

Integration with RadiAnt DICOM Viewer

RadiAnt DICOM Viewer offers a user-friendly interface and advanced tools for 3D functions. You can open the selected studies/series/instance stored in SonicDICOM PACS on RadiAnt DICOM Viewer. This makes it easier to use RadiAnt DICOM Viewer's 3D functionality.

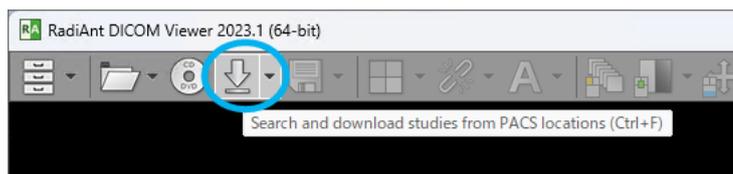
1. Install RadiAnt DICOM Viewer

Install RadiAnt DICOM Viewer from here:

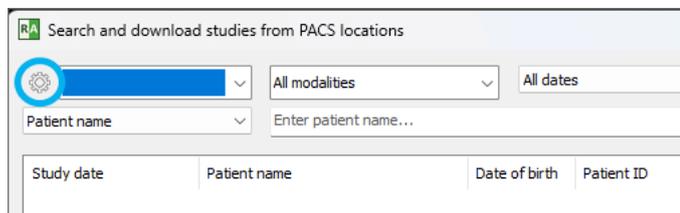
<https://www.radiantviewer.com/dicom-viewer-manual/installation.html>

2. Setup DICOM Connection on RadiAnt DICOM Viewer

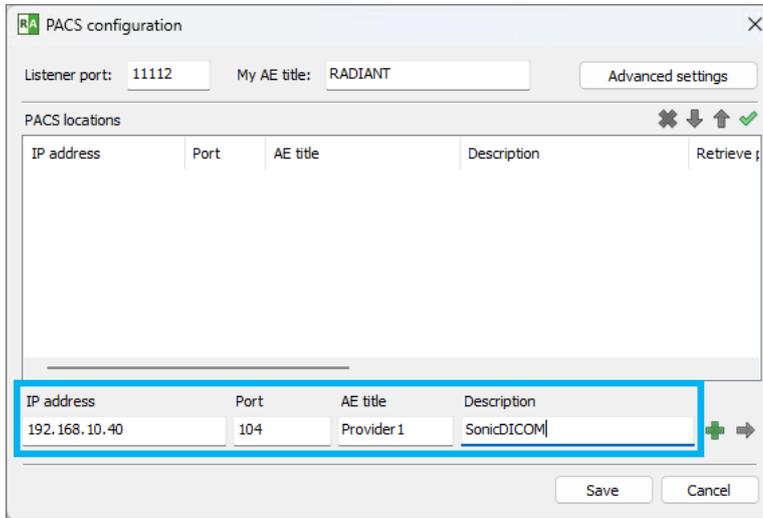
1. Open RadiAnt DICOM Viewer and click "Search and download studies from PACS locations".



2. Click a cog icon.



3. Enter SonicDICOM PACS's IP address, port number, AE title, and Description.



The screenshot shows the 'PACS configuration' window. At the top, there are input fields for 'Listener port: 11112' and 'My AE title: RADIANT', along with an 'Advanced settings' button. Below this is a section for 'PACS locations' with a table. The table has columns for 'IP address', 'Port', 'AE title', 'Description', and 'Retrieve p'. A single row is highlighted with a blue border, containing the values: '192.168.10.40', '104', 'Provider1', and 'SonicDICOM'. To the right of this row is a green plus sign and a right-pointing arrow. At the bottom of the window are 'Save' and 'Cancel' buttons.

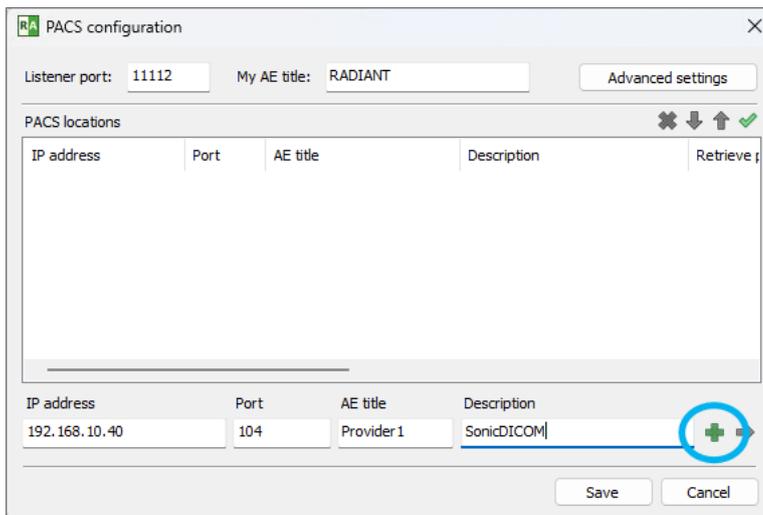
IP address	Port	AE title	Description	Retrieve p
192.168.10.40	104	Provider1	SonicDICOM	

