

Server Update

For eRAD RIS

Version 2.0














Build 2.2017.3

Update 2.2017.3.1

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INTENDED AUDIENCE

The intended audience for this document is the RadNet Clinical Systems team and the eRAD Support/Service team.

It is appropriate to share the document with any customers applying the patch, in order to review new feature descriptions and resolved defects.

WHO IS AFFECTED

Build 2017.3 installs. This server update must be applied to 2017.3.

NEW FEATURES

The features included with this eRAD RIS Server Update were originally released in 2016.7.13 and are now being merged into the 2017.3 build. The feature number listed first is the 2017.3.1 Redmine tracking number, followed by the associated 2016.7.13 Redmine number.

FEATURE #17896 / 17597/17544 - SCHEDULED START DATE ADDED TO CHAIR API, WHICH WILL SORT CHRONOLOGICALLY

This feature is for customers using the Chair API. The Chair API now includes the Scheduled Start Date and returns the oldest studies first. This enables the Chair workflow engine to assign aging studies first.

Scheduled Start Date was added as a field in the output of two Chair API requests. Additionally, the results of any requests to obtain an exam list by chair and by status are now sorted by Scheduled Start Date, with the oldest dates listed first.

A change has also been made to make the previously hard coded “7 day filter” configurable. Previously, the Chair API limited query results by chair and status to include exams that had been scheduled within the past 7 days. An optional parameter, *IncludeAllDates*, has been added to bypass the 7 day filter on Scheduled Start Date. This parameter will default to false if not specified and the original behavior will be maintained.

Figures 1 through 3, below, illustrate the XML:

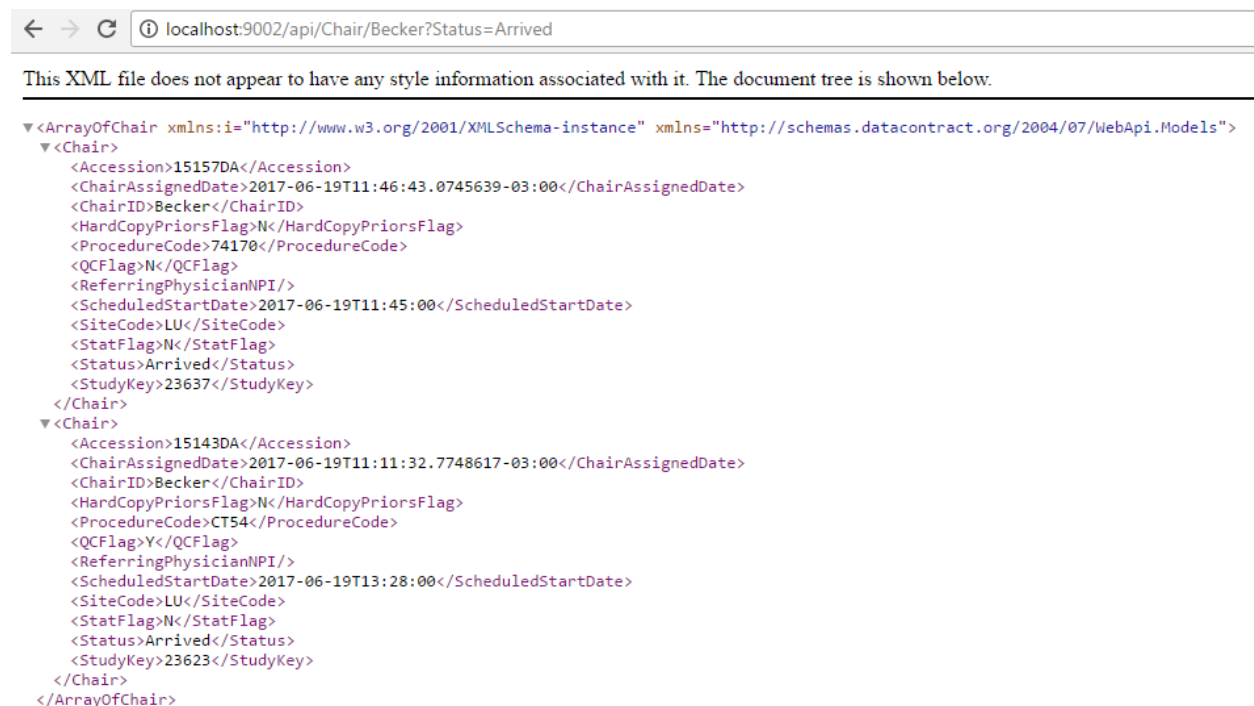


Figure 1 – Get Exam list by chair and status



Figure 2a – Get Exam list by chair and status with ReturnAllDates = true to include older studies



Figure 2b – Get Exam list by chair and status with ReturnAllDates = false to exclude older studies (compare to Figure 2a)

