



eRAD RIS

Customer Release Notes

Minor Build v3.2020.12.21

REVISED DECEMBER 24, 2020

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Publication History

Revision	Author	Description
December 24, 2020	Kevin Brooks / Hilary Saltmarsh	<ul style="list-style-type: none"> Commercial release.
December 24, 2020	Kevin Brooks	<ul style="list-style-type: none"> Added Known Limitation #28938

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 sites to determine how these changes affect their site's workflow, and to plan their site's upgrade strategy for eRAD RIS.



*There is no separate **Service Release Notes** edition of this document for this release.*

Who Is Affected

As a minor release, eRAD RIS v3.2020.12.21 includes several feature enhancements, as well as resolving a variety of issues.

The timing of this release is unusual in that it precedes the release of version eRAD RIS 2018.5.6.1.



Upgrading to this version is not recommended for customers planning to upgrade to version 2018.5.6.1 (not yet available at the time of this release).

Please consult with our Service Team to plan your upgrade.

Notable in this release are enhancements to the handling of scanned insurance cards and updates to eRAD PACS v7 Viewer integration. The following application features have all been updated with new functionality:

- Insurance Management
- Patient Management
- Digital Forms
- PACS Integration



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

NEW SETTINGS

System Configuration Settings

The following settings were added or updated with this release:

Setting	Value and Default	Purpose
InsuranceCardScanType	Value=CSV of active "Scan Type Code" values as String [from ScanTypes lookup table], Default=Blank	Comma separated list of Scan Type Code values that represent an insurance card. Added in v2020.12.21 #27300
PhoneNumberDefaultMobile	Value=Boolean, Default=[FALSE]	When True, phone number type will default to mobile. Added in v2020.12.21 #27256

NEW FEATURES

Insurance Management

Feature #23317 - Support for Age conditions in PreCert Group and UM Authorization rules

Summary

This enhancement to Insurance Management adds support for configuration of a Minimum and/or Maximum age for which a PreCert or UM rule will be applied. This same capability is available for both PreCert Group and UM Authorization Rule configuration.

Background

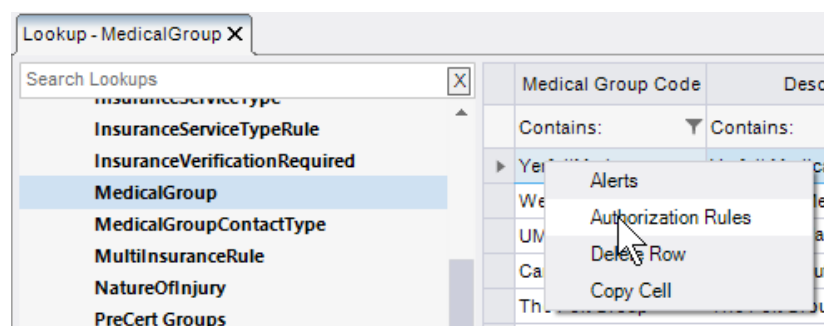
Sometimes a patient's age is a factor in whether PreCert or Utilization Management workflow is needed. For example, some DEXA billing codes require Utilization Management review or PreCert only for patients younger than 65. Previously, it was not possible to create PreCert Group or UM Coverage authorization rules that were handled differently depending on the age of the patient.

Feature Description

With this change, the **PreCert Groups** RIS Lookup Table Editor, has been updated to add **Min Patient Age (Years)** and **Max Patient Age (Years)** columns. These columns behave in a similar fashion to the columns that were already available in the Conditional Tab and Forms and Labels editors.

Description	Last Updated	Active	Min Patient Age (Years)	Max Patient Age (Years)	Billing Code
Modality	12-14-2020 10:49 AM	Y	12	17	(all)
Practice	08-27-2020 01:53 PM	N			(...)
Carrier Charge	08-27-2020 01:53 PM	N			(...)

In the UM **Authorization Rules** screen, the same columns have been added to the Rules section (on the right side).



Because it is common to add multiple billing codes to a rule at the same time (for example, a group of DEXA codes or pediatric ultrasound codes), it is also possible to put in a default Min/Max Age for the entire batch, which will appear in the columns of the Rules grid once the arrow is selected to create the new rule.

