

Server Update

For eRAD RIS

Version 3.0












Build 3.2017.6

Update 3.2017.6.3

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PACKAGE CONTENTS

Name	Date modified
 _Documentation	03/22/2018 1:05 PM
 _ReleaseNotes	03/22/2018 2:18 PM
 DB	03/22/2018 1:05 PM
 PatientConnect	03/22/2018 1:07 PM
 Questionnaires	03/22/2018 1:05 PM
 ReferringConnect	03/22/2018 1:07 PM
 rRISService	03/22/2018 1:05 PM
 Service Tools	03/22/2018 1:05 PM
 ThickClient	03/22/2018 1:05 PM
 UM_Portal	03/22/2018 1:05 PM
 Build_2017.6.3.7z	03/22/2018 2:36 PM

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

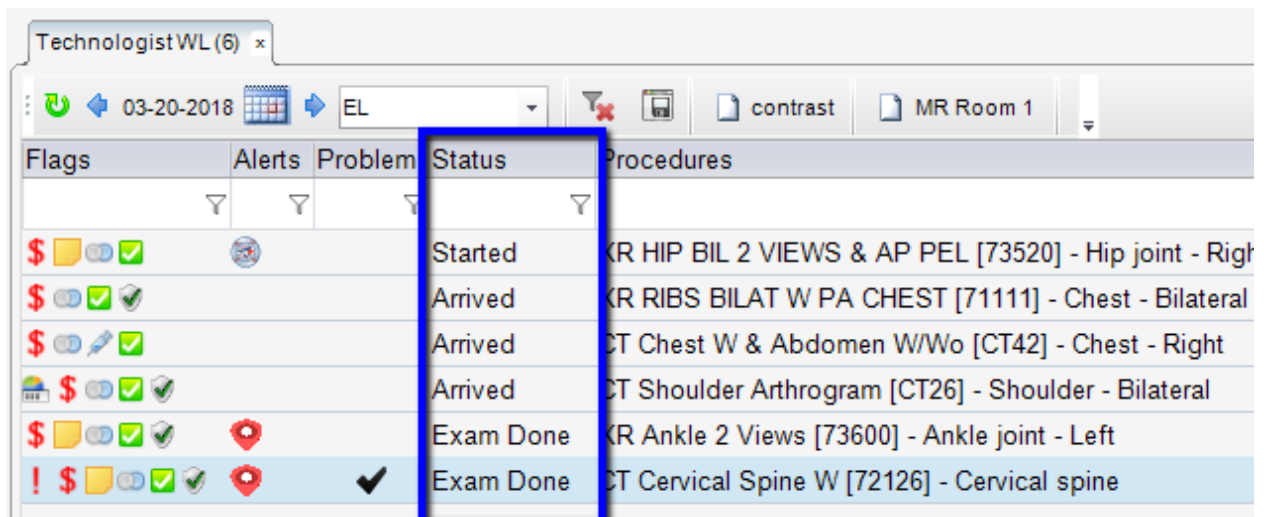
Build 2017.6 installs. This server update must be applied to 2017.6.2

NEW FEATURES

FEATURES #20202, 20203, 20204 – SUPPORT WORKFLOW WHICH REQUIRES EXAM DONE STATUS TO REMAIN ON TECHNOLOGIST WORKLIST

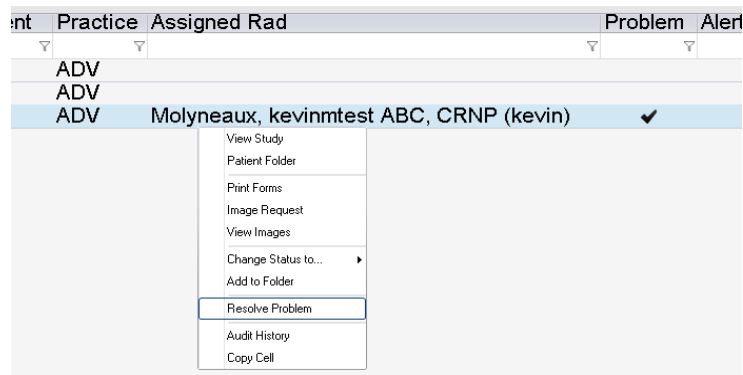
In order to support some customer workflows that require the technologist to take action on a study that has already reached Exam Done status, a new System Configuration setting has been added to eRAD RIS, which will allow the Technologist WL to display exams that are in an Exam Done status.