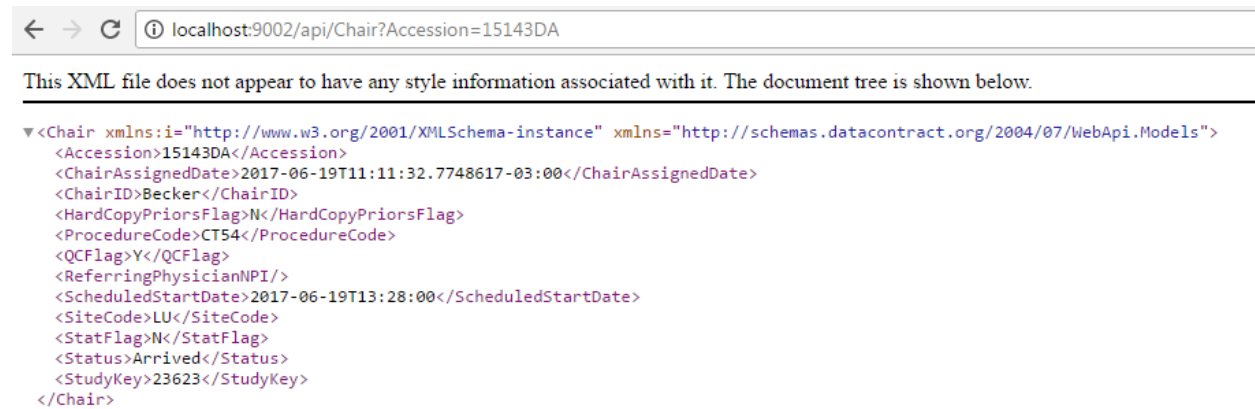


Figure 3 - Get Chair Data by Accession

FEATURE #17865 / 17829 - CONFIGURABLE OPTION TO SUPPRESS UNPRINTED BI-RADS 0 LAY LETTERS WHEN NEWER BI-RADS IS AVAILABLE FOR THE PATIENT

There is now a System Configuration setting that will suppress unprinted BI-RADS 0 Lay Letters when a more current BI-RADS exists for the same patient. For example, if a patient's BI-RADS 0 Lay Letter has not been printed by the time they return for their additional imaging, the new exam's Lay Letter would effectively replace the original BI-RADS 0 Lay Letter when the BI-RADS for the new report is anything other than 0.

The default for this new setting will be False. The recommendation for U.S. customers is to leave this setting as false to ensure that patients receive Lay Letters for every BI-RADS exam.

The new System Configuration setting is named *SuppressAllUnprintedBIRADS0LayLetters*.

Please note that this setting does not impact the workflow for unprinted Lay Letters when an addendum is done for the *same* study. If a Lay Letter has not been printed and an addendum is done on that study, the Lay Letter will continue to be replaced with an updated Lay Letter if the BI-RADS information has been updated. This System Configuration setting has no impact on this workflow, which remains unchanged.

FEATURE #17879 / 17748 – ALLOW ERAD RIS SERVICE AND SUPPORT TO ADD COLUMNS TO RETRIEVE FOR PATIENT FOLDER

ALERT: This feature is meant to be used by eRAD Support only. Adjustments should only be made under the direction of an eRAD Support team member.

Recently, a change was made to the way eRAD RIS retrieves data for the Patient Folder, which had been retrieving more data from the database than was necessary to display the information needed in the visible columns.

In reducing the data retrieved for the Patient Folder, it became evident that some information that is not displayed in the worklist columns is nevertheless used for certain functions, such as determining which context menu options should be available. If the data was not available, the user could receive an error or lose access to certain functionality that is dependent upon the data.

eRAD RIS is once again retrieving the data that was identified as supporting such functions; however, it is beneficial to have a method for eRAD Support to add additional database columns to the set for retrieval, in case it is discovered in the field that additional data is required for an unforeseen function.

To support this, a new System Configuration setting has been added: *PatientFolderExtraColumnsToGet*. This setting will allow a comma separated list of columns to retrieve from the database in addition to the hard coded set. Any column names that are not part of the c_vw_PatientFolder view are deemed invalid and are not retrieved. This will prevent an exception from occurring in the Patient Folder if an invalid column name is entered in System Configuration.

RIS Development should be notified anytime eRAD Support resorts to adding a column to this System Configuration setting, so that adjustments can be made in the next release.

FEATURE #17997 / 17460 - UM CLOCK SHOULD START COUNTING WHEN THE ORDER FIRST QUALIFIES AS UTILIZATION REVIEW REQUIRED

The UM Clock previously used an order's requested date as the start value (time stamp). Typically, this is the date the order was created in RIS. There are some scenarios where the UM Clock should not use the requested date of the order as a starting point, but rather the date the procedure became qualified for utilization review.

