



eRAD RIS

Customer Release Notes

Build v3.2021.3.1

UPDATED MARCH 3, 2021

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Publication History

Revision	Author	Description
March 3, 2021	Kevin Brooks / Hilary Saltmarsh	<ul style="list-style-type: none"> Commercial release.

SUMMARY

Intended Audience

The intended audience for this **SERVICE RELEASE NOTES** document is the Service Team for all eRAD RIS customers.

This document includes the full content of the **CUSTOMER RELEASE NOTES** document, with additional technical details and deploy instructions.

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



*This is not a customer-facing document. Please provide customers the **CUSTOMER RELEASE NOTES** edition of this document.*

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.

Additional technical details and deploy instructions are available to the Service Team in the **SERVICE RELEASE NOTES** edition of this document.

Who Is Affected

This release of eRAD RIS v3.2021.3.1 includes several enhancements to Insurance Management, improves launching of PACS images from the Provider Portal, introduces support for AI data on dictation worklists, and resolves a variety of existing issues.

This version is recommended to be applied on eRAD RIS v3.2021.2.15 or v3.2021.2.15.1 installations.



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

Access Strings Settings

The following settings were added or updated with this release:

Setting	Value and Default	Purpose
Config.LookupEditor.AICategory	Value=[None Full], Default=[None]	Controls access to the "AICategory" lookup table editor. Added in v2021.3.1 #29218

RIS.exe.config

The following settings were added or updated with this release:

Bug #29247 - Resolved Infrastructure issue where starting services with signed dlls would fail when Authenticode verification failed.

Some customers have reported issues with virus scanners not liking our previous unsigned .dlls. Since then, the .dlls have been code-signed for several reasons, including preventing false positives from antivirus software. One customer who had an issue with the signed .dlls because of the secure environment was using a proxy system to allow network inspection. This was causing the authenticode validation to take a very long time or fail due to timeout. The setting below is to alleviate the issue for such customers while maintaining code signing.

Default is false.

```
<generatePublisherEvidence enabled="false"/>
```

ApplicationSetting.config

Feature #28365 - UI Plugin Framework

```
<setting name="DBActionSignalRServiceAuthKey" serializeAs="String">
  <value>A7031C4966414F3C86B04419CF02C06D</value>
</setting>
```

```
<setting name="StartSignalRService" serializeAs="String">
  <value>True</value>
</setting>
```

The following new setting has been added as part of Feature #27601 (default value is `False`):

```
<add key="AllowLinkedStudiesAllImages" value="True"/>
```

rRISServices.exe.config and rRISServicesx64.exe.config

Note that the `rRISServices.exe.config` and `rRISServicesx64.exe.config` files do not need interaction during upgrade process, these files will auto-updated.

Bug #29247 - Resolved Infrastructure issue where starting services with signed dlls would fail when Authenticode verification failed.

Refer to explanation above under the changes to ris.exe.config

Under the <runtime> section, this setting was added:

```
<generatePublisherEvidence enabled="false"/>
```

Feature #28365 - UI Plugin Framework

The following settings were also changed or added with this feature.

These settings are located under the <runtime> section of the file.

Old values

```
<dependentAssembly>
  <assemblyIdentity name="Microsoft.Owin" publicKeyToken="31bf3856ad364e35" culture="neutral" />
    <bindingRedirect oldVersion="0.0.0.0-3.0.1.0" newVersion="3.0.1.0" />
```

New values

```
<dependentAssembly>
  <assemblyIdentity name="Microsoft.Owin" publicKeyToken="31bf3856ad364e35"
culture="neutral" />
  <bindingRedirect oldVersion="0.0.0.0-4.0.0.0" newVersion="4.0.0.0" />
</dependentAssembly>
```

