



Customer Release Notes

eRAD PACS
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New Features and Enhancements

1. Add support for Ophthalmic Tomography Image Storage SOP Classes

The viewer recognizes and displays images of the Ophthalmic Tomography Image Storage SOP class.

2. Color code link icons

The link icon uses color, in addition to numbers, to identify linked frames. The setting is defined in *Options/Frames/Frame layout/General settings/Link coding*. The default setting is number only.

3. Update the viewer code signing certificate in the viewer

The viewer is signed using the updated code signing certificate.

4. Updating the Options

Some cleanup has been applied to the settings panel. The setting for the retired center region zoom feature has been removed. The modality label used on some modality-dependent settings pages and the main setting page header label have been localized so they can appear in the applied language once the resource file is updated.

5. Add log entries for Internet Explorer control

The viewer supports an option to log IE controller errors. The setting is *Options/Advanced settings/Logging/Create WebView log*. The feature is disabled by default.

Resolved Issues

1. Navigation not working after changing language preference

Links embedded on the settings panel failed when the applied language profile was not English because the links referenced the page by name, which changed after selecting another language.

2. Wrong downloading size handling in raw image pump crashes viewer

If the server returned an error response with a non-error status code, the viewer treated it as a message containing image data and cut back the cache size of the image, which would result in a crash when the viewer attempted to use the data. This has been resolved.

3. Viewer crash or hang after logout and relogin

The viewer's login dialog box was not started by the main thread. When the user relogged in from the browser while this dialog was displayed, the viewer could hang or crash if they also attempted to enter data in the viewer's login dialog box. This has been resolved.

4. Service (DAP) raw prefetching calculates incorrect study rate

The raw data download pump didn't initialize the image object type, causing the download rate to appear stuck after downloading just the thumbnails and herpa data, even after the data was completely downloaded. This has been resolved.

5. Misleading info in the "Lock broken" messages

An uninitialized lock age parameter could result in misleading data in a broken log message. To accommodate very old locks, the lock age variable was increased from 32-bits to 64-bits.

6. Temp pump calls only one read task

For non-image data downloads, the temp pump was set to make a single request for data. If the data was greater than the requested size (32K), the remaining data was not downloaded. This has been resolved.

7. Wrong error handling

If the call to draw an image failed to acquire a lock, it returned an error code the viewer didn't recognize, resulting in inconsistent behavior. This has been resolved.

8. Service prefetching crash when OnPumpRead function is called twice

The service could crash if the prefetch list included orders because it would attempt to start the data pump twice. This has been resolved.

9. Memory leak when there was an invalid study loading

If study loading was interrupted when parsing the pbs file, the viewer might not free the study data container, leading to a memory resource leak. This has been resolved.

10. Blurry images in the CD viewer

If the scheduler is interrupted when the CD viewer is loading images, the study being processed might not complete because the scheduler thread didn't get restarted. As a result, some images would not be fully processed/decompressed. This has been resolved.

11. CW3 compression error

When an image consists of an off number of pixels, the compression calculation for segment headers could fail, resulting in a blank image. This has been resolved.

12. Unreleased cache references

When the user interrupts image downloading, e.g., by closing a study while it is loading, the viewer fails to release some cache object references, leading to a resource leak. This has been resolved.