The System Configuration setting is [ExamDoneOnTechWL](#) with a default of False. Setting this to true will cause Exam Done status to remain on the Technologist WL until the status progresses beyond Exam Done, or the study is cancelled/aborted. Please note that Exam Done (Tech Only) status will **not** be included on the worklist. The visible statuses include Checking In, Arrived, Started, and Exam Done.



Flags	Alerts	Problem	Status	Procedures
\$ [icon]			Started	MR HIP BIL 2 VIEWS & AP PEL [73520] - Hip joint - Right
\$ [icon]			Arrived	MR RIBS BILAT W PA CHEST [71111] - Chest - Bilateral
\$ [icon]			Arrived	CT Chest W & Abdomen W/Wo [CT42] - Chest - Right
\$ [icon]			Arrived	CT Shoulder Arthrogram [CT26] - Shoulder - Bilateral
\$ [icon]			Exam Done	MR Ankle 2 Views [73600] - Ankle joint - Left
! \$ [icon]		✓	Exam Done	CT Cervical Spine W [72126] - Cervical spine

In addition, the Assigned Radiologist column and the Resolve Problem context menu option have been added to the Technologist worklist.



int	Practice	Assigned Rad	Problem	Alert
	ADV			
	ADV			
	ADV	Molyneaux, kevinmtest ABC, CRNP (kevin)	✓	

View Study
 Patient Folder
 Print Forms
 Image Request
 View Images
 Change Status to...
 Add to Folder
 Resolve Problem
 Audit History
 Copy Cell

Please note that studies in Exam Done status cannot be opened in the Perform Exam screen. However, the technologist can leave the tab open after completing if it is necessary to add additional information later in the workflow. It is also possible to roll back the status to Started (Change Status To context menu item), which will make the Perform Exam screen available again.

FEATURE #19748 – AUSTRALIAN CUSTOMERS CAN NOW LINK RADIOLOGISTS TO SITES AND PROVIDE STEM + LOCATION NUMBERS

In Australia, radiologists have *Stem* and *Location* numbers, which are used in billing. The billing information is based on where the patient's study was performed. An exam interpreted by the same radiologist will have different billing information if it was performed at Site A versus Site B. The Stem and Location characters identify the combination of radiologist and site, as is customary in Australian billing workflow. Because this information must be accurate for billing, a Check Number is calculated to verify that the Stem and Location numbers are valid.

In order to provide this information for billing, a new System Configuration setting has been created: *ShowRadiologistSiteAssociations*. The default is False. When set to True, new information can be configured in the Personnel editor for Radiologist users.

If the Radiologist flag is set, a new grid is available on the Resource tab to display *Associated Sites*.

The screenshot shows the 'Resource' tab in the Personnel editor. The 'Resource Type' section has checkboxes for Referring physician, Radiologist (checked), Surgeon, Editor, Technologist, Unknown Referring, UM Reviewer, Injection Physician, and Marketing representative (checked). The 'Referring Flags' section has checkboxes for Direct referral program, Pre-auth program, and Gold card. The 'Resource Information' section includes fields for NPI (with a dropdown for Unknown NPI, Registered in PECOS, and Confirmed radiologist), UPIN, License #, DEA, Primary state license, Sign Level, Specialties, Medical groups, and Contact type. The 'Associated Sites' grid is populated with the following data:

Site	Address	Stem	Loc	Check
dale - daletest	letest	123454	1	H
EL - PT QE PT QE Eldersburg	1430 Progress Way, Suite 108, Eldersburg, MD	123454	2	W
FH - PT QE PT QE Fisher	193 Stoner Avenue, Suite 200, Westminster, MD	123454	3	F
LU - PT QE PT QE Lutherville	1209 York Road, Suite 100, Lutherville, MD			

The grid will automatically be populated with all Sites (and their addresses) which are associated to the Practice(s) that are associated to the user on the Account tab.