For example, an order exists for an X-Ray (UM not required). The X-Ray is changed to a CT procedure 2 days later, which requires utilization review. Since the procedure did not require utilization review until it was changed to a CT, the UM Clock will not use the date that the original order (X-Ray) was created. The UM Clock will instead start as soon as the order first required utilization management (i.e. the date it was changed to a CT).

Service Notes:

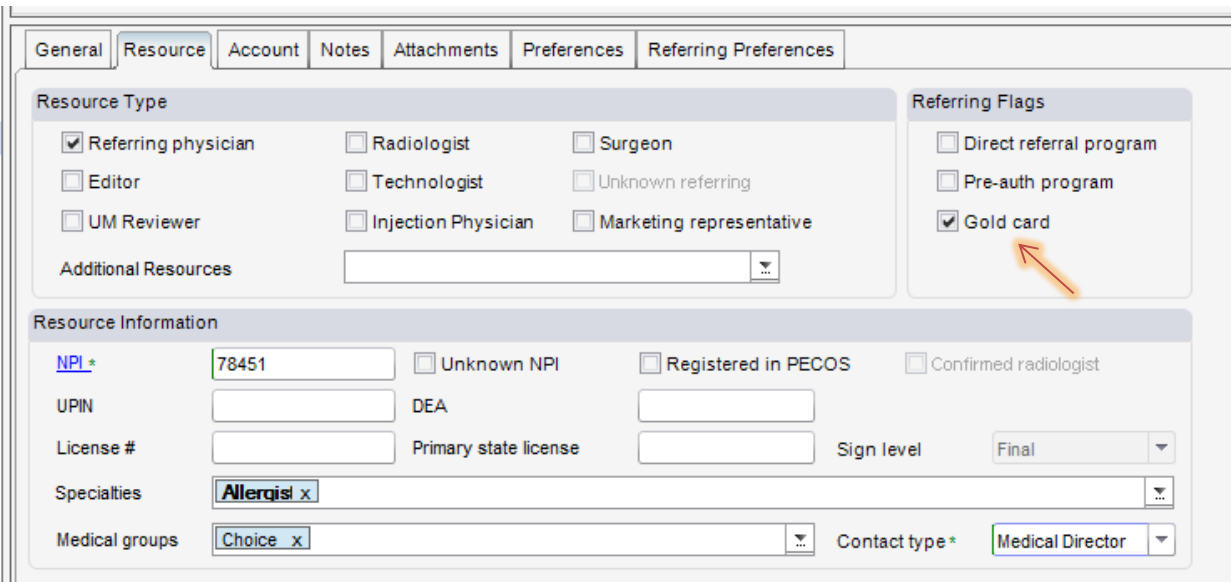
A new column called *um_received_date* has been added to the c_order_item table. This date/time column will be set anytime a procedure is flagged for utilization review. The UM Clock will use the Received Date as the start parameter.

If an order has multiple procedures that require utilization review, the system will use the oldest Received Date.

If for some reason there is not a Received Date available, the system will revert back to using the Requested Date at the order level which is always available.

FEATURE #17999 / 17394 - ORDERS FROM GOLD CARD PHYSICIANS THAT REQUIRE UTILIZATION REVIEW SHOULD AUTOMATICALLY ROUTE TO SCHEDULING

Previously, when a referring physician was flagged as “Gold Card,” eRAD RIS would display this flag and the corresponding notes, but it was up to the UM reviewer to evaluate the notes and determine whether the order should bypass the utilization review process.



The screenshot displays the 'Referring Flags' section of the eRAD RIS interface. The 'Gold card' checkbox is selected, indicated by an orange arrow. Other flags include 'Direct referral program', 'Pre-auth program', and 'UM Reviewer'. The 'Resource Type' section shows 'Referring physician' selected. The 'Resource Information' section includes fields for NPI, UPIN, License #, Specialties, and Medical groups.

It is now possible to configure eRAD RIS to automatically bypass the Utilization Review workflow when the referring physician is flagged as Gold Card. With this configuration, schedulers can proceed immediately to scheduling the procedure without waiting for the utilization review process. The order is automatically flagged as UM Complete and a UM Tracking Number is assigned.

To enable this workflow, a new system configuration value called *UMGoldCardAutoApprove* with a default value of “True” has been added to the system.

When *UMGoldCardAutoApprove* is enabled, any orders for Gold Card physicians that require utilization review will be given a new UM Tracking Number and marked as UM Complete, so they can advance to scheduling immediately.

When *UMGoldCardAutoApprove* is *disabled*, any orders for Gold Card physicians that require utilization review will be given a new UM Tracking Number and marked as UM Required, so they can advance to the Utilization Management Worklist to be reviewed.

Schedulers will be able to identify that a referring physician is part of Gold Card by looking at the label next to the referring physician’s name on the Order tab. It will appear in the same location as the existing label for “Pre-auth program.” A referring physician can be labeled as Gold Card, Pre-auth program, or both.

