



# DICOM Server Setup

# DICOM Servers

There are 2 types of DICOM servers that can be configured

- DICOM Store
  - Used to store images and cine clips in DICOM format
  - Captured images and cine clips can be played back and/or retrieved from the DICOM server
- DICOM Modality Worklist
  - Used to retrieve patient demographic information from worklist server (automatically filling out the patient demographics to streamline the examination process)

# Methods of adding DICOM server

- Using Clarius Mobile Application
- From Clarius Cloud Using Institution Settings
  - Settings apply across the whole institution (pushed to all users)
  - Can only be deleted from the cloud (and not from the mobile application)

# Using Orthanc DICOM Server as an example

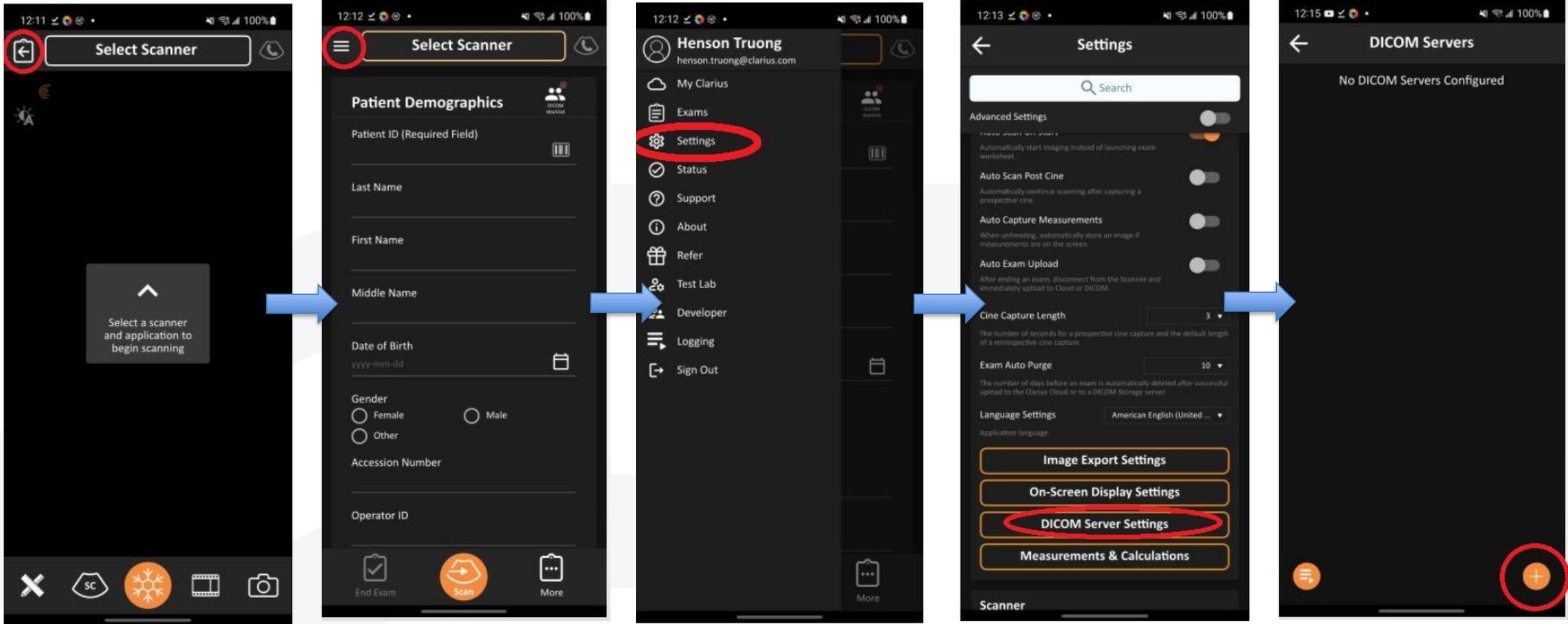
We will be using Orthanc DICOM Server to set up DICOM Store.