Administrators are able to edit the Stem and Location character, which will then display a calculated Check Character, as per the Australian standard.

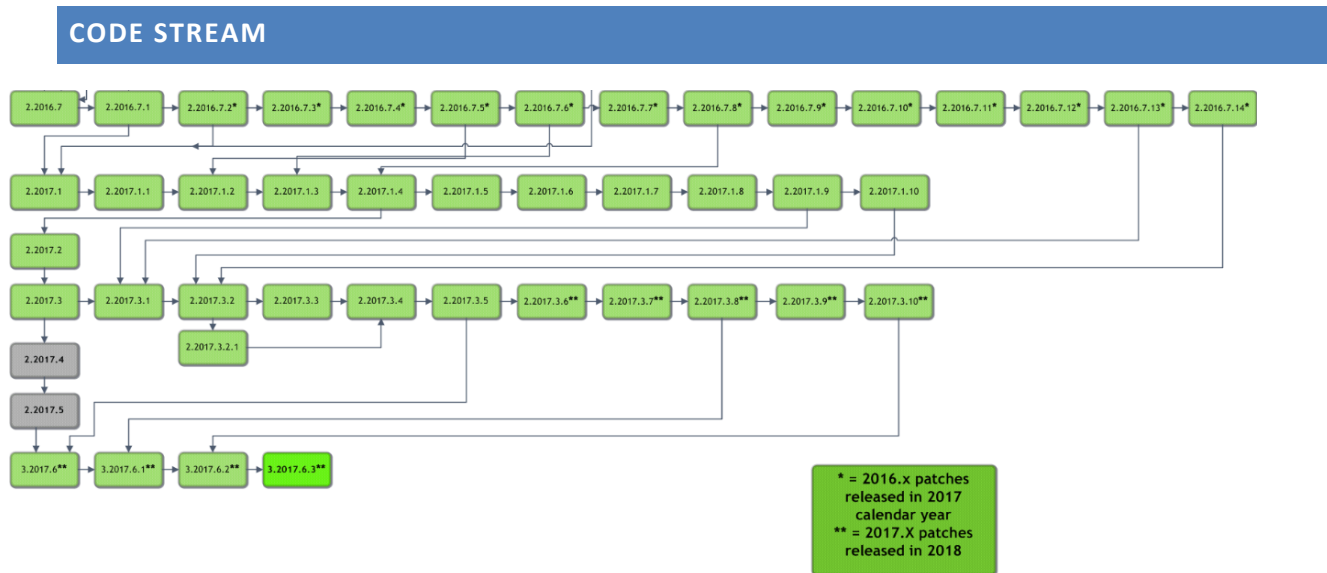
In the Australian language file, the NPI field in the Resource Information section will be labeled "Stem." As a shortcut, if the user has a Stem number populated in this field, this number will be added to the Stem column for all Associated Sites by default. If fewer than 6 characters are entered, the Check Character will not be calculated until the Stem is updated to include 6 characters. If more than 6 characters are entered, only the first 6 will be added to the Associated Site's Stem field.

This is a one-time shortcut. Once the rows for Associated Sites are created, changes to the main Stem field will not impact the Associated Site's Stem settings.