Orders To Schedule (497) Schedule Order: UM, Diana #8977PE x

Patient Patient Notes Contacts / Demographics Order Clinical Schedule Image Request (0) Billing Codes Review Contact Log UM

Reason for exam
chest pain

Referring Details
Referring *Smith, Alfons, (Gold card)
Visited at *Milton Road, 167 White Hague St., Seattle, Vermont, 48941
Img notes Test Notes

CC Physicians
Visit location for CO
☐ Copy to patient

Preferred Location
Practice * (ADV) Advanced Radiology
Site (EL) Eldersburg

Flags
☐ Direct referral ☐ Transportation required
☐ STAT exam Special accommodations * No
☐ STAT read
☐ STAT PreCert
Class * Unknown
Sedation
☐ Transition of care
☐ Provided educational res.

NEW CONFIGURATION SETTINGS

SYSTEM CONFIGURATION SETTINGS

Setting	Default	Purpose
PatientFolderExtraColumnsToGet	n/a	(value = string) Comma separated list of additional columns to retrieve for the patient folder. Columns must exist in the patient folder view. SERVICE ONLY. Please report to RIS Development when used.
SuppressAllUnprintedBIRADSOLay Letters	False	Suppresses all unprinted BI-RADS 0 Lay Letters if a new report is signed for the patient with any BI-RADS other than 0. Recommendation for this setting is False.

RESOLVED ITEMS

eRAD RIS

Redmine #	Subject
18012	Corrected issue with slow performance after updating to 2016.7.13.
17940	Resolved an issue in which billing codes were not added after changing the procedure under certain conditions.
17932	It is again possible to remove the QA Flag on the All Pending Signature WL.
17762	No longer receive an error when taking the default action from Exam Search.
17771	Resolved an error related to an empty updateservers.txt which could prevent RIS from loading.
17680	Reverted the c_audit cluster index change that was made in 2017.3 from the upgrade scripts. Some changes are required before this can be implemented.

The following list contains bugs or features that have been resolved in previous RIS versions and have been added to this version of eRAD RIS to provide an upgrade path. Features are also described in the New Features section.

Redmine #	Subject	Original Resolved Version
17906	Log file from deployment script differentiates which management reports use the "Real-Time" and which use the "Alternate" reporting server.	2017.4 (future version)
17872	Resolved an issue with contrast requirements when patient has multiple studies.	2016.7.13
17887	Database option pack created to backfill _primary_study_key prior to upgrade to prevent the upgrade from taking an	2016.7.13

