



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)

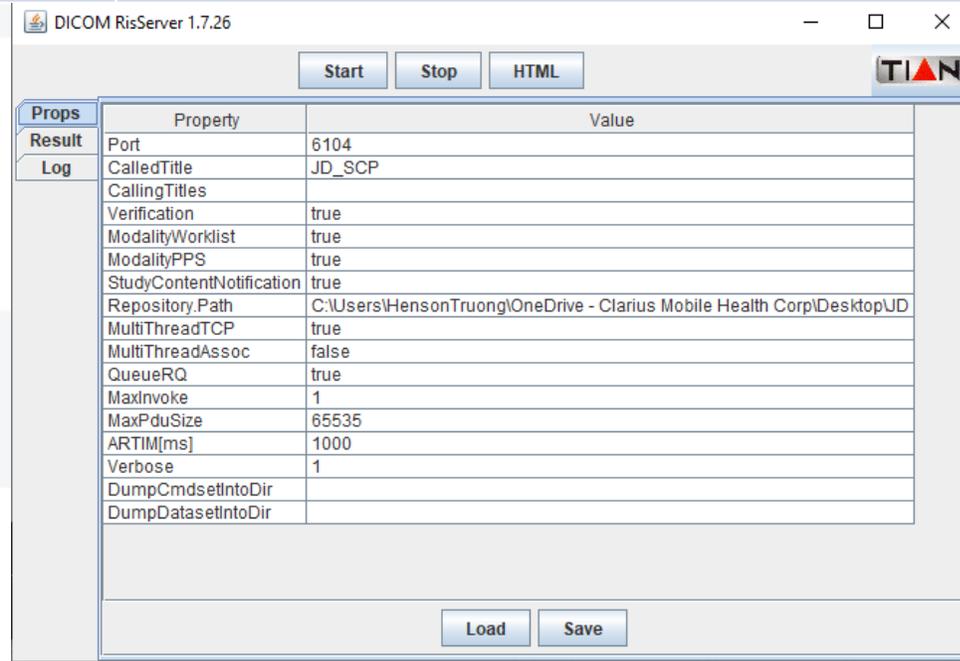
Methods of adding DICOM Worklist Server

- 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)

DICOM Worklist

We will be using JDICOM's worklist server for our example. Server configurations listed below

Parameter	Value
Application Entity (AE) Title	JD_SCP
Server IP Address	172.16.50.83
Port Number	6104



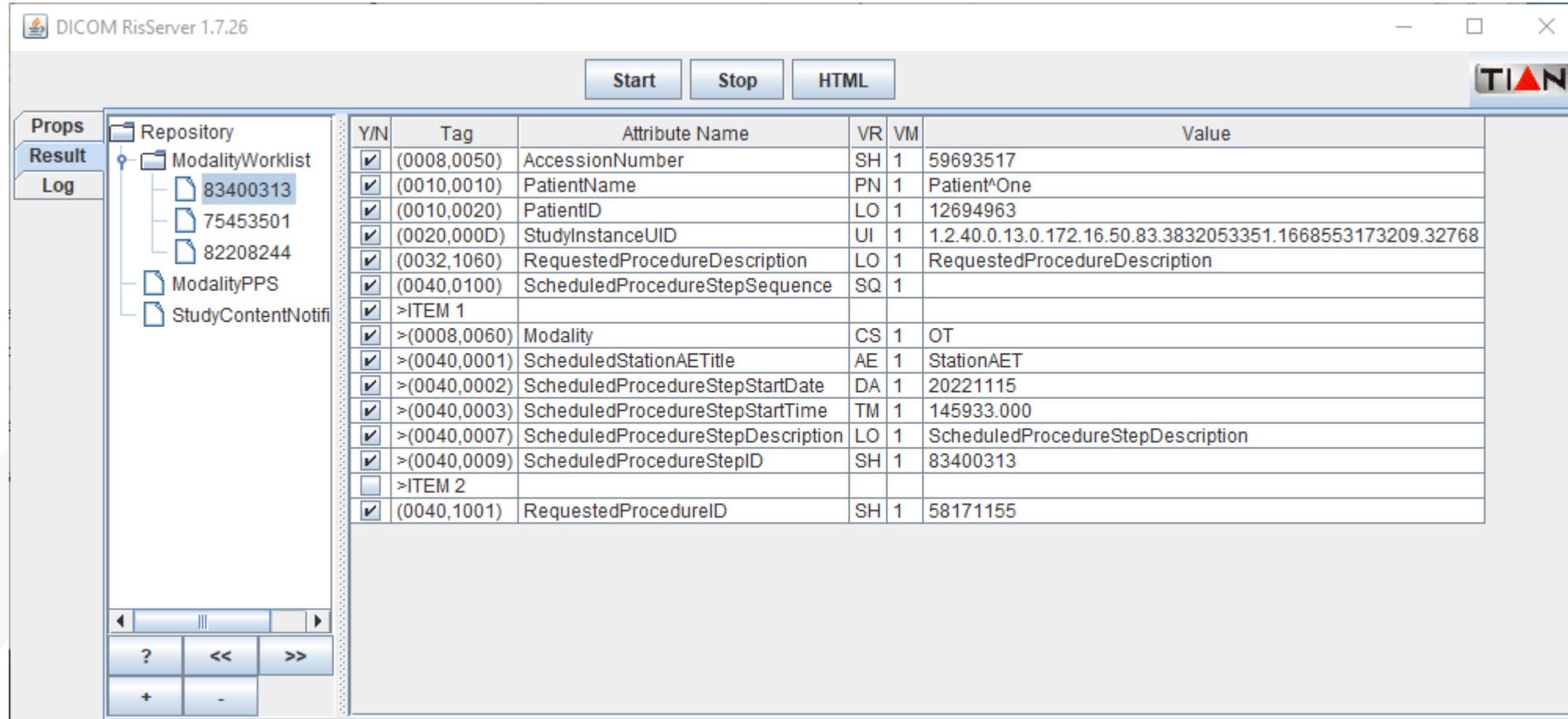
The screenshot shows the DICOM RisServer 1.7.26 configuration window. It features a table with columns for Property and Value. The table contains the following entries:

Property	Value
Port	6104
CalledTitle	JD_SCP
CallingTitles	
Verification	true
ModalityWorklist	true
ModalityPPS	true
StudyContentNotification	true
Repository.Path	C:\Users\HensonTruong\OneDrive - Clarius Mobile Health Corp\Desktop\JD
MultiThreadTCP	true
MultiThreadAssoc	false
QueueRQ	true
MaxInvoke	1
MaxPduSize	65535
ARTIM[ms]	1000
Verbose	1
DumpCmdsetIntoDir	
DumpDatasetIntoDir	

Buttons for Start, Stop, HTML, Load, and Save are visible in the interface.

DICOM Worklist

We have 3 patients in our worklist



The screenshot shows the DICOM RisServer 1.7.26 interface. On the left, a tree view shows the 'Repository' containing a 'ModalityWorklist' folder with three sub-items: '83400313', '75453501', and '82208244'. Below the tree are navigation buttons: '?', '<<', '>>', '+', and '-'. The main area displays a table of worklist items.

Y/N	Tag	Attribute Name	VR	VM	Value
<input checked="" type="checkbox"/>	(0008,0050)	AccessionNumber	SH	1	59693517
<input checked="" type="checkbox"/>	(0010,0010)	PatientName	PN	1	Patient*One
<input checked="" type="checkbox"/>	(0010,0020)	PatientID	LO	1	12694963
<input checked="" type="checkbox"/>	(0020,000D)	StudyInstanceUID	UI	1	1.2.40.0.13.0.172.16.50.83.3832053351.1668553173209.32768
<input checked="" type="checkbox"/>	(0032,1060)	RequestedProcedureDescription	LO	1	RequestedProcedureDescription
<input checked="" type="checkbox"/>	(0040,0100)	ScheduledProcedureStepSequence	SQ	1	
<input checked="" type="checkbox"/>	>ITEM 1				
<input checked="" type="checkbox"/>	>(0008,0060)	Modality	CS	1	OT
<input checked="" type="checkbox"/>	>(0040,0001)	ScheduledStationAETitle	AE	1	StationAET
<input checked="" type="checkbox"/>	>(0040,0002)	ScheduledProcedureStepStartDate	DA	1	20221115
<input checked="" type="checkbox"/>	>(0040,0003)	ScheduledProcedureStepStartTime	TM	1	145933.000
<input checked="" type="checkbox"/>	>(0040,0007)	ScheduledProcedureStepDescription	LO	1	ScheduledProcedureStepDescription
<input checked="" type="checkbox"/>	>(0040,0009)	ScheduledProcedureStepID	SH	1	83400313
<input type="checkbox"/>	>ITEM 2				
<input checked="" type="checkbox"/>	(0040,1001)	RequestedProcedureID	SH	1	58171155

Adding DICOM Worklist Server from Clarius App

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

Configure DICOM server settings and select save.