RESOLVED ITEMS

eRAD RIS

Redmine #	Subject
20381	Resolved a timeout error that could occur after switching from Insurance to Self-Pay using Eligibility workflow.
20207	Amount to Collect is now populating correctly for Self Pay orders scheduled via the Patient or Provider Portal.
20355	The Problem Flag is once more applied appropriately using PowerScribe workflow. This restores pre-2017.6 behavior.
20199	Resolved an issue with Core Validation Rules containing a computed expression. This restores pre-2017.6 behavior.
20352	All studies belonging to a Linked Reporting set appropriately trigger the Study Billed Action to allow for proper billing, resolving a previous issue.



Legend:

Light Green = Previously Released software

Gray = Internal version, non-release version

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
2016.7	-	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
2016.7	14	2.16.7.14 (3GB)	2.16.7.0	2.16.7.14	2.16.7.14.00888220	2.16.7.0	2.16.7.14.897644	2.16.7.14.897646		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
2017.1	10	2.17.1.10 (3GB)	2.17.1.0	2.17.1.10	2.17.1.6.00745281	2.17.1.0	2.17.1.4.701924	2.17.1.0.000000		GUI and Web Service 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
2017.3	2	2.17.3.2 (3GB)	2.17.3.0	2.17.3.2	2.17.3.2.00898348	2.17.3.2	2.17.3.2.913898	2.17.3.2.913899	2.17.3.1.856171	GUI, Web Service, DB. Including Patient, Provider and UM Portals
2017.3	2.1	2.17.3.2.1 (3GB)	2.17.3.0	2.17.3.2	2.17.3.2.00898348	2.17.3.2	2.17.3.2.913898	2.17.3.2.913899	2.17.3.1.856171	GUI Only
2017.3	3	2.17.3.3 (3GB)	2.17.3.0	2.17.3.3	2.17.3.3.00954008	2.17.3.2	2.17.3.3.962869	2.17.3.3.962870	2.17.3.3.962870	GUI, Web Service, DB. Including Patient, Provider and UM Portals
2017.3	4	2.17.3.4 (3GB)	2.17.3.0	2.17.3.4	2.17.3.4.00987562	2.17.3.2	2.17.3.3.962869	2.17.3.3.962870	2.17.3.3.962870	GUI, Web Service and DB
2017.3	5	2.17.3.5 (3GB)	2.17.3.0	2.17.3.5	2.17.3.5.01023250	2.17.3.2	2.17.3.5.1023087	2.17.3.5.1025862	2.17.3.5.1023087	GUI, Web Service, DB, Patient Portal, Referring Portal, UM Portal
2017.3	6	2.17.3.6 (3GB)	2.17.3.0	2.17.3.6	2.17.3.6.01065114	2.17.3.2	2.17.3.5.1023087	2.17.3.5.1025862	2.17.3.5.1023087	GUI, Web Service, DB,
2017.3	7	2.17.3.7 (3GB)	2.17.3.0	2.17.3.6	2.17.3.6.01065114	2.17.3.2	2.17.3.5.1023087	2.17.3.5.1025862	2.17.3.5.1023087	GUI
2017.3	8	2.17.3.8 (3GB)	2.17.3.0	2.17.3.8	2.17.3.6.01065114	2.17.3.2	2.17.3.5.1023087	2.17.3.5.1025862	2.17.3.5.1023087	GUI and Web Service
2017.3	9	2.17.3.8 (3GB)	2.17.3.0	2.17.3.9	2.17.3.6.01065114	2.17.3.2	2.17.3.5.1023087	2.17.3.5.1025862	2.17.3.5.1023087	Web Service
2017.3	10	2.17.3.10 (3GB)	2.17.3.0	2.17.3.10	2.17.3.10.01125764	2.17.3.2	2.17.3.5.1023087	2.17.3.5.1025862	2.17.3.5.1023087	GUI, Web Service and DB updates
2017.6	-	3.17.6.0 (3GB)	3.17.6.0	3.17.6.0	3.17.6.0.01037550	3.17.6.0	3.17.6.0.1037868	3.17.6.0.1037869	3.17.6.0.1037869	Full Version Release. Including Patient, Provider and UM Portals
2017.6	1	3.17.6.1 (3GB)	3.17.6.0	3.17.6.1	3.17.6.1.01094077	3.17.6.0	3.17.6.0.1037868	3.17.6.0.1037869	3.17.6.0.1037869	GUI, Web Service and DB updates
2017.6	2	3.17.6.2 (3GB)	3.17.6.0	3.17.6.2	3.17.6.2.01130171	3.17.6.2	3.17.6.2.1138297	3.17.6.2.1138298	3.17.6.2.1138298	GUI, Web Service, DB, Patient, Provider and UM Portals and Digital Forms
2017.6	3	3.17.6.3 (3GB)	3.17.6.0	3.17.6.3	3.17.6.3.01166033	3.17.6.3	3.17.6.3.1168622	3.17.6.3.1168622	3.17.6.3.1168623	GUI, Web Service, DB, Patient, Provider and UM Portals and Digital Forms