The server is set up with the following parameters:

Parameter	Value
Application Entity (AE) Title	Henson-ORTHANC
Server IP Address	172.16.50.83
Port Number	4242

# Adding DICOM server from Clarius App

Navigate to DICOM Settings (Menu → Settings → DICOM Server Settings)



# Adding DICOM server from Clarius App

Configure DICOM server settings

Field	Description
Institution	Select institute
Server Type	Storage
Server AE Title	AE Title for DICOM server
Client AE Title	Depends on configuration. Usually, can be left blank
Server Address	IP Address of the DICOM Server
Port	Server Port Number

Tap to save settings



12:23 100%  
← Edit DICOM Server

Institution Clarius VnV System Test  
The institution that should be associated with the DICOM server.

Server Type Storage  
Select Storage for sending images and exam data. Select Worklist for retrieving patient information.

Server AE Title Henson-ORTHANC  
Application Entity Title (AET) for the DICOM server.

Client AE Title C3HD1901A1234  
Optional Application Entity Title (AET) for the DICOM client. If left empty, the scanner's serial number without dashes is used (eg. C3HD1901A1234) for Storage and Worklist requests, and the title Clarius for C-ECHO requests.

Server Address 172.16.50.83  
The network name or IP address of the DICOM server.

Port 4242  
The port number (between 1 and 65535) of the DICOM server.

Image Width 800  
The image width in pixels.

Image Height 800  
The image height in pixels.

Recrop Images   
Recrop all images so that all ultrasound data is visible in captures.

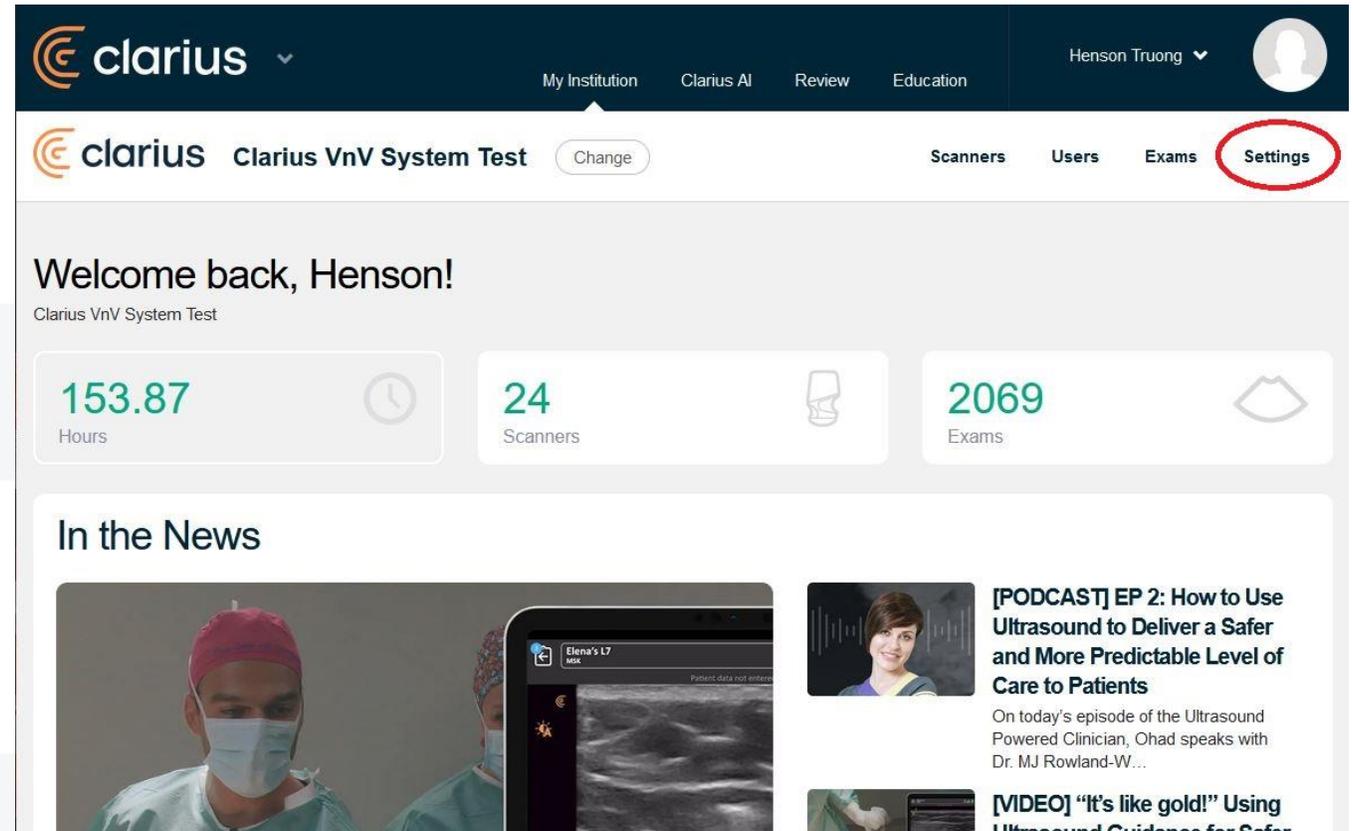
Structured Report   
Transfer a DICOM Structured Report (DSR) with the examination.

