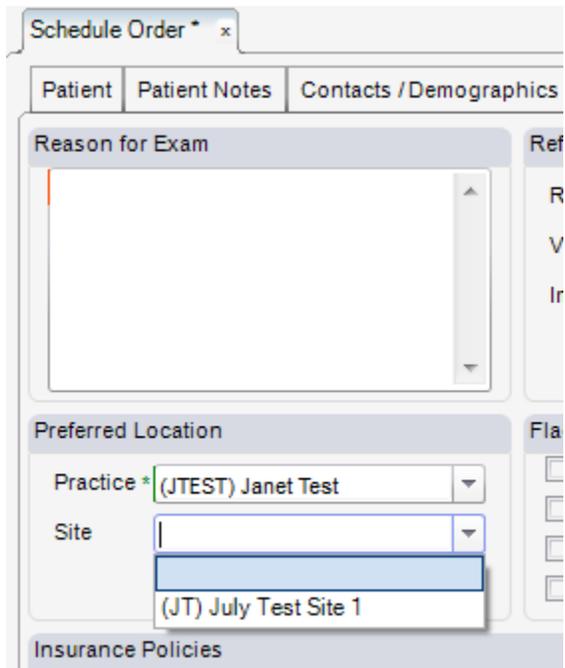


Figure 1.3 – Displaying values configured for **LocationLayoutFormatString**

The configuration setting will allow for the display of the code, description or a combination of both.

- ({code})
- (description) – this is the default value
- ({code}) (description)
- (description) ({code})

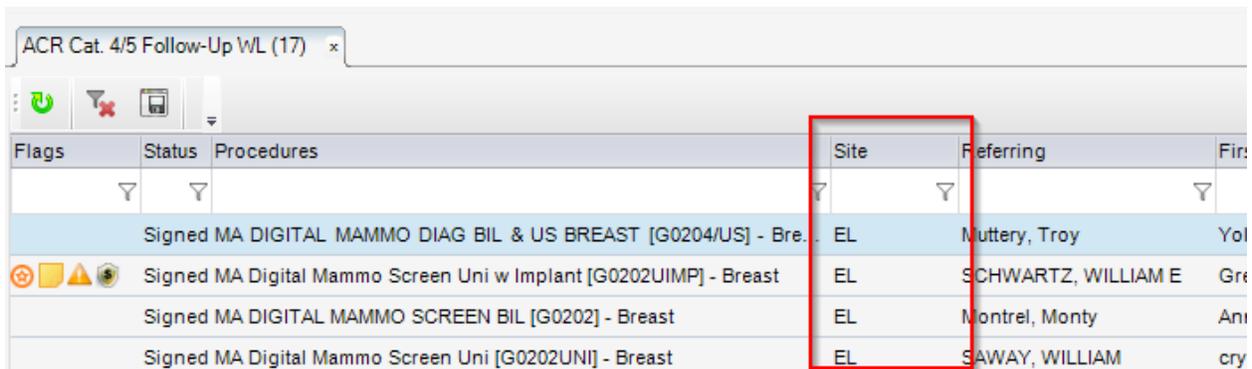
If any extra characters or spelling mistakes are included in the value the system will return an error when accessing a window that has the practice and/or site field

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Site Column Added to Work Lists

The site column has been requested to be added to various work lists in which it didn't currently exist. The following is a list of work lists in which it was added.