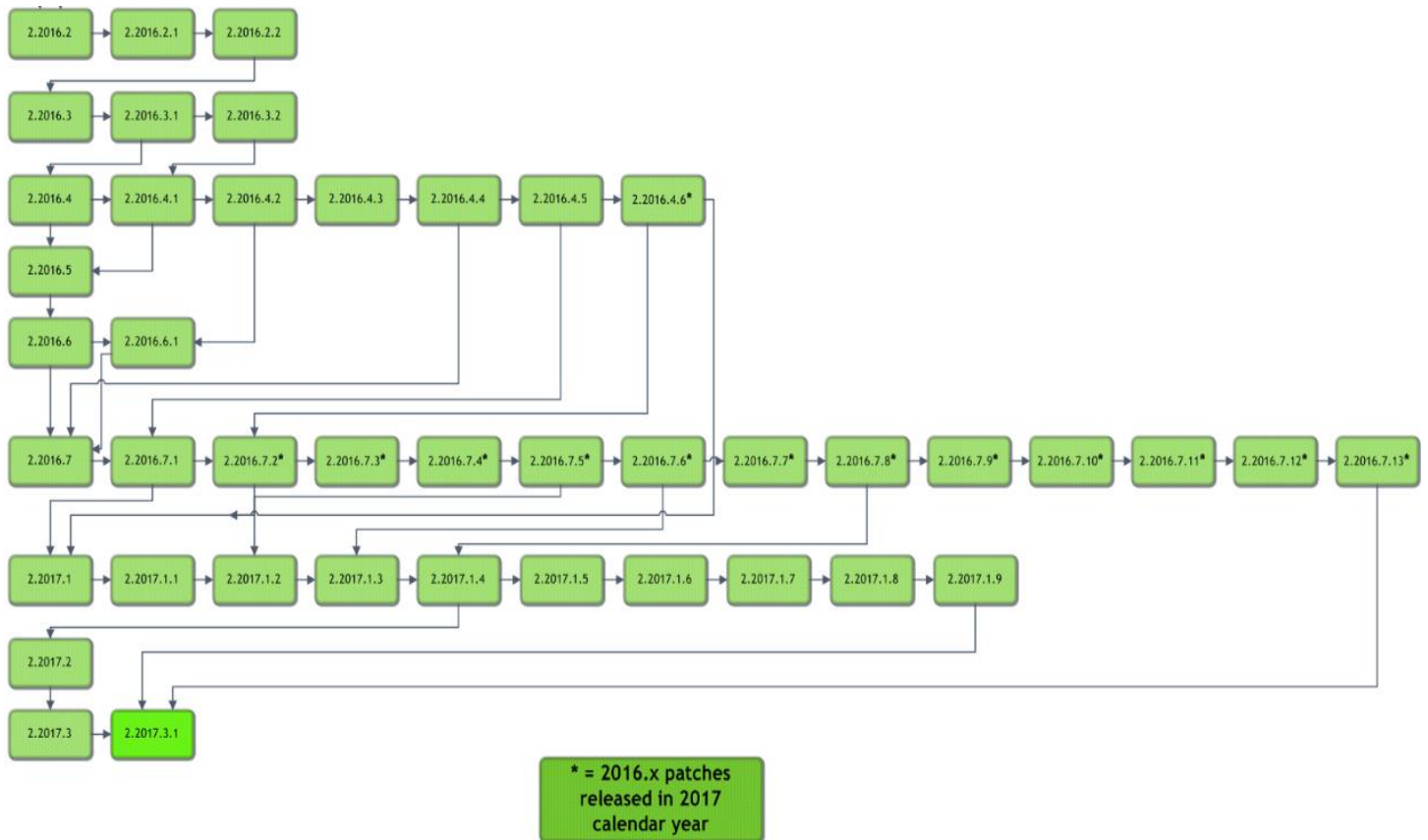
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	excessively long time for large data centers.	
17888	An alias was added for the Reading Group column in the view c_vw_WL_Dictated, as it was noticed that the alias had changed.	2016.7.13
17889	An upgrade script was added for resolved defect #16617.	2017.4 (future version)
17893	Addressed an issue with performance problems in the PreCert Group Editor.	2016.7.13
17894	Resolved an issue with exams scheduled from Cancelled appointments inappropriately retaining their PreCert status. Also revised check on expiry date to ensure that PreCert status will be set to Required if the Expiry Date is prior to the new scheduled date <i>or</i> the Expiry Date was blank when rescheduling from an Approved exam.	2016.7.13
17895	Temporarily disabled <i>EnableExtraCompressionOnStudyUpdates</i> until further changes are made.	2016.7.13
17897	An index was added to improve performance during a patient search (previously caused excessive IO).	2016.7.13
17898	Changed an index to improve efficiency of a Chair workflow query.	2016.7.13
17899	Index used by UM Management Reports is now only referencing UM Finalized dates that are not null.	2016.7.13
17900	Added a missing index on c_study_item_sedation for study_item_key.	2016.7.13
17901	The study dataset has been updated to take advantage of a new computed column to increase efficiency when determining the primary study.	2016.7.13

17902	Eliminated unnecessary database calls for linked interpretation rows to improve performance.	2016.7.13
17903	No longer retrieving unnecessary database columns for Patient Folder.	2016.7.13
17904	Resolved a performance issue with excessive service calls when searching for carriers.	2016.7.13
17908	The increased time for RIS GUI GetData calls to RIS Services has been reduced.	2016.7.13