Save

# Adding a DICOM server from Clarius Cloud

Requires an Admin account for the institution

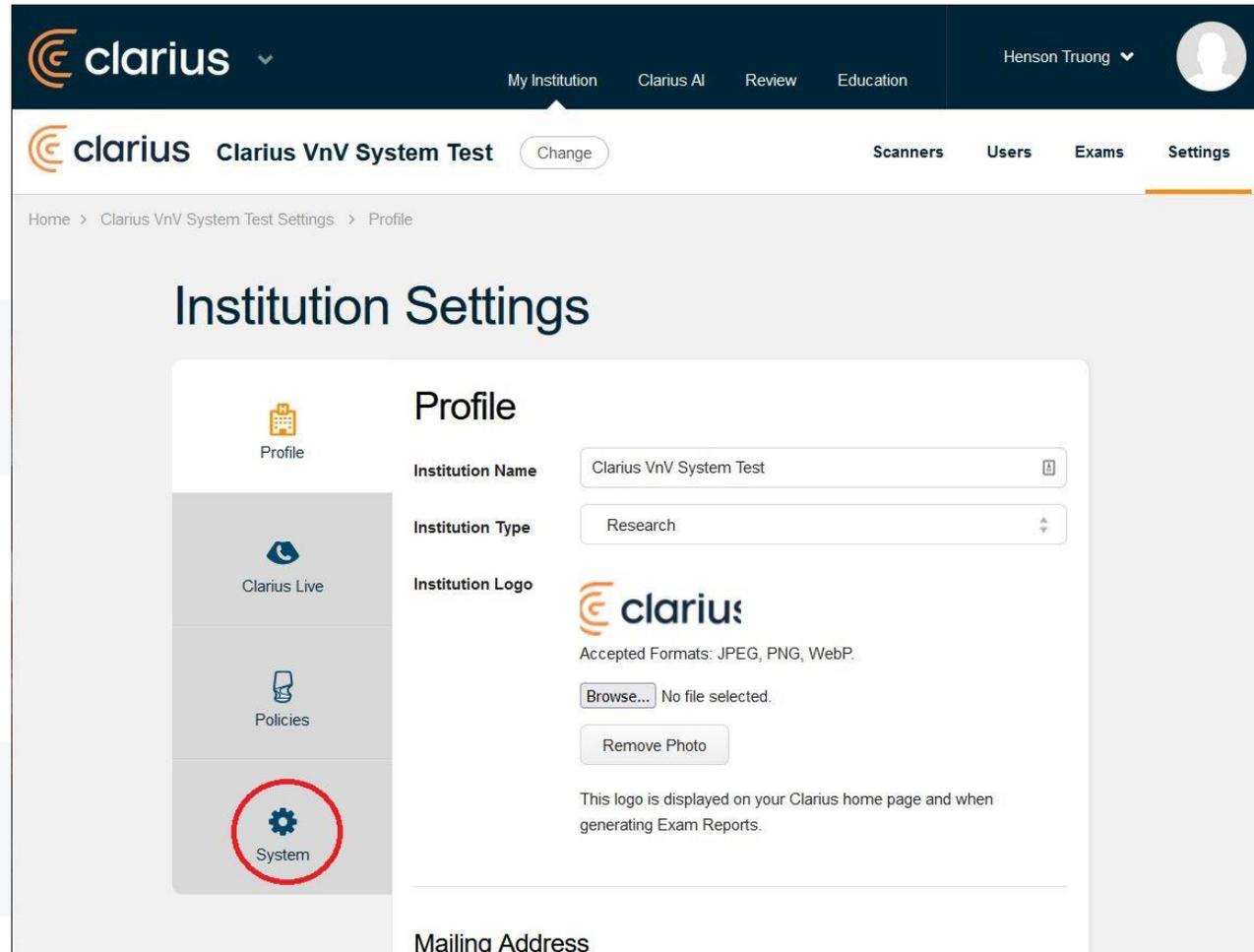
- From the Clarius Cloud home page, select Settings.