For both tables, it is possible to create multiple rules for the same billing code, as long as the Age settings do not overlap between rules.

Note that in the following example, three overlapping age ranges have been (incorrectly) configured as 1-16, 2-15 and blank-blank. Where a blank age means any age, RIS considers the blank-blank to overlap with the other two rows for CPT 21010, which is indicated via the red flags.

Authorization rules for PowerList:

CPT Codes:

Code	
C 71010	Contains:
71010	RADIOLOGIC EXAMINATIC

Coverage Types:

A - Auth Required
EX - Excluded
FFS - Fee For Service
FFS_N - Fee For Service No Auth
IN - In Cap
X - Auth Not Required

☒ Default Min/Max Age Rule
Min Patient Age (Years)
Max Patient Age (Years)

Rules:

Code	Coverage	Min Patient Age...	Max Patient Age...	Des
71010	A	1	15	RADIO
71010	A	2	15	RADIO
71010	A			RADIO
78278	A			ACUTE
V5364	A			DYSPL
V5363	A			LANGU
V5362	A			SPEEC
V5336	A			REPAI
V5299	A			HEARII
V5298	A			HEARII
V5275	A			EAR IN
V5274	A			ASSIS
V5273	A			ASSIS
V5272	A			ASSIS
V5271	A			ASSIS
V5270	A			ASSIS
V5269	A			ASSIS

New Known Limitations

The following unresolved issues have been identified:

- Age condition rules are only applied once and therefore the patient's age must be entered before scheduling the exam.

Configuration Instructions

System Administrators must complete the following actions to enable this feature:

RIS Client

Changes to Other RIS Lookup Table Settings

- Configure the **Min Patient Age (Years)** and/or **Max Patient Age (Years)** columns in the **PreCert Groups** RIS Lookup Table Editor and/or UM **Authorization Rules** screen as needed for your organization.

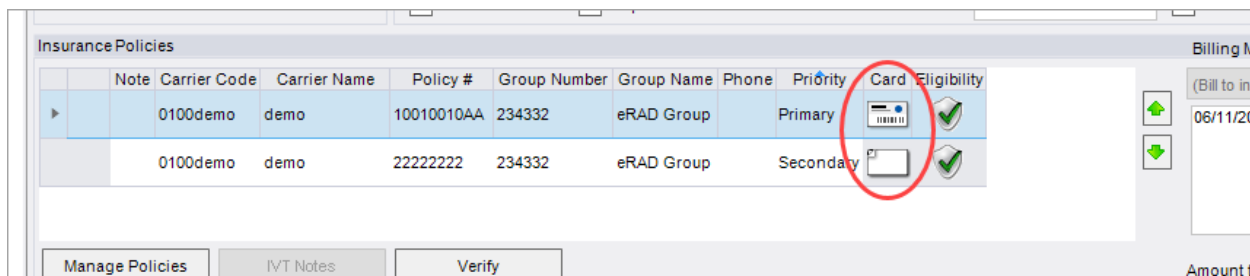
Feature #27300 - Associate scanned insurance card documents to an insurance policy

Summary

This enhancement to Insurance Management introduces the ability to associate the scanned attachment of a patient's insurance card to its corresponding policy.

Cards may be associated at the time of scanning or after the fact. Multiple cards may be attached and associated to any existing policy.

This feature also introduces an easy way to view the attached images when working in the Manage Policies screen.



Insurance policies that have scanned attachments classified as an insurance card will initially display with a blank "document" icon. Once the card front or back has been identified, this will update to a "card" icon.

