

Server Update

For eRAD RIS
Version 1.0
Build 40
Update 40.012

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1. New Features

Configurable dataset retrieval interval

When lookup tables are updated, the client was hard coded to look for dataset updates every 5 minutes. Also when logging in, the datasets would be retrieved.

In Build 40.012 the hard coded value has been removed. A new ris.exe.config entry has been created and the value, set in minutes will be set for all users.

```
<add key="LookupTableTimeToLiveInMinutes" value="5"/>
```

In the ris.exe.config file, this new key is to be added to the <appSettings> section.

Before:

```
<appSettings>  
  <add key="defaultEndPointName" value="NetTcpBinding_IStudyService" />  
  <add key="ClientSettingsProvider.ServiceUri" value="" />  
  <!--<add key="RowLevelCacheDataSetNamesCSV" value="*" /> -->  
</appSettings>
```

After:

```
<appSettings>  
  <add key="defaultEndPointName" value="NetTcpBinding_IStudyService" />  
  <add key="ClientSettingsProvider.ServiceUri" value="" />  
  <add key="LookupTableTimeToLiveInMinutes" value="5"/>  
  <!--<add key="RowLevelCacheDataSetNamesCSV" value="*" /> -->  
</appSettings>
```

If a user wants to get the latest lookup table updates they can log out and back in. This will always download the lookup table changes. An alternative method has also been added. Under the Help Menu a new menu option titled “**Refresh Configuration**” has been added. When selected, the next time the user opens a data window, the latest lookup changes will be obtained.

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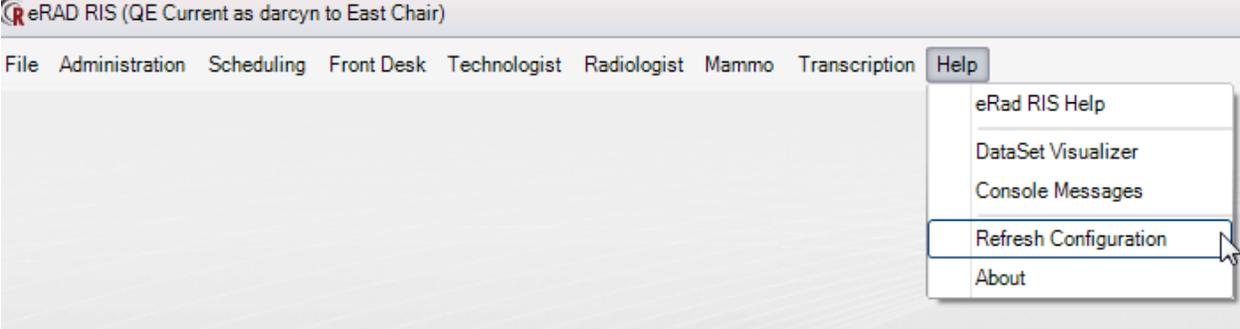


Figure 1.1 – Refresh Configuration menu option.

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Technologist – Remove chair assignment when Assigned Radiologist changed

In previous versions if the chair was assigned to the study in the Perform Exam window and saved, the next time the window was opened and a Radiologist was assigned, or the Assigned Radiologist was changed, this would remove the chair assignment.

In Build 40.012 a system configuration setting was added to have this behavior configurable. The SystemConfig setting of **ClearChairOnAssignedRadChanged** has been added with a default value of False, meaning that if the Assigned Radiologist is changed, the chair assignment will be retained. When a value of true is entered for the **ClearChairOnAssignedRadChanged**, it work as before.

System Config Code	Value	Default	Description
Contains:	Contains:	Contains:	Contains:
Click here to add a new row			
ClearChairOnAssignedRadChanged	false	False	(value = Y/N) Used for Chair workflow. Determines whether the chair should be cleared in the event that the assigned radiologist is changed.

Figure 1.2 – New SystemConfig code of ClearChairOnAssignedRadChanged

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Reporting - Display selected attachments for current study

Using the existing User Preference of “Select current study initially” under the Patient folder section on the Reporting tab of the User Preferences window, will now also control whether the attachments associated with the current study will be displayed in the Selected Attachments data pane.

