



Nexus Release Notes

Version 3.06.04

Pukka-j Limited

Version 3.06.04

Release Date: March 14, 2025

1 Introduction

This is a sub version patch for some bug fixes and small alterations.

2 New Features

None.

3 Improvements

3.1 Private Tags

Added some extra private tags into the Pukka-j private tag DICOM dictionary.

3.2 DICOM Associations

Added an option to the DICOM Listening node to accept any proposed SOP class.

3.3 Workflow Job Export

The export option on the workflow status page previously exported the full list. This has been updated to apply the current search filter to the export, which will download the filtered subset of the DICOM Import Jobs.

3.4 Workflow Job Management

Extra menu options have been added to the Workflow Controller to reset, delete and edit the jobs and also added reset and cancel options to the DicomImport status panel. Two reset options are now available, RESET to PENDING and RESET to PREPARED. If the PENDING option is selected, the Dicom Import Jobs will be recalculated and the full set will be pulled in again. Setting the option to PREPARED will have the effect of only retrying any Dicom Import Jobs that have already been selected but didn't complete.

3.5 DICOM CSTORE Handling

The CSTORE handler has been updated to provide better logging info in the event of a failure.

3.6 Workflow Management Node Header Update

Added an option to put the workflow job service line, priority and type (primary/prior) into private tags in the DICOM header as the images pass through the node. Private tags

(0041,1001) = Service Line

(0041,1002) = Type

(0041,1003) = Priority

3.7 DICOM Tag Editor - Math Rule

The algorithm for fixing the bed height in the tag editor has been updated to better handle the patient orientation.

3.8 Reconciler Node - Patient Level

The option to reconcile at patient level has been added to the Reconciliation Node. Previously, at least a study UID entry would be needed in order to reconcile a patient header, but the node will now fix patient demographics at the patient level if the patient ID exists.

3.9 Nexus Config Application

When the config is applied to the Nexus network, the page will now auto-lock to prevent users leaving an unlocked network open.

3.10 HL7 Timeout Setting

The HL7 listening node had a timeout setting on the backend, but the UI didn't allow users to set it. A new config option has been added to the node config to set the HL7 connection timeout.

3.11 Nexus PDF Manual Access

An option has been added to the settings/preferences panel in the Nexus Network to be able to view the Nexus manual (pdf) in a new browser tab by clicking on the link in the UI.

3.12 Age Node HL7 Handling

The Age Node (available as a decision option in a chip) has been expanded to filter out HL7 messages based on patient age by calculating the difference between the date of birth in the PID field and the study data in ORC.7

4 Bug Fixes

4.1 Duplicated Release Request

Issue: In the event that a CSTORE Error response was received by the DICOM Output Node, a second release request for the association could be trigger potentially causing a timeout on the connection.

Resolution: The response will no longer send the duplicated request.

4.2 Image Number Value Representation

Issue: The DICOM Image sorter treated the image number as an integer, but the tag is an integer string.

Resolution: The logic has been updated to parse the integer from the string.

4.3 File Dicomiser

Issue: There was an issue with the File Dicomiser node in that, if the series number was missing, it could cause a null pointer exception.

Resolution: The node now checks for the missing value before trying to trim it.

4.4 Frame Processing

Issue: If a connection error occurred in a transfer during sending a frame, there was an issue in the listening node whereby it would still send an OK back to the sender.

Resolution: In the event that a network connection drops out mid send, the sender will be notified that there was an issue to allow it to retry.

4.5 Anonymisation Rules - Sequence Tags

Issue: There was a UI issue with the anon option from the drop down not being applied in the UI.

Resolution: If no selection change occurs, the rule is created with the top entry in the selector.

4.6 Workflow Service Status Refresh

Issue: After editing a workflow status, the refresh didn't apply the current search filter and the view had to be manually queried again.

Resolution: The refresh now uses the current search criteria.

4.7 Double Configuration Submission

Issue: It was possible for the configuration to be sent to the server twice in quick succession, causing an issue with concurrent access to the configuration.

Resolution: The second send is now prevented.

4.8 DICOM Tag / Sequence Editor

Issue: If the option to edit sequences was ticked on the tag editor, the sequences would be updated but the top level tag was left as is.

Resolution: The tag editor rule has been updated to also edit the top level tag.

4.9 HL7 Shutdown

Issue: If a system had an open persistent HL7 connection to the Nexus network, when the configuration was applied, although the port was shutdown the socket to the open connection was closed which could leave HL7 arriving but no visibility of the messages arriving.

Resolution: A handler to the connection is now shutdown when config is applied.

4.10 Custom Email Alert

Issue: There was a difference in case on the server side vs client for the custom email body which could prevent the custom email body being applied.

Resolution: They both now use the same case for the property.

5 Known Issues

There are no known issues.

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:

nexus.jar	3.06.04
pjk.jar	1.20.04
pacsology.jar	1.25.04
mint.jar	1.28.04
json.jar	20250107

Plugin library versions are:

anon.jar	1.12.06
broker.jar	1.12.04
redact.jar	1.11.04

For Origin users:

websocket.jar	1.12.02
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An update MySQL library is potentially required depending upon the MySQL service.

The UI is updated via the files:

cloe.js.gz
pj.css