

Server Update

For eRAD RIS

Version 3.0

Build 3.2017.6

Update 3.2017.6.12

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 DB	09/26/18 10:48 AM
 ExternalWebAPI	09/26/18 10:47 AM
 Identity Service	09/26/18 10:47 AM
 PACS Citrix Bridge	09/26/18 10:48 AM
 PatientConnect	09/26/18 10:50 AM
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 rRISService	09/26/18 10:47 AM
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 RISServerMasterCert.pfx	03/31/16 1:38 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 2017.6.11.1.

NEW SETTINGS

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ACCESS STRINGS

Note: This version of eRAD RIS includes a customer-specific feature called the Arbitrator. These new access strings are referenced here for completeness, but are not applicable to any other customer at this time.

Setting	Default	Purpose
Config.AIArbitrator	None	Access to the configuration screen for the AI Arbitration
Config.LookupEditor.ConfigFile	None	lookup table access for Configuration Files

SYSTEM CONFIGURATION

Note: This version of eRAD RIS includes a customer-specific feature called the Arbitrator. These new system configuration strings are referenced here for completeness, but are not applicable to any other customer at this time.

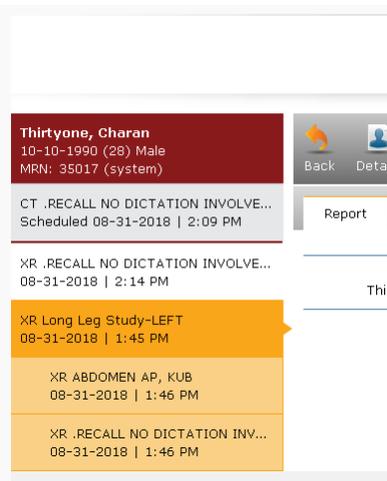
Setting	Default	Purpose
AIServiceEndpoint	Null/Empty	(value = string) The URL used by the arbitrator program to call the AI Service.
RPPACSDownloadViewerURL	Null/Empty	(value = string) The full URL for downloading PACS Full Viewer

NEW FEATURES

FEATURE #22129 – CLEARLY DISPLAY THE PRIMARY STUDY AND PROVIDE A MECHANISM TO SHOW IMAGES FROM THE LINKED STUDIES IN THE PROVIDER AND PATIENT PORTALS

The “Linked Studies” feature in eRAD RIS allows multiple studies from the same order be grouped and later read by the radiologist as a single diagnostic report. The ability to view the linked collection and report was supported by the RIS portals, but it was only possible to view the images from the primary study. In addition, the primary study was not always the first study in the list adding to confusion.

The Provider and Patient Portals now support the ability to view the images from all studies in the linked collection. To support this, the following changes were made to the patient folder screen: First, the primary study will always be shown as the first study in the order, and second the linked studies will be shown indented below the primary study. Selecting a secondary study will allow the images to be displayed for the secondary study.



FEATURE #21191 - SUPPORT SYNGO PLAZA PACS INTEGRATION

eRAD RIS now supports a PACS integration with Siemens Syngo Plaza. This integration follows the standard PACS integration methodology of using a plug-in.

Configuration:

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Configure the PACS lookup with the type of SYNGOPLAZA:

	Description	Protocol	Url	Port	Display Order	Pacs Ae Title	Pacs Server Type Code
▶ ▼	Contains: syngo	▼ Contains: ▼	Contains:	▼ Equals: ▼	Equals:	▼ Contains:	▼ Contains:
✱ Click here to add a new row							
	SyngoPlaza PACS	http	pacs	80	1		SYNGOPLAZA

