Server Update

For eRAD RIS
Version 1.0
Build 40
Update 40.004

Table of Contents

PLEASE READ – This server release was created to support west coast operations with the addition of Order Level IVT (see new features). As development began on this server release additional issues were identified with east coast operations. The next server release of 1.40.005 (GUI file version 1.3.40.17087) has also been released with the additions made in this server release with additional features and bug fixes.

If you install this server release, proceed to install the 1.40.005. Keep in mind that .sql scripts are unique for each release and will have to be run on you eRAD RIS database.

1. New Features

Order Level IVT

This patch release contains a new feature to have orders requiring Insurance Verification and/or PreCert approval. Essentially the IVT list will be the same, except now it will have the addition of procedures in Ordered status.

This is a configurable option that is controlled by a new systemconfig setting **OrderLevelIVT.** The default value is **False** (off).

System Config Code	Value	Default	Description	
Contains: ⊽	Contains: ⊽	Contains: ⊽	Contains:	⊽
⚙ Click here to add a new row				
OrderLevelIVT		False	(value = true/false) Determines if IVT will first be calculated at order level	

Figure 1.1 – SystemConfig lookup table displaying OrderLevelIVT code

Once this setting is turned on, opening the IVT WL you will see the Ordered Status procedures on the work list. The procedures PreCert can be approved and insurance verified before the procedure is scheduled.

Flags	Status	Procedures	Order Date	Scheduled Date
	⊽ Starts... order ⊽	⊽	⊽	⊽
✅	Ordered	CT Abdomen W & Pelvis W & CTA Chest W/Wo [CT54] - Abdomen	04-01-2013 2:08 PM	
🟨	Ordered	CT Abdomen W & Pelvis W [CT9] - Abdomen	03-28-2013 10:53 AM	
	Ordered	FL Arthrogram Elbow CT [FL9] - Elbow	03-25-2013 3:29 PM	
	Ordered	XR ABDOMEN AP, KUB [74000] - Abdomen	03-22-2013 1:55 PM	
🟨	Ordered	CT Chest W & Abdomen W/Wo [CT42] - Chest	03-18-2013 2:33 PM	03-18-2013 1:55 PM

Figure 1.2 – IVT WL displaying Ordered status procedures

Users may notice the Scheduled Date column is populated for procedures in Ordered status on the IVT work list. The reason for this is because EMR orders may have been scheduled and after the order is scheduled, the EMR order is cancelled because a new EMR order was required (missing information, procedure change, etc…). The cancelled EMR order remains in Ordered status until the new EMR order is matched with the scheduled study, thus the cancelled EMR order on the IVT WL shows a Scheduled Date.

The Status will update for the study on the IVT work list accordingly as the study proceeds through the work flow.

2. Defects resolved

Redmine #	Subject	Priority
3421	Spelling dictionaries not practice specific - cross contamination possible	High

3. Package Contents

Files included for this server update:

1) GUI ZIP Updates folder contains
   a) rRIS_1.3.40.16967.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) Interop.FAXCOMEXLib.dll
   h) Microsoft.Practices.EnterpriseLibrary.Caching.dll
   i) Microsoft.Practices.EnterpriseLibrary.Caching.pdb
   j) Microsoft.Practices.EnterpriseLibrary.Common.dll
   k) Microsoft.Practices.EnterpriseLibrary.Common.pdb
   l) Microsoft.Practices.EnterpriseLibrary.Logging.dll
   m) Microsoft.Practices.EnterpriseLibrary.Logging.pdb
   n) Microsoft.Practices.ServiceLocation.dll
   o) Microsoft.Practices.ServiceLocation.pdb
   p) Microsoft.Practices.Unity.dll
   q) Microsoft.Practices.Unity.Interception.dll
   r) Microsoft.Practices.Unity.Interception.pdb
   s) Microsoft.Practices.Unity.pdb
   t) Microsoft.Web.Infrastructure.dll
   u) Newtonsoft.Json.dll
   v) Newtonsoft.Json.xml
   w) Ninject.dll
   x) Ninject.Web.Common.dll
   y) Ninject.Web.Common.xml
   z) Ninject.xml
   aa) O2S.Components.PDFRender4NET.dll
   bb) PDFToImages.exe
   cc) rRISServices.exe
   dd) rRISServices.pdb
   ee) rRISServices.vshost.exe
   ff) ScheduledTaskManager.dll
   gg) ScheduledTaskManager.pdb
   hh) SignatureApprovalService.exe
   ii) SignatureApprovalService.pdb
   jj) System.Net.Http.dll
   kk) System.Net.Http.Formatting.dll

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

3) SQL folder contains:
    a) B40_004.sql

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.

6. 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, and Database updates |

7. Installing

1) Copy and replace the current rRIS…zip file with the rRIS_1.3.40.16967.zip file provided with this release.
   Be sure to make a backup of the ris.exe.config file contained within the .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) Run the B40_004.sql file against the eRAD RIS database instance.