



Customer Release Notes

eRAD PACS
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New Features and Enhancements

1. Evolution settings UI needs spine label configuration

The spine label configuration panel has been updated to use an Evolution-style panel. All settings and features remain available. See Spine in Settings Panel

2. Header for configuration panel lists

Some popup panels or configuration windows containing data tables did not include column headers to identify the associated data values. These have all been updated to include column headers.

3. Add maximum pixel value to Hounsfield tool

The Hounsfield annotation tool includes the maximum pixel value contained within the ROI. By default, this value is included, along with the mean and standard deviation. All three values can be disabled by default for each modality type from the Annotations configuration settings panel. They can be shown/hidden for a specific image from the annotation tool's context menu.

4. Log sending refactoring

To account for missing log data in the viewer logs, the logging tool has been overhauled. Improvements include adding error messages when logs could not be attached and sent to the server.

Resolved Issues

1. Spine label bugs

Spine labeling configuration data was mismanaged and the application of spine labels was mishandled, resulting in unavailable features or unintended behavior. This included the inconsistent storage of spine labels in the current XML-based storage format, improper application of spine label sets when modifying their configuration, and failure to update applied spine label values and connector lines after modifying their settings.

2. Loading reports dialogue persists after re-opening bookmarked study

Continuing dictation recording after restoring a bookmarked session with a partial dictation popped up a progress panel that would not disappear after reloading completed.

3. DICOM print crashes with empty ShowImageTrueSizeFlag tag

If the DICOM printer configuration contains an empty value for the true size flag setting, the viewer could crash when printing to the DICOM printer.

4. Invalid server name causes viewer crash

If the server sent the viewer an invalid or empty stream server URL, an exception occurred but the viewer failed to catch it and crashed.

5. Multiple communication instance of a cache object can cause crashes

When requesting a cached object from the cache manager, a duplicate instance was created when the existing one should have been used. Using both instances could result in a viewer crash.

6. Patient Folder opening crashes

Some attempts have been made to address an unidentified crash in low-level Windows libraries when using the viewer's patient folder.

7. SetGridMode with Reuse mode crashes if the selected image is removed

After changing the grid mode setting to reuse data in populated image frames when eight or more image frames are on the screen with the selected frame being the last frame, and then changing the layout to one frame per screen, the viewer could crash because the viewer failed to update the selected image frame which no longer existed, even as a frame on a virtual monitor.

8. Thumbnail panel crashing when displaying overlay information

If the thumbnail panel's overlay information setting changed during or after closing the study, the pointer to the thumbnail header object became invalid and caused a crash when accessed.

9. Viewer doesn't load the cached study from CWL

If the herpa data is cached on the workstation and the open request is redirected to a server (for example, from a hub server to a child server when the open request was submitted to the worklist server), the viewer failed to initiate a function causing the study parsing to remain incomplete. And when the viewer session ended, the viewer would not close because it was waiting for the thread to close first.

10. Viewer session log doesn't write the viewer type and name

The application name is taken from the resource file but not until after the resource file was loaded. As a result, the application name was missing from the session log file.

11. Read write lock can cause hang

The locking mechanism could fail when the viewer attempted to allocate multiple read locks, causing a deadlock condition.

12. WMI update call can cause deadlock

When updating the thumbnail panel after receiving a request to add a study to the session, the viewer would allocate a structure to store the new studies, overriding the previous structure. However, the viewer did not properly remove the original structure, resulting in a read/write lock conflict and a deadlock condition.

13. Async study dicom processing mechanism can get stuck

If the reader thread and processing thread complete at the same time, the event signal can get crossed, causing one of the threads to miss the signal and hang indefinitely.

14. gw3 can break (possibly even crash) on certain images

A calculation error decompressing a smaller resampled version of the image, for example, for thumbnail images, could result in no image being available.