The screenshot displays the Clarius Cloud dashboard for a user named Henson Truong. The top navigation bar includes the Clarius logo, a dropdown menu, and links for 'My Institution', 'Clarius AI', 'Review', and 'Education'. The user's name and profile picture are visible in the top right. Below the navigation bar, the page title is 'Clarius VnV System Test' with a 'Change' button. The main content area features a welcome message 'Welcome back, Henson!' and three summary cards: '153.87 Hours', '24 Scanners', and '2069 Exams'. A 'Settings' link in the top right navigation bar is circled in red. Below the summary cards is an 'In the News' section with a video player and two news items: a podcast episode and a video about ultrasound guidance.

# Adding a DICOM server from Clarius Cloud

- Select System



The screenshot displays the Clarius Cloud web interface. At the top, the Clarius logo is on the left, and navigation links for 'My Institution', 'Clarius AI', 'Review', and 'Education' are on the right. A user profile for 'Henson Truong' is also visible. Below the navigation bar, the page title is 'clarius Clarius VnV System Test' with a 'Change' button. The main content area is titled 'Institution Settings' and contains a sidebar with four options: 'Profile', 'Clarius Live', 'Policies', and 'System'. The 'System' option is circled in red. The main content area shows the 'Profile' section with fields for 'Institution Name' (Clarius VnV System Test), 'Institution Type' (Research), and 'Institution Logo' (Clarius logo). Below the logo field, there are 'Browse...' and 'Remove Photo' buttons. A note states: 'This logo is displayed on your Clarius home page and when generating Exam Reports.' The 'Mailing Address' section is partially visible at the bottom.

# Adding a DICOM server from Clarius Cloud

- Select Add DICOM Server

The screenshot shows the Clarius VnV System Test Settings page. The top navigation bar includes the Clarius logo, user name 'Henson Truong', and navigation links for 'My Institution', 'Clarius AI', 'Review', and 'Education'. Below this, the page title is 'Clarius VnV System Test' with a 'Change' button. The main content area is titled 'Institution Settings' and contains a sidebar with options: Profile, Clarius Live, Policies, System, DICOM, and Exam Tags. The 'DICOM Servers' section is active, showing a '+ Add DICOM Server' button circled in red.

# Adding a DICOM server from Clarius Cloud

- Fill in the server details and save settings.

## Institution Settings

Profile

Clarius Live

Policies

System

**DICOM**

Exam Tags

Groups

Workflows

PDF Settings

### DICOM Servers

[+ Add DICOM Server](#)

#### Henson-ORTHANC

APPLICATION ENTITY TITLE (AET)

IP ADDRESS/SERVER NAME	PORT
172.16.50.83	4242

SERVER TYPE

DICOM Store

#### Image Settings

WIDTH (PX)

800

HEIGHT (PX)

800

#### Options

**Recrop Images**  Recrop all images so that all ultrasound data is visible in captures.

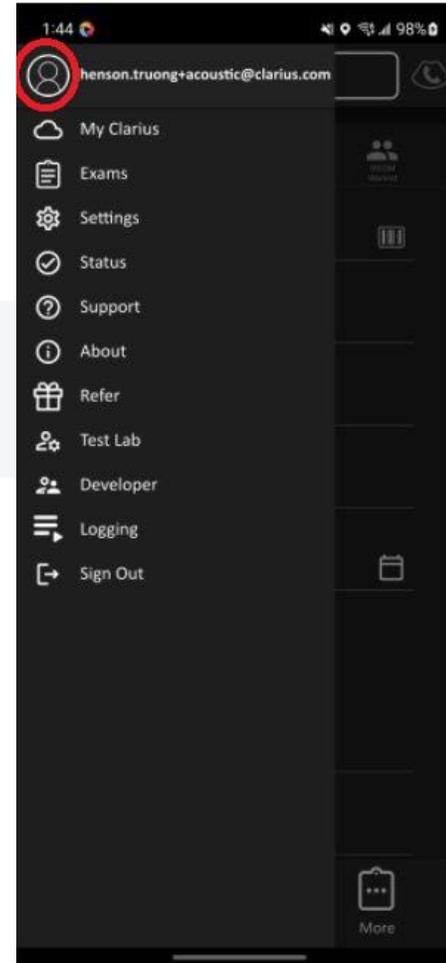
**Enable Structured Report**  Transfer a DICOM Structured Report (DSR) with the examination.