- Billing Exception WL
- Confirmation WL
- Closed Rooms Reschedule WL
- No Show WL
- Distribution WL
- Distribution History by Date WL
- Mammo Follow Up Orders WL
- Mammo Letters WL
- ACR Category 0 Follow Up WL
- ACR Category 4/5 Follow Up WL



Flags	Status	Procedures	Site	Referring	First
		Signed MA DIGITAL MAMMO DIAG BIL & US BREAST [G0204/US] - Bre...	EL	Muttery, Troy	Yol
⊕	⚠	Signed MA Digital Mammo Screen Uni w Implant [G0202UIMP] - Breast	EL	SCHWARTZ, WILLIAM E	Gre
		Signed MA DIGITAL MAMMO SCREEN BIL [G0202] - Breast	EL	Montrel, Monty	Ani
		Signed MA Digital Mammo Screen Uni [G0202UNI] - Breast	EL	SAWAY, WILLIAM	cry

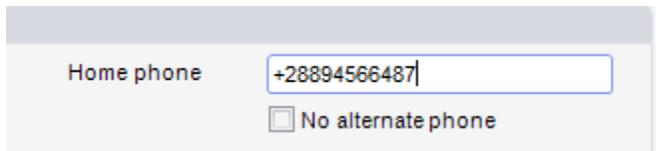
Figure 1.4 – Site column added to various work lists

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Support International Phone Numbers

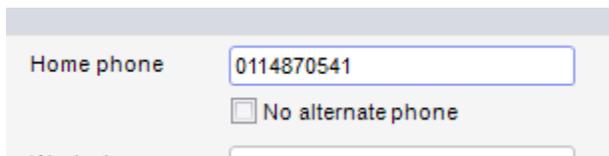
In previous builds the phone number fields automatically supply the phone number mask for North America. The mask was input the number as (902) 555-5555. This works great for North American customers/patients.

We will now allow for a leading + or 0 in the phone number field. When a leading + or 0 is added the mask will not be used allowing the user to input the number unformatted.



A screenshot of a web form. The label 'Home phone' is on the left. To its right is a text input field containing the number '+28894566487'. Below the input field is a checkbox with the text 'No alternate phone' next to it. The checkbox is currently unchecked.

Figure 1.5 – Phone number with leading plus symbol



A screenshot of a web form. The label 'Home phone' is on the left. To its right is a text input field containing the number '0114870541'. Below the input field is a checkbox with the text 'No alternate phone' next to it. The checkbox is currently unchecked.

Figure 1.6 – Phone number with leading 0 (zero)

This is applied to all phone number fields.