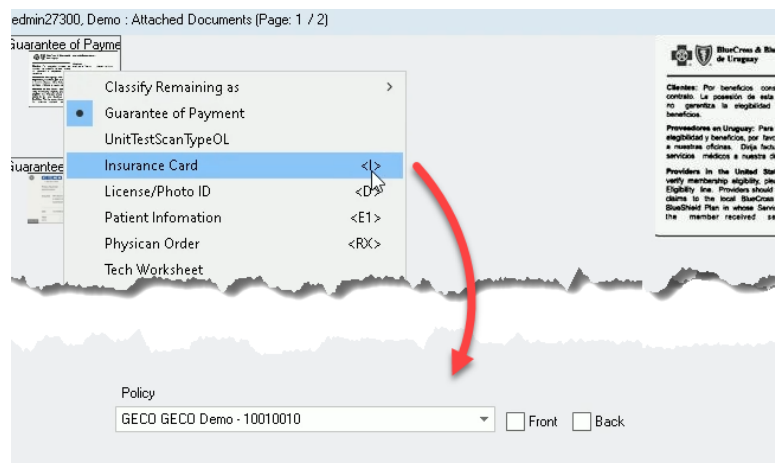
Background

It is very common for users to digitally scan a patient's insurance cards and associate the attachment to the patient's record in RIS. However, there was previously no way to associate an insurance card image to an insurance policy.

This means users must dig when trying to find an image of the insurance card, and it makes it difficult to use the insurance card images for AI training as there is no link between the image and the policy.

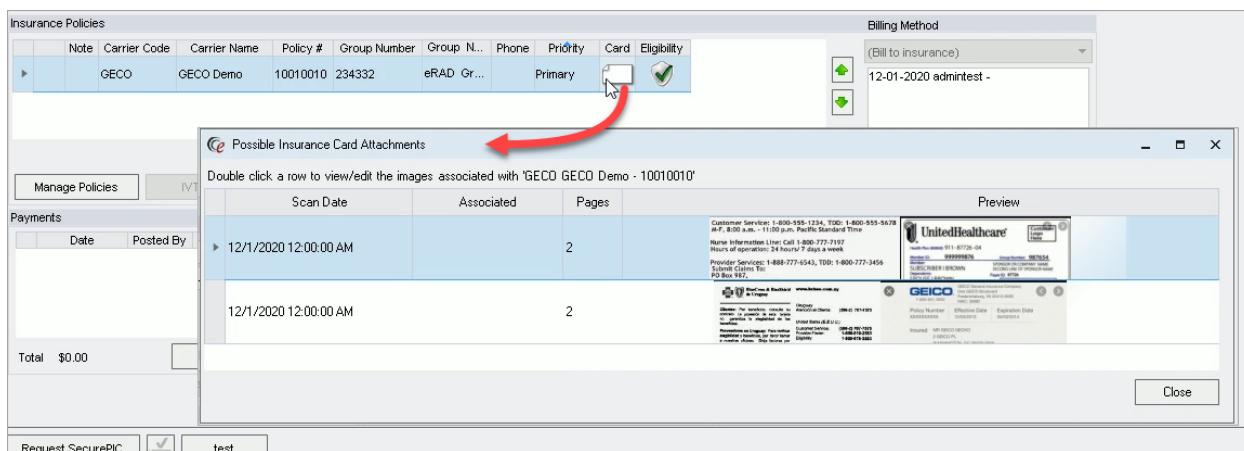
Feature Description

With this change, the new `InsuranceCardScanType` RIS System Configuration setting identifies which ScanTypes represent an Insurance Card. When a user classifies a scanned document with a ScanType that matches one of these types, they will be prompted to select an existing policy, although a selection is not required.

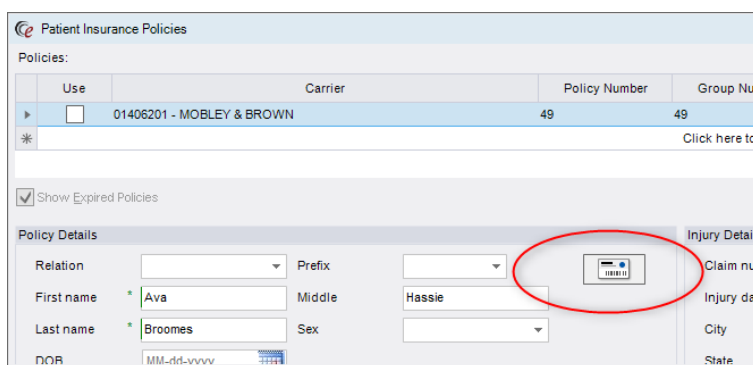


All available policies will be listed in the dropdown, with any policies marked as "Use" for the current appointment at the top of the list.

