

Server Update

For eRAD RIS
Version 2.0
Build 42
Update 42.0.11

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1. Defects Resolved

Redmine #	Subject	Priority
6370	Error starting CDS service	Urgent
6307	Potential for studies to be orphaned in a way as they won't appear on worklists	Urgent
6276	Reporting - Error thrown when suspend, dictate, then suspend or submit again	High
6238	EMR Orders with multiple procedures - in some cases the order does not appear in the Map EMR screen	High
6214	_max_interpretation_version does not update when an addendum is deleted	High
6131	Reschedule Order - Contact/Demographics Changes Not Saving	High
6130	Reschedule Order - Race Changes Not Saving	High
6129	Reschedule Order - Family History Changes Not Saving	High
6445	Person Merge improperly invalidates Quality Review Distribution dataset	Normal
6428	Payment Detail (Now OTC QA) pulling incorrect site if site gets changed	Normal
6424	Radiologist Dashboard - Activity by Radiologist counts off	Normal
6422	Typo in report name CTP Count - Performed Procedures	Normal
6411	RTAT Detail Mammo report	Normal
6402	Scanned Document version of EMR Orders has address line duplicated and is missing phone number and reason for visit	Normal
6372	MU - dgridLabResults failed with: System.NullReferenceException: Object reference not set to an instance of an object.	Normal
6337	Modality Logo Override Issue	Normal
6329	Mgmt Report issue - Edited Jobs By User Detail	Normal
6316	RTAT by Radiologist - returning incorrect results	Normal
6315	Radiologist Signing Activity Report - pulling in addended exams	Normal
6313	Radiologist Dictation Activity by Date - pulling incorrect site\practice for outside reads	Normal
6248	Billing exception screen no displaying Patient Race	Normal
6219	locking failure after changing status	Normal
6216	Value cannot be null error when using Release Form on Image Request	Normal

2. Changes to Configuration

New Access Strings and Configuration Settings

Setting Placeholder	Setting	Default	Purpose / Controls Access to
Access string / User Group Permission tables	Clinical.CreateTableInReport	Full	Grants access to creating tables in diagnostic reports

A configuration change to the ris.exe.config file was introduced in build 2.42 this setting was designed to lessen the delays when retrieving lookup tables that are larger in size.

This config setting, as mentioned, is located in the ris.exe.config file located in the <appSettings> section of the file

This setting is:

```
<add key="RowLevelCacheDataSetNamesCSV" value="ProcedureCode,TemplateMacro,Indication"/>
```

Where the value can be any lookup table, and a value="*", will retrieve all lookups.

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. The commented line will look like

```
<!--<add key="RowLevelCacheDataSetNamesCSV" value="ProcedureCode,TemplateMacro,Indication"/> -->
```

3. New Features and Enhancements

Studies from Inactive Sites Included at Practice Level

The behavior of the org picker has changed when a user picks a practice. Now all sites, active and inactive are included in filter for the WL. Note that when a user attempts to pick a specific site within a practice on the org picker that only "active" sites are shown. The difference here is when a user picks an item at the practice level the WL will include all sites regardless if they are active/inactive status.

Note: this solution does not allow you to see items in WL where the scope of the WL is limited to a site, such as the reception and technologist WL.

Performed Date Added to Transcription WL's

Prior to this patch release the Performed Start Date and the Performed End Date columns were not available on Transcription WL's. With patch release 42.0.11 they are now included in all Transcription WL's with the exception of Pending Review WL and All Pending Review WL.

In addition, the columns Performed Start Date and Performed End Date have also been added to the Dictated By Date and All Dictated WL's under the Radiologists menu.

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Table Creation for Diagnostic Reports Now Configurable

In patch release 42.0.11 we have added a new access string titled “**Clinical.CreateTableInReport**”. Default access is “Full”. When set to “None” in the User Group Permissions table, the user(s) that belong to this user group will no longer have the Toolbar option or Context Menu option to insert tables into diagnostic reports.

In this figure, the toolbar buttons outlined in red are for creating tables and inserting/removing rows and columns.