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2. Defects Resolved

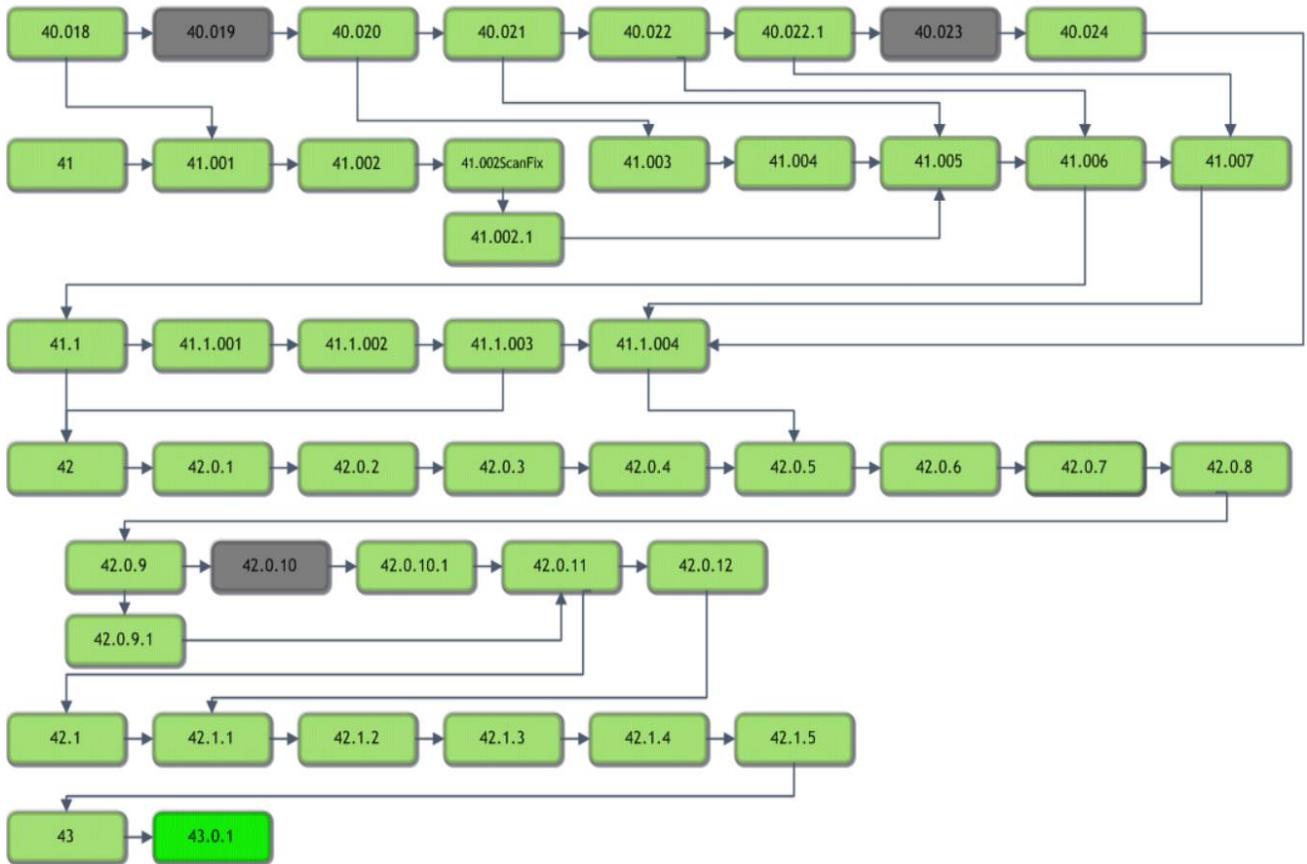
Redmine #	Tracker	Subject	Priority
7190	Bug	Dictated by user id changes to editor's id in PowerScribe 360	High
6894	Bug	Memory leak in insurance control	High
6856	Bug	CD Import - PACS Send fails due to compression	High
6540	Bug	Leading + sign in phone number field no longer disables the format mask	High
7193	Bug	MU Lab Screen Clean up	Normal
7183	Bug	maxConnections may be too low for large production environments	Normal
6968	Bug	DataStoreBase uses non thread safe dictionaries for storing credentials and connections	Normal
6967	Bug	CommonLib Config class uses non thread safe dictionaries for storing system and user configuration	Normal
6908	Bug	MU Quick Add Edit Dialog makes 30 consecutive service calls each time it is opened	Normal
7204	Feature	Site code needed in drop downs to support sites with long names	Urgent
6541	Feature	Phone number should allow leading 0	Urgent
7056	Feature	Worklists - Add site column to various mammo worklists to allow for better filtering	Normal

3. Changes to Configuration

Setting Placeholder	Setting	Default	Purpose / Controls Access to
rRISService.exe.config and rRISService64.exe.config	<p>Change to the <system.serviceModel> section of the rRISServices.exe.config and rRISServicesx64.exe.config file</p> <p>Before: <binding name="netTCPBinding" maxReceivedMessageSize="5000000" maxBufferSize="5000000" maxBufferPoolSize="5000000" maxConnections="3000" listenBacklog="3000"></p> <p>After: <binding name="netTCPBinding" maxReceivedMessageSize="5000000" maxBufferSize="5000000" maxBufferPoolSize="5000000" maxConnections="5000" listenBacklog="10000"></p>		<p>Changes are made under the <system.serviceModel> section of the file. Changes to be made in 2 places in the file</p> <p>The changes can be found in the deploy folder > rRISService.exe.config file. Compare with your current file in your rRISService folder. This applies to the rRISService.exe.config and the rRISService64.exe.config files</p> <p>Manual edit required.</p>
Systemconfig setting	LocationLayoutFormatString	{description}	<p>Desired layout for site and practice/site drop down fields such as Preferred location on order tab, search options on schedule tab and Site field on Import CD window. Possible values are {description} and ({code}). The values can be used individually or together. Example: ({code}) {description}</p>

