



eRAD RIS

Customer & Service Release Notes

Minor Build v3.2018.5.6.1

UPDATED JANUARY 6, 2021

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Publication History

Revision	Author	Description
January 5, 2021	Kevin Brooks / Hilary Saltmarsh	<ul style="list-style-type: none">Commercial release.
January 6, 2021	Kevin Brooks	<ul style="list-style-type: none">Incorrectly indicated that the Provider Portal web.config is automatically deployed. Added new INSTALLATION » PROVIDER PORTAL section.

SUMMARY

Intended Audience

The intended audience for this CUSTOMER RELEASE NOTES document is the RIS Administration team for all eRAD RIS customers.

This document describes the purpose, configuration, and operation of new features made available with this release, identifies issues resolved in the release, and highlights any unresolved known limitations.

This information should be used by all customers to determine how these changes affect their organization's workflow, and to plan their organization's upgrade strategy for eRAD RIS.



There is no separate SERVICE RELEASE NOTES edition of this document.

Who Is Affected

This release of eRAD RIS v3.2018.5.6.1 includes two feature enhancements, one delivering performance enhancements to the Provider Portal related to faster page display and searching, and another to RIS Digital Forms, to add support for the same recent feature enhancements recently made available in the RIS online forms kiosk. A significant number of defects were also addressed.

The following application features have all been updated with new functionality:

- Digital Forms
- Provider Portal

This version contains new features and resolved defects that are recommended to be applied on 2018.5.6 installs.



Please carefully review these release notes even if your system will not be upgraded immediately, to identify and communicate any issues that may affect your organization.

NEW SETTINGS

System Configuration Settings

The following RIS System Config settings were added or updated with this release:

Setting	Default	Purpose
RPWLMaxRowCountOptionsList	Value=CSV as String, Default=[0,25,50,100]	Comma separated list of max row count options to display per tab. Added in v2018.5.6.1 #28717

Provider Portal - web.config

The following Provider Portal [web.config](#) file changes were introduced in #28717. These changes are automatically deployed.

Addition #1

```

001 < caching >
002     < outputCacheSettings >
003         < outputCacheProfiles >
004             < add name="LoggedInUser" duration="40000" varyByParam="*"
                varyByCustom="User" location="Server" />
005         < /outputCacheProfiles >
006     < /outputCacheSettings >
007 < /caching >

```

New addition #2

```

001 < httpCompression directory="%SystemDrive%\websites\_compressed"
    minFileSizeForComp="1024">
002     < scheme name="gzip" dll="%Windir%\system32\inetsrv\gzip.dll" />
003     < dynamicTypes >
004         < add mimeType="text/*" enabled="true" />
005         < add mimeType="message/*" enabled="true" />
006         < add mimeType="application/javascript" enabled="true" />
007         < add mimeType="application/x-javascript" enabled="true" />
008         < add mimeType="application/json" enabled="true" />
009         < add mimeType="*/*" enabled="false" />
010     < /dynamicTypes >
011     < staticTypes >
012         < add mimeType="text/*" enabled="true" />
013         < add mimeType="message/*" enabled="true" />
014         < add mimeType="application/javascript" enabled="true" />
015         < add mimeType="application/x-javascript" enabled="true" />
016         < add mimeType="application/json" enabled="true" />

```

```
017         <add mimeType="*/*" enabled="false" />
018     </staticTypes>
019 </httpCompression>
```

Utilization Management Portal - web.config

The following Utilization Management Portal `web.config` file changes were introduced in #28717. These changes are automatically deployed.

```
001 <aching>
002     <outputCacheSettings>
003         <outputCacheProfiles>
004             <add name="LoggedInUser" duration="60000" varyByParam="*"
varyByCustom="User" location="Server" />
005         </outputCacheProfiles>
006     </outputCacheSettings>
007 </aching>
```

NEW FEATURES

Digital Forms

Feature #27462 - Digital Forms enhancements

Summary

This enhancement allows the Digital Forms displayed in RIS the ability to display the new attributes that can be created with tools included with the RIS Online Registration Portal.



It is not possible at this time to create or use the new question types without also using the new RIS Online Registration Portal.

The new attributes that can now be displayed include:

- **1-n Values** – If an Online Registration user answers a question by selecting multiple items, these answers will display properly to the RIS user. This includes patient phone number/email, as well as checkbox questions such as race/ethnicity, where multiple values may be selected.