Added settings

```
</dependentAssembly>
  <dependentAssembly>
    <assemblyIdentity name="NLog" publicKeyToken="5120e14c03d0593c" culture="neutral" />
    <bindingRedirect oldVersion="0.0.0.0-4.0.0.0" newVersion="4.0.0.0" />
  </dependentAssembly>
  <dependentAssembly>
    <assemblyIdentity name="Telerik.WinControls" publicKeyToken="5bb2a467cbec794e"
culture="neutral" />
    <bindingRedirect oldVersion="0.0.0.0-2017.1.221.40" newVersion="2017.1.221.40" />
  </dependentAssembly>
  <dependentAssembly>
    <assemblyIdentity name="Telerik.WinControls.UI" publicKeyToken="5bb2a467cbec794e"
culture="neutral" />
    <bindingRedirect oldVersion="0.0.0.0-2017.1.221.40" newVersion="2017.1.221.40" />
  </dependentAssembly>
  <dependentAssembly>
    <assemblyIdentity name="Telerik.Common" publicKeyToken="5bb2a467cbec794e"
culture="neutral" />
    <bindingRedirect oldVersion="0.0.0.0-2017.1.221.40" newVersion="2017.1.221.40" />
  </dependentAssembly>
  <dependentAssembly>
    <assemblyIdentity name="Microsoft.Owin.Security" publicKeyToken="31bf3856ad364e35"
culture="neutral" />
    <bindingRedirect oldVersion="0.0.0.0-4.0.0.0" newVersion="4.0.0.0" />
  </dependentAssembly>
```

NEW FEATURES

Insurance Management

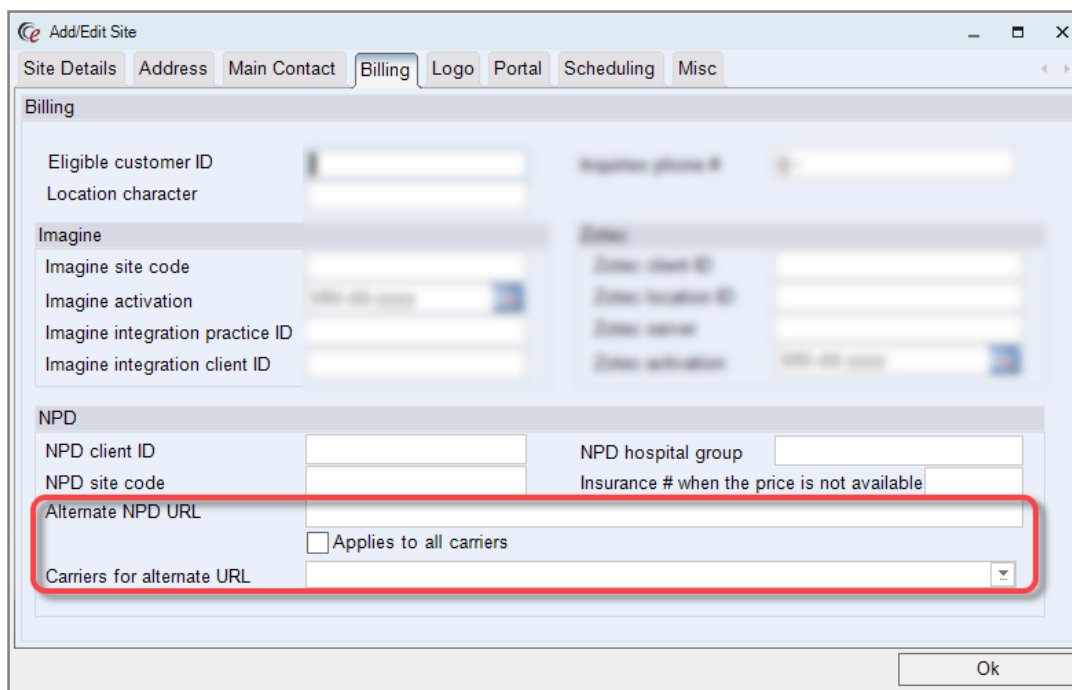
Feature #28745 - Support for Alternate NPD URL based on Site or Carrier

Summary

This enhancement to Insurance Eligibility allows the National Payer Database (NPD) endpoint to be configurable for all carriers or for a specific set of carriers.

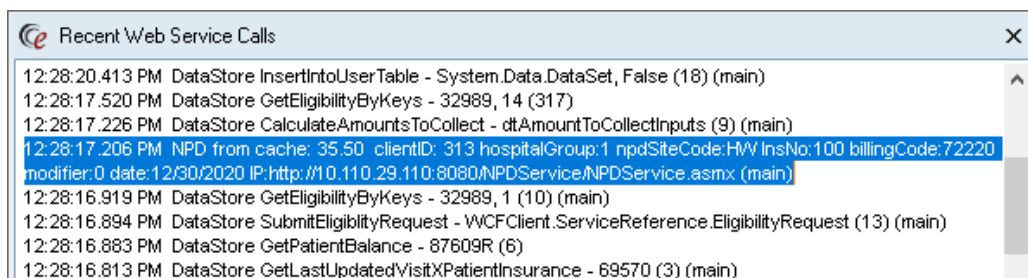
Previously, all NPD calls were made to the URL specified in the System Configuration setting `NPDServiceAddress`.