4. Code Stream

eRAD RIS - Source Code Evolution



Legend:

Light Green = Released software

Gray = Will not be released

Bright Green = Current Release

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5. Package Contents

Files included for this server update:

1) GUI ZIP Updates folder contains:

- rRIS_1.3.43.0.1.23798.zip

2) RIS_Service_Updates contains:

- ABCpdf.dll
- ABCpdf9-32.dll
- ABCpdf9-64.dll
- Antlr3.Runtime.dll
- CDSJobManager.dll
- CDSJobManager.pdb
- CdsLib.dll
- CdsLib.xml
- CdsLib.XmlSerializers.dll
- CommonLib.dll
- CommonLib.pdb
- contents4301.txt
- DDEngine.dll
- DDEngine.pdb
- DiffPlex.dll
- Interop.ANYMODALCAPTURECTRLLib.dll
- Interop.FAXCOMEXLib.dll
- Microsoft.Practices.EnterpriseLibrary.Caching.dll
- Microsoft.Practices.EnterpriseLibrary.Caching.pdb
- Microsoft.Practices.EnterpriseLibrary.Common.dll
- Microsoft.Practices.EnterpriseLibrary.Common.pdb
- Microsoft.Practices.EnterpriseLibrary.Logging.dll
- Microsoft.Practices.EnterpriseLibrary.Logging.pdb
- Microsoft.Practices.ServiceLocation.dll
- Microsoft.Practices.ServiceLocation.pdb
- Microsoft.Practices.Unity.dll
- Microsoft.Practices.Unity.Interception.dll
- Microsoft.Practices.Unity.Interception.pdb
- Microsoft.Practices.Unity.pdb
- Microsoft.ReportViewer.Common.dll
- Microsoft.ReportViewer.WinForms.dll
- Microsoft.ReportViewer.WinForms.xml
- Newtonsoft.Json.dll
- Newtonsoft.Json.xml
- NLog.dll
- O2S.Components.PDFRender4NET.dll
- PDFToImages.exe
- Radar.Common.dll
- Radar.Common.pdb
- Radar.Common.WebClient.dll
- Radar.Common.WebClient.pdb
- Radar.DirectMessaging.Client.dll
- Radar.DirectMessaging.Client.pdb
- Radar.DirectMessaging.Model.dll
- Radar.DirectMessaging.Model.pdb
- rRISServices.exe
- rRISServices.pdb
- rRISServicesx64.exe
- ScheduledTaskManager.dll
- ScheduledTaskManager.pdb
- ServicesConfigWizard.exe
- ServicesConfigWizard.pdb
- SignatureApprovalService.exe
- SignatureApprovalService.pdb
- System.Net.Http.dll
- System.Net.Http.Formatting.dll
- System.Net.Http.xml
- System.Web.Http.dll
- System.Web.Http.SelfHost.dll
- System.Web.Http.SelfHost.xml
- System.Web.Http.WebHost.dll
- System.Web.Http.WebHost.xml
- System.Web.Http.xml
- System.Web.Mvc.dll
- System.Web.Mvc.xml
- System.Web.Optimization.dll
- System.Web.Razor.dll
- System.Web.Razor.xml
- System.Web.WebPages.Deployment.dll
- System.Web.WebPages.Deployment.xml
- System.Web.WebPages.dll
- System.Web.WebPages.Razor.dll
- System.Web.WebPages.Razor.xml
- System.Web.WebPages.xml
- Tourreau.Gilles.FaxDotNet.dll
- Tourreau.Gilles.FaxDotNet.pdb
- Tourreau.Gilles.FaxDotNet.xml
- WCFService.dll
- WCFService.pdb
- WCFServiceTests.dll
- WCFServiceTests.pdb
- WebApi.dll