CODE STREAM

**Legend:**

Light Green = Previously Released software

Bright Green = Current Release

ERAD RIS RELEASE VERSION NUMBERS

Build	Patch	UI Version	Core Version	WS Version	DB Version	Digital Forms	Patient Portal	UM Portal	Provider Portal	Notes
2016.2	-	2.16.2.0 (3GB)	2.16.2.0	2.16.2.0	2.16.2.0.00172540					Full Version Release - GUI.zip, Web Service, DB, Management Reports, Questionnaire and Citrix Bridge
2016.2	1	2.16.2.1 (3GB)	2.16.2.0	2.16.2.0	2.16.2.0.00172540					GUI.zip and Citrix Bridge
2016.2	2	2.16.2.2 (3GB)	2.16.2.0	2.16.2.0	2.16.2.0.00243102					GUI.zip, DB and Citrix Bridge
2016.3	-	2.16.3.0 (3GB)	2.16.3.0	2.16.3.0	2.16.3.0.00257101	2.16.3.0				Full Version Release
2016.3	1	2.16.3.1	2.16.3.0	2.16.3.1	2.16.3.1.00298834	2.16.3.0				GUI.zip, Web Service and DB
2016.3	2	2.16.3.2	2.16.3.0	2.16.3.2	2.16.3.1.00298834	2.16.3.0				GUI.zip and Web Service
2016.4	-	2.16.4.0	2.16.4.0	2.16.4.0	2.16.4.0.00301943	2.16.4.0	1.16.4.0.310284			Full Version Release
2016.4	1	2.16.4.1	2.16.4.0	2.16.4.1	2.16.4.0.00301943	2.16.4.0	1.16.4.0.310284			GUI and Web Service updates
2016.4	2	2.16.4.2 (3GB)	2.16.4.0	2.16.4.1	2.16.4.0.00301943	2.16.4.0	1.16.4.2.460241			GUI and Patient Portal updates
2016.4	3	2.16.4.3 (3GB)	2.16.4.0	2.16.4.3	2.16.4.3.00483474	2.16.4.0	1.16.4.3.489120			GUI and Patient Portal updates
2016.4	4	2.16.4.4 (3GB)	2.16.4.0	2.16.4.3	2.16.4.3.00483474	2.16.4.0	1.16.4.3.489120			GUI
2016.4	5	2.16.4.5 (3GB)	2.16.4.0	2.16.4.3	2.16.4.3.00483474	2.16.4.0				GUI
2016.4	6	2.16.4.6 (3GB)	2.16.4.0	2.16.4.3	2.16.4.3.00483474	2.16.4.0				GUI
2016.5	-	2.16.5.0 (3GB)	2.16.5.0	2.16.5.0	2.16.5.0.00349303	2.16.5.0	1.16.5.0.362009			Full Version Release
2016.6	-	2.16.6.0 (3GB)	2.16.6.0	2.16.6.0	2.16.6.0.00411295	2.16.6.0	1.16.6.0.432471			Full Version Release
2016.6	1	2.16.6.1 (3GB)	2.16.6.0	2.16.6.0	2.16.6.0.00411295	2.16.6.0	1.16.6.1.468583			GUI and Patient Portal updated
2016.7	-	2.16.7.0 (3GB)	2.16.7.0	2.16.7.0	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		Full version release
2016.7	1	2.16.7.1 (3GB)	2.16.7.0	2.16.7.1	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI and Web Service updates
2016.7	2	2.16.7.2 (3GB)	2.16.7.0	2.16.7.2	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI and Web Service updates
2016.7	3	2.16.7.3 (3GB)	2.16.7.0	2.16.7.3	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI and Web Service updates
2016.7	4	2.16.7.4 (3GB)	2.16.7.0	2.16.7.3	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI
2016.7	5	2.16.7.5 (3GB)	2.16.7.0	2.16.7.3	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI
2016.7	6	2.16.7.6 (3GB)	2.16.7.0	2.16.7.6	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI and Web Service updates