You can check SonicDICOM PACS information on: **Admin Settings > Server > Connection**

TIPS: The default values of SonicDICOM PACS:

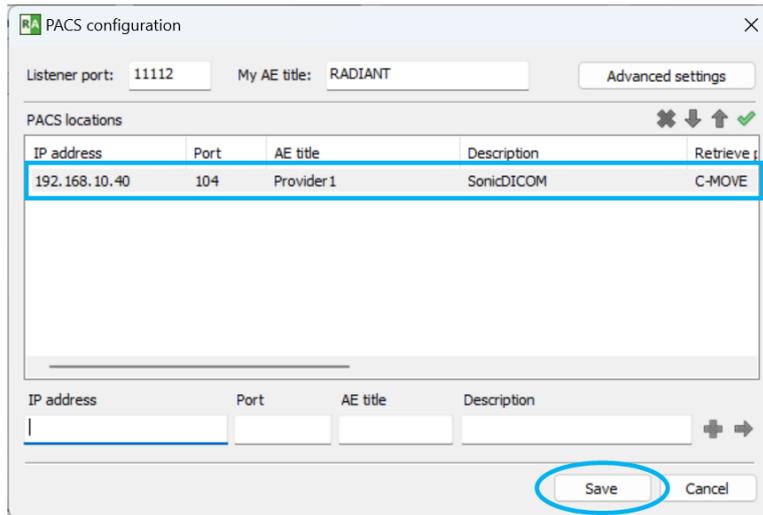
- IP Address: Check individually (it is different depending on each environment)
- Port Number: 104
- AE Title: Provider1

4. Click "+".



This screenshot is identical to the previous one, but the green plus sign and right-pointing arrow at the bottom right of the table row are circled in blue, indicating the next step in the process.

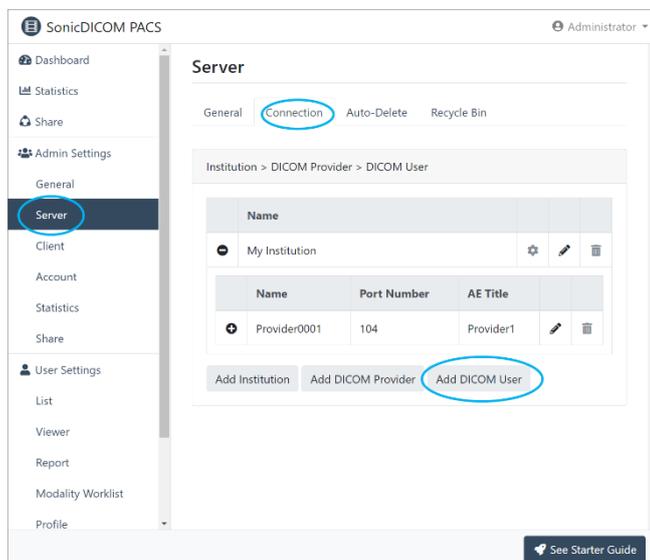
5. Click "Save".



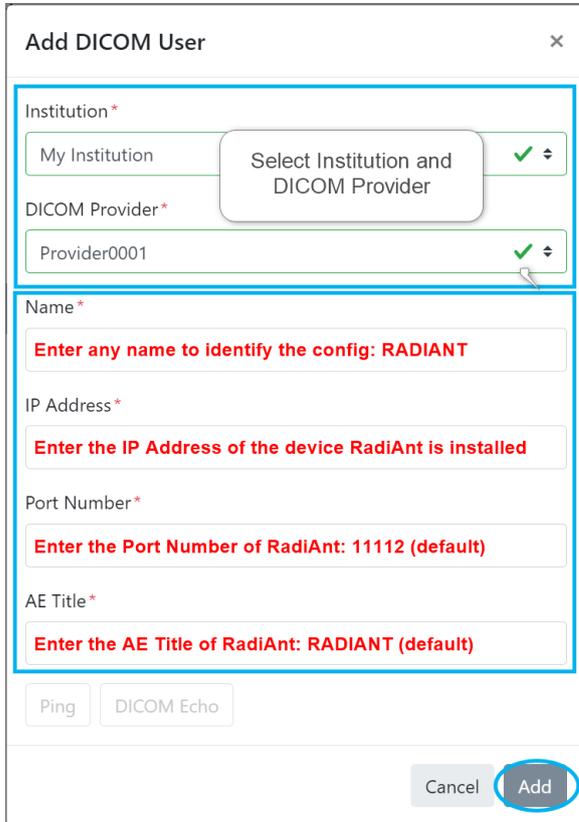
Note: In this RadiAnt DICOM Viewer's configuration, if there are any information that cannot be communicated, it will take a long time to open RadiAnt DICOM Viewer. It is recommended to enter only information of SonicDICOM PACS.