INSTALLING

CLIENT/GUI

Copy and replace the current rRIS...zip file with the eRAD_rRIS_2017.6.3.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 141 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 are (Arabic), en_AU (Australian English), en-ZA (South Africa), he (Hebrew), pt_BR (Brazilian Portuguese), es-AR (Argentina Spanish) and ru-RU (Russian) and are localization folders. The WedgePlugins folder contains various plugin files for RADAR, MIRTH, Ensemble, etc...

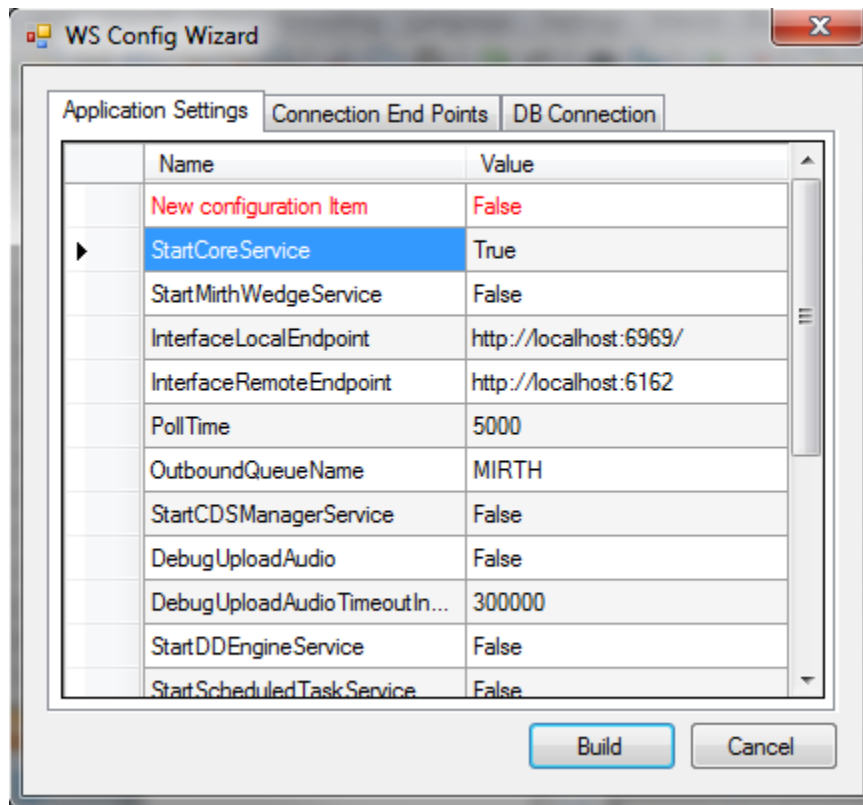
Services Configuration Wizard

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.

