



eRAD RIS

RELEASE ANNOUNCEMENT

Build 4.2024.042

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PUBLICATION HISTORY

Revision	Author	Description
April 8, 2024	Kevin Brooks, Michelle Mahabir / Hilary Saltmarsh	<ul style="list-style-type: none"> Commercial release.

SUMMARY

Release Announcement

*This release of **ERAD RIS 4.2024.042** introduces the ability to stream image downloads to PACS web clients.*

New Features

This release introduces the following features and enhancements:

Category	Redmine #	Subject	Description
Provider Images	33607	Support PACS web client streaming image download	This enhancement to Provider Images adds support for streaming image downloads to PACS web clients.

SORTED BY CATEGORY AND REDMINE

Refer to the **FEATURE DETAILS** section below for configuration and usage information.

FEATURE DETAILS

Provider Images

Feature #33607 - Support PACS web client streaming image download

Summary

This enhancement to Provider Images adds support for streaming image downloads to PACS web clients.

Background

The current RIS web services functionality downloads JPEG images when a client (browser) requests an image. As the current PACS no longer uses JPEG images, these requests are now created on-the-fly. In addition to being inefficient, creating these JPEG files take up storage space.

The current PACS prefers web clients to download the images as compressed data files (called "CW4" file format). Since web browsers don't support CW4 natively, an SDK has been created to download, decompress and render the CW4 images.

Feature Description

With this change, PACS web clients can now be configured to support streaming image download of CW4 files.

This functionality is now available for the Patient, Provider, and UM portals with PACS V7, V8, and V9.

Configuration Instructions

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

RIS Client

Changes to SystemConfig Lookup Table

- Enable this feature by setting `LoadPACSByEPWebApp` to `True` and then updating PACS server config for each server as necessary.

The following related settings were added or updated:

Setting	Default	Purpose
LoadPACSByEPWebApp	Value=Boolean, Default=[False]	When True, the system will enable a new "EPWStreamingServerAddress" option in PACS server config which toggles the image viewing process from loading images as JPEG to a streaming process to match how images are rendered in the PACS viewer. Updated by #33607

Changes to PACSServer Lookup Table Values

Update PACS server config for each server to streaming image viewing.

- Confirm the `SystemConfig` setting `LoadPACSByEPWebApp` = `True`.
- Update PACS server settings for each server as necessary:
 - From the `PACSServer` Lookup Table, locate the server to update.
 - Right-click `Config Options` and open the `PACSConfigOptions` dialog:

Config Options	Alternate Iface Url	Last Updated
Contains: ▼	Contains: ▼	Equals: ▼
		01-13-2023 11...
		3-2023 11...
		3-2023 11...
		3-2023 11...
		3-2023 11...
		3-2023 11...
		01-13-2023 11...

- o Enable the streaming image viewing by setting `EPWStreamingServerAddress = True`.

The screenshot shows a dialog box titled "PACSConfigOptions" with a table of configuration options. The option "EPWStreamingServerAddress" is highlighted with a red box and has a value of "True".

Config Code	Value	Description
ExpireTimeInSecs		
LaunchV8		When set to true will automatically launc...
ForceV7		When set to true PACS v8 will not be us...
eRAD_V8		
DICOM_Download		
EPWStreamingServerAddress	True	
EnableWebAuthentication		
EnableQuickView		Available in eRAD PACS v8. It is for the...
EnableWebView		Available in eRAD PACS v8. It is for the...
IVIS_PACs_URL		URL of the IVIS viewer
Username		Username to be used by the portal for...
Password		Password to be used by the portal for w...

VERSION DETAILS

Code Stream

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