Field	Description
Institution	Select your institute
Server Type	Worklist
Server AE Title	AE Title of DICOM server
Client AE Title	Can be left blank
Server Address	IP Address of DICOM server
Port	Server Port Number

The screenshot shows the 'Add DICOM Server' configuration screen. It includes the following fields and values:

- Institution:** Clarius VnV System Test
- Server Type:** Worklist
- Server AE Title:** JD_SCP
- Client AE Title:** C3HD1901A1234
- Server Address:** 172.16.50.83
- Port:** 6104

A 'Save' button is located at the bottom of the screen.

Adding a DICOM Worklist from Clarius Cloud

From Clarius Cloud, navigate to:
Settings → System

- Select Add DICOM Server
- Configure server details
- Select save.

The screenshot displays the 'Institution Settings' page in Clarius Cloud. On the left is a navigation sidebar with options: Profile, Clarius Live, Policies, System (highlighted), DICOM, Exam Tags, Groups, Workflows, and PDF Settings. The main content area is titled 'DICOM Servers' and features a '+ Add DICOM Server' button. Two server configurations are visible:

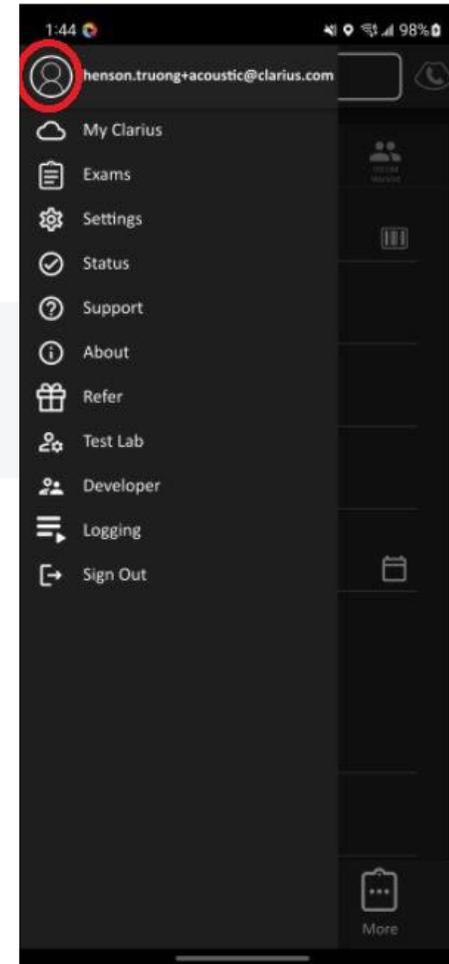
- Henson-ORTHANC**: APPLICATION ENTITY TITLE (AET), IP ADDRESS/SERVER NAME: 172.16.50.83, PORT: 4242, SERVER TYPE: DICOM Store.
- JD_SCP**: APPLICATION ENTITY TITLE (AET), IP ADDRESS/SERVER NAME: 172.16.50.83, PORT: 6104, SERVER TYPE: DICOM Modality Worklist.

The 'JD_SCP' configuration is currently being edited, showing 'Cancel' and 'Save' buttons. Below the server details are 'Image Settings' (WIDTH (PX): 800, HEIGHT (PX): 800) and 'Options' (Recrop Images, Enable Structured Report) with checkboxes and 'Delete'/'Edit' buttons.