In the “Config” column of PACS lookup, configure the integration as appropriate. An example and description of each field is shown below:

```
<SyngoPlazaConfig>
```

```
<UseRISCredentials>>false</UseRISCredentials>
```

```
<SingleSignOn>>false</SingleSignOn>
```

```
<OpenStudyUsing>ACCN</OpenStudyUsing><!-- PSUID, SSUID, PATID_ACCN, ACCN -->
```

```
<PACSDomain>PACS</PACSDomain>
```

```
<CloseAction>ApplicationDefault</CloseAction> <!-- ApplicationDefault,
SaveImagesWithoutPrompting, DiscardChanges, SaveImagesWithPrompt-->
```

```
<LoadFlaggedImages>All</LoadFlaggedImages> <!-- All, Flag1, Flag2, Both -->
```

```
<LoadPriorType></LoadPriorType> <!-- Related, Exact, All -->
```

```
<LoadOnlyTopJ>>false</LoadOnlyTopJ>
```

```
</SyngoPlazaConfig>
```

```
<!--
```

Configuration options:

Single Sign On - optional setting - If enabled the current windows credentials are passed to the integration. The user must have the Syngo Plaza role “syngo.plaza_single_signon”.

OpenStudyUsing - Determines what parameter is used to launch the study. Options are: PSUID, SSUID, PATID_ACCN, ACCN

PACSDomain - If there are multiple domains in Syngo Plaza, the domain needs to be configured here so that it is passed to the integration.

CloseAction - Determines what action is taken when the study is closed in RIS.

LoadFlaggedImages - A Syngo Plaza set of options:

* All - (default) Load all images, independent of flagging.

- * Flag1 - load images that are flagged with "Flag1"
- * Flag2 - load images that are flagged with "Flag2"
- * Both - load images that are flagged with "Flag1" or "Flag2"

LoadPriorType - Determines the mechanism for loading priors. Options are:

* Unknown - Syngo Plaza will not automatically load priors. This value should be used if RIS is supplying the list of priors.

* Related - When this option is set, Syngo drives prior loading. Studies that are older than the current study will be loaded.

* Exact - When this option is set, Syngo drives prior loading. If both modality and organ match the current study and the date is prior to the current study, they are considered priors and will be loaded.

* All - When this option is set, Syngo drives prior loading. All studies that are available and have a study date-time older than the current study are loaded.

Note that the Syngo Plaza viewer itself provides additional settings for configuring related priors.

LoadOnlyTop

- * False - (default) Images are loaded into the viewer
- * True - Patient will be open in the Patient Jacket feature of Syngo Plaza. Images will not be loaded into the Viewer

RESOLVED ITEMS

Redmine # for 2017.6.12	Subject
21325	Resolved issue when removing a patient email address.
21356	Resolved an issue displaying delivery methods on the image request screen.
21440	Resolved issue when attempting to send an opinion letter via fax.
21454	Resolved eRAD PACS issue re-displaying priors in the Dictation window after switching from Sign or Create Edit window.
21455	Resolved eRAD PACS issue re-displaying priors in the sign window after switching to another window.
21474	Resolved issue loading the Provider Admin Tool - User Messages tab.
21568	Resolved issue saving a relative date/time filter.
21570	Enhanced User Management Search to support last names with spaces in the Connect Admin Portal.
21581	Resolved issue saving preferences in Referring Portal Admin.
21592	Resolved issue displaying the Environment Name in Title Bar for HTTPS installations.
21594	Resolved intermittent issue where order data could be duplicated
21633	Resolved issue when entering a decimal value for weight.
21681	Resolved issue printing Diagnostic Report from the Referring Portal.
21684	Enhanced Referring Portal login and data query performance when a single referring doctor is associated with all other referring doctors.
21690	Resolved issue where the Attachment (Paperclip) button on the Registration screen would reset Arbitration Signed and Verified ID on Patient tab, as well as the Direct referral checkbox on the Order tab.
21732	Resolved domain Account ID collision issue when creating Portal user Account ID.
21738	Resolved "object reference error" when matching external to internal patients
21741	Enhanced CountyToZipCodeAutoFill behavior to respect an alternate zipcode.
21870	Resolved the error "Could not determine the identifier to use to open PACS"
21914	No longer displaying inactive rooms in Appointment Book Dropdown.
22124	Resolved issue saving Insurance Zipcode and State when using the zip code auto-fill.
22125	Resolved time zone issue where the scheduled_start_date is offset when saving on the Register screen.
22131	Resolved account migration issue where data from Millinger Connect was not decrypting.
22149	Resolved installer issue when attempting to upgrade.
22151	Resolved login issue due to blank Injury Source field.
22272	Resolved issues opening the Schedule Order screen for EMR orders with blank procedure descriptions or inactive procedures.