With this change, `NPDServiceAddress` continues to function as the default NPD endpoint, but the Organization `Add/Edit Site` screen has been reorganized and updated to include configuration for overriding the NPD URL per carrier:

The screenshot shows a software window titled "Add/Edit Site" with several tabs: "Site Details", "Address", "Main Contact", "Billing" (selected), "Logo", "Portal", "Scheduling", and "Misc". The "Billing" tab contains several sections. The "NPD" section is highlighted with a red rectangle and includes the following fields: "NPD client ID", "NPD site code", "Alternate NPD URL" (a text input field), and "Carriers for alternate URL" (a dropdown menu). A checkbox labeled "Applies to all carriers" is located between the "Alternate NPD URL" and "Carriers for alternate URL" fields. Other sections visible in the window include "Eligible customer ID", "Location character", "Imagine" (with fields for site code, activation, integration practice ID, and integration client ID), and "NPD hospital group" with a sub-field for "Insurance # when the price is not available". An "Ok" button is at the bottom right of the window.

When `Applies to all carriers` is checked, the control for specifying specific carrier codes becomes disabled. Otherwise, the user can enter the carrier codes for which the alternate NPD URL will apply.

When the NPD call is made as the user works on the studies via View/Edit, Registration or Scheduling screens, details of the NPD call can be viewed via the `Help` » `Console Messages`, e.g.:



Configuration Instructions

No System Administrator actions are necessary to enable this feature; however, optional configuration is available:

- To override the default System Configuration `NPDServiceAddress` value, use `Add/Edit Site` to enter the alternate NPD URL and optionally specify specific carrier codes.

Feature #29143 - User-friendly display order column when editing Insurance Service Type Rules

This enhancement to the `InsuranceServiceTypeRule` RIS Lookup Table Editor adds a new `Order` column to indicate the display order of the rules in an easily readable manner.

Previously, Feature #27832 introduced a new right-click option for the Rule editor to directly insert a new row at a specific location without having to manually adjust the Display Order column. However, the values that appeared in the Display Order column were internal values, used to space out the entries to minimize row changes in the database, which was confusing for administrators of this table.

With this change, the new `Order` column shows the display order of the rules as a simple 1..n sequence. The existing `Display Order` column still exists, but no longer needs to be displayed.

Configuration Instructions

No System Administrator actions are necessary to enable this feature.

Feature #29145 - Performance enhancements to AI and WS Amount to Collect Calculation

Summary

This enhancement to Insurance improves the background handling of the A.I. and WebService calls that are part of the Amount to Collect calculation to improve the response time when displaying the results to users once the external data becomes available. Some user actions are also blocked while processing is in progress.

Previously, the only indication to users that something was processing was the hourglass cursor; and users were not prevented from scheduling or saving values while the operation was in progress. These actions must be prevented as the outcome of the AI can change PreCerts that the user has to act upon; and the Scheduling Notes dialog can display an inaccurate Amount to Collect while the operation is in progress.

With this change, a new "Calculating Amount to Collect" label is displayed over the Insurance Policies grid on the Order tab while the Amount to Collect calculation is executing:

While this operation is in progress, users are now prevented from:

- Clicking the Amount to Collect Details button.
- Clicking Manage Policies.
- Clicking Verify Insurance.
- Entering a manual Amount to Collect.

Configuration Instructions

No System Administrator actions are necessary to enable this feature.

Radiology Reporting

Feature #29218, #29219 - Display AI data on radiologist worklists

Summary

This enhancement to Radiology Reporting adds new columns to the Pending Dictation and All Pending Dictation worklists to display values returned from an AI vendor to optimize dictation worklist sorting.

Feature Description

Feature #29218 - AI Category RIS Lookup Table Editor

This feature introduces a new **AI Category** RIS Lookup Table Editor to map results returned from AI evaluation of PACS images.

It is expected that an AI vendor will return a single AI Category value via HL7 messaging. This new lookup table defines the descriptions and icons that will display in the radiologists' worklists. The Display Order column defines the default sort order when the AI values are sorted on worklists.

There is also an option to add a custom icon that will represent the AI Category on the dictation worklists. This is configured in the same fashion as the Icons for the **PatientAlert** table.