Adding a DICOM Worklist from Clarius Cloud

From Clarius application, synch settings from the cloud

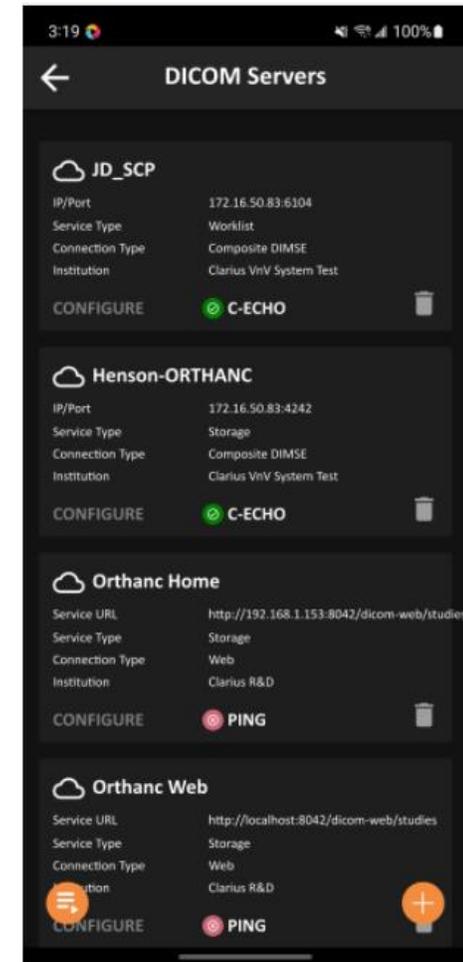
- Open the menu on the Clarius application.
- Tap on the profile picture to synch settings from the cloud.



Testing your connection

Select the C-ECHO button to test your connection.

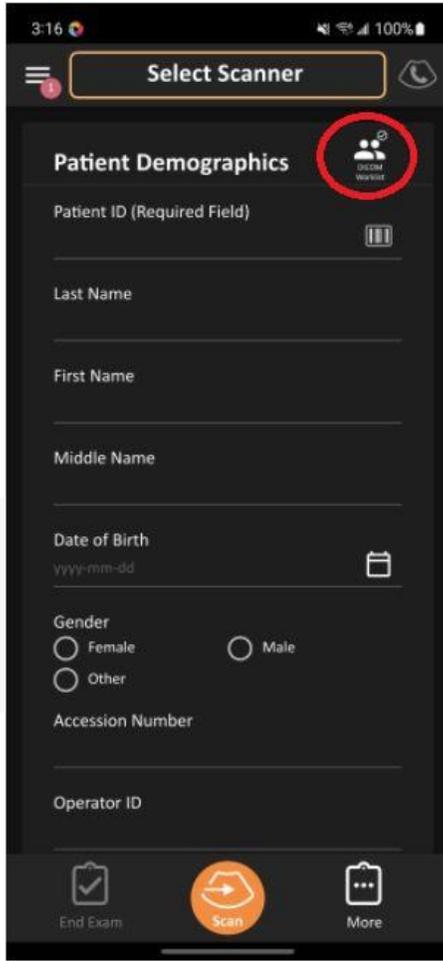
- If connection is successful, the green checkmark appears
- If connection is not successful, the red cross appears – will need to check your settings if this happens



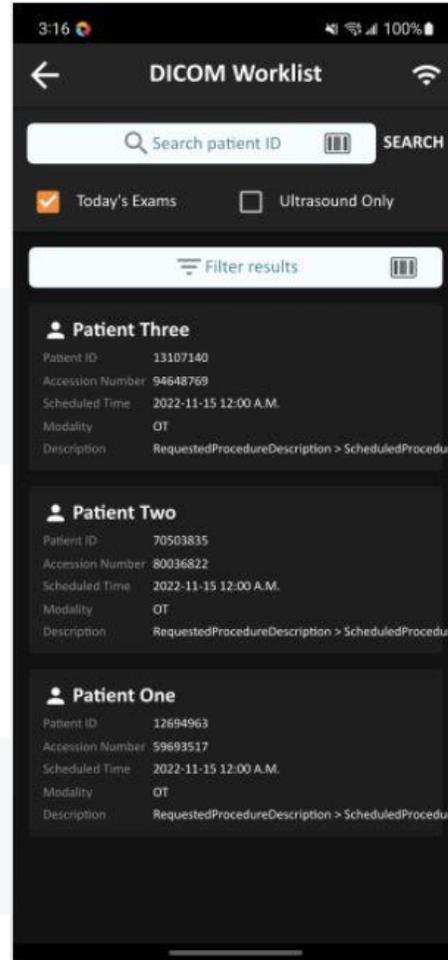
Accessing the DICOM Worklist from the device

The DICOM Worklist can be accessed in the Patient Demographics page.

Tap on
DICOM
Worklist



Tap on a
patient



Patient Info
gets filled out
automatically