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22284	Resolved issues with copy calculation when out of pocket maximum has been reached.
22291	The wedge interface service now supports retrieving the referring's address.
22306	Added support for eRAD PACS v8 viewer with HTTPS installations.
22307	Resolved eRAD PACS v8 password issue with HTTPS installations.
22338	Availity insurance check now returns REF N6 segment in 271
22380	Resolved issue with UM portal account recovery.
22387	Resolved a database related performance issue when retrieving a user's study folders.

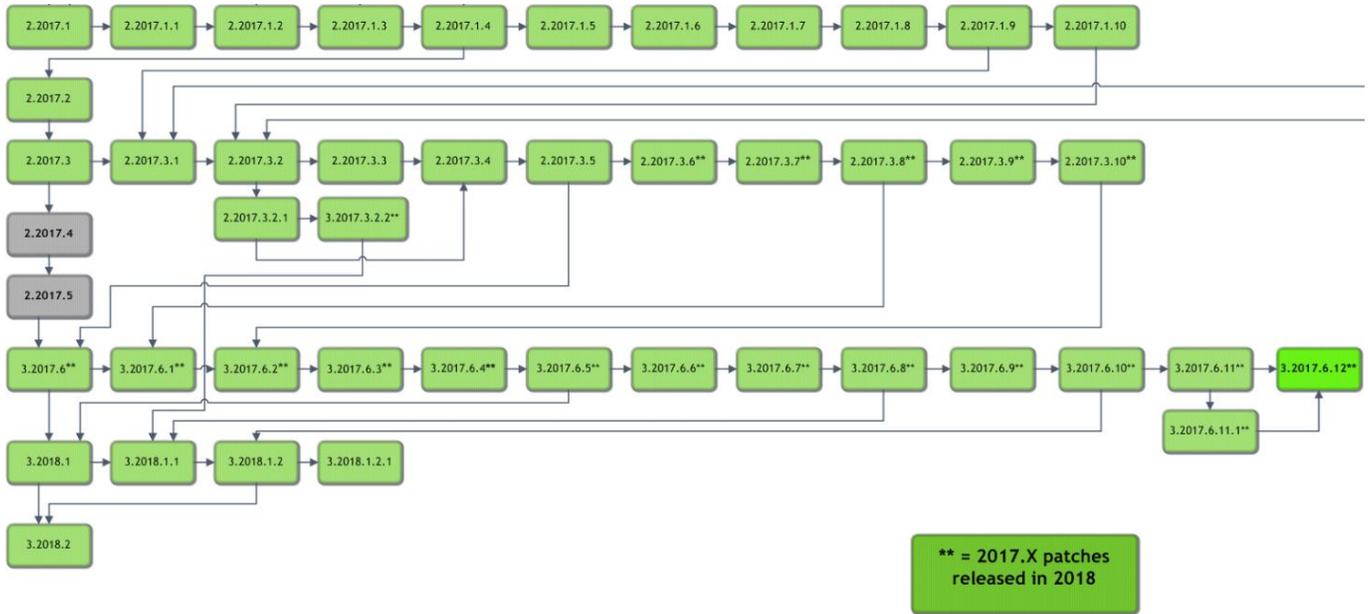
Special note for the implementation team:

Bug #22338 listed above will also require manual intervention to update the function z_get_medical_group. Please see this items resolution section in Redmine more information. This bug was also resolved in 2017.6.11.1 as Redmine item #22394. If the system being upgraded was at 2017.6.11.1, the function z_get_medical_group may already have these changes.