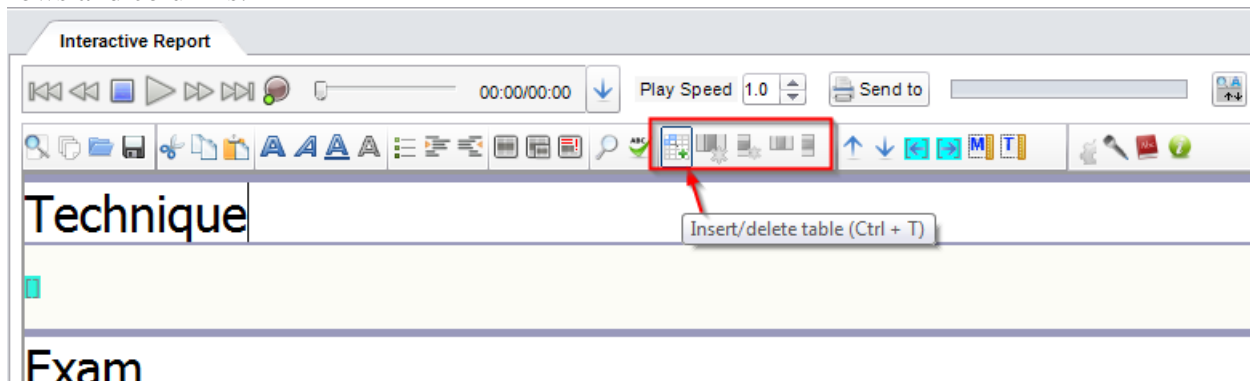


Figure 3.1 – Toolbar options for tables in reporting window

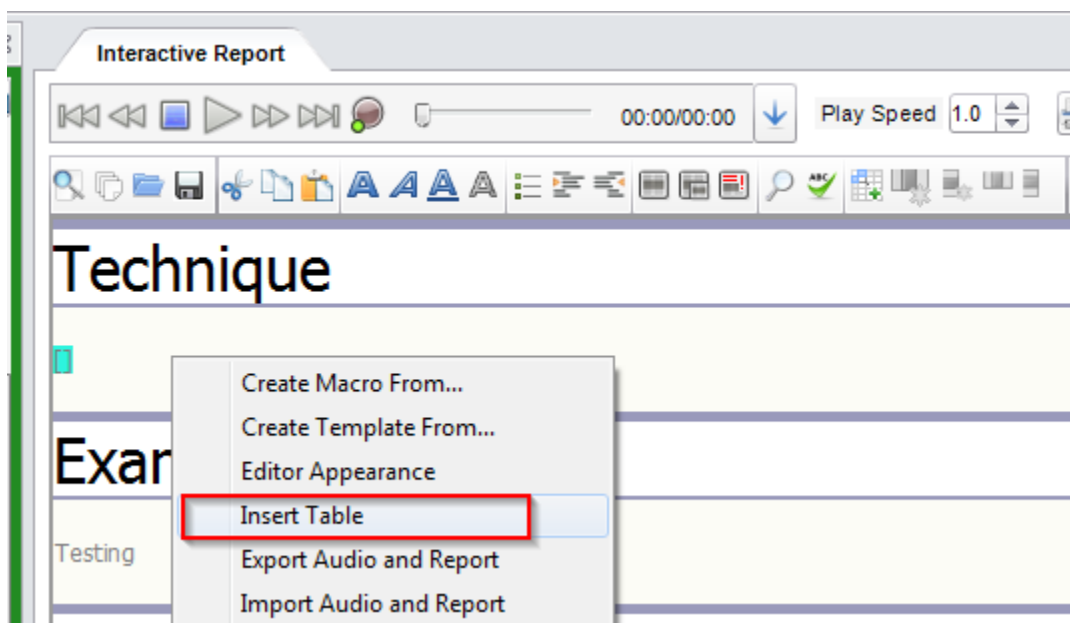
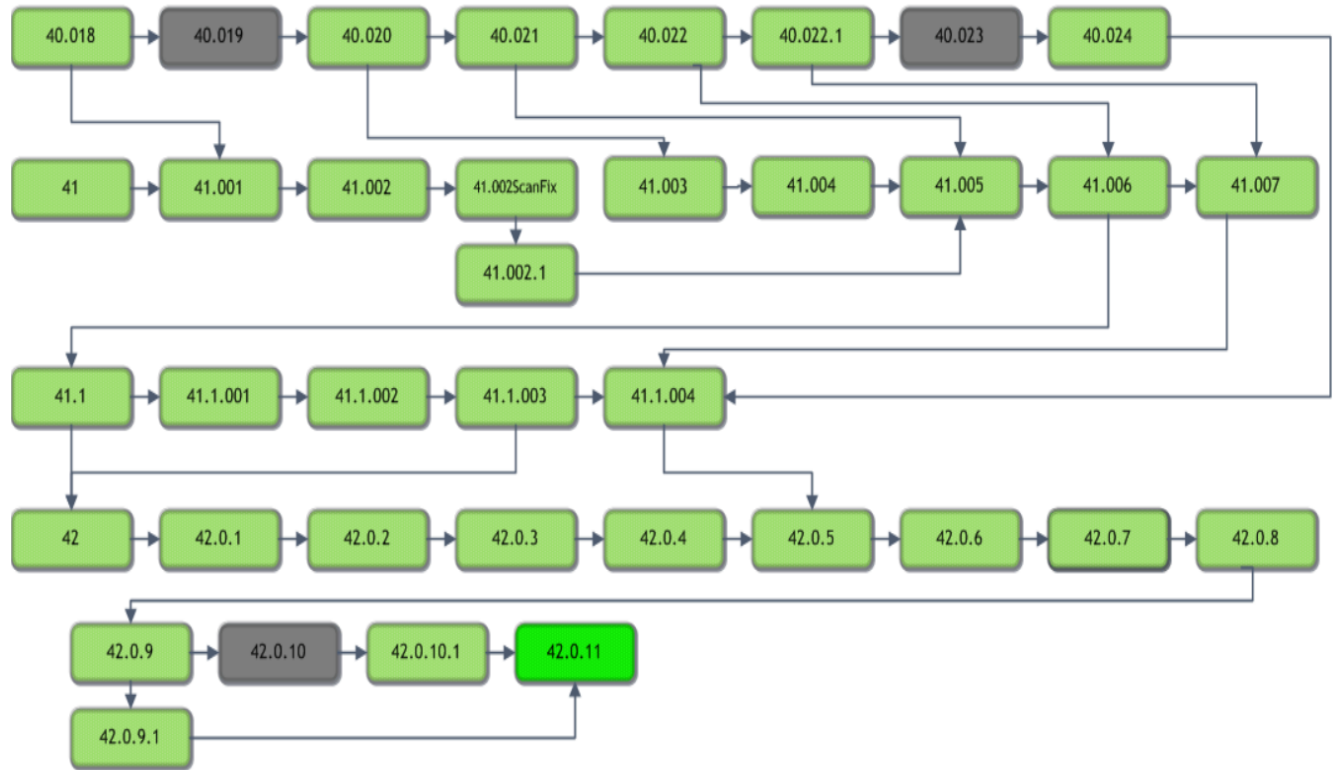


