



# **Nexus Release Notes**

Version 3.07.01

Pukka-j Limited

# **Version 3.07.01**

**Release Date:** July 25, 2025

## **1 Introduction**

This release is a subversion release with fixes and improvements for the Nexus service.

## **2 New Features**

### **2.1 Dicom Cache Forward Nodes**

An extension to the DICOM File Writer and Reader nodes have been created to save the output to a database and have the sending on of the data driven by a monitor on that database.

## **3 Improvements**

### **3.1 RPA HTTP Timeout.**

When the RPA sends a request or reads a response from a HTTP service, by default the timeout has been set to 10 seconds whereas previously it would not timeout.

### **3.2 DICOM Tag Editor - Maths Editor.**

The maths editor on the DICOM tag editor has been updated to allow users to construct their own calculations for defining tag values based on the values of other tags and standard mathematical operations.

### **3.3 HL7 Output Feedback Messages.**

The HL7 output nodes have a new option to send a second HL7 message back to a sender based upon the (N)ACK from the destination. For example, if a HL7 message is sent to the configured output and an ACK is received, the output node can now be configure to send a new message to a second destination (the origin or another Nexus pipeline) to inform the source that the message was successfully delivered (or not).

### **3.4 Login Timeouts.**

When a user session expires, the page now shows the login page but the session is no longer lost and if the same user logs back in, the app will have any open pages still displayed and any work

still available.

## 4 Bug Fixes

### 4.1 Abort Handling

**Issue:** In the event that an error occurred on a CSTORE event, it was possible that two aborts may have been sent downstream.

**Resolution:** The logic has been updated so that only a single abort is sent.

### 4.2 Anonymisation Record Update

**Issue:** When manually updating a record in the Anonymisation Record Manager UI, the anon name and ID got reversed.

**Resolution:** The correct parameters are now set against the correct field.

### 4.3 Carriage Return Refresh

**Issue:** When editing a tag or AET in the tag editor, pressing the return key caused the webpage to refresh.

**Resolution:** The entry field was wrapped in a form object which defaults to a page refresh on carriage return or enter keys. The field is now wrapped in a div object instead.

### 4.4 Historic Prior Fix

**Issue:** When checking if a prior was “historic”, the system only checked if the prior was not a future date and didn't check study time for studies later the same day.

**Resolution:** The code now checks the time when deciding if a prior as historic.

### 4.5 Lite Viewer

**Issue:** When a reduced resolution X-ray image is used for display, it was possible that a length calculation could be wrong.

**Resolution:** Updated the pixel size in the head to account for the reduced resolution.

### 4.6 Lite Viewer

**Issue:** When selecting and deselecting Ultrasound series in the Lite Viewer, it was possible the display could lock up.

**Resolution:** Fixed how the ultrasound series are handled by the display.

## 4.7 Lite Viewer

**Issue:** When using the colour bar, it was possible the bar would be too wide.

**Resolution:** Fixed the colour bar handling by the display.

## 4.8 Lite Viewer

**Issue:** When the window was resized, the contents were not resized.

**Resolution:** Fixed the content resizing.

## 4.9 Nexus Error Handling

**Issue:** When an abort is received, it will propagate down the pipelines and every pipe. This would be indicated as an error on the output node which was misleading.

**Resolution:** Aborts arriving at the output node are no longer treated as an alertable status.

## 4.10 Nexus Network History

**Issue:** When the history dialogue was resized, it was possible the apply button would overflow the visible part of the dialogue.

**Resolution:** Fixed the layout handling for the buttons in the dialogue.

# 5 Known Issues

None

# 6 Installation Instructions

Before making any changes, the **docs** and **lib** folders in the install directory should be backed up along with the **nexus.jar** in the install root.

The libraries required for this release are:

<b>nexus.jar</b>	3.07.01
<b>json.jar</b>	202507
<b>pjk.jar</b>	1.21.01
<b>pacsology.jar</b>	1.26.01
<b>mint.jar</b>	1.29.01

Plugin library versions are:

**anon.jar** 1.13.00  
**broker.jar** 1.13.00  
**redact.jar** 1.12.00

For Origin users:

**websocket.jar** 1.14.00

An update MySQL library is potentially required depending upon the MySQL service.

The UI is updated via the files:

**cloe.js.gz**  
**pjwc.js.gz**  
**pj.css**  
**pjwc.css**