Race Type:	<input checked="" type="checkbox"/> Acadian
	<input type="checkbox"/> African American
	<input type="checkbox"/> American Indian
	<input type="checkbox"/> Asian
	<input type="checkbox"/> Declined to Specify

- **Lookups** – If a dropdown question is created in the external Digital Forms Editor that is driven by one of the new RIS lookup options, the dropdown values will be visible in the RIS according to the corresponding lookup table.
- **Textboxes Within Sections** – Previously, if a user placed a textbox inside a section using the RIS Digital Forms Editor, then moved the section, the textbox would not move with the section – it would remain where it was visually before the move. This issue was resolved in the forms editing tools supplied with Online Registration, however when viewed inside of RIS, the textbox would not be placed correctly. Now the textbox will display correctly inside of RIS, no matter how it was placed on the form with the form editing tools supplied with Online Registration.
- **Patient Required Fields** - Fields configured to be required by the patient in Online Registration workflow are now visually indicated to the RIS user via a double asterisk next to the question on the digital form.

Configuration Instructions

No System Administrator actions are necessary to enable this feature. If Online Registration is in use, these features will now display correctly inside of eRAD RIS.

Provider Portal

Feature #28717 - Provider Portal query performance tuning

Summary

This enhancement to the Provider Portal improves responsiveness of loading pages by limiting the number of results returned when loading the active Home or Order page, and when performing filtered queries. This enhancement also delivers performance enhancements throughout the portal via updates to several database indexes and queries.

Previously, the initial display of the Provider Portal default page could be quite slow, particularly for users belonging to large practices with many physicians.

Configurable Tab Population

With this change, the Provider Portal has been updated so that instead of loading all data for the active Home or Order page, data is now loaded per tab according new a configuration option. This new option is available for each home and order page. The default is to return results for only the active tab (which is much quicker), while the option to load results for all tabs will perform individual network calls for each tab, with the "default" tab loading first.

The screenshot displays the 'TAB SETTINGS' section of the Provider Portal. At the top, a navigation bar includes 'User Details', 'Preferences', 'Proxy & Affiliations' (marked with a red circle 1), 'Account', and 'Add Ons'. Below this, the 'TAB SETTINGS' header is followed by a sub-navigation bar with 'Home' and 'Order' (marked with a red circle 2). The 'Auto Refresh' dropdown is set to 'Every 30 Minutes', with 'SAVE' and 'CANCEL' buttons below it. A red circle 3 highlights a section titled 'When performing a new query...' which includes a descriptive note: 'New queries are performed each time you log-in, change a page, or click the Update icon. Adjusting these settings impacts portal performance and load times.' Two radio button options are presented: 'Return results for only active tab on the page. Faster, but takes a bit longer when navigating between tabs.' (selected) and 'Return results for all tabs on a page at once. Takes a bit longer, but allows for quicker navigation between tabs.' 'SAVE' and 'CANCEL' buttons are at the bottom of this section.

Note that any tab that is configured to show item counter will still run on each configured tab after the page loads, regardless of the return results selection.

This screenshot shows two checkboxes: 'Show Item Counter' (checked) and 'Show Item Counter on main navigation' (unchecked).

Note also that the Auto Refresh timer is independent for each tab, and the timer only starts after the data is loaded.

When data is loaded for these tabs, the query will now limit the number of rows retrieved according to a new tab configuration:

- The default number of rows to retrieve is defined in a new `DefaultWLMaxRowCount` applicationsettings.config value, displayed in the portal:

Tab Completed ▼

☐ Make Default Tab

Tab Name *
Completed

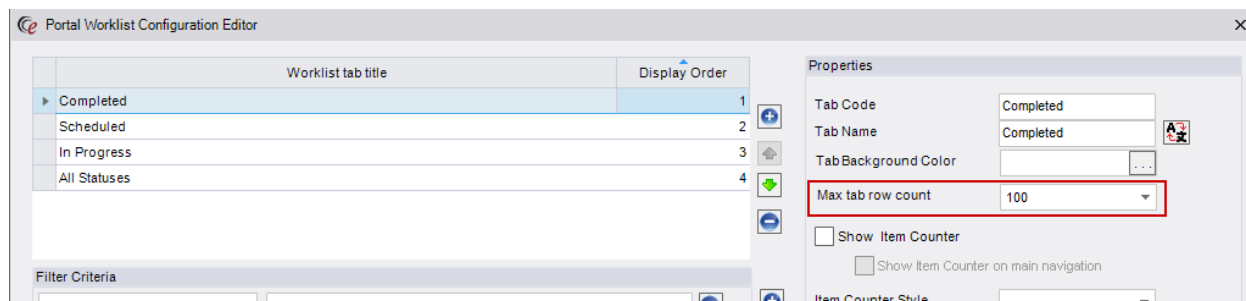
Exam Status *
Completed, Approved

Number of returned results should not exceed *
100 ▼

Return results for the selected timeframe *
90 days ▼

Return results for these selected exam types
None selected ▼

This value is also displayed and may be adjusted in the RIS GUI. A configurable list of options for the `Max tab row count` may be defined via a new `RPWLMaxRowCountOptionsList` RIS System Config setting.



Configurable Search Results Population

Previously, display of results from a Patient Name Search using a filter on the Provider Portal could be quite slow, dependent on the user's machine.

With this change, RIS will perform a new query for each name filter, with the number of results from these searches now controlled by the `WLMaxRowCountOnNameFilter` applicationsettings.config value. The default of `100` will return the top valid results for the configured status and time frame (not the max row count configured on the tab).

Configuration Instructions

System Administrators must complete the following actions to enable this feature and Service Team assistance is required for some actions:

RIS Client

Changes to RIS System Configuration Settings

- Optionally, configure `RPWLMaxRowCountOptionsList` for your organization. This setting controls what the Provider Portal user will see in the dropdown when selecting the “Number of returned results should not exceed” tab setting.

The following settings were added or updated with this release:

Setting	Default	Purpose
RPWLMaxRowCountOptionsList	Value=CSV as String, Default=[0,25,50,100]	Comma separated list of max row count options to display per tab. Added in v2018.5.6.1 #28717

Portals

Changes to Portal applicationsettings.config Settings (eRAD assistance required)

- Configure `WLMaxRowCountOnNameFilter` for your organization. Default is [100]. This defines the number of rows to return when performing a name search on a tab. When [0], the system config MaxWorklistItem is used, otherwise a maximum 500 rows are returned.
- Configure `DefaultWLMaxRowCount` for your organization. Default is [100]. This defines the default setting for the number of rows to return per tab.

RESOLVED ISSUES AND KNOWN LIMITATIONS

Resolved Issues

This release resolves the following issues:

Redmine #	Subject
28082	Resolved Patient Workflow Make Appointment issue where unscheduled orders created in RIS could be inappropriately modified by the patient on the Patient Portal.
28792	Resolved Scanning issue where attempting to re-associate scanned document types returned an error.
28793	Resolved Printing issue where Forms were not printing when checking in a patient.
28794	Resolved Patient Folder issue where there was a delay displaying Exam status updates (from Scheduled to Cancelled) in the patient folder.
28798	Resolved Digital Forms issue where loading the Registration screen could return Digital Form JavaScript errors.
28805	Resolved Reception issue where a manual change of status to "Checking In" returned an error.
28808	Resolved Online Registration issue where Spanish translation of forms was not working as expected on the kiosk (Online Registration).
28812	Resolved Radiology Reporting issue where PACS worklist Caching could return an error.
28814	Resolved Appointment book issue where an incorrect search range returned an error.
28827	Resolved Digital Forms issue where updating a digital form may not indicate or save changes.
28894	Resolved Provider performance issue where tabs were returning an error after an auto refresh.
28940	Resolved Document Distribution issue where PDF reports for email distribution fails with SQL Server 2019.
















New Known Limitations

No new known limitations were identified with this release.

