# Server Update

# For eRAD RIS
# Version 1.0
# Build 40
# Update 40.014

# Table of Contents

# 1. New Features

## PACS Integration Update

At times it is possible that the eRAD RIS application will see a delay in the Reporting window when PACS is waiting for the "close session" reply. To mitigate this delay we have introduced a new ris.exe.config application setting "ShouldCloseViewSessionOnThread". The default value is false, meaning the close session happens on the main application thread and we pause for reply, so the reporting window will see a delay loading next. When set to true it closes on a background task and the reporting window will not see the delay. The next study will load in dictate window, although the PACS may still be loading images.

A new ris.exe.config entry has been created with a default value of false.
<add key="ShouldCloseViewSessionOnThread" value="false"/>

**NOTE:** With a value of false, the behaviour will be unchanged compared to previous versions.

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="ShouldCloseViewSessionOnThread" value="false"/>
   <!--<add key="RowLevelCacheDataSetNamesCSV" value="*"/>-->
 </appSettings>
```

### Reporting – Pending Dictation WL to Omit Studies not Assigned to a Chair

The Pending Dictation WL content has been modified.  Now if a study does not have chair assigned, and the study is not assigned to me (Radiologist user) I will not see the study on my work list.  If the study is assigned to me, but is not assigned a chair, it will appear on my Pending Dictation WL.  If the study is assigned to the chair I am currently accessing, but is not assigned to a user, it will appear on my work list. Finally, if the study is assigned to the chair I am currently accessing, but is assigned to a different user, it will not appear on my work list.  The tables below describe this in better detail. The values in red are what has changed for this build.

If I am sitting in Chair1, then:

| Chair | Assigned To | Include in My Pending Dictation WL | | |
|---|---|---|---|---|
| | | <= B40.013 | >= B40.014 | |
| | | | Chair WF Enabled | Chair WF Disabled |
| *<null>* | *<null>* | Yes | **No** | Yes |
| *<null>* | Me | Yes | Yes | Yes |
| *<null>* | NotMe | No | No | No |
| | | | | |
| Chair1 | Me | Yes | Yes | Yes |
| Chair1 | *<null>* | Yes | Yes | Yes |
| Chair1 | NotMe | No | No | No |
| | | | | |
| Chair2 | *<null>* | No | No | **Yes** |
| Chair2 | Me | No | **Yes** | **Yes** |
| Chair2 | NotMe | No | No | No |

If my chair is not set (viewing all chairs), then:

| Chair | Assigned To | Include in My Pending Dictation WL | | |
|---|---|---|---|---|
| | | <= B40.013 | >= B40.014 | |
| | | | Chair WF Enabled | Chair WF Disabled |
| *<null>* | *<null>* | Yes | **No** | Yes |
| *<null>* | Me | Yes | Yes | Yes |
| *<null>* | NotMe | No | No | No |
| | | | | |
| Chair1 | Me | Yes | Yes | Yes |
| Chair1 | *<null>* | Yes | Yes | Yes |
| Chair1 | NotMe | No | No | No |
| | | | | |
| Chair2 | *<null>* | Yes | Yes | Yes |
| Chair2 | Me | Yes | Yes | Yes |
| Chair2 | NotMe | No | No | No |

## Hide Report Contents on Suspended Studies

The report template (when modified, this is a customization that is not packaged in the build) will not show the contents of the report for a study that is in suspended status.  Looking at the screenshot below, you can see that the report contents are not displayed, but rather a message informing the viewer that the study is suspended.  This will also be the case for suspended studies that may be inadvertently sent to print or fax.
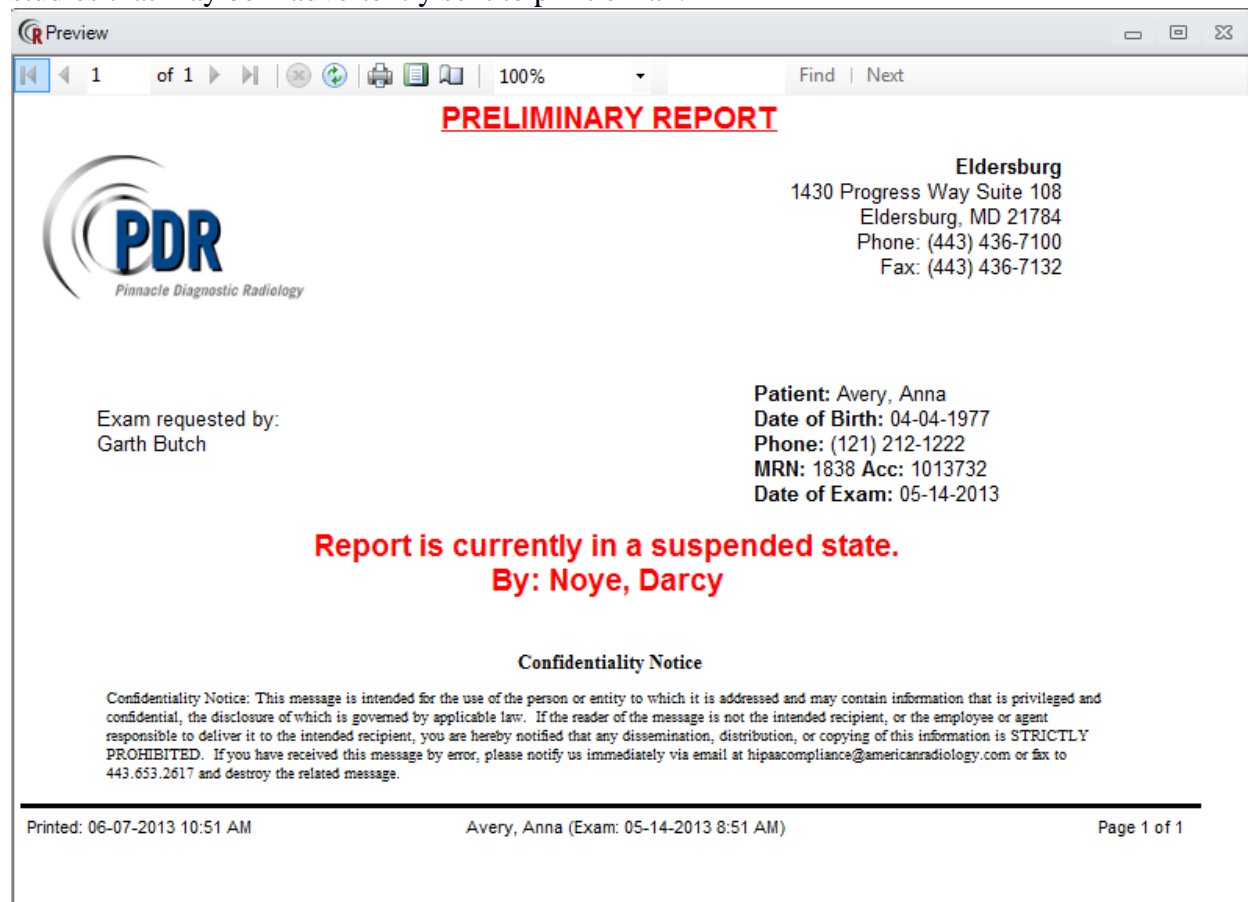