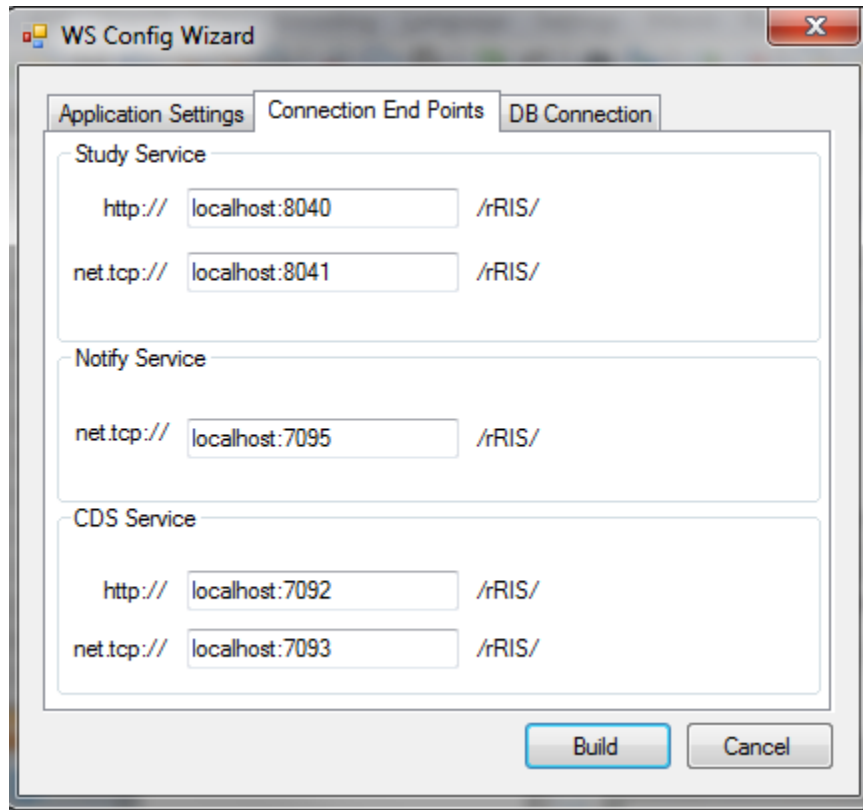
On the install of a new service, all files will be copied to the appropriate locations on the server (no configurations will be over written). If instructed or to confirm no new configurations have been added the user can run the new application "ServicesConfigWizard.exe"

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.



DATABASE UPDATES

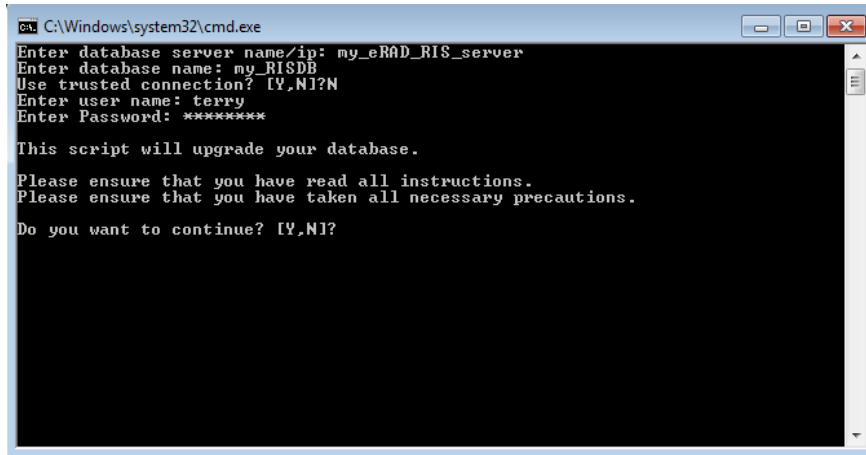
Always run the upgrade scripts in a test environment of the actual database to make sure they run cleanly. If any errors occur please contact development.

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