3. Setup DICOM Connection on SonicDICOM PACS

1. Open SonicDICOM PACS and access: Admin Settings > Server > Connection > Click Add DICOM User



2. Enter RadiAnt DICOM Viewer's information and click "Add".



Add DICOM User [Close]

Institution*
My Institution [Select Institution and DICOM Provider] ✓

DICOM Provider*
Provider0001 ✓

Name*
Enter any name to identify the config: RADIANT

IP Address*
Enter the IP Address of the device RadiAnt is installed

Port Number*
Enter the Port Number of RadiAnt: 11112 (default)

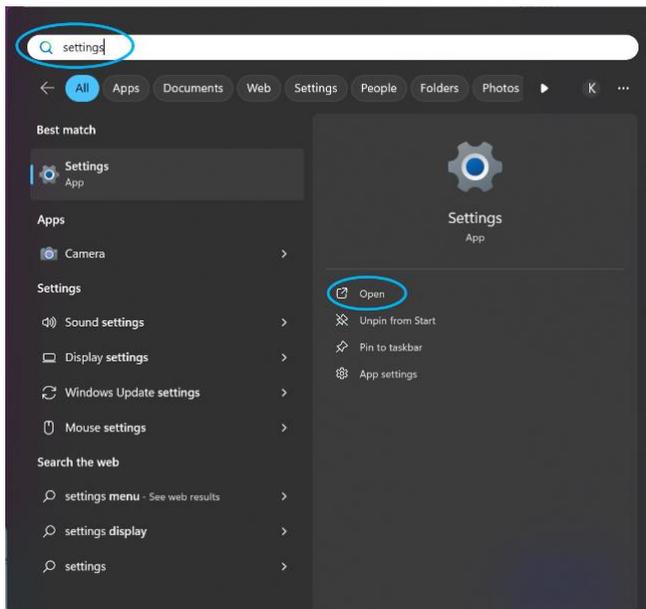
AE Title*
Enter the AE Title of RadiAnt: RADIANT (default)

Ping [DICOM Echo]

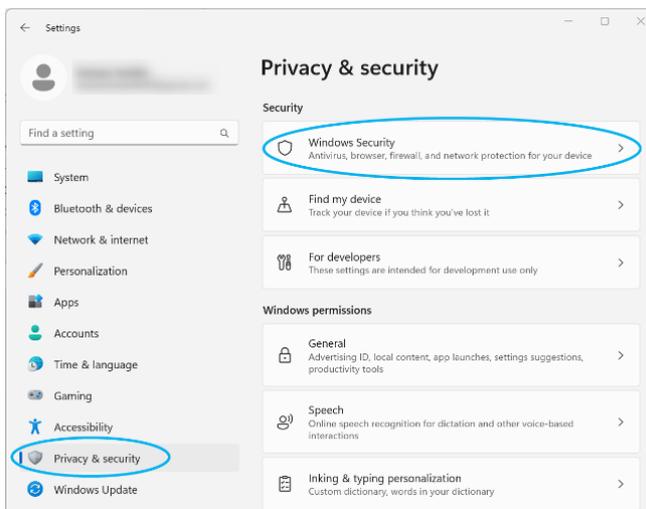
Cancel [Add]

4. Turn off the firewall for the port used by SonicDICOM PACS

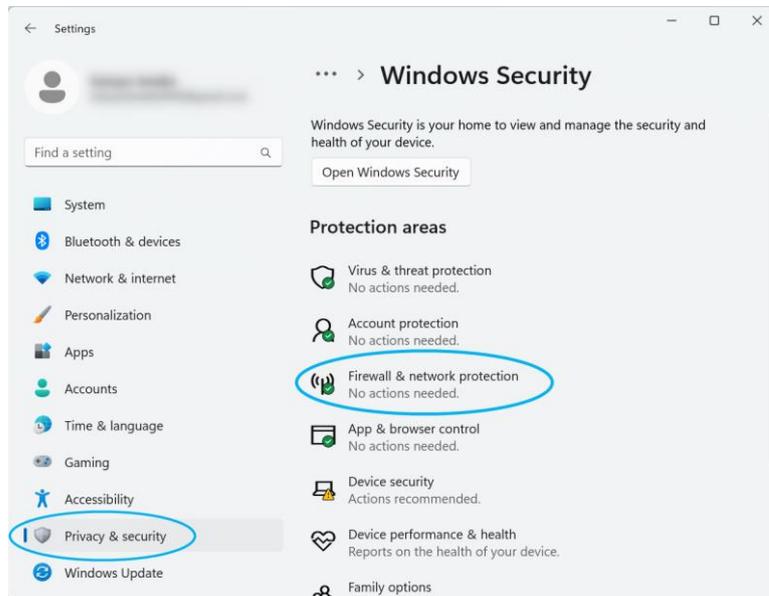
1. Open Windows start menu and enter "settings" in the search bar.



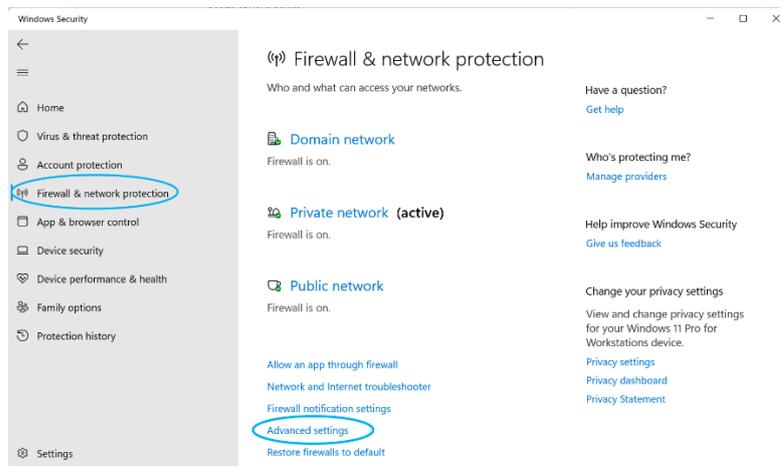
2. Click "Privacy & security" then click "Windows Security".



