

# RCI Full Release notes Version 118

To benefit from the updates marked with 'AA Update Required' you MUST update your acquisition agent. Keep in mind that your acquisition agent is still backwards compatible and you will still benefit from all other updates below.

### **New Features**

PreXion Software Bridge: Initial Phase

Integration to retrieve CBCT volumes from the Prexion software bridge through a file-based bridge setup has been initiated.

# **Improvements**

#### **Custom Procedure Enhancements**

We've made several improvements to Custom Procedures to give you more flexibility and control:

- You can now scope Custom Procedures by **Organisation**, **Location**, **or User**, ensuring better customisation.
- The **Custom Procedures tab** now includes filters for Organisation, Location, and User, with your selections saved for convenience.
- We've introduced **new permissions** to manage who can create, edit, or delete Custom Procedures at different levels.

#### Improved Image Scaling in Chrome

We've enhanced image downscaling quality in Chrome by implementing a **WebGL-based scaling solution**. This improves visual clarity and reduces aliasing artifacts by bypassing Chrome's default sampling method, ensuring sharper and smoother images.

#### **Enhanced Image Details**

The **Image Details** dialog now displays **Black and White level information**, helping you better evaluate image quality.

#### Improved Compare Mode with AI Findings Toggle

We've added a 'Show/Hide Al Findings' button in Compare Mode, making it easier to toggle Algenerated insights across all compared images. This gives you more control over how Al findings are displayed during image comparison.

#### Jazz Sensor Image Enhancement

We've updated the **Jazz sensor rendering** to include **black corners**, ensuring a more uniform and consistent image display by leveraging the latest Jazz SDK.

### iRay Sensor Image Quality Improvements - (Windows Only)

AA Update Required

We've updated the **default Gamma and Pre-Smoothing settings** in the Acquisition Agent (*Windows only*) to enhance image quality for the **iRay sensor**.

#### Add Pixel Size

Image metadata for **e2v direct acquisitions** now includes **pixel size (19 microns)**, providing more detailed and accurate imaging information.

#### Pearl Backfill Historical API Enhancements

We've improved the **Pearl Historical Submission API** with:

- Better error reporting for clearer issue identification
- Callback support for improved workflow integration
- Image query by Analysis ID for easier data retrieval

#### **Acquisition Improvements**

#### **AA Update Required**

We've enhanced the **Acquisition Agent (AA)** to improve reliability across multiple acquisition workflows:

- Single X-ray acquisition now benefits from increased robustness.
- Import, Phosphor, Camera, and 3D acquisition workflows have been optimised for better stability.
- **Template-based acquisition**, including **Camera Templates**, now includes improved recovery mechanisms.

#### Improved 3D Volume Sharing

You can now download 3D volumes directly via the browser without requiring the Acquisition Agent.

When the **Acquisition Agent is running**, the Share dialog will **send 3D volumes for rehydration** before downloading, ensuring optimal file handling.

#### 3DIEMME Integration Enhancement

We've added a **configurable default path** for **3DIEMME** (RealGuide) software in the Acquisition Agent .ini file, allowing for easier setup and customisation.

## **Tasks**

#### Expanded iRay Pluto Sensor Options (Windows Only)

#### **AA Update Required**

The **iRay Pluto sensor** dropdown now includes **Woodpecker and Eighteeth** options, ensuring compatibility and allowing users to select these sensors during acquisition.

#### Billing UI Adjustment for Canada

The 'Bill to Insurance' checkbox is now hidden for Canada (CA) to ensure consistency with other regions like Australia (AU) and Great Britain (GB).

#### Improved Pearl AI Error Messages

We've updated **Pearl Al error messages** to provide **clearer explanations** when authentication fails due to network restrictions, making troubleshooting easier.

#### Software Version Update to 118.0

All necessary components have been updated to **version 118.0**, ensuring compatibility with the latest software updates.

#### **NuGet Package Security Enhancements**

We've **updated NuGet packages** and resolved vulnerabilities in transitive dependencies, improving security and stability.

#### **Expanded postMessage Events for Custom Procedures**

We've enhanced **postMessage events** to better support external workflows:

- Events are now triggered when a **custom procedure** is **edited or deleted**, not just when created.
- This ensures **real-time updates** for integrated systems and workflows.

#### Performance & Stability Improvements

Fixed warnings in HealthCheck and PearlTaskService by ensuring async methods run correctly and preventing null value issues.

#### **Updated Copyrights to 2025**

All **software copyright statements** have been updated to reflect the current year.

#### New HTTP/TLS Debugging Settings

Added override options for HTTP1 and TLS 1.1, making it easier to debug connectivity issues.

#### Gallery Mode Filtering Investigation

We investigated an issue where Gallery Thumbnail mode displayed deleted images, while Gallery Exam mode did not. This analysis helped determine whether a filtering parameter is needed to exclude deleted images when not filtering by ID.