The following fixes from other versions and are included with this patch.

Redmine # for 2018.3	Redmine # for 2017.6.12	Subject
20533	21919	Corrected issue with the wrong PACS server when clicking the "download full viewer" link in the Referring Portal

CODE STREAM



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
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	2.17.2.0.702238	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	2.2	2.17.3.2.1(3GB)	2.17.3.0	2.17.3.2.2	2.17.3.2.00898348	2.17.3.2	2.17.3.2.913898	2.17.3.2.913899	2.17.3.1.856171	Web Services 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
2017.6	4	3.17.6.4(3GB)	3.17.6.0	3.17.6.4	3.17.6.4.01187509	3.17.6.4	3.17.6.4.1190295	3.17.6.4.1190295	3.17.6.4.1190295	GUI, Web Service, DB, Patient, Provider and UM Portals and Digital Forms
2017.6	5	3.17.6.5(3GB)	3.17.6.0	3.17.6.5	3.17.6.4.01187509	3.17.6.4	3.17.6.5.1199064	3.17.6.5.1199063	3.17.6.5.1199064	GUI, Web Service, Patient, Provider and UM Portals
2017.6	6	3.17.6.6(3GB)	3.17.6.0	3.17.6.6	3.17.6.6.01236363	3.17.6.4	3.17.6.5.1199064	3.17.6.5.1199063	3.17.6.5.1199064	GUI, Web Service and DB updates
2017.6	7	3.17.6.7(3GB)	3.17.6.0	3.17.6.7	3.17.6.7.01257812	3.17.6.7	3.17.6.7.1266287	3.17.6.7.1266287	3.17.6.7.1266287	GUI, Web Service, DB, Digital Forms, Patient, Provider and UM portals
2017.6	8	3.17.6.8(3GB)	3.17.6.0	3.17.6.8	3.17.6.8.01276873	3.17.6.8	3.17.6.8.1280869	3.17.6.8.1280870	3.17.6.8.1280869	GUI, Web Service, DB, Digital Forms, Patient, Provider and UM portals
2017.6	9	3.17.6.8(3GB)	3.17.6.0	3.17.6.8	3.17.6.8.01276873	3.17.6.8	3.17.6.9.1308097	3.17.6.9.1308098	3.17.6.9.1308098	Patient, Provider and UM portals
2017.6	10	3.17.6.10(3GB)	3.17.6.0	3.17.6.10	3.17.6.10.01355594	3.17.6.10	3.17.6.10.1331371	3.17.6.10.1331372	3.17.6.10.1331372	GUI, Web Service, DB, Digital Forms, Patient, Provider and UM portals
2017.6	11	3.17.6.11(3GB)	3.17.6.0	3.17.6.10	3.17.6.11.01347408	3.17.6.10	3.17.6.10.1331371	3.17.6.10.1331372	3.17.6.10.1331372	GUI and DB updates
2017.6	11.1	3.17.6.11.1(3GB)	3.17.6.0	3.17.6.11.1	3.17.6.11.01437968	3.17.6.10	3.17.6.10.1331371	3.17.6.10.1331372	3.17.6.10.1331372	GUI, Web Service, DB,
2017.6	12	3.17.6.12(3GB)	3.17.6.0	3.17.6.12	3.17.6.12.01439318	3.17.6.12	3.17.6.12.1439203	3.17.6.12.1439204	3.17.6.12.1439204	GUI, Web Service, DB, Digital Forms, Patient, Provider and UM portals
2018.1	-	3.18.1.0(3GB)	3.18.1.0	3.18.1.0	3.18.1.0.01228009	3.18.1.0	3.18.1.0.1229289	3.18.1.0.1229290	3.18.1.0.1229290	Full version release
2018.1	1	3.18.1.1(3GB)	3.18.1.0	3.18.1.1	3.18.1.1.01288419	3.18.1.1	3.18.1.1.1299765	3.18.1.1.1299766	3.18.1.1.1299765	GUI, Web Service, DB, Digital Forms, Patient, Provider and UM portals
2018.1	2	3.18.1.2(3GB)	3.18.1.0	3.18.1.2	3.18.1.2.01341771	3.18.1.2	3.18.1.2.1355946	3.18.1.2.1355947	3.18.1.2.1355947	GUI, Web Service, DB, Digital Forms, Patient, Provider and UM portals
2018.1	2.1	3.18.1.2.1(3GB)	3.18.1.0	3.18.1.2.1	3.18.1.2.01341771	3.18.1.2	3.18.1.2.1355946	3.18.1.2.1355947	3.18.1.2.1355947	GUI and Web Service
2018.2	-	3.18.2(3GB)	3.18.2.0	3.18.2.0	3.18.2.0.01412126	3.18.2.0	3.18.2.0.1416370	3.18.2.0.1416371	3.18.2.0.1416371	Full Version Release. Including Patient, Provider and UM Portals