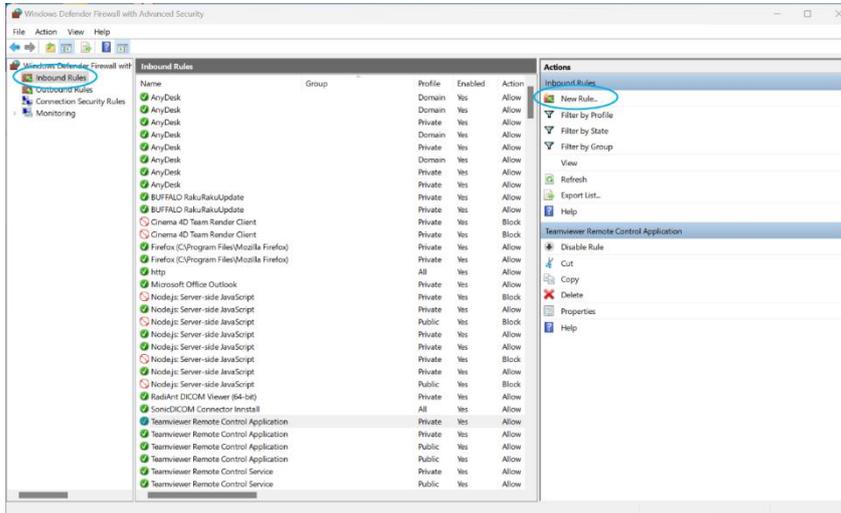
3. Click "Firewall & network protection".



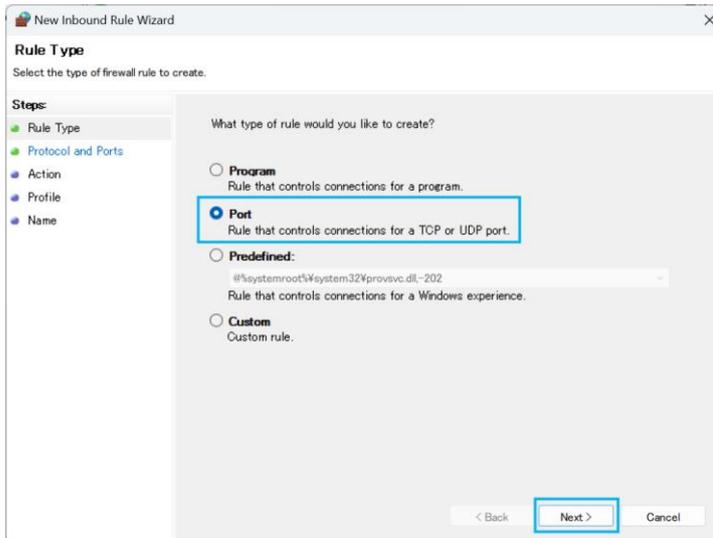
4. Click "Advanced settings".



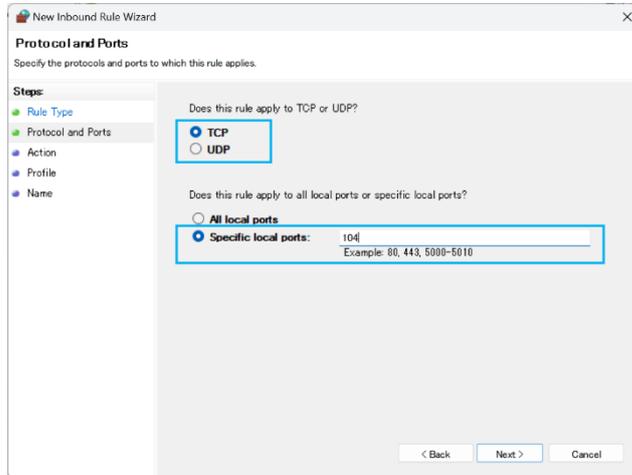
5. In “Windows Defender Firewall with Advanced Security”, click “Inbound Rules” and click “New Rules”.



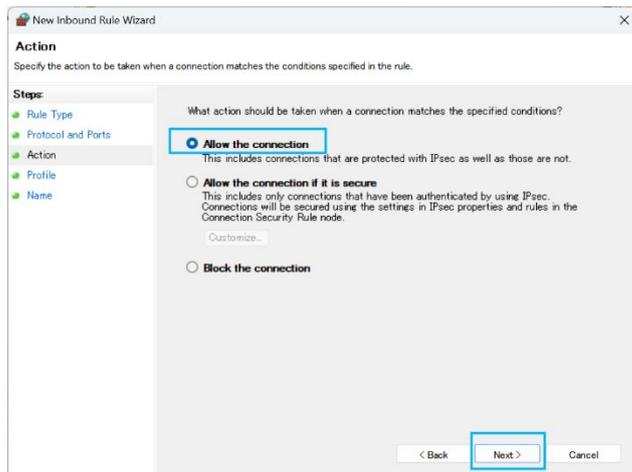
6. In “New Inbound Rule Wizard”, Click “Port” and click “Next”.