Users may also associate an Insurance Policy from the Attachments grid, anywhere it is displayed.



The new icons are also presented in the Manage Insurance Policies window if the Insurance policy is associated with insurance card attachment or if attachments are available to review.



Configuration Instructions

System Administrators must complete the following actions to enable this feature:

RIS Client

Changes to RIS System Configuration Settings

Complete the following steps to enable this feature:

- Configure the `InsuranceCardScanType` RIS System Configuration setting for your organization.

RIS System Configuration Setting Changes

Setting	Value and Default	Purpose
InsuranceCardScanType	Value=CSV of active "Scan Type Code" values as String [from ScanTypes lookup table], Default=Blank	Comma separated list of Scan Type Code values that represent an insurance card. Added in v2020.12.21 #27300

Patient Management

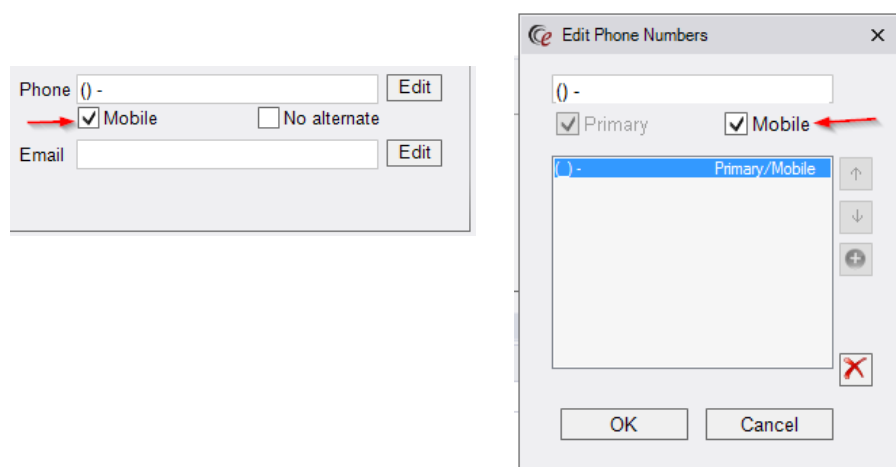
Feature #27256 - Support for defaulting phone numbers to Mobile

Summary

This enhancement to Patient Management adds support for defaulting the phone number type for newly added numbers to Mobile.

Currently, users must manually check this box, even though the vast majority of numbers are now mobile (cell) numbers.

With this change, the **Mobile** checkbox is automatically checked for all phone numbers that are entered. If desired, the user can manually uncheck the box.



Configuration Instructions

System Administrators must complete the following actions to enable this feature:

Changes to RIS System Configuration Settings

- Configure **PhoneNumberDefaultMobile** for your organization.

The following related settings were added or updated:

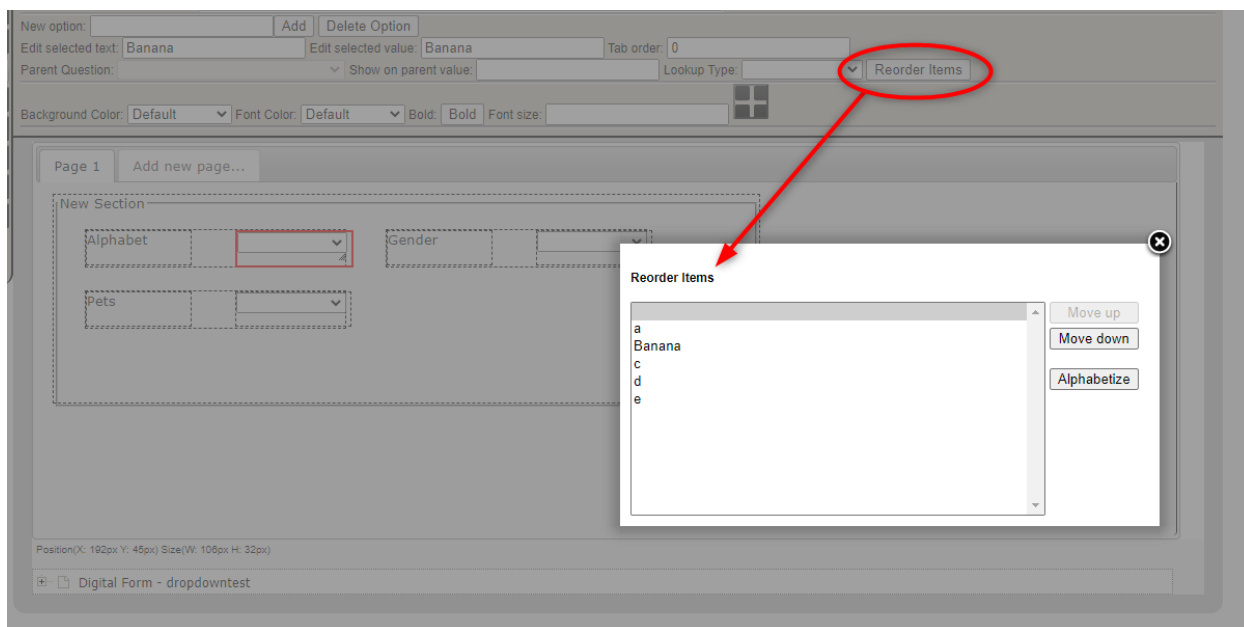
Setting	Value and Default	Purpose
PhoneNumberDefaultMobile	Value=Boolean, Default=[FALSE]	When True, phone number type will default to mobile. Added in v2020.12.21 #27256

Digital Forms

Feature #28435 - Support for re-ordering Digital Form dropdown lists

Summary

This enhancement to the Digital Forms adds support for sorting and manually re-ordering dropdown list items in the Digital Form Editor.



Previously, new items were added to the bottom of the list.

With this change, a new **Reorder Items** button has been added to the toolbar. An **Alphabetize** button performs an English-language sort, with numeric values having a higher priority.

Configuration Instructions

No System Administrator actions are necessary to enable this feature.