2016.7	7	2.16.7.7 (3GB)	2.16.7.0	2.16.7.7	2.16.7.0.00490835	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI and Web Service updates
2016.7	8	2.16.7.8 (3GB)	2.16.7.0	2.16.7.7	2.16.7.8.00683507	2.16.7.0	1.16.7.0.493031	2.16.7.0.493008		GUI and DB updates
2016.7	9	2.16.7.9 (3GB)	2.16.7.0	2.16.7.9	2.16.7.9.00715012	2.16.7.0	1.16.7.0.493031	2.16.7.9.723457		GUI, Web Services, DB updates and UM Portal
2016.7	10	2.16.7.10 (3GB)	2.16.7.0	2.16.7.10	2.16.7.9.00715012	2.16.7.0	1.16.7.0.493031	2.16.7.9.723457		GUI and Web Service updates
2016.7	11	2.16.7.11 (3GB)	2.16.7.0	2.16.7.11	2.16.7.11.00761267	2.16.7.0	1.16.7.0.493031	2.16.7.9.723457		GUI, Web Service and DB updates
2016.7	12	2.16.7.12 (3GB)	2.16.7.0	2.16.7.11	2.16.7.11.00761267	2.16.7.0	1.16.7.0.493031	2.16.7.9.723457		GUI
2016.7	13	2.16.7.13 (3GB)	2.16.7.0	2.16.7.13	2.16.7.13.00823274	2.16.7.0	2.16.7.13.805715	2.16.7.13.805717		GUI, Web Service, DB, Patient and UM Portal updates
2017.1	-	2.17.1.0 (3GB)	2.17.1.0	2.17.1.0	2.17.1.0.00559886	2.17.1.0	2.17.1.0.572290	2.17.1.0.000000		Full Version Release
2017.1	1	2.17.1.1 (3GB)	2.17.1.0	2.17.1.1	2.17.1.1.00589952	2.17.1.0	2.17.1.0.572290	2.17.1.0.000000		GUI, Web Service and DB updates
2017.1	2	2.17.1.2 (3GB)	2.17.1.0	2.17.1.2	2.17.1.2.00621962	2.17.1.0	2.17.1.0.572290	2.17.1.0.000000		GUI, Web Service and DB updates
2017.1	3	2.17.1.3 (3GB)	2.17.1.0	2.17.1.3	2.17.1.3.00640480	2.17.1.0	2.17.1.0.572290	2.17.1.0.000000		GUI, Web Service and DB updates
2017.1	4	2.17.1.4 (3GB)	2.17.1.0	2.17.1.4	2.17.1.4.00692239	2.17.1.0	2.17.1.4.701924	2.17.1.0.000000		GUI, Web Service, DB and Patient Portal updates
2017.1	5	2.17.1.4 (3GB)	2.17.1.0	2.17.1.5	2.17.1.4.00692239	2.17.1.0	2.17.1.4.701924	2.17.1.0.000000		Web Service
2017.1	6	2.17.1.6 (3GB)	2.17.1.0	2.17.1.5	2.17.1.6.00745281	2.17.1.0	2.17.1.4.701924	2.17.1.0.000000		GUI and DB Updates
2017.1	7	2.17.1.7 (3GB)	2.17.1.0	2.17.1.5	2.17.1.6.00745281	2.17.1.0	2.17.1.4.701924	2.17.1.0.000000		GUI update
2017.1	8	2.17.1.8 (3GB)	2.17.1.0	2.17.1.5	2.17.1.6.00745281	2.17.1.0	2.17.1.4.701924	2.17.1.0.000000		GUI update
2017.1	9	2.17.1.9 (3GB)	2.17.1.0	2.17.1.5	2.17.1.6.00745281	2.17.1.0	2.17.1.4.701924	2.17.1.0.000000		GUI update
2017.2	-	2.17.2.0 (3GB)	2.17.2.0	2.17.2.0	2.17.2.0.00695782	2.17.2.0	2.17.2.0.702238	2.17.2.0.702213	2.17.2.0.702226	Full Version Release. First release of Provider Portal
2017.3	-	2.17.3.0 (3GB)	2.17.3.0	2.17.3.0	2.17.3.0.00764112	2.17.3.0	2.17.3.0.321	2.17.3.0.321	2.17.3.0.321	Full Version Release. Including Patient, Provider and UM Portals
2017.3	1	2.17.3.1 (3GB)	2.17.3.0	2.17.3.1	2.17.3.1.00846328	2.17.3.1	2.17.3.1.853299	2.17.3.1.853301	2.17.3.1.856171	GUI, Web Service, DB. Including Patient, Provider and UM Portals