[Cancel](#) [Save](#)

# Adding a DICOM server from Clarius Cloud

From the device with the Clarius application, Synch the settings from the cloud

- Open the menu on the Clarius application.
- Tap on the profile picture to synch settings from the cloud.

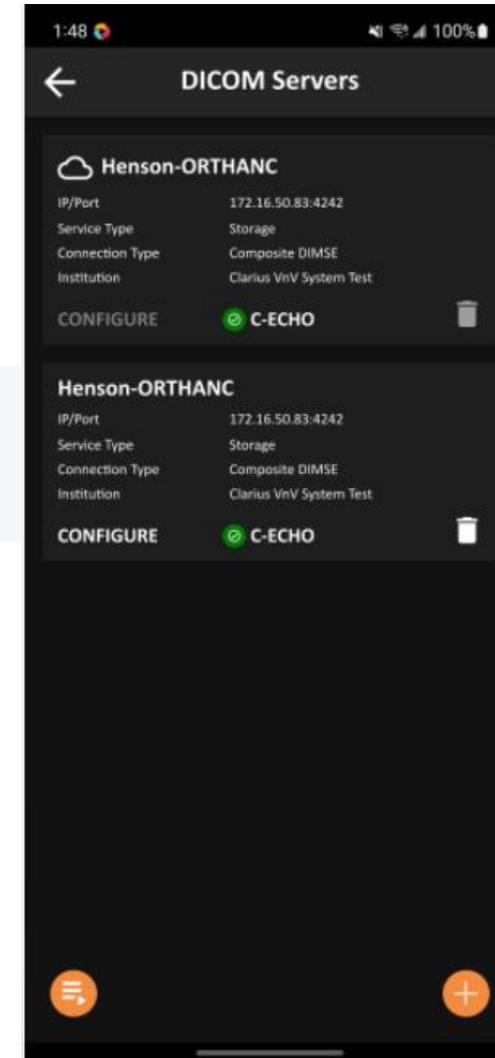


# Adding a DICOM server from Clarius Cloud

Check if the DICOM server is added.

Configured DICOM server should appear in:  
Settings → DICOM Server Settings

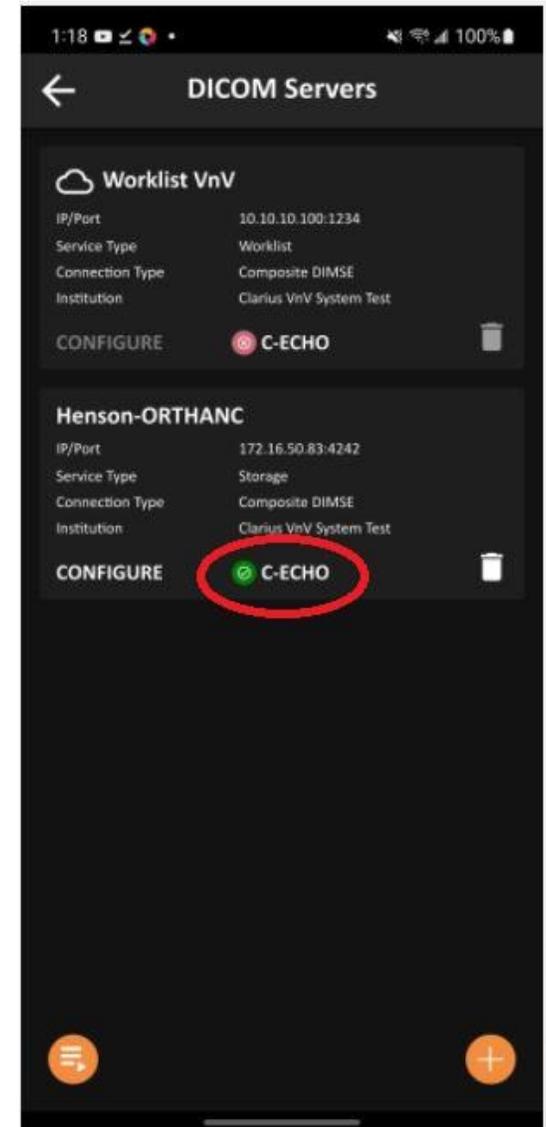
- The top server is configured from the cloud (has a cloud icon next to the name).
- The bottom server is added manually from Clarius application.