PACS Integration

Feature #27595 - Force RIS to use eRAD PACS V7

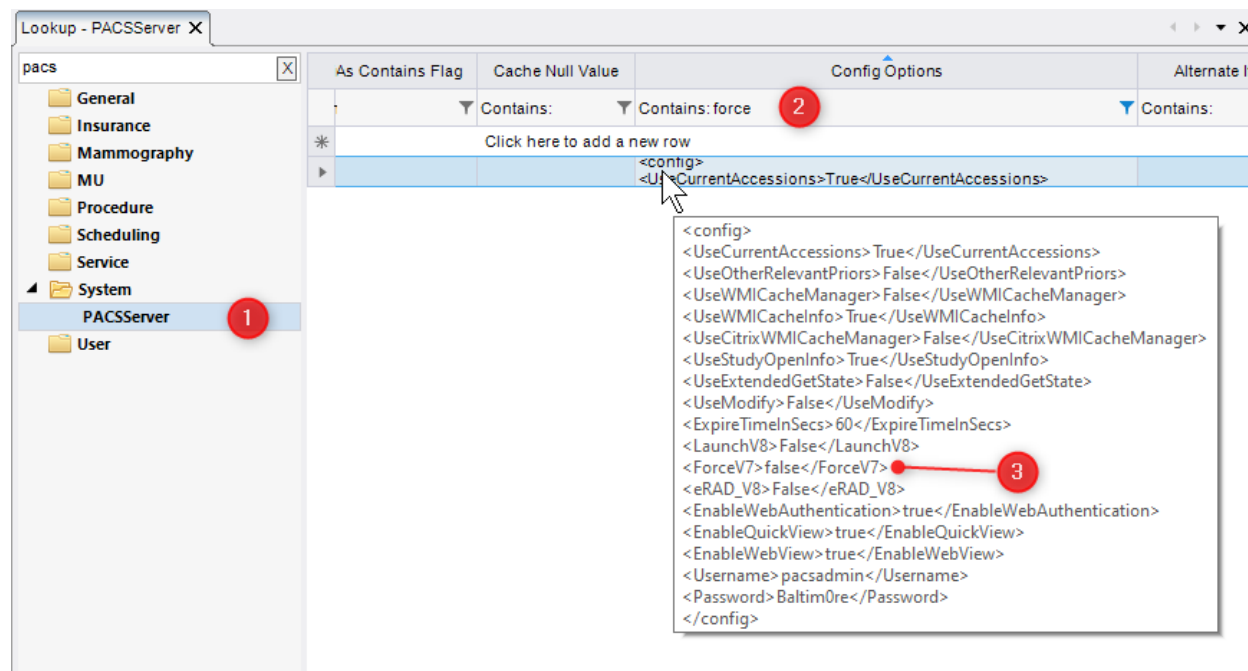
Summary

This enhancement to PACS Integration adds configuration allowing RIS to continue to launch eRAD PACS V7, even if V8 is found to be running, allowing sites to support a mixed-mode rollout.

Currently, as sites transition to eRAD PACS V8, radiologists may have both PACS viewer versions installed on their workstations but must continue to use V7 until the conversion to V8 is complete.

Existing eRAD viewer functionality in the RIS will first look for and use any running V8 viewer, then look for and use any running V7 viewer, before finally attempting to launch V8. This means that if the new viewer software is rolled out in advance of the conversion, the workstation will try to use V8 even though the site is not yet ready to convert all users.

With this change, users can continue running the V7 viewer when the V8 viewer is installed by updating the RIS **PACSServer** Lookup Table and modifying the Config Options to set **ForceV7** to **True**. Note this setting takes precedence over the **LaunchV8** setting if present (i.e. if ForceV7 is True then LaunchV8 has no effect).



A typical configuration would have two entries in the PACS server lookup. The existing entry for PACS V7 would have the new configuration setting ForceV7 = TRUE added, ensuring that when this particular PACS server is selected, V7 will be launched no matter what is installed.

A new entry for PACS V8 could also be created, with ForceV7 = FALSE (or simply omitted entirely). When the user/system selects this PACS server, the existing viewer launching process would be used.

The Reporting Options, User Preferences, and the Override menu can all be used to determine which users should get which PACS entry.

Configuration Instructions

System Administrators must complete the following actions to enable this feature:

RIS Client

Changes to Other RIS Lookup Table Settings

- Configure the **ForceV7** setting in the RIS **PACSServer** Lookup Table Editor.

RESOLVED ISSUES AND KNOWN LIMITATIONS

Resolved Issues

This release resolves the following issues:

Redmine #	Subject
28744	Resolved Document Distribution issue where PDF reports for email distribution failed with SQL Server 2019.

New Known Limitations

















The following new known limitations were identified with this release:

- Feature #23317 - Age condition rules are only applied once and therefore the patient's age must be entered before scheduling the exam.
- Bug #28936 - Version numbering of the portal components released in this version is incorrect. The final set of digits should reflect the released build number, which in this case is 1066. This has no impact to users.
- Bug #28938 - Checking In a patient returns an error when no carrier is present, closing the Register tab. The studies correctly get set to Checking In status.
 - Workaround: The error can be bypassed by Arriving the patient instead of first checking them in.