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- WebApi.pdb
- WebGrease.dll
- Wedge.exe
- Wedge.pdb

The rRIS_Service_Updates also contains to subfolders:

A. Deploy folder contains

- a. Applicationsettings.config
- b. ReleaseVersion-connectionstrings.config
- c. rRISServices.exe.config
- d. services.config

B. XSL subfolder contains:

Subfolder titled “Stylesheets” which contains:

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

- h. CDA Subfolder contains
 - a. C-CDA.xsl
 - b. eRadStylesheet.xsl
 - c. generalTemplates.xsl
 - d. header.xsl
 - e. QRDA.xsl
 - f. QrdaLevel3_Cypress2.4.0.xsl
 - g. QrdaLevel3_ViewHtml.xsl
 - h. sectionAdministeredMedications.xsl
 - i. sectionAllergies.xsl
 - j. sectionEncounters.xsl
 - k. sectionFindings.xsl
 - l. sectionFuncCogStatus.xsl
 - m. sectionHospitalDischarge.xsl
 - n. sectionImmunizations.xsl
 - o. sectionInstructions.xsl
 - p. sectionMedications.xsl
 - q. sectionPlanOfCare.xsl
 - r. sectionProblemList.xsl
 - s. sectionProcedures.xsl
 - t. sectionQRDAMeasures.xsl
 - u. sectionQRDAPatientData.xsl
 - v. sectionQRDAREporting.xsl
 - w. sectionReasonForVisit.xsl
 - x. sectionResults.xsl
 - y. sectionSocialHistory.xsl
 - z. sectionVitalSigns.xsl

3) SQL Folder contains:

- B43.0.1.sql

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6. Intended Audience

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

7. Who is affected

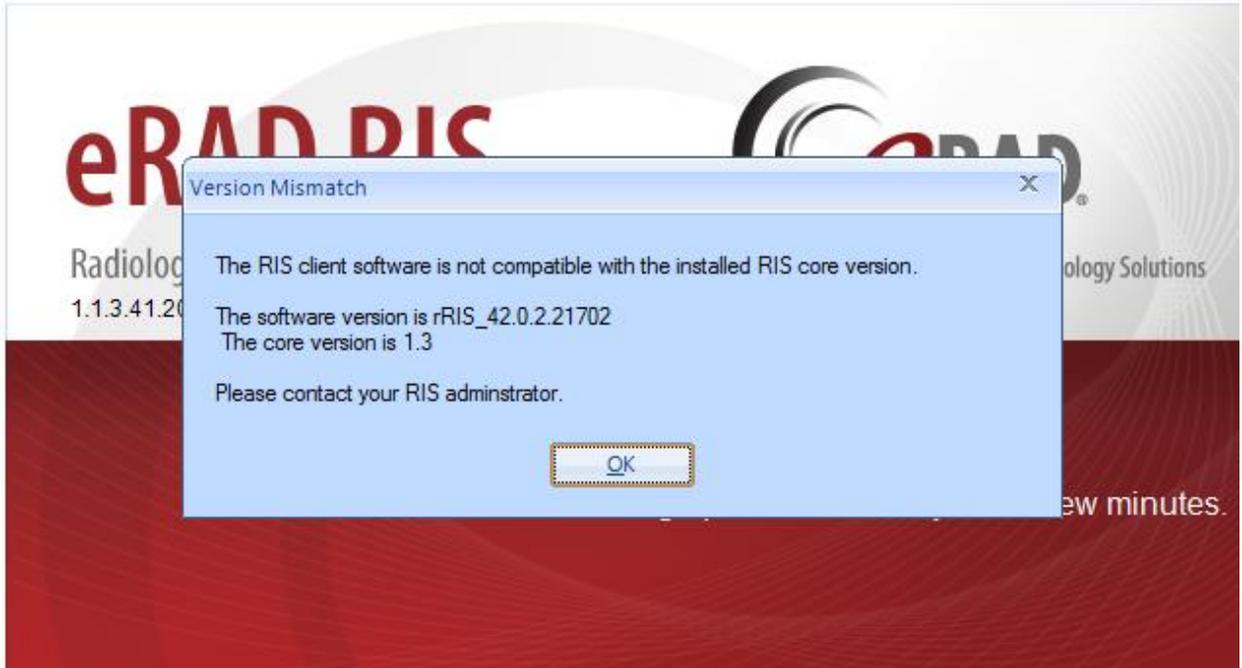
Build 43 installs. Server updates are not cumulative. This server update must be applied to 43