# Testing your connection

Tap on the C-ECHO button to test your connection.

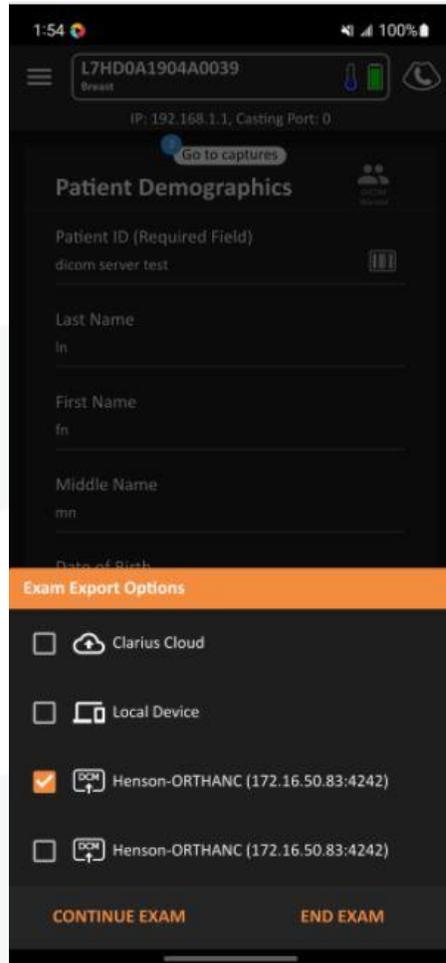
- If connection is successful, the green checkmark appears
- If connection is not successful, the red cross appears – will need to check your settings if this happens



# Exporting Exam to DICOM Server

There are 2 methods of exporting exams to the DICOM server.

During ending exam, select the DICOM server and select End Exam.



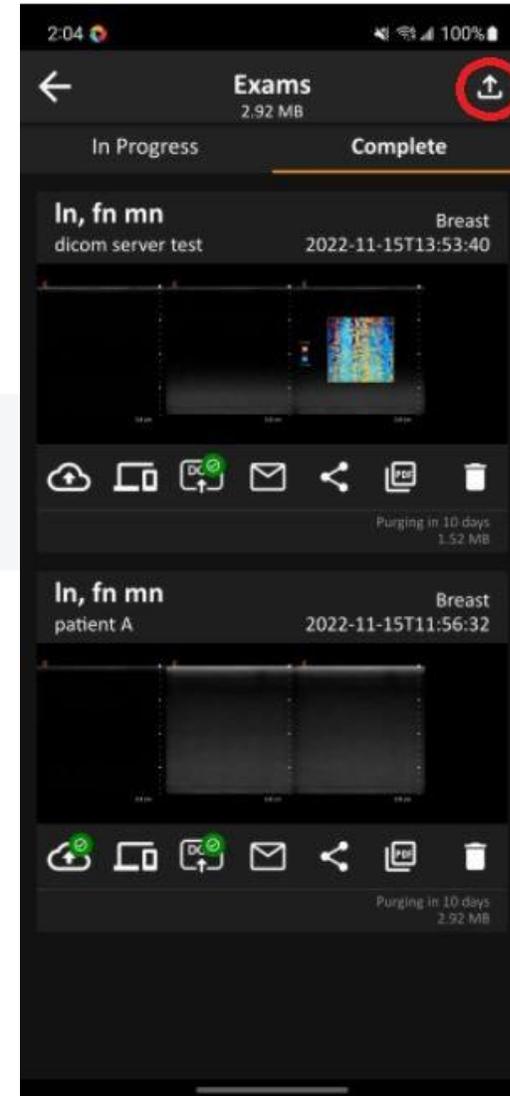
Export a completed exam from the Exams menu by tapping on the DICOM icon and selecting the corresponding DICOM server.