VERSION DETAILS

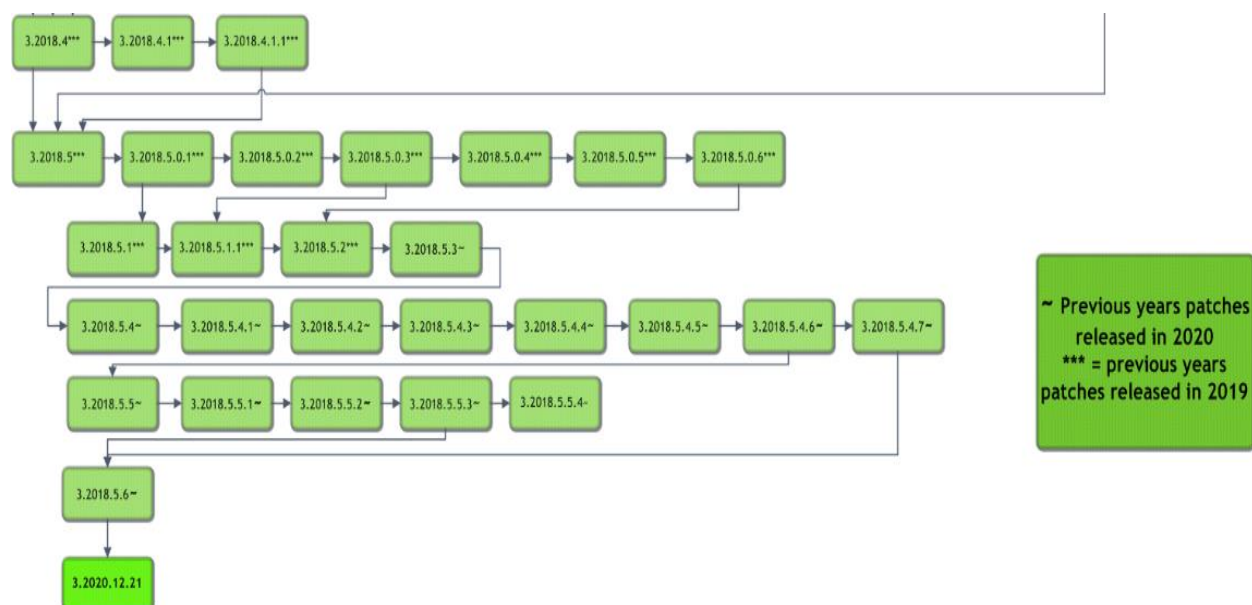
Package Contents

The release package includes the following folders:

 @Hotfixes	4/20/2012 8:51 AM
 _Documentation	12/23/2020 12:58 PM
 _ReleaseNotes	12/23/2020 4:17 PM
 Client Application	12/23/2020 12:56 PM
 DB	12/23/2020 12:56 PM
 External WebAPI	12/23/2020 12:56 PM
 Identity Service	12/23/2020 12:56 PM
 Management Reports	12/23/2020 12:56 PM
 RIS Service	12/23/2020 12:56 PM
 Service Tools	12/23/2020 1:02 PM
 Web Digital Forms	12/23/2020 12:57 PM
 Web Patient Connect	12/23/2020 12:57 PM
 Web Referring Connect	12/23/2020 12:57 PM
 Web UM Connect	12/23/2020 12:57 PM
 Build_2020.12.21.zip	12/23/2020 12:59 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	3.18.5.0.01832865	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
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



Per Bug #28936, the version numbering of the portal components released in this version is incorrect. The final set of digits should reflect the released build number, which in this case is 1066. This has no impact to users.

INSTALLATION



Upgrading to this version is not recommended for customers planning to upgrade to version 2018.5.6.1 (not yet available at the time of this release).

Please consult with our Service Team to plan your upgrade.

Client/GUI

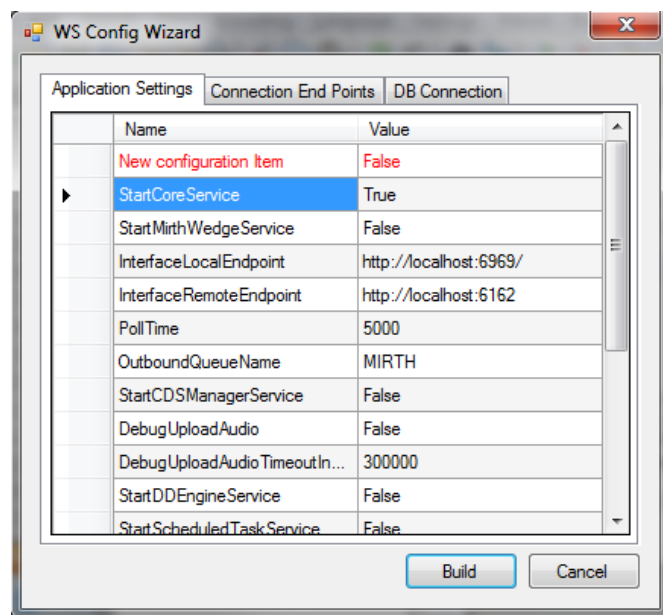
Copy and replace the current rRIS...zip file with the eRAD_RIS_2020.12.21.zip file provided with this release.

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

Web Service

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.