Figure 3.2 – Context menu option to Insert Table

4. Code Stream

eRAD RIS - Source Code Evolution



Legend:

Light Green = Released software

Gray = Will not be released

Bright Green = Current Release

5. Package Contents

Files included for this server update:

1) GUI ZIP Updates folder contains:

- rRIS_1.3.42.0.11.22495a.zip

2) RIS_Service_Updates contains:

- ABCpdf.dll
- ABCpdf9-32.dll
- ABCpdf9-64.dll
- CDSJobManager.dll
- CDSJobManager.pdb
- CdsLib.dll
- CdsLib.xml
- CdsLib.XmlSerializers.dll
- CommonLib.dll
- CommonLib.pdb
- contents.txt
- DDEngine.dll
- DDEngine.pdb
- 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
- Ninject.dll
- Ninject.Web.Common.dll
- Ninject.Web.Common.xml
- Ninject.xml
- O2S.Components.PDFRender4NET.dll
- PDFToImages.exe
- 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.Formatting.xml
- System.Net.Http.WebRequest.dll
- System.Net.Http.WebRequest.xml
- System.Net.Http.xml
- System.Web.dll
- System.Web.Helpers.dll
- System.Web.Helpers.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.Providers.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
- Turreau.Gilles.FaxDotNet.dll
- Turreau.Gilles.FaxDotNet.pdb
- Turreau.Gilles.FaxDotNet.xml
- WCFService.dll
- WCFService.pdb
- WCFServiceTests.dll
- WCFServiceTests.pdb
- WebApi.dll
- WebApi.pdb
- Wedge.exe
- Wedge.pdb

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The rRIS_Service_Updates also contains to subfolders:

- A. Deploy folder contains
 - a. Applicationsettings
 - b. ReleaseVersion-connectionstrings
 - c. rRISServices.exe
 - d. services
- B. XSL subfolder contains:
Subfolder titled “Stylesheets” which contains:
 - a. CDAToHTMLCompleteReport.xslt
 - b. CDAToHTMLImpressionSection.xslt
 - c. CDAToRIS.xslt
 - d. CDAToTxt.xslt
 - e. DocumentModelReport.xslt
 - f. DocumentModelReportAsXml.xslt
 - g. CCDA Subfolder contains
 - a. C-CDA.xml
 - b. eRadStylesheet.xml
 - c. generalTemplates.xml
 - d. header.xml
 - e. sectionAdministeredMedications.xml
 - f. sectionAllergies.xml
 - g. sectionEncounters.xml
 - h. sectionFuncCogStatus.xml
 - i. sectionImmunizations.xml
 - j. sectionInstructions.xml
 - k. sectionMedications.xml
 - l. sectionPlanOfCare.xml
 - m. sectionProblemList.xml
 - n. sectionProcedures.xml
 - o. sectionReasonForVisit.xml
 - p. sectionResults.xml
 - q. sectionSocialHistory.xml
 - r. sectionVitalSigns.xml

3) SQL folder contains:

- 42.0.11

4) SSRSDeployment folder contains the deployment tools and files/folders required to installing/updating the management reports.