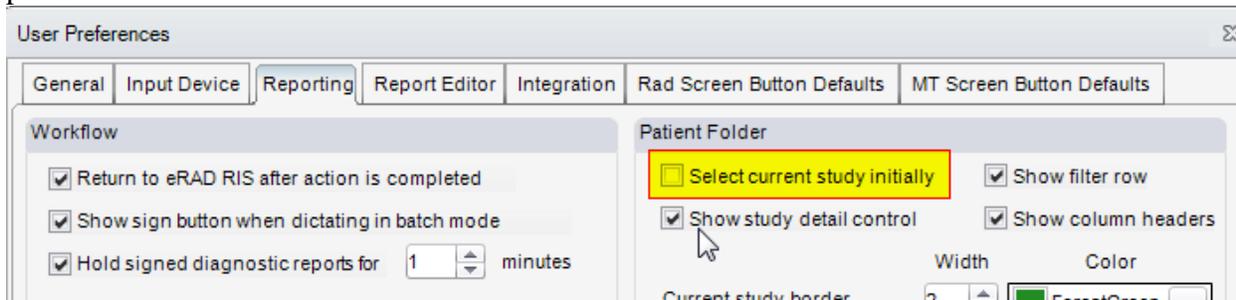


Figure 1.2 – Existing User Preference “Select current study initially”

A breakdown of how it will work:

- If the user preference "Select current study initially" is not selected and the study doesn't have relevant priors, the selected attachment pane will be empty.
- If the user preference "Select current study initially" is not selected and the study does have relevant priors, the select attachment pane will display the attachment (most likely the report) for the most relevant study.
- If the user preference "Select current study initially" is selected and the study doesn't have relevant priors, the selected attachment pane will be of the current study.
- If the user preference "Select current study initially" is selected and the study does have relevant priors, the selected attachment pane will be of the current study.

2. New Configuration settings and Changes

Setting Placeholder	Setting	Default	Purpose / Controls Access to
SystemConfig lookup	ClearChairOnAssignedRad Changed	False	Controls if the Chair assignment is retained when if the Assigned Radiologist is added or changed in the Perform Exam window. Possible values are True and False. True = The Chair assignment will be removed. False = The Chair assignment will be retained.
Ris.exe.config	<p>Before:</p> <pre><appSettings> <add key="defaultEndPointName" value="NetTcpBinding_IStudy Service" /> <add key="ClientSettingsProvider.S erviceUri" value="" /> <!--<add key="RowLevelCacheDataSet NamesCSV" value="*" /> --> </appSettings></pre> <p>After:</p> <pre><appSettings> <add key="defaultEndPointName" value="NetTcpBinding_IStudy Service" /> <add key="ClientSettingsProvider.S erviceUri" value="" /> <add key="LookupTableTimeToLiv eInMinutes" value="5"/> <!--<add key="RowLevelCacheDataSet NamesCSV" value="*" /> --> </appSettings></pre>	5	Controls the interval in which the application will retrieve dataset lookup updates.

3. Defects Resolved

Redmine #	Subject	Priority
3698	RIS Core Services are not configured to best utilize load balancers	Urgent
3848	Cancelled studies are appearing on the IVT worklist	Urgent
3849	IVT B40 upgrade script missing that updates Approved, to Verfiied	Urgent
3963	Creating template, when adding Procedures and Uses, clicking ALL button produces an error	Urgent
3744	RadNet - From ADV go-live - redesign the lookup editor for Scheduler Group	High
3868	Push signature service is getting hung up on some jobs	High
3580	View/Edit screen does not build interpretation body if not already built	Normal
3629	missing index slowing diagnostic report rendering	Normal
3706	Document Viewer	Normal
3725	Procedure code picker when creating macros/template	Normal
3748	Quality Review Rate	Normal
3758	Reporting - Shortcut popup message 50+ times.	Normal
3861	Reporting - cross thread exceptions if getdata take x amount of time (slower get)	Normal
3924	Scanning - Cannon scanning lookup when error is on the scanner when we click the scan button	Normal
3943	Scanning - Cropping on some scanners defaults to 8.5x14 instead of 8.5x11	Normal
3948	rTwain build with optimized code to improve performance	Normal
3952	Patient Folder - new setting to not display current study in selected attachments	Normal
3954	Patient Folder Attachments - If there is an error getting the data we show the previously selected	Normal
3956	chair is nulled out when assigned rad is changed	Normal
3957	MU - Get Automated Measures	Normal
3958	IVT correction of casing of word, for migrated data	Normal
3960	Reporting - Floating windows flicker	Normal
3962	Lookup Tables are retrieved excessively during the day	Normal
3964	Create a new template, add 1 or more procedures, click Close then No to save prompt, error is produced.	Normal