**Figure 1.1 – Preview of report in suspended status**

Also a new Access String "Clinical.PreviewSuspendedReport" has been added to control who has access to preview a report that has been suspended by another user. When a user that does not have this permission tries to preview the report, the option will not be available in the context menu.  The data nugget for report will be disabled when the study is in suspended status. Lastly, like the Preview Report context menu option, Send To will not be available, thus removing the option for these users the ability to send the report to Document Distribution.

## 2. New Configuration settings and Changes

| Setting Placeholder | Setting | Default | Purpose / Controls Access to |
|---|---|---|---|
| AccessString lookup<br><br>UserGroupPermission lookup | Clinical.PreviewSuspended Report | None | Controls access to previewing reports that were suspended by another user |
| Ris.exe.config | Before:<br>&lt;appSettings&gt;<br>  &lt;add key="defaultEndPointName" value="NetTcpBinding_IStudyService" /&gt;<br>  &lt;add key="ClientSettingsProvider.ServiceUri" value="" /&gt;<br>  &lt;!--&lt;add key="RowLevelCacheDataSetNamesCSV" value="*"/&gt; --&gt;<br> &lt;/appSettings&gt;<br><br>After:<br>&lt;appSettings&gt;<br>  &lt;add key="defaultEndPointName" value="NetTcpBinding_IStudyService" /&gt;<br>  &lt;add key="ClientSettingsProvider.ServiceUri" value="" /&gt;<br>  &lt;add key="LookupTableTimeToLiveInMinutes" value="5"/&gt;<br>  &lt;add key="ShouldCloseViewSessionOnThread" value="false"/&gt;<br>  &lt;!--&lt;add key="RowLevelCacheDataSetNamesCSV" value="*"/&gt;--&gt;<br> &lt;/appSettings&gt; &lt;/appSettings&gt; | False | |

## 3. Defects Resolved

| Redmine # | Subject | Priority |
|---|---|---|
| 4019 | Patient search error on patient who had multiple merges | Urgent |
| 4091 | (Stale cache issue) Can't open scan doc nugget if you have no prefence set... | Urgent |
| 3989 | Reporting - Error on submit and next | Urgent |
| 3919 | RadNet - Prevent users from distributing "SUSPENDED CASES" | Urgent |
| 4040 | RadNet - Chair - Don't show null chairs in pending dictation worklist | High |
| 3513 | DB showing expensive query on retrieve image of doctors signature for diagnostic report | High |
| 3518 | Procedure Plans may not appear correctly on IVT work list | High |
| 4080 | logging of failures to obtain a lock | Normal |
| 4075 | PACS integration can pause main application thread while waiting for a close session reply | Normal |
| 4069 | Memory Leak specific to Reporting and Break Lock | Normal |
| 4064 | YellowSticker XML notes sometimes fail and don't properly handle the error | Normal |
| 4059 | Reporting - Writing Yellow Sticker not writing exception | Normal |
| 4056 | Reporting - Activate/Deactivate errors. | Normal |
| 4050 | Reporting - Invoke begininvoke cannot be called... | Normal |
| 4032 | Scanning - Canon Flatbed scanners are locking up RIS | Normal |
| 4024 | Reporting - Reduce # of WS Calls | Normal |
| 3979 | Performance - recently accessed patients should only be saved on app exit | Normal |

## 4. Package Contents

Files included for this server update:

1) GUI ZIP Updates folder contains
   a) rRIS_1.3.40.18063.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_014.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 |

| 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 |
| 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 |

## 8. Installing

1) Copy and replace the current rRIS…zip file with the rRIS_1.3.40.18063.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_014.sql file against the eRAD RIS database instance.