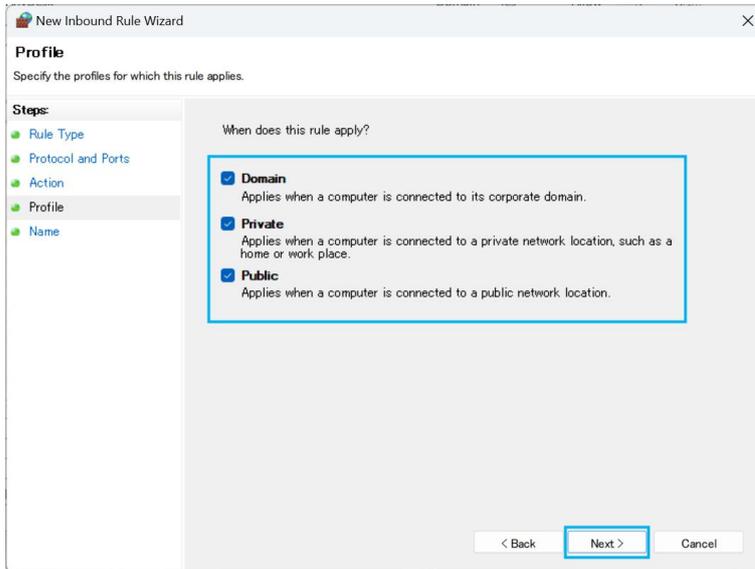
7. Select “TCP” and “Specific local ports”. Enter the port number used for DICOM communication in SonicDICOM PACS and click “Next”.



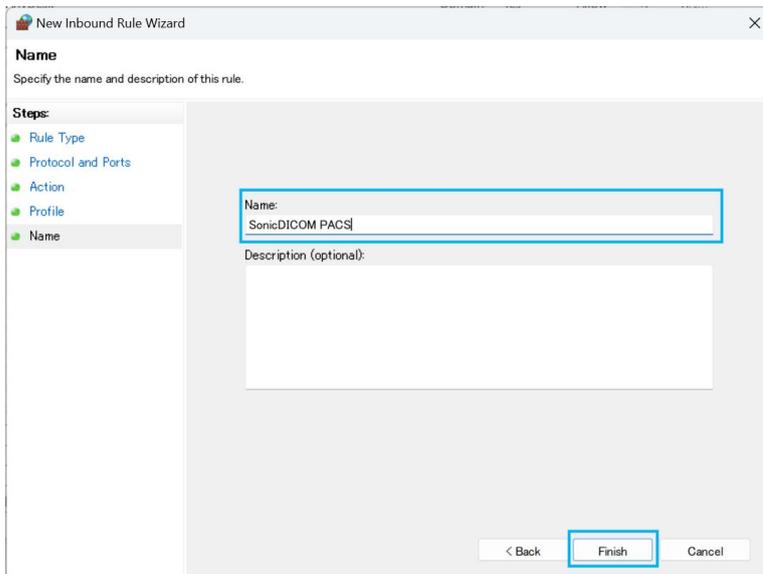
8. Select “Allow the connection” and click “Next”.