VERSION DETAILS

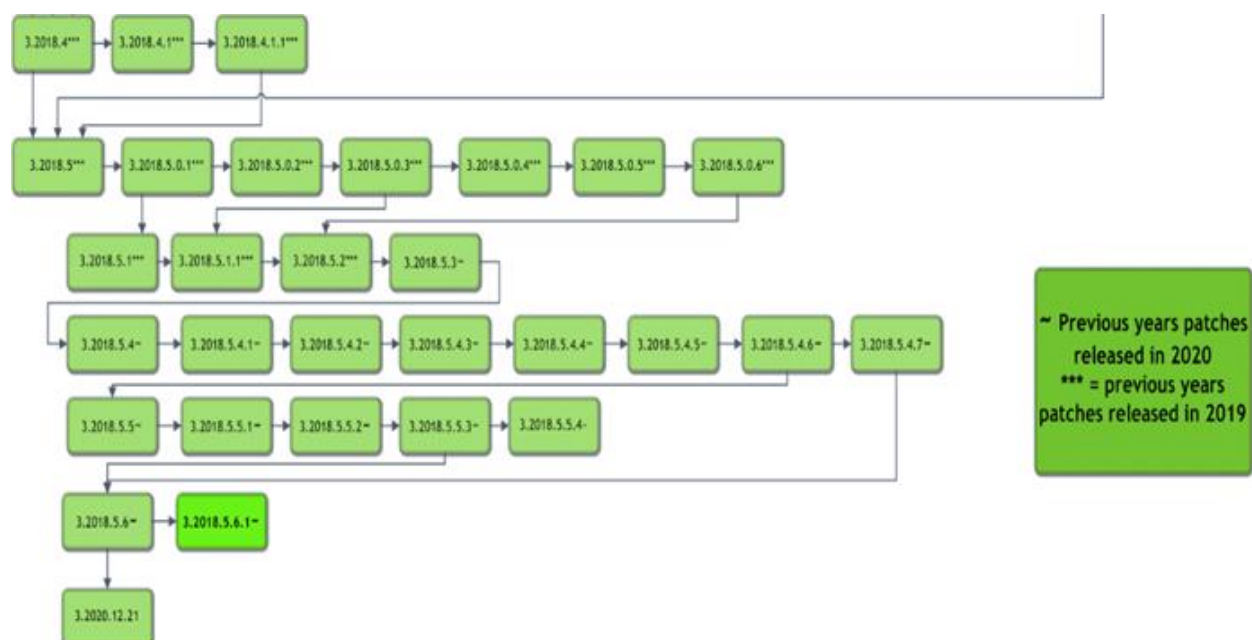
Package Contents

The release package includes the following folders:

 _Documentation	12/31/2020 2:32 PM
 _ReleaseNotes	1/4/2021 2:44 PM
 Client Application	12/31/2020 2:30 PM
 DB	12/31/2020 2:30 PM
 External WebAPI	12/31/2020 2:30 PM
 Identity Service	12/31/2020 2:30 PM
 Management Reports	12/31/2020 2:30 PM
 RIS Service	12/31/2020 2:30 PM
 Service Tools	12/31/2020 2:37 PM
 Web Digital Forms	12/31/2020 2:31 PM
 Web Patient Connect	12/31/2020 2:31 PM
 Web Referring Connect	12/31/2020 2:32 PM
 Web UM Connect	12/31/2020 2:32 PM
 Build_2018.5.6.1.zip	12/31/2020 2:34 PM
 RISServerMasterCert.pfx	3/31/2016 1:38 PM

Code Stream

The following source code branches have been merged into this release:



LEGEND:

Light Green = Previously Released software

Gray = Internal version, non-release version

Bright Green = Current Release

eRAD RIS Release Version Numbers

The following table details the version identifiers for components in this release:

Build	Patch	UI Version	Core Version	WS Version	DB Version	Digital Forms	Patient Portal	UM Portal	Provider Portal	Notes
2018.4	-	3.18.4(3GB)	3.18.4.0	3.18.4.0	3.18.4.0.01654386	3.18.4	3.18.4.0.0.761	3.18.4.0.0.761	3.18.4.0.0.761	Full Version Release. Including Patient, Provider and UM Portals
2018.4	1	3.18.4.1.0(3GB)	3.18.4.1.0	3.18.4.1.0	3.18.4.1.0.01770771	3.18.4.1.0	3.18.4.1.0.806	3.18.4.1.0.806	3.18.4.1.0.806	GUI, Web Service, DB, Digital Forms and Portals
2018.4	1.1	3.18.4.1.1(3GB)	3.18.4.1.0	3.18.4.1.0	3.18.4.1.0.01770771	3.18.4.1.0	3.18.4.1.0.806	3.18.4.1.0.806	3.18.4.1.0.806	GUI only
2018.5	-	3.18.5(3GB)	3.18.5.0	3.18.5.0	3.18.5.0.0.01832865	3.18.5.0	3.18.5.0.0.822	3.18.5.0.0.822	3.18.5.0.0.822	Full Version Release. Including Patient, Provider and UM Portals
2018.5	.0.1	3.18.5.0.1(3GB)	3.18.5.0.1	3.18.5.0.1	3.18.5.0.1.01913234	3.18.5.0.1	3.18.5.0.1.874	3.18.5.0.1.874	3.18.5.0.1.874	GUI, Web Services, DB, Patient/Provider/UM Portals
2018.5	.0.2	3.18.5.0.2(3GB)	3.18.5.0.1	3.18.5.0.2						GUI, Web Services
2018.5	.0.3	3.18.5.0.3(3GB)	3.18.5.0.1	3.18.5.0.3	3.18.5.0.3.01972329	3.18.5.0.3	3.18.5.0.3.887	3.18.5.0.3.887	3.18.5.0.3.887	GUI, Web Services, DB, Digital Forms, Patient, Provider and UM Portals
2018.5	.0.4	3.18.5.0.4(3GB)	3.18.5.0.1	3.18.5.0.4	3.18.5.0.4.02023490	3.18.5.0.4	3.18.5.0.4.903	3.18.5.0.4.903	3.18.5.0.4.903	GUI, Web Services, DB, Digital Forms, Patient, Provider and UM Portals
2018.5	.0.5	3.18.5.0.5(3GB)								GUI
2018.5	.0.6	3.18.5.0.6(3GB)		3.18.5.0.6	3.18.5.0.6.02076323					GUI, Web Services, DB
2018.5	1	3.18.5.1.0(3GB)	3.18.5.1.0	3.18.5.1.0	3.18.5.1.0.01916269	3.18.5.1.0	3.18.5.1.0.878	3.18.5.1.0.878	3.18.5.1.0.878	GUI, Web Services, DB, Patient/Provider/UM Portals and Digital Forms
2018.5	1.1	3.18.5.1.1(3GB)	3.18.5.1.1	3.18.5.1.1	3.18.5.1.1.01983618	3.18.5.1.1	3.18.5.1.1.890	3.18.5.1.1.890	3.18.5.1.1.890	GUI, Web Services, DB, Patient/Provider/UM Portals and Digital Forms
2018.5	2	3.18.5.2.0(3GB)	3.18.5.2.0	3.18.5.2.0	3.18.5.2.0.02084897	3.18.5.2.0	3.18.5.2.0.924	3.18.5.2.0.924	3.18.5.2.0.924	GUI, Web Services, DB, Patient/Provider/UM Portals and Digital Forms
2018.5	3	3.18.5.3.0(3GB)	3.18.5.3.0	3.18.5.3.0	3.18.5.3.0.02174049	3.18.5.3.0	3.18.5.3.0.951	3.18.5.3.0.951	3.18.5.3.0.951	GUI, Web Services, DB, Patient/Provider/UM Portals and Digital Forms
2018.5	4	3.18.5.4.0(3GB)	3.18.5.4.0	3.18.5.4.0	3.18.5.4.0.02214458	3.18.5.4.0	3.18.5.4.0.961	3.18.5.4.0.961	3.18.5.4.0.961	GUI, Web Services, DB, Patient/Provider/UM Portals and Digital Forms
2018.5	4.1	3.18.5.4.1(3GB)		3.18.5.4.1						GUI and Web Service
2018.5	4.2	3.18.5.4.2(3GB)		3.18.5.4.2						GUI and Web Service
2018.5	4.3			3.18.5.4.3						Web Service
2018.5	4.4	3.18.5.4.4(3GB)	3.18.5.4.4	3.18.5.4.4	3.18.5.4.4.02297855		3.18.5.4.4.982			GUI, Web Service, DB and Patient Portal Updates
2018.5	4.5	3.18.5.4.5(3GB)	3.18.5.4.5	3.18.5.4.5	3.18.5.4.5.02314967	3.18.5.4.5	3.18.5.4.5.988	3.18.5.4.5.988	3.18.5.4.5.988	GUI, Web Service, DB and Patient, Referring and UM Portal Updates
2018.5	4.6	3.18.5.4.6(3GB)	3.18.5.4.6	3.18.5.4.6	3.18.5.4.5.02314967	3.18.5.4.5	3.18.5.4.5.996	3.18.5.4.5.996	3.18.5.4.5.996	GUI, Web Service, Patient, Referring and UM Portal Updates
2018.5	4.7			3.18.5.4.7						Web Services only
2018.5	5	3.18.5.5(3GB)	3.18.5.5	3.18.5.5	3.18.5.5.0.02404209	3.18.5.5	3.18.5.5.0.1019	3.18.5.5.0.1019	3.18.5.5.0.1019	Full version release
2018.5	5.1	3.18.5.5.1(3GB)	3.18.5.5.1	3.18.5.5.1	3.18.5.5.1.02460669	3.18.5.5.1	3.18.5.5.1.1023	3.18.5.5.1.1023	3.18.5.5.1.1023	GUI, Web Services, DB, Patient/Provider/UM Portals and Digital Forms
2018.5	5.2	3.18.5.5.2(3GB)								GUI
2018.5	5.3	3.18.5.5.3(3GB)	3.18.5.5.3	3.18.5.5.3	3.18.5.5.3.02479332					GUI, Web Services, DB
2018.5	5.4	3.18.5.5.4(3GB)	3.18.5.5.4	3.18.5.5.4	3.18.5.5.4.02587388					GUI, Web Services, DB
2018.5	6	3.18.5.6(3GB)	3.18.5.6	3.18.5.6	3.18.5.6.0.02571320	3.18.5.6.0	3.18.5.6.0.1050	3.18.5.6.0.1050	3.18.5.6.0.1050	Full version release
2018.5	6.1	3.18.5.6.1(3GB)	3.18.5.6.1	3.18.5.6.1	3.18.5.6.1.02601339	3.18.5.6.1	3.18.5.6.1.1070	3.18.5.6.1.1070	3.18.5.6.1.1070	GUI, Web Services, DB, Patient/Provider/UM Portals and Digital Forms
2020.12.21	-	3.20.12.21.0(3GB)	3.18.5.6	3.20.12.21.0	3.20.12.21.0.02608693	3.20.12.21.0	3.20.12.21.0.897	3.20.12.21.0.897	3.20.12.21.0.897	Full version release

