



Customer Release Notes

eRAD PACS
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New Features and Enhancements

1. Update to applying iCAD CAD objects

Additional information from iCAD SR objects is displayed, including the case score and case score label in the CAD header. If synthetic 2D images and BTO series are present in the same study, cross correlation is enabled allowing the user to jump to the tomo slice corresponding to the location selected. Lastly, the graphic icons used to represent iCAD calcification clusters (rotated square) and masses (ellipse) have been updated.

2. Suspicion level indicated in DeepHealth stack ruler icons

DeepHealth CAD suspicion levels are indicated in the finding icon in the stack ruler. One to three lines indicate low, medium and high suspicion levels, respectively. No line indicates no suspicion level defined in the CAD object. Additionally, if the CAD object defines a color for the finding markers, the color is applied to the graphics in the image and stack ruler. This feature can be disabled from the Use color for CAD markers setting on the *Options/Presentation States/Mammography CAD SR* settings page.

3. Optimize loading of cached study

When checking if a cached object exists, the cache manager created a temporary cache object which reset the study rate causing it to be recalculated. A change was applied to avoid creating the temporary cache object when it's unnecessary.

Resolved Issues

1. Thumbnail drawing can cause crashes

When the herpa part1 and part2 data uses different formats (eg, cw1 and cw3), or when the cache contains different size thumbnails and only the header data exists in part1, the image sizes could be different. The viewer failed to detect the different sizes and accessed an invalid memory address, resulting in a crash. This has been resolved.

2. Empty frames are loaded when setting grid mode as "Reuse" with the same grid layout

When populated virtual monitors exist, the viewer is configured to reuse populated frames, and the user sets the grid layout to some value twice, the second refresh displays no image in the first monitor's frames. This has been resolved.

3. The W/L histogram window's gradient should be inverted

The scale at the bottom of the window/level distribution graph failed to recognize the greyscale photometric interpretation setting and always assumed zero was black, resulting in an inverted distribution graph when the image is defined as MONOCHROME1. This has been resolved.

4. VOI LUT range calculation can result in empty range

When the LUT table provided in an image object contained zeroes in both the first and last position, calculating the minimum and maximum values resulted in an error causing the viewer to crash. This has been resolved.

5. Window/Level setting can cause crash after updating

When reloading a viewer session containing an image that was updated on the server, and for which a modality-specific preset W/L setting was applied, the viewer could crash because the viewer attempted to use the general preset values instead. This has been resolved.

6. Thumbnail panel update results in a crash

After removing an auto-generated presentation state image, the viewer might still attempt to update it in the thumbnail panel, causing the viewer to crash. This has been resolved.

7. Stream table sorting by priority causes viewer to crash

Managing the streaming table failed to recognize a condition in which the study being removed from the table was also in the current sending list, resulting in a viewer crash. This has been resolved.

8. Error handling to IPC data sending

If the data stream was interrupted, the stream service failed to recognize the condition causing it to drop the current message resulting in an error. This has been resolved.

9. Save HP with tile layout can cause crash when using hyper streaming

When using streaming protocol and the visible image frame in the original layout is set to use more tiles than there are images in the series rendered to that frame, the viewer would crash. This has been resolved.

10. Calculating cache safety threshold size when disk space is low

The cache manager calculated the cache safety size before determining the available cache size, causing the safety size to be too small when there was limited disk space available. This has been resolved.

11. Enable username and password fields for every tool on external reporting setting page

The availability of a configurable user name and password to include in the XML file when dropped was applied to external reporting solutions with the specific label “XML Interface Speech Recognition” rather than any XML file drop solution. This has been resolved.

12. Prefetch server setting bug

If the prefetch server setting was edited twice without restarting the service or re-enabling the prefetch engine, the setting was neither saved nor applied. This has been resolved.

13. Error handling when a cache file cannot be accessed

If a cached object file had an invalid file handle, the cache service would crash when attempting to access or delete it. Since the object could not be deleted, the service would crash each time the study was prefetched or downloaded. This has been resolved.

14. Issue with submitting report

A missing parameter in the call to store a report when closing the study’s viewer session resulted in an exception that was not handled, causing the close panel to remain on the screen indefinitely. This has been resolved.