9. Check "Domain" "Private" "Public" and click "Next".

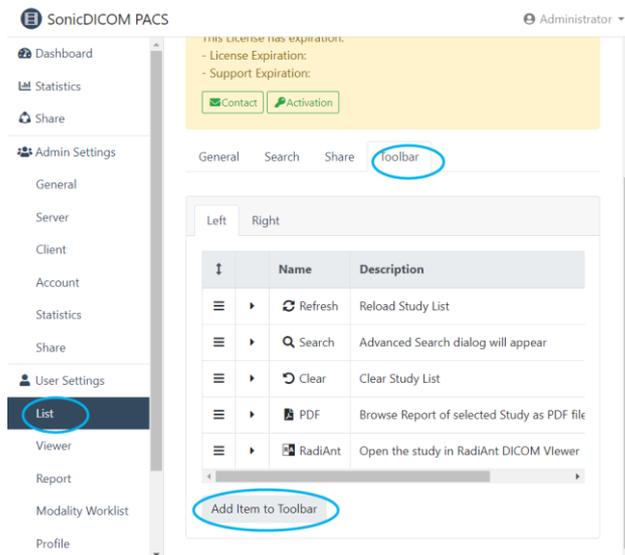


10. Enter the name of the rule as "SonicDICOM PACS" and click "Finish".

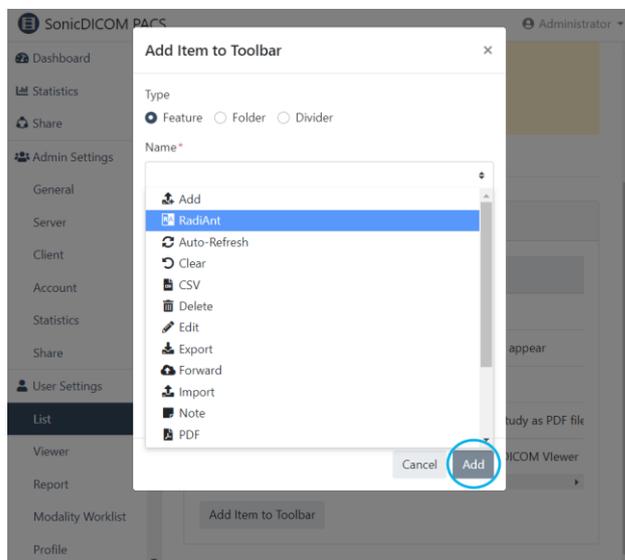


5. Add RadiAnt button on the toolbar

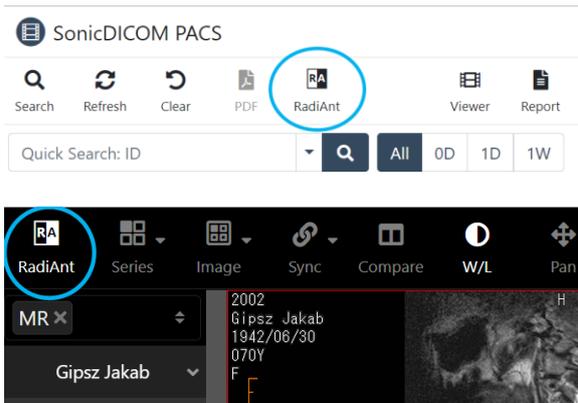
1. Access: **User Settings > List/Viewer > Toolbar > Add item to Toolbar.**



2. In dialog "Add Item to Toolbar", select "RadiAnt" from the select menu "Name", enter required information and click "Add" button.



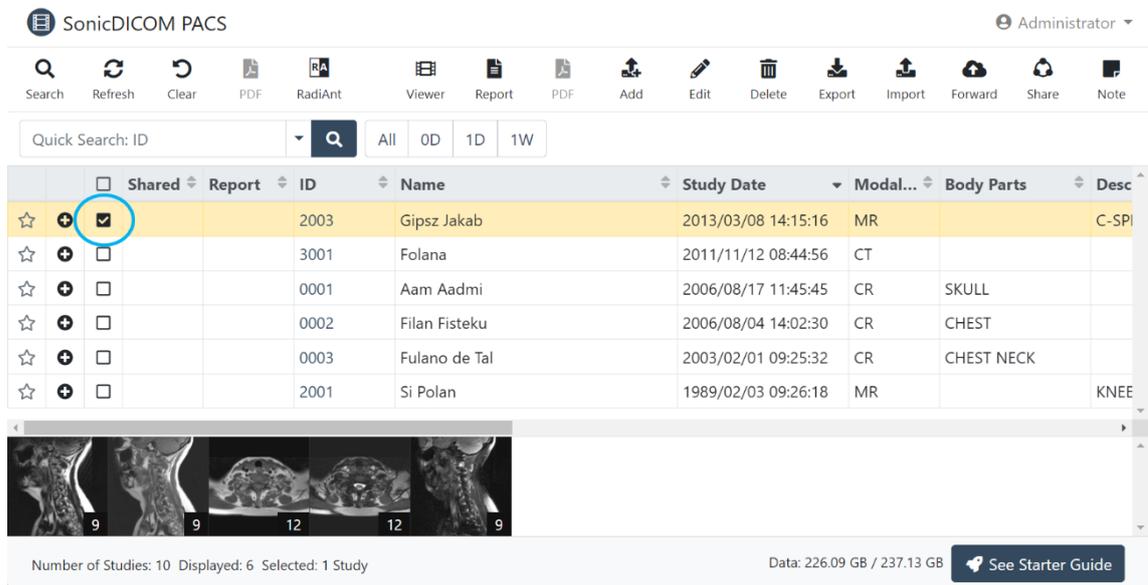
3. In List/Viewer page, the  RadiAnt button is displayed in the toolbar.