INSTALLATION

Client/GUI

Copy and replace the current rRIS...zip file with the eRAD_RIS_2018.5.6.1.zip file provided with this release.

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

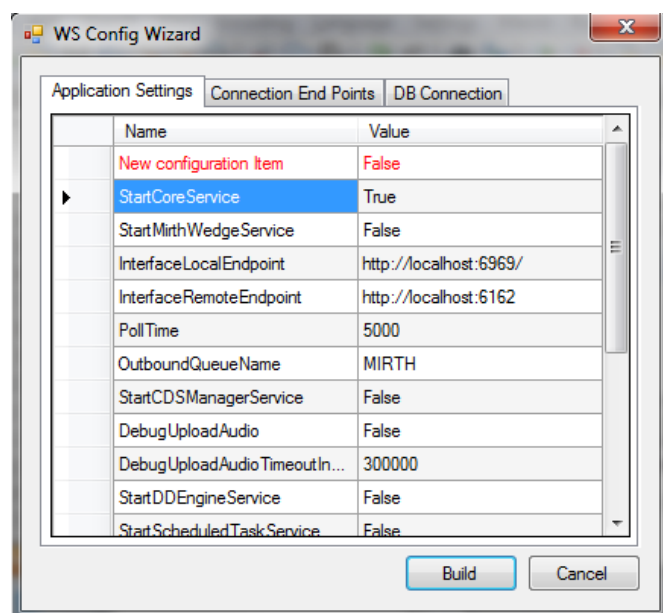
Provider Portal

The Provider Portal `web.config` is updated with this release, as noted in the **NEW SETTINGS** section above. These changes are deployed as a `web.config.new` file and must be manually merged. This merge can be completed using the compare tool built into the BackendInstaller.exe utility.

Web Service

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. If using the eRAD_RIS_Backend_Installer.exe, the copying and backup of existing file will be performed for you. This upgrade includes 155 files in the rRISService folder and 17 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...

Once the files have been copied into place, open each service folder and run the ServicesConfigWizard.exe. All existing configuration settings will be displayed with their current values. If there are any new settings, they will be displayed in **red colored** font with default value applied:



Database

To update the database run the database updater tool: RISDataBaseInstaller.exe located in the DB directory of the deployment.