# Exporting Exam to DICOM Server

## Checking the status of exports

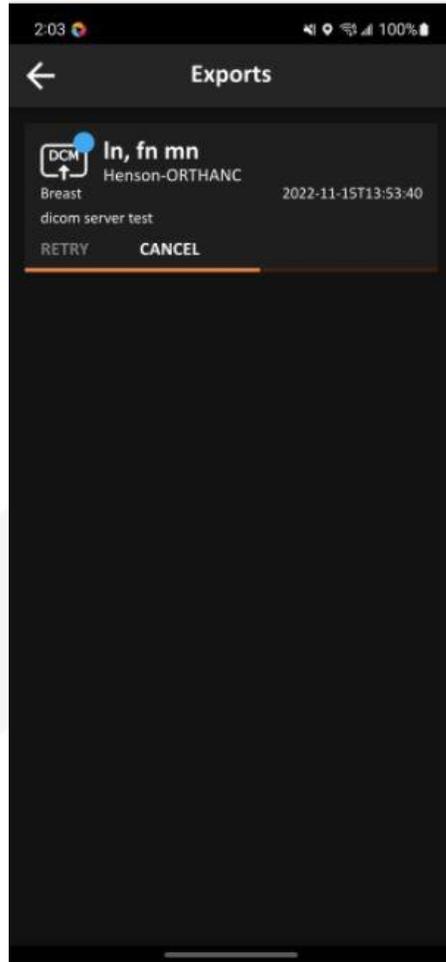
The status of an export can be checked by opening the Export Queue.