6. Open selected study/series/instance on RadiAnt DICOM Viewer

6.1 Open from List page

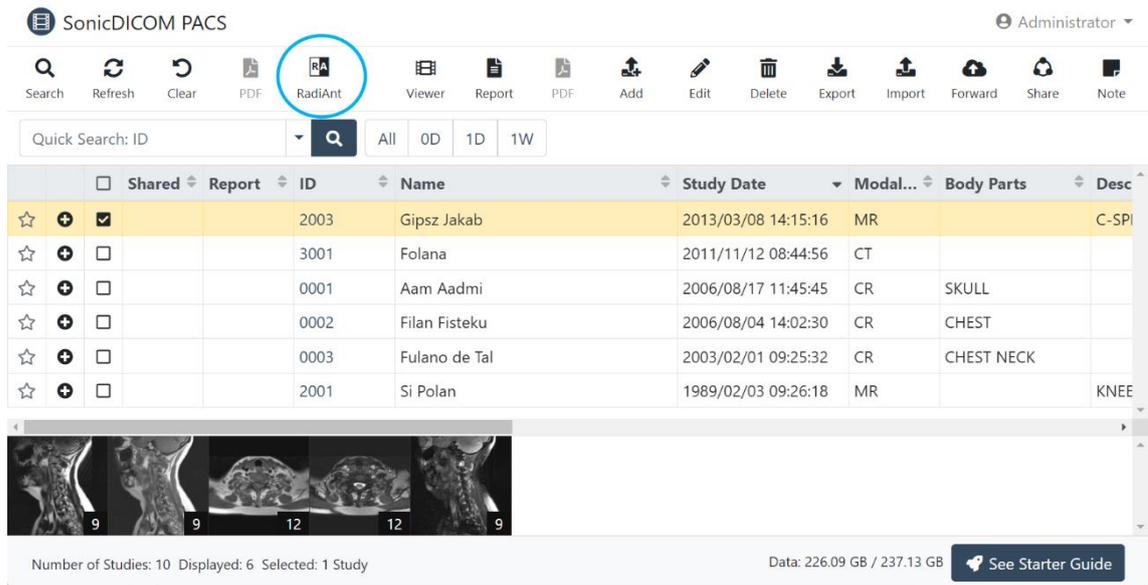
1. In List page, select one study or multiple studies.



The screenshot shows the 'List' page in SonicDICOM PACS. The top toolbar includes buttons for Search, Refresh, Clear, PDF, RadiAnt, Viewer, Report, PDF, Add, Edit, Delete, Export, Import, Forward, Share, and Note. The 'RadiAnt' button is circled in blue. Below the toolbar is a search bar and filters. A table lists studies with columns for Shared, Report, ID, Name, Study Date, Modal..., Body Parts, and Desc. The first row is highlighted in yellow, and its 'Report' checkbox is checked and circled in blue. Below the table is a thumbnail strip of medical images. At the bottom, it shows 'Number of Studies: 10 Displayed: 6 Selected: 1 Study' and 'Data: 226.09 GB / 237.13 GB' with a 'See Starter Guide' button.

Shared	Report	ID	Name	Study Date	Modal...	Body Parts	Desc
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2003	Gipsz Jakab	2013/03/08 14:15:16	MR		C-SPI
<input type="checkbox"/>	<input type="checkbox"/>	3001	Folana	2011/11/12 08:44:56	CT		
<input type="checkbox"/>	<input type="checkbox"/>	0001	Aam Aadmi	2006/08/17 11:45:45	CR	SKULL	
<input type="checkbox"/>	<input type="checkbox"/>	0002	Filan Fisteku	2006/08/04 14:02:30	CR	CHEST	
<input type="checkbox"/>	<input type="checkbox"/>	0003	Fulano de Tal	2003/02/01 09:25:32	CR	CHEST NECK	
<input type="checkbox"/>	<input type="checkbox"/>	2001	Si Polan	1989/02/03 09:26:18	MR		KNEE

2. Click  RadiAnt button on the toolbar.



SonicDICOM PACS Administrator

Search Refresh Clear PDF RadiAnt Viewer Report PDF Add Edit Delete Export Import Forward Share Note

Quick Search: ID All 0D 1D 1W

	Shared	Report	ID	Name	Study Date	Modal...	Body Parts	Desc
☆ +	<input checked="" type="checkbox"/>		2003	Gipsz Jakab	2013/03/08 14:15:16	MR		C-SPI
☆ +	<input type="checkbox"/>		3001	Folana	2011/11/12 08:44:56	CT		
☆ +	<input type="checkbox"/>		0001	Aam Aadmi	2006/08/17 11:45:45	CR	SKULL	
☆ +	<input type="checkbox"/>		0002	Filan Fisteku	2006/08/04 14:02:30	CR	CHEST	
☆ +	<input type="checkbox"/>		0003	Fulano de Tal	2003/02/01 09:25:32	CR	CHEST NECK	
☆ +	<input type="checkbox"/>		2001	Si Polan	1989/02/03 09:26:18	MR		KNEE

Number of Studies: 10 Displayed: 6 Selected: 1 Study Data: 226.09 GB / 237.13 GB See Starter Guide

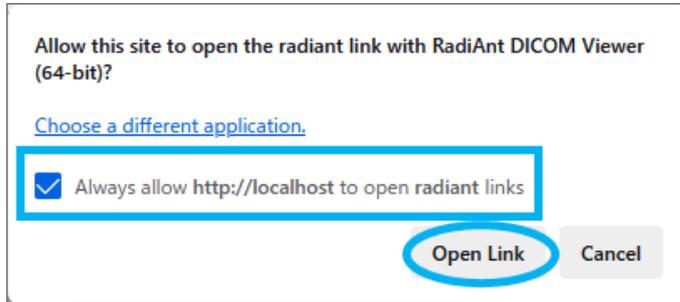
3. A pop-up message will appear.

On Google Chrome: Check "Always allow http://localhost/ to open links of this type in the associated app". And click "Open RadiAnt DICOM Viewer (64 bit)". A pop-up message will not appear next time.