Lookup - AICategory X					
Ai Category Code	Description	Display Order	Last Updated	Active	Icon
Contains: ▼	Contains: ▼	Equals: ▼	Contains: ▼	Contains: ▼	
Click here to add a new row					
AI4	High Suspicion	1	03-03-2021 12:24 AM	Y	AI4
AI3	Indeterminate Suspicion	2	03-03-2021 12:24 AM	Y	AI3
AI2	Low Suspicion	3	03-03-2021 12:24 AM	Y	AI2
AI1	No Suspicion	4	03-03-2021 12:26 AM	Y	AI1

AN EXAMPLE OF HOW THE AICATEGORY LOOKUP TABLE CAN BE CONFIGURED.

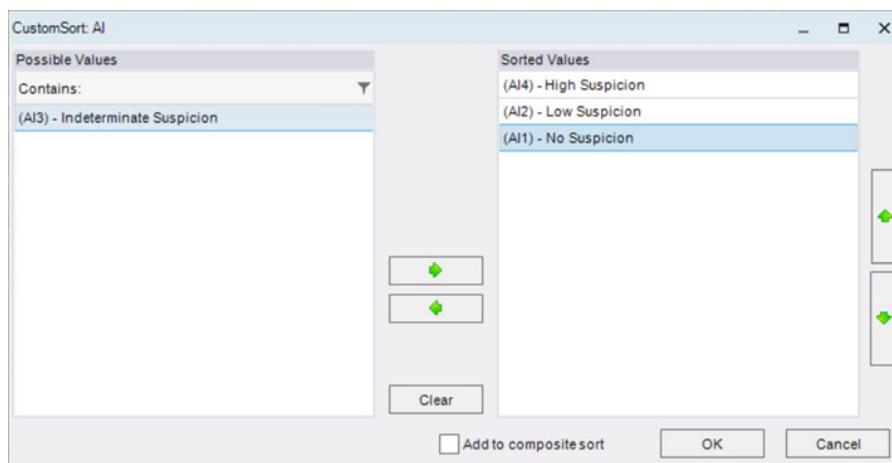
This feature also includes the creation of a database field to store the AI Category when it is populated by an AI vendor (ai_category_code in c_study). A single AI Category can be assigned per study.

Feature #29219 - Display AI Category on dictation worklists

This feature introduces a new column on the Pending Dictation and All Pending Dictation worklists to display values returned from the AI evaluation of PACS images.

The new AI column will display an icon corresponding to the values returned by the AI vendor, as configured in the new **AICategory** Lookup table (described above).

By default, the AI column will sort according to the Display Order set in the AICategory lookup, but this may be overridden via the existing **CustomSort...** filter option. In addition to grouping by suspicion level, the **Add to composite sort** checkbox allows sorting to work in conjunction with sorting on other columns, such as STAT Read and Modality Type to allow radiologists to order their studies for more efficient interpretation.



THE **CUSTOMSORT...** OPTION FOR THE AI COLUMN ALLOWS USERS TO USE THE ARROW BUTTONS ON THE RIGHT-HAND-SIDE TO DEFINE A PREFERRED SORT ORDER.

Configuration Instructions

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

RIS Client

Changes to AICategory RIS Lookup Table Settings

- Configure entries in the `AICategory` table for your organization, if working with an AI vendor to populate data for preferential dictation worklist sorting.

Changes to RIS Access String Settings

- Grant `Config.LookupEditor.AICategory` permissions as necessary.

The following related settings were added or updated:

Setting	Value and Default	Purpose
<code>Config.LookupEditor.AICategory</code>	Value=[None Full], Default=[None]	Controls access to the "AICategory" lookup table editor. Added in v2021.3.1 #29218

Provider Portal

Feature #27601 - Launch all images for linked studies from the Provider Portal

Summary

This enhancement to the Provider Portal allows all images from a linked collection to be displayed at once, not just the single study that was selected. This is relevant for customers using Linked Reporting.

Background

When an order has multiple studies that are linked in RIS, some customers have the technologist send all images acquired on the modality to the primary accession number in PACS, even though there are multiple studies with their own accession numbers. When the provider views the study in the Provider Portal, they will still see all the individual studies listed (as expected). However, if they click one of the linked studies (non-primary) and select "View Images," they would previously receive an error message that no images are available, as the images were all sent to the primary accession number.