4. Package Contents

Files included for this server update:

- 1) GUI ZIP Updates folder contains
 - a) rRIS_1.3.40.17685.zip

- 2) RIS Service Updates folder contains
 - a) CDSJobManager.dll
 - b) CDSJobManager.pdb
 - c) CommonLib.dll
 - d) CommonLib.pdb
 - e) DDEngine.dll
 - f) DDEngine.pdb
 - g) rRISServices.exe
 - h) rRISServices.pdb
 - i) rRISServicesx64.exe
 - j) ScheduledTaskManager.dll
 - k) ScheduledTaskManager.pdb
 - l) SignatureApprovalService.exe
 - m) SignatureApprovalService.pdb
 - n) WCFService.dll
 - o) WCFService.pdb
 - p) WebApi.dll
 - q) WebApi.pdb
 - r) Wedge.exe
 - s) Wedge.pdb

- 3) SQL folder contains:
 - a) B40_012.sql

5. Intended Audience

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

6. 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.

7. eRAD RIS Release Version Numbers

Build	Patch	UI Version	Core Version	WS Version	DB Version	Notes
37	-	1.2.37.12843	1.2.37.12782	1.2.37.12843	1.2.37.12843	Full version release
37	1	1.2.37.13040	1.2.37.13040	1.2.37.13039	1.2.37.13003	Core install, GUI.zip, web service and database updates
37	2	1.2.37.13069	1.2.37.13040	1.2.37.13069	1.2.37.13003	GUI.zip and Web service updates
37	3	1.2.37.13069	1.2.37.13040	1.2.37.13069	1.2.37.13003	WebAPI updated, no version changes
37	4	1.2.37.13171	1.2.37.13040	1.2.37.13165	1.2.37.13171	GUI.zip, web service, and database updates
37	5	1.2.37.13347	1.2.37.13040	1.2.37.12979	1.2.37.12979	Bug was discovered with version numbers, this is why it appears we went backwards in the version number but we did not.
37	6	1.2.37.13665	1.2.37.13040	1.2.37.13580	1.2.37.12979	GUI.zip and Web service updates
37	7	1.2.37.13807	1.2.37.13040	1.2.37.13799	1.2.37.13807	GUI.zip and Web service updates. Also MIRTH mapping changes
37	8	1.2.37.13807	1.2.37.13040	1.2.37.13827	1.2.37.13807	Web service update
37	9	1.2.37.13807	1.2.37.13040	1.2.37.13839	1.2.37.13807	Web service update
37	10	1.2.37.13895	1.2.37.13040	1.2.37.13895	1.2.37.13895	GUI.zip, Web service and database updates
37	11	1.2.37.14161	1.2.37.13040	1.2.37.14161	1.2.37.14161	GUI.zip, Web service, database updates and SQL Management reporting
37	12	1.2.37.14267	1.2.37.13040	1.2.37.14161	1.2.37.14267	GUI.zip, Web service and database updates
37	13	1.2.37.14326	1.2.37.13040	1.2.37.14326	1.2.37.14326	GUI.zip, Web service and database updates
38	-	1.2.38.14486	1.2.38.14486	1.2.38.14486	1.2.38.14486	Full version release
38	1	1.2.38.14748	1.2.38.14748	1.2.38.14748	1.2.38.14748	Core install required
38	2	1.2.38.15182	1.2.38.14748	1.2.38.14748	1.2.38.14748	GUI.zip update only
38	3	1.2.38.15251	1.2.38.14748	1.2.38.14748	1.2.38.14748	GUI.zip update only
38	4	1.2.38.15327	1.2.38.14748	1.2.38.15290	1.2.38.14748	GUI.zip and Web service updates
38	5	1.2.38.15513	1.2.38.14748	1.2.38.15513	1.2.38.15451	GUI.zip, Web service and database updates
38	6	1.2.38.15618	1.2.38.14748	1.2.38.15513	1.2.38.15618	GUI.zip and database updates
38	7	1.2.38.15768	1.2.38.14748	1.2.38.15768	1.2.38.15618	GUI.zip and Web Service updates
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

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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	64 BIT web service. 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

8. Installing

- 1) Copy and replace the current rRIS...zip file with the rRIS_1.3.40.17685.zip file provided with this release.

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

NOTE: there is a change to the ris.exe.config file.

See Sections

1 New Features - Configurable dataset retrieval interval and

2 New Configuration settings and Changes

- 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 B40_012.sql file against the eRAD RIS database instance.