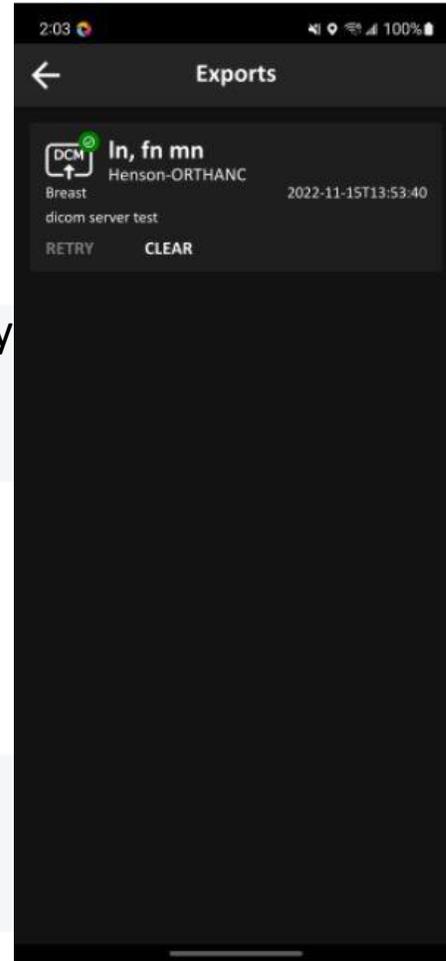
# Exporting Exam to DICOM Server

Checking the status of exports

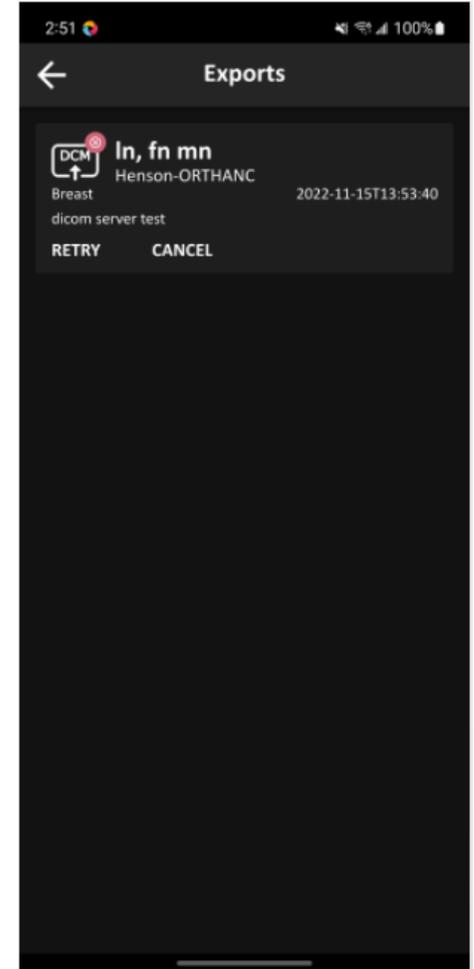
Exporting



Successfully  
exported



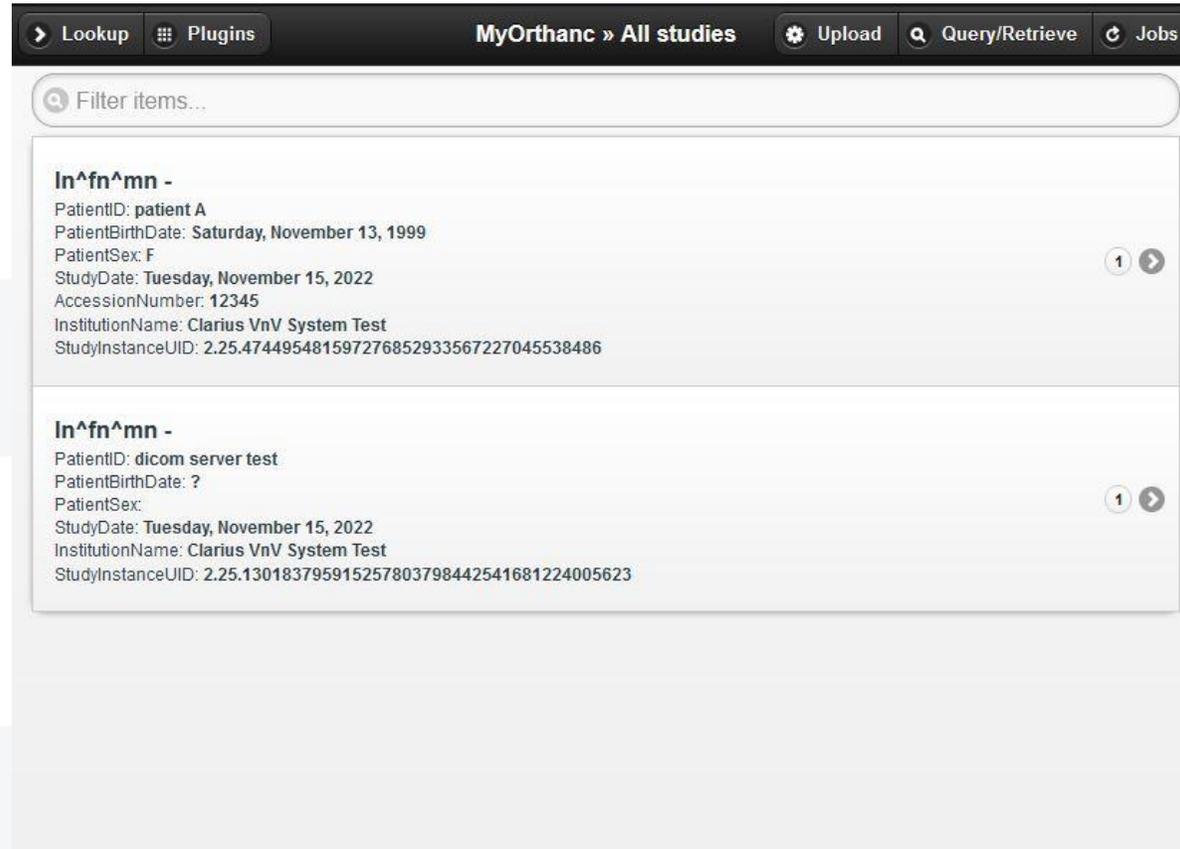
Failed  
Export



# Exporting Exam to DICOM Server

Checking DICOM server for the exported exam (images and cine clips)

Exported exams on Orthanc  
DICOM server



The screenshot shows the MyOrthanc web interface. The top navigation bar includes 'Lookup', 'Plugins', 'MyOrthanc » All studies', 'Upload', 'Query/Retrieve', and 'Jobs'. Below the navigation is a search bar labeled 'Filter items...'. The main content area displays two exam entries, each with a '1' icon and a right-pointing arrow.

Exam ID	Patient ID	Patient Birth Date	Patient Sex	Study Date	Accession Number	Institution Name	Study Instance UID
In^fn^mn -	patient A	Saturday, November 13, 1999	F	Tuesday, November 15, 2022	12345	Clarius VnV System Test	2.25.474495481597276852933567227045538486
In^fn^mn -	dicom server test	?		Tuesday, November 15, 2022		Clarius VnV System Test	2.25.130183795915257803798442541681224005623

# Exporting Exam to DICOM Server

Checking DICOM server for the exported exam (images and cine clips)

Images and cine clips are exported successfully!

