Server Update

For eRAD RIS
Version 1.0
Build 40
Update 40.005

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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		C
🟨	Ordered	CT Abdomen W & Pelvis W [CT9] - Abdomen	03-28-2013 10:53 AM		L
	Ordered	FL Arthrogram Elbow CT [FL9] - Elbow	03-25-2013 3:29 PM		J
	Ordered	XR ABDOMEN AP, KUB [74000] - Abdomen	03-22-2013 1:55 PM		A
🟨	Ordered	CT Chest W & Abdomen W/Wo [CT42] - Chest	03-18-2013 2:33 PM	03-18-2013 1:55 PM	F

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.

Reporting – Lock Section Titles

In the past section titles could be inadvertently removed, edited, etc… as the section titles were not locked down from the user.

In Server Release 1.40.005 a user preference was added under the Report Editor tab called "Protect section headers".
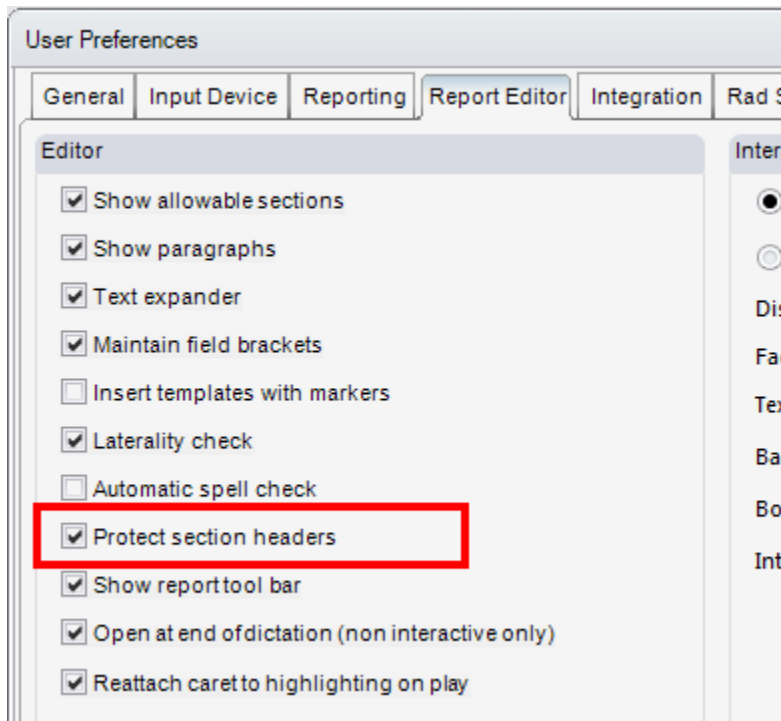

Figure 1.3 – User preference "Protect section headers"

When this User Preference is selected, the section titles in the reporting window will be "locked down". The user will not be able to add, edit, or remove section titles.

In addition to the new user preference, a new icon/toggle button called "Protect sections" has been added to the formatting toolbar in the reporting window. When the user preference is selected as shown in figure 1.3, the Protect section button will be toggled on.
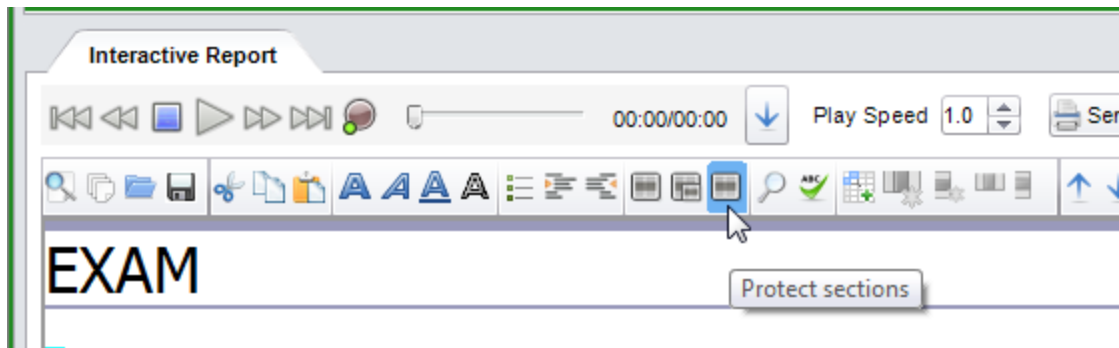
Figure 1.4 – Protect sections button added to formatting toolbar in reporting window

If the user does want to add, edit or remove a section title while in the reporting window, they can simply click on the Protect sections button to toggle off the lock of the section titles. Once they changes are made, they can toggle it back on if they so choose.

When the window is committed, closed or skipped, the next study that is opened in the reporting window will take the default action of the user preference.

2. Defects Resolved

Redmine #	Subject	Priority
3506	Precert rule on CPT code not working when more than one procedure scheduled	High
3488	PreCert - Add study that requires precert at time of reschedule, precert is not required	High
3503	Add procedure row at new appointment or at the time registration throws error.	High
3515	User preference for Locking Section Titles is not visible in User Preferences window	Normal
3516	IVT - Orders from cancelled studies don't have Precert and are not added to the IVT work list	High
3511	DTC exception when attempting to manually change status	High
2397	Reporting - ability to lock down section titles and not allow editing	Normal
3517	appointment book background not coloring	Normal
3421	Spelling dictionaries not practice specific - cross contamination possible	High
3529	Unread exams slow	Normal
3512	WL Filter not working when like "!breast!dexa!mammo" or like "!breast & !dexa & !mammo"	High
3530	Billing ORU files no longer formatted correctly	Immediate
3536	RADAR integration at SE resulted in a patient being called more than once	Immediate
3557	CC Physicians not getting reports	Immediate
3523	some columns not populated in worklist	High
3528	Magview reports come in via HL7 containing 	High
3535	object reference error in forms and labels editor and row selection issues	High
3539	My pending signature WL no show rows if transcribed studies are updated after they have been transcribed	High
3552	original_study_key not being set when scheduling a followUp order BIRADS 0 wl	High
3520	CC doctors were not getting faxes	Urgent
3555	SystemSkin Error in CDImport Grid	Normal
3549	Order from cancelled study does not have Billing code in IVT window	High
3556	ARS - SpeechMike issue with play/record - can lose dictation (Batch)	High

3. Package Contents

Files included for this server update:

1) GUI ZIP Updates folder contains
   a) rRIS_1.3.40.17087.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_005.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, 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

7. Installing

1) Copy and replace the current rRIS…zip file with the rRIS_1.3.40.17087.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_005.sql file against the eRAD RIS database instance.