Feature Description

With this new configuration option, when a study is part of a linked collection, all images for the entire order will be displayed when the provider clicks on any study in the order with a matching order key. This does not require that all images be associated with the primary study only, as RIS will iterate all studies in the order and display all images in case some images were sent to a specific study.

As before, the "Report" tab will show the same report no matter which study is selected.

This behavior is controlled by a new `AllowLinkedStudiesAllImages` configuration option. The default is disabled.

Configuration Instructions

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

Changes to the Provider Portal's applicationsettings.config file

1. Enable the feature by adding the new `AllowLinkedStudiesAllImages` setting (default is False):

```
<add key="AllowLinkedStudiesAllImages" value="True"/>
```
2. Restart the portals.

RESOLVED ISSUES AND KNOWN LIMITATIONS

Resolved Issues

This release resolves the following issues:

Redmine #	Subject
20407	Resolved Provider Portal Account Page display issue where the "Receive Marketing Faxes" did not display as a checkbox.
22353	Resolved Patient WF: Account Access issue where selecting 'Can't access your account?' link on home page for Connect Patient Portal returned an error.
22354	Resolved Patient WF: Make Appointment issue where using the browser's Back button disables the scheduling Next button when using Firefox browser.
22750	Resolved Provider Search issue where the Search page did not return results when searching by Referring Practice/Last Name.
23338	Resolved System issue where links from emails with a verification code did not auto-populate the iCode field.
24213	Resolved RADAR issue where sending a RADAR Quick Message could silently fail.
25595	Resolved Worklists issue where the 'Edit' context menu item on Distribution worklists was not appearing.
25776	Added validation to prevent misconfiguration of EligibilityLimitPayment RIS Lookup Table.
28931	Resolved Insurance Management issue where the insurance card icon was not displayed in the Insurance Policies grid from the IVT window.
28954	Resolved Insurance Management issue where the Insurance priority was incorrect after reconciling an unknown carrier.
29095	Resolved Home Page issue where the Quick Filter by Patient Name was not working in UM Portal.
29172	Resolved DB issue where Manage Policies reported NPD errors in the c_client_error_log.
29206	Resolved DB performance issue where Eligibility processes were performing table scans and causing blocking.
29221	Resolved Insurance Management issue where RIS was not passing required fields to the Infinx API.
29243	Resolved Inbound Document issue where errors when loading thumbnails would crash RIS.
29244	Resolved Orders Page performance issue where the worklist query was taking a long time to run.
29247	Resolved Infrastructure issue where starting services with signed DLLs would fail when Authenticode verification failed.
29251	Resolved Worklists issue where previewing reports from the Distribution History (non-materialized) worklist returned an error.
29280	Resolved cosmetic issue with Access strings.

New Known Limitations

The following known limitations were identified with this release.

Redmine #	Subject
29354	Provider Orders Page issue where the displayed order status and follow-up type values are incorrect.
29382	EMR issue where the EMR Order Description is removed on a patient with multiple EMR orders.
29385	Billing issue related to Bug #28457 which prevents billing codes being added due to the exam status.
29391	EMR issue where pre-version 2021.2.15.1 EMR orders display blank procedure codes.
29438	Scheduling issue where reason for study values are not saving on EMR orders with multiple procedures.