If a pop-up message doesn't appear, set the HTTPS by following the step: [Enable HTTPS for On-premises PACS](#)

On Mozilla Firefox: Check "Always allow http://localhost/viewer/#/list to open RadiAnt links". And click "Open Link". A pop-up message will not appear next time.

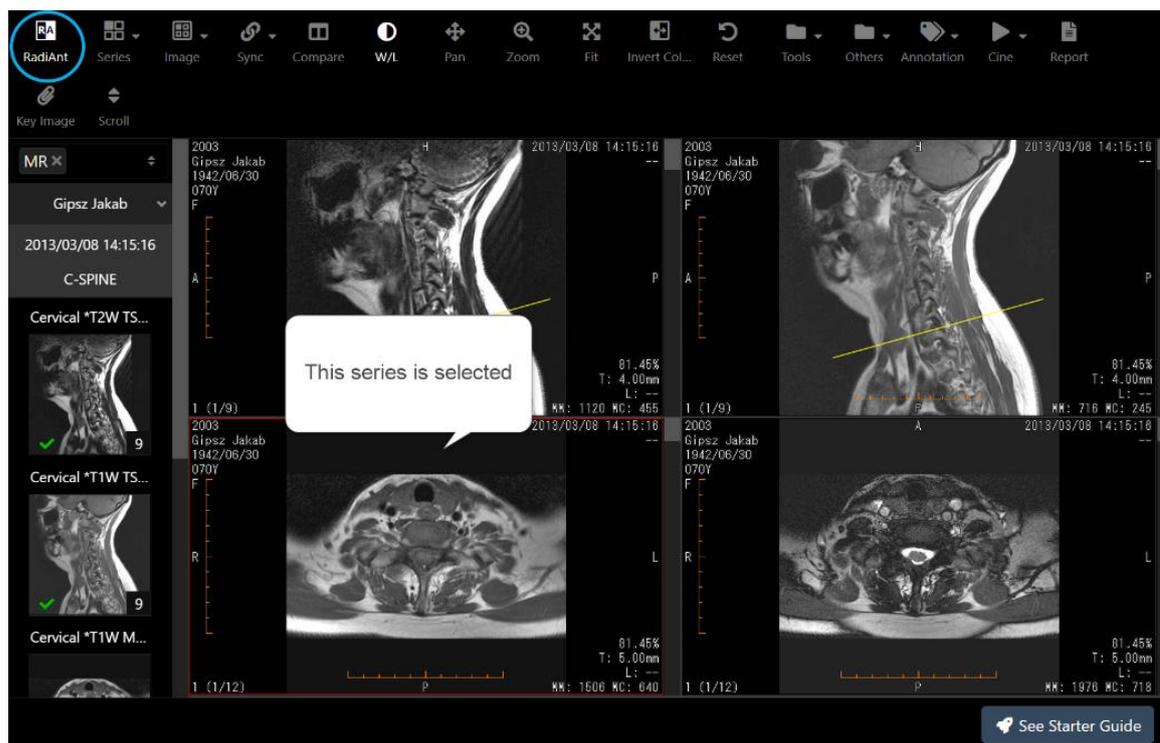


4. RadiAnt DICOM Viewer will be opened and show the selected study.



6.2 Open from Viewer page

1. In Viewer page, select a series. The selected series will be marked red square.

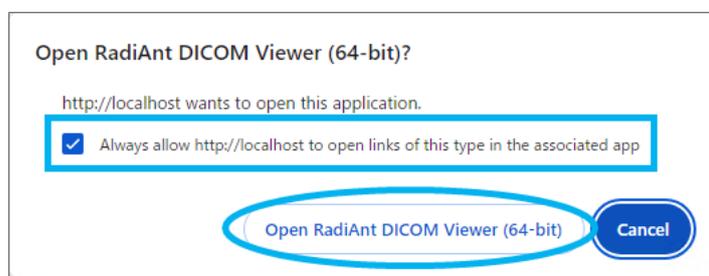


2. Click the  RadiAnt button on the toolbar.



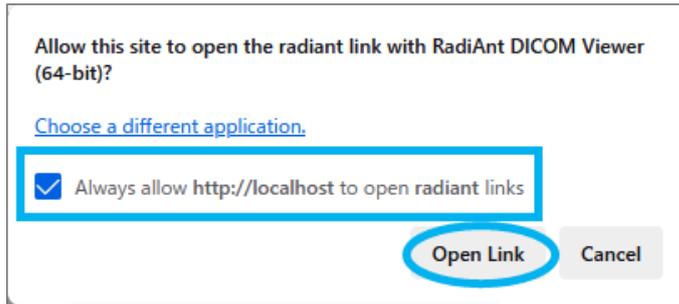
3. A pop-up message will appear.

On Google Chrome: Check "Always allow http://localhost/ to open links of this type in the associated app". And click "Open RadiAnt DICOM Viewer (64 bit)". A pop-up message will not appear next time.



If a pop-up message doesn't appear, set the HTTPS by following the step: [Enable HTTPS for On-premises PACS](#)

On Mozilla Firefox: Check "Always allow http://localhost/viewer/#/list to open RadiAnt links". And click "Open Link". A pop-up message will not appear next time.



4. RadiAnt DICOM Viewer will be opened and show the selected series.