INSTALLING

CLIENT/GUI

Copy and replace the current rRIS...zip file with the eRAD_rRIS_2017.6.12.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 build 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.

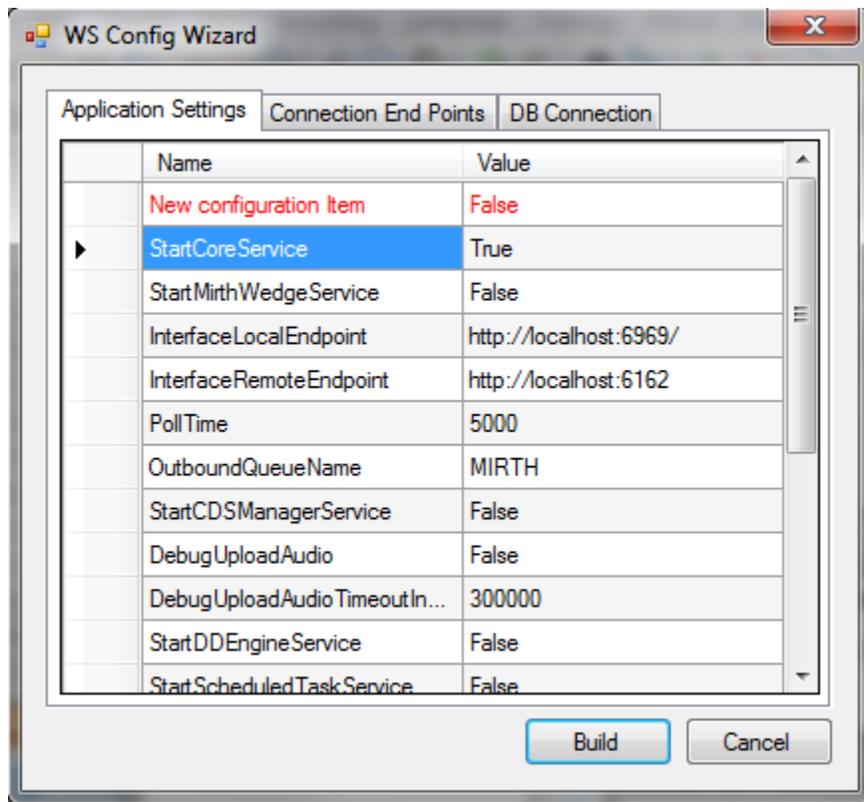
On the install of a new service, all files will be copied to the appropriate locations on the server (no configurations will be over written). If instructed or to confirm no new configurations have been added the user can run the new application “ServicesConfigWizard.exe”

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:

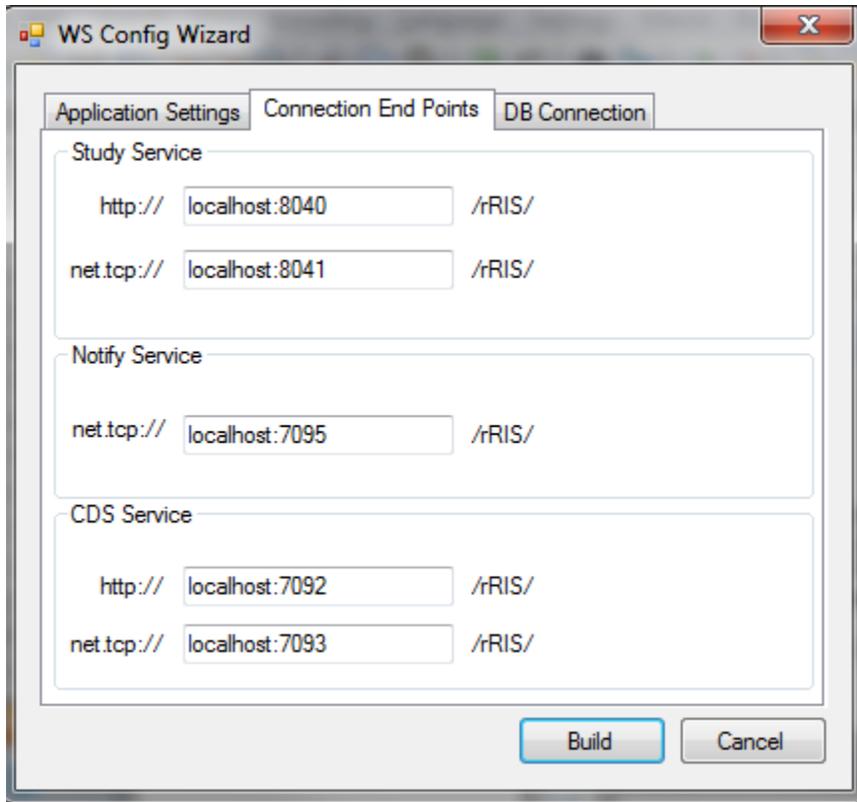
Application Settings: all existing configuration value will be displayed, if there are any new configuration entries they will be displayed in red.

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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.

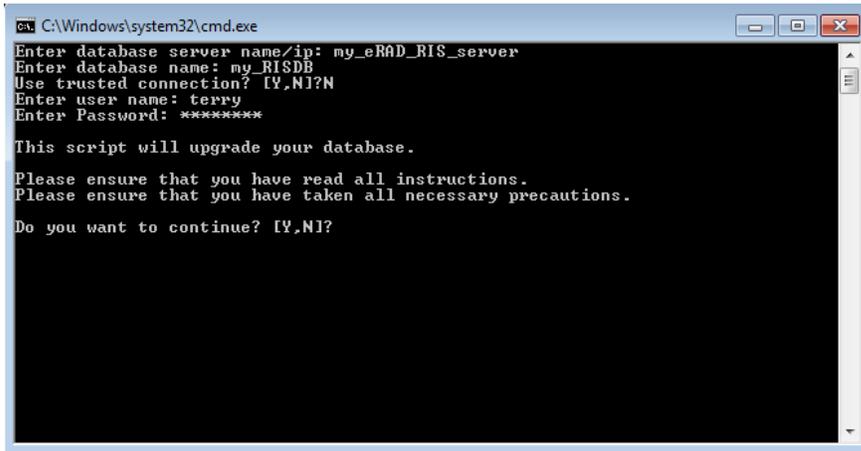
- 1) From the upgrade folder, double click the “RunUpgrade.bat” command file.
- 2) Enter the server name, database name and authentication credentials to the database. You have 2 choices for authentication credentials.

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- 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]? Y
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