6. Intended Audience

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

7. Who is affected

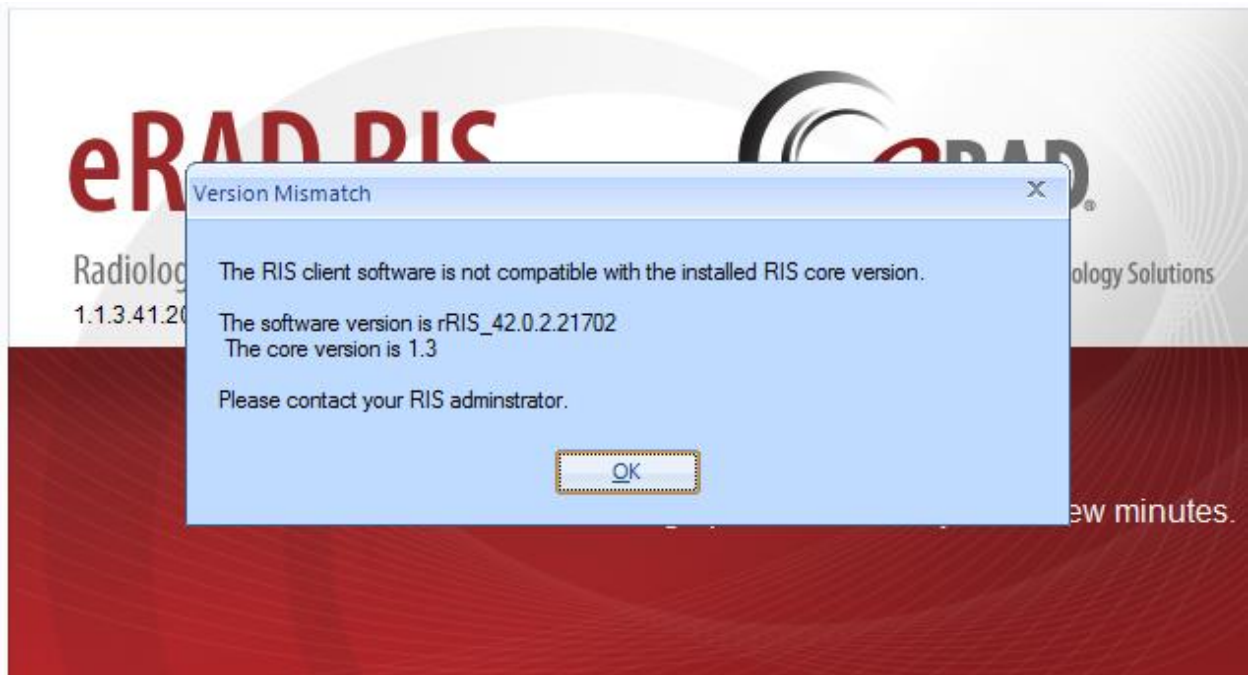
Build 42 installs. Server updates are not cumulative. This server update must be applied to 42.0.4

8. eRAD 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 database updates
41	6	1.3.41.20912(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, 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

9. Installing

- 1) Copy and replace the current rRIS...zip file with the rRIS_1.3.42.0.11.22495a.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_42.0. 11.22495a→ rRIS_1.3.42.0. 11.22495a. 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:

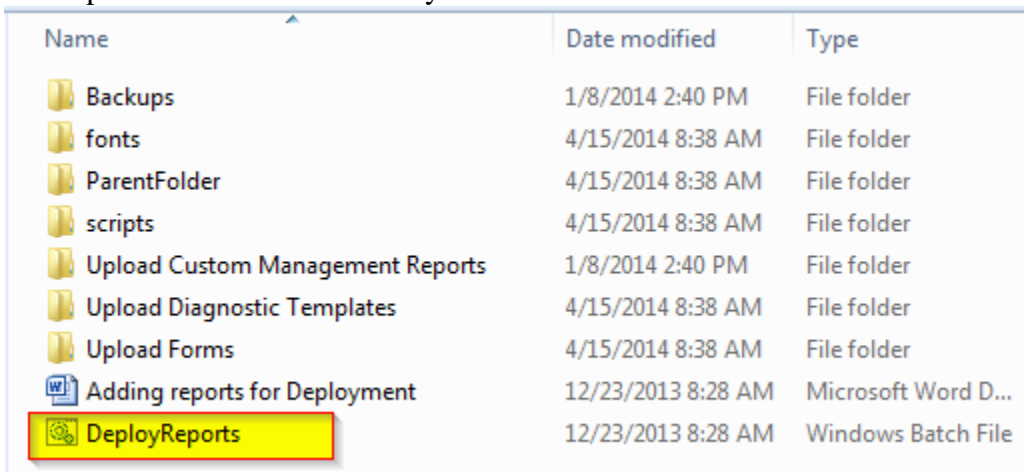
- a) *rRISService*
- b) *CDS rRISService*
- c) *Wedge rRISService*
- d) *DDE rRISService*

Restart each service.

- 3) Run the B42.0.11.sql file against the eRAD RIS database instance

- 4) SQL Reporting - Deploying eRAD RIS Reporting Services:

There is a utility called **DeployReports.bat** that will deploy the reports to a SQL Server Report Service. This utility is found in the **Build X\SSRSDeployment** folder. Below are the steps on how to use this utility.



Name	Date modified	Type
Backups	1/8/2014 2:40 PM	File folder
fonts	4/15/2014 8:38 AM	File folder
ParentFolder	4/15/2014 8:38 AM	File folder
scripts	4/15/2014 8:38 AM	File folder
Upload Custom Management Reports	1/8/2014 2:40 PM	File folder
Upload Diagnostic Templates	4/15/2014 8:38 AM	File folder
Upload Forms	4/15/2014 8:38 AM	File folder
Adding reports for Deployment	12/23/2013 8:28 AM	Microsoft Word D...
DeployReports	12/23/2013 8:28 AM	Windows Batch File

Figure 9.1 – DeployReports.bat file in the SSRSDeployment folder

1. Launch the DeployReports.bat file.
2. **Enter report server name [default:<computer_name>]:**
 - a. A script will run against the server and return a list of all the root folders on that report server
**By Default this will pull the computer_name environmental variable from the machine running the script. I suggest running this from the report server for performance anyway.
3. **Enter root folder to deploy reports [default: production]:**

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- a. This will create a new root if the name you give doesn't exist, or it will simply publish below the root of the folder if it does already exist. We typically will use "production" for the installation folder. Note: The script forces the root name to be lowercase.
**Default is suggested to be production, but you may need to change it based on the environment you are deploying to. I.e: testserver might be called something else.
4. **Do you wish to create a backup of the existing reports?:**
 - a. This will create a file backup of the report directory specified in the same directory deploy.bat is being run from inside a folder called Backups where it will create a folder based on datetime of backup. I.e: 04172014_110605 (MMDDYYYY_HHMISS).
5. **Do you wish to deploy core management reports?**
 - a. If you enter "y", it will redeploy the core management reports
6. **Do you wish to upload Forms?**
 - a. If you enter "y", the script will deploy any .rdl files into the installations Forms folder that you have previously saved into the script folder called "Upload Forms" including the folder below it called SubReports.
7. **Do you wish to upload Diagnostic Templates?**
 - a. If you enter "y", the script will deploy any .rdl files into the installations Diagnostic Templates folder that you have previously saved into the script folder called "Upload Diagnostic Templates" including the folder below it called SubReports.
8. **Do you wish to upload Custom Management Reports?**
 - a. Entering "Y" will copy any .rdl files you've copied under the deployment folder called Upload Custom Management Reports onto the server under Management Reports\Custom\Uploads directory
9. **Do you wish to create a datasource?**
 - a. If you select "y" you will get prompted for more information about the datasource you wish to create. You only need to create a datasource, if this is a new installation. No need to do this if you are upgrading an existing installation. The datasource gets created in the root of the folder from step 3. The datasource will be called RISDataSource.

If you chose to create a datasource, the following steps will be requested to complete the connection string.

1. **Enter database server name:**
 - a. This is the name of the physical database server
ex. MYSERVER-1
 2. **Enter database name:**
-

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- a. This is the name of the database on the database server
ex. rRIS_Site
3. **Enter report schema user name:** ex. The account that the datasource will use to connect to the database ie: SA. (For security reasons “sa” is not recommended)
4. **Enter report schema password:**

The results of deployment will be written to log.txt in the same folder as the DeployReports.bat file.