8. eRAD RIS Release Version Numbers

Build	Patch	UI Version	Core Version	WS Version	DB Version	Notes
41.1	-	1.3.41.20918(3GB)	1.3.41.20791	1.3.41.20918	1.3.41.20739	GUI.zip, Core install, Web Service and DB updates, Help files
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, Web Service 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
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
42	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
42	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
42	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
42	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
42	5	2.42.0.5.21924	2.42.0.0.21261	2.42.0.2.21806	2.42.0.4.21870	GUI
42	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
42	7	2.42.0.7.22090	2.42.0.0.21261	2.42.0.6.22009	2.42.0.4.21870	GUI.zip updates
42	8	2.42.0.7.22090	2.42.0.7.22150	2.42.0.6.22009	2.42.0.4.21870	Web Service updates
42	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
42	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
42	10	2.42.0.10.22232	2.42.0.0.21261	2.42.0.9.22203	2.42.0.4.21870	GUI.zip
42	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
42	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, Database updates. Management Report Deployment
42	12	2.42.0.12.22982	2.42.0.0.21261	2.42.0.12.22982	2.42.0.12.22911	GUI.zip, Web Service, 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
42.1	1	2.42.1.1.2296(3GB)	2.42.0.0.21261	2.42.1.1.22963	2.42.1.1.22864	GUI.zip, Web Service, DB updates
42.1	2	2.42.1.2.23007(3GB)	2.42.0.0.21261	2.42.1.2.23007	2.42.1.2.23007	GUI.zip, Web Service, DB updates
42.1	3	2.42.1.2.23237(3GB)	2.42.0.0.21261	2.42.1.2.23237	2.42.1.2.23007	GUI.zip, Web Services
42.1	4	2.42.1.4.23348(3GB)	2.42.0.0.21261	2.42.1.4.23348	2.42.1.2.23007	GUI.zip, Web Services
42.1	5	2.42.1.5.23406(3GB)	2.42.0.0.21261	2.42.1.5.23406	2.42.1.2.23007	GUI.zip, Web Services
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

9. Installing

- 1) Copy and replace the current rRIS...zip file with the rRIS_1.3.43.0.1.23798.zip file provided with this release.
Be sure to make a backup of the ris.exe.config file contained within the current .zip folder.



If you receive the Version Mismatch error above the GUI.zip will need to be renamed to add 1.3. to it. The GUI.zip file name change is from rRIS_43.0.1.23798 → rRIS_1.3.43.0.1.23798

NOTE: the GUI.zip included with this release has already been renamed to include 1.3.

This is required for installs that have not reached build 42. Because the software installed on your local workstation is a pre-42 build it detects a version mismatch in the software naming and won't allow the newest build to be launched (it is looking for 1.3. in the name). Once the workstation(s) have reached a build of 42 we will no longer need to add "1.3." to the GUI.zip name. Also note that a core install will not resolve this issue below.

NOTE: If your upgrade is coming from 40.016.1 or prior a core install will be required. Versions (builds) of 40.017 and greater do not require a core install as long as you are at least at 40.017 (Core Version 1.3.40.18756)

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- 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) Run the B43.0.1.sql file against the eRAD RIS database instance.