INSTALLING

CLIENT/GUI

Copy and replace the current rRIS...zip file with the eRAD_rRIS_2017.3.1.zip file provided with this release.

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

WEB SERVICE

This updated is only required for the Wedge Web Services. The Core RIS Service and Document Distribution Service are not required to be updated.

1. The web service upgrade consists of replacing the files in the RIS Web Service directory with the files supplied in the rRISService folder with this build. Always create a backup of the files being replaced. This upgrade includes 129 files in the rRISService folder and 7 sub folders. Of those folders, 1 is a folder titled “**XSL**” that contains a sub folder and files within the subfolder. Another folder is titled “**deploy**” that contains the new .config files that will be deployed with the user of the file called “ServicesConfigWizard.exe” (see instructions below). Folders ar (Arabic), he (Hebrew), pt_BR (Brazilian Portuguese), es-AR (Argentina Spanish) and en_AU (Australian English) are localization folders. The WedgePlugins folder contains various plugin files for RADAR, MIRTH, Ensemble, etc...

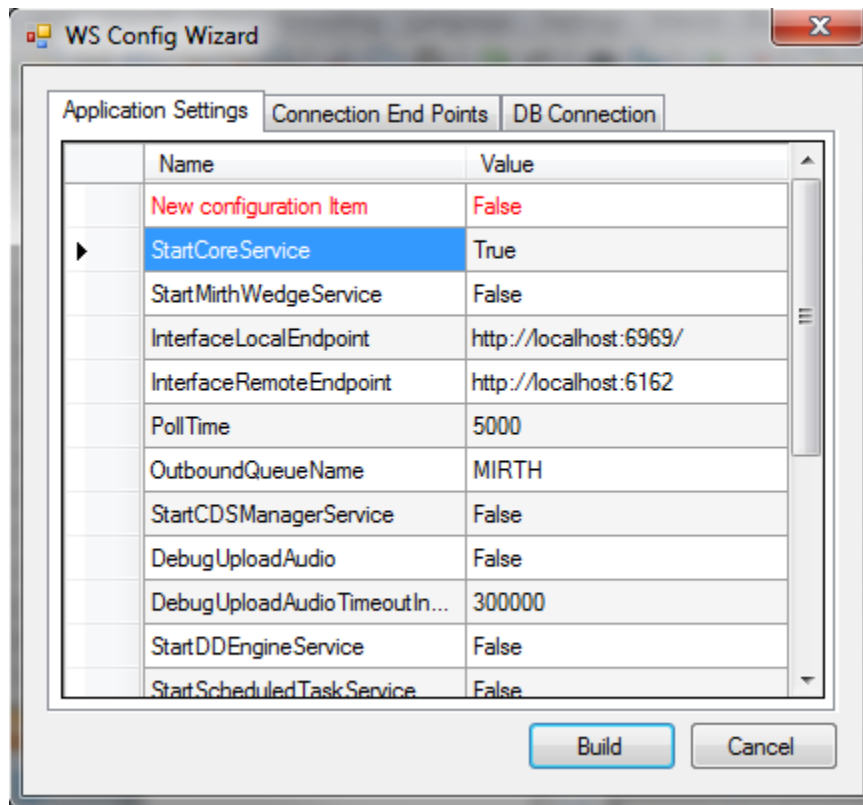
Services Configuration Wizard

With the release of 42 to decrease the chance of losing configuration setting and missing new configuration options, we will no longer include the configuration files in the release in the main set of files, but they will now exist in a “deploy” folder, which will contain the three site configurable config files; applicationsettings, connectionstrings, and services as well as a copy of the rRISServices.exe configuration file. The contents of this folder should not be required to be touched.

On the install of a new service, all files will be copied to the appropriate locations on the server (no configurations will be over written). If instructed or to confirm no new configurations have been added the user can run the new application “ServicesConfigWizard.exe”

This application will read the existing configuration file(s) (if files exist), and compare to the provided new configuration files then will display three tabs, for each configuration file:

Application Settings: all existing configuration value will be displayed, if there are any new configuration entries they will be displayed in red.



Connection End Points: will display the existing configuration, if the value is left blank then that entry will not be created, in the case of “Study Service” or “CDS Service” if both http and net.tcp were not provided then that endpoint will not be created at all.

WS Config Wizard

Application Settings | **Connection End Points** | DB Connection

Study Service

http:// localhost:8040 /rIS/

net.tcp:// localhost:8041 /rIS/

Notify Service

net.tcp:// localhost:7095 /rIS/

CDS Service

http:// localhost:7092 /rIS/

net.tcp:// localhost:7093 /rIS/

Build Cancel

DATABASE UPDATES

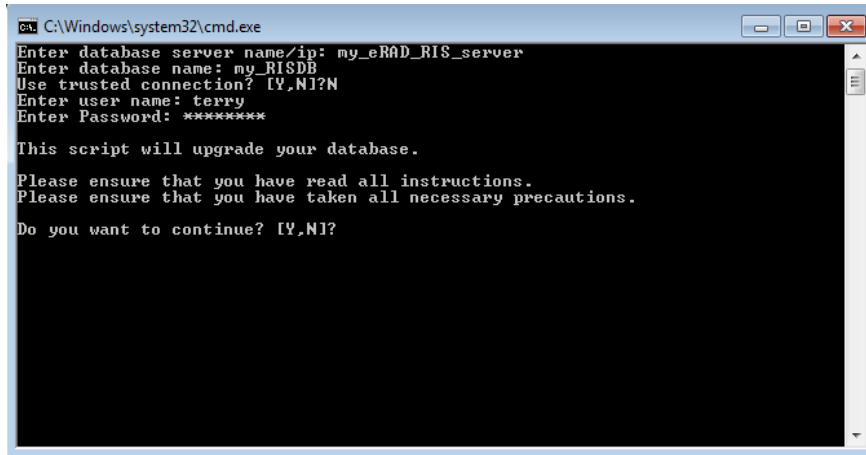
Always run the upgrade scripts in a test environment of the actual database to make sure they run cleanly. If any errors occur please contact development.

Note: There is a new upgrade process introduced with B43.1 called "RunUpgrade.bat". The batch file will open a command window. This process will prompt you for the database server name, database name and authentication credentials. There is no need to run the database upgrade scripts manually as was done in previous releases.

- 1) From the upgrade folder, double click the “RunUpgrade.bat” command file.
- 2) Enter the server name, database name and authentication credentials to the database. You have 2 choices for authentication credentials.

- 3) You can choose to use “Trusted connection”. Using this option will pass the identity of the currently logged on user. If this user has “db_owner” access to the eRAD RIS database then feel free to use this options.
- 4) If you decide not to use “Trusted connection” then you will be prompted for user id and password.

Example:



```
C:\Windows\system32\cmd.exe
Enter database server name/ip: my_eRAD_RIS_server
Enter database name: my_RISDB
Use trusted connection? [Y,N]?N
Enter user name: terry
Enter Password: *****

This script will upgrade your database.
Please ensure that you have read all instructions.
Please ensure that you have taken all necessary precautions.
Do you want to continue? [Y,N]?
```

- 5) After the upgrade program has finished you can find the upgrade logs in the “log” folder. The file name will be eRAD_RIS_db_upgrade_timestamp.log, where timestamp is a value representing the date and time the upgrade started. If you see any errors please contact the development team