VERSION DETAILS

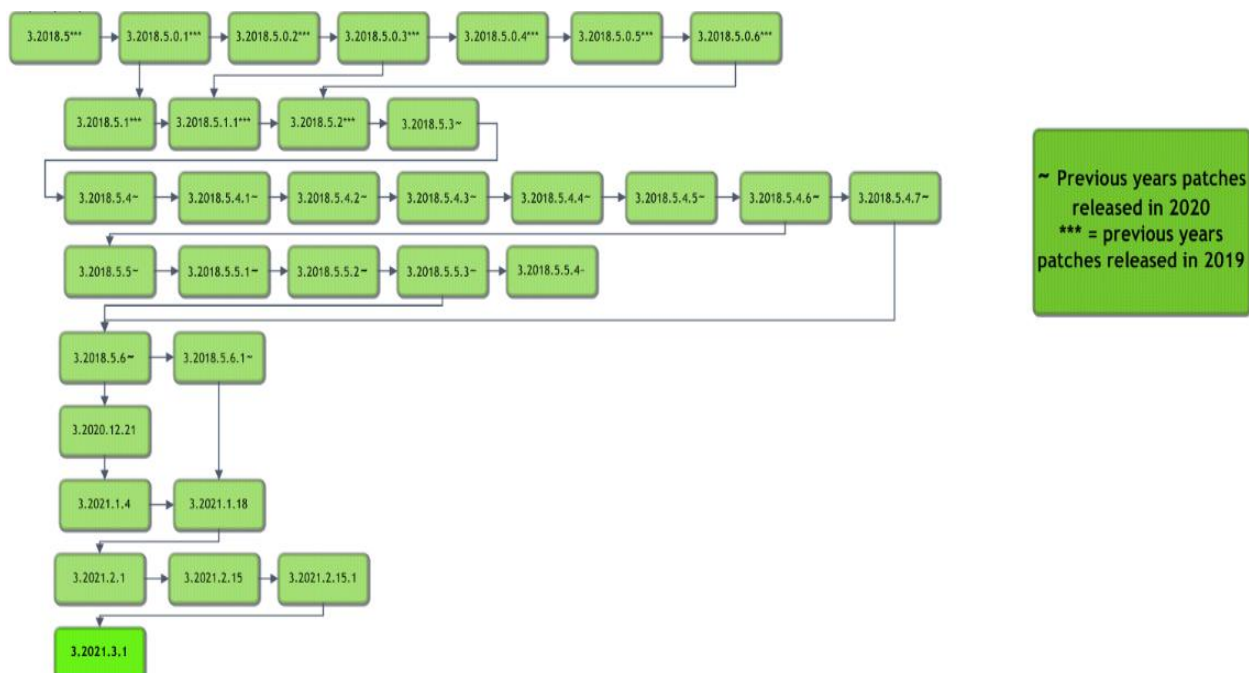
Package Contents

The release package includes the following folders:

@Hotfixes	4/20/2012 8:51 AM
_Documentation	2/26/2021 12:05 PM
_ReleaseNotes	2/26/2021 4:59 PM
Client Application	2/26/2021 12:02 PM
DB	2/26/2021 12:02 PM
External WebAPI	2/26/2021 12:02 PM
Identity Service	2/26/2021 12:02 PM
Management Reports	2/26/2021 12:02 PM
RIS Service	2/26/2021 12:02 PM
Service Tools	2/26/2021 12:13 PM
Web Digital Forms	2/26/2021 12:03 PM
Web Patient Connect	2/26/2021 12:04 PM
Web Referring Connect	2/26/2021 12:05 PM
Web UM Connect	2/26/2021 12:05 PM
Build_2021.3.1_1119.zip	2/26/2021 4:46 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
2018.5	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
2021.1.4	-	3.21.1.4.0(3GB)	3.21.1.4				3.21.1.4.0.1075	3.21.1.4.0.1075	3.21.1.4.0.1075	GUI and Patient/Provider/UM portals
2021.1.18	-	3.21.1.18.0(3GB)	3.21.1.18	3.21.1.18.0	3.21.1.18.0.02652234	3.21.1.18.0	3.21.1.18.0.1081	3.21.1.18.0.1081	3.21.1.18.0.1081	GUI, Web Services, DB, Patient/Provider/UM portals and Digital Forms
2021.2.1	-	3.21.2.1.0(3GB)	3.21.2.1	3.21.2.1.0	3.21.2.1.0.02672074	3.21.2.1.0	3.21.2.1.0.1090	3.21.2.1.0.1090	3.21.2.1.0.1090	GUI, Web Services, DB, Patient/Provider/UM portals and Digital Forms
2021.2.15	-	3.21.2.15.0(3GB)	3.21.2.15	3.21.2.15.0	3.21.2.15.0.02698266	3.21.2.15.0	3.21.2.15.0.1111	3.21.2.15.0.1111	3.21.2.15.0.1111	GUI, Web Services, DB, Patient/Provider/UM portals and Digital Forms
2021.2.15	1	3.21.2.15.1(3GB)	3.21.2.15.1	3.21.2.15.1		3.21.2.15.1	3.21.2.15.1.1113	3.21.2.15.1.1113	3.21.2.15.1.1113	GUI, Web Services, Patient/Provider/UM portals and Digital Forms
2021.3.1	-	3.21.3.1(3GB)	3.21.3.1	3.21.3.1	3.21.3.1.002712308	3.21.3.1	3.21.3.1.0.1119	3.21.3.1.0.1119	3.21.3.1.0.1119	GUI, Web Services, Patient/Provider/UM portals and Digital Forms