

# **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.

RA Search and dow	nload studies	from PACS locations			
	~	All modalities	~	All date	s
Patient name	~	Enter patient name			
Study date	Patient r	name	Date	ofbirth	Patient ID



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

RA PACS configuration	n			×
Listener port: 11112	My AE title	RADIANT		Advanced settings
PACS locations				#↓↑ ✓
IP address	Port AE ti	tle	Description	Retrieve p
IP address	Port	AE title	Description	
192.168.10.40	104	Provider 1	SonicDICOM	<b>•</b> • •
				Save Cancel

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 "+".

A PACS configuration	ı			×
Listener port: 11112	My AE title:	RADIANT		Advanced settings
PACS locations				#↓↑ ✓
IP address	Port AE tit	le	Description	Retrieve p
IP address	Port	AE title	Description	<u> </u>
192.168.10.40	104	Provider 1	SonicDICOM	(+)



5. Click "Save".

	1			,
istener port: 11112	My A	AE title: RADIANT	A	dvanced settings
ACS locations				<b>* + 1 </b>
IP address	Port	AE title	Description	Retrieve
192.168.10.40	104	Provider 1	SonicDICOM	C-MOVE
P address	Port	AE title	Description	
P address	Port	AE title	Description	++

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 >



SonicDICOM PACS							<b>0</b> /	Admin
ashboard	Serve	er						
itatistics	Gener	ral Conne	ction	Auto-Delete Re	cycle Bin			
dmin Settings	Instit	ution > DICO	M Provide	r > DICOM User				
General Server		Name						
Client	•	My Institu	tion			\$		
Account		Name		Port Number	AF Title			
Statistics Share	¢	Provider	0001	104	Provider1		ø	Î
ser Settings	Ade	d Institution	Add DIG	COM Provider	dd DICOM Use	er	)	
st						_		
ewer								
eport								
lodality Worklist								

3 / 15



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

Add DICOM User	×
Institution *	
My Institution	Select Institution and
DICOM Provider*	DICOM Provider
Provider0001	✓ ≎
Name*	
Enter any name to ic	lentify the config: RADIANT
IP Address*	
Enter the IP Address	of the device RadiAnt is installed
Port Number*	
Enter the Port Numb	er 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.



Q settings	
← All Apps Documents N Best match	Web Settings People Folders Photos 🕨 K …
Settings App	
Apps	Settings App
ion Camera	
Settings	Open Open
예》 Sound settings	> 🔆 Unpin from Start
🛄 Display settings	<ul> <li>Pin to taskbar</li> <li>183 App settings</li> </ul>
♂ Windows Update settings	
Mouse settings	
Search the web	
Settings menu - See web results	
𝒫 settings display	
Ø settings	

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".

Action View Malo							
indows Defender Firewall with	Inbound Rules					Actions	ſ
Outboand Rules	Name	Group	Profile	Enabled	Action	Inbound Rules	l
Connection Security Rules	C AnyDesk		Domain	Ves	Allow		
North Contraction of the Contrac	🕑 AnyDesk		Private	Ves	Allow	- Filter by Florine	
	2 AnyDesk		Domain	Yes	Allow	√ Filter by State	
	3 AnyDesk		Private	Ves	Allow	V Filter by Group	
	AnyDesk		Domain	Yes	Allow	View	
	🔮 AnyDesk		Private	Yes	Allow	8	
	🕑 AnyDesk		Private	Ves	Allow	Ca Refresh	
	BUFFALO RakuRakuUpdate		Private	Ves	Allow	Export List_	
	BUFFALO RakuRakuUpdate		Private	Yes	Allow	Help	
	🚫 Cinema 4D Team Render Client		Private	Ves	Block		
	🚫 Cinema 4D Team Render Client		Private	Ves	Block	Teamviewer Remote Control Application	
	S Firefox (C:\Program Files\Mozilla Firefox)		Private	Yes	Allow	Disable Rule	
	Sirefox (C\Program Files\Mozilla Firefox)		Private	Yes	Allow	K Cut	
	3 http		All	Ves	Allow		
	Microsoft Office Outlook		Private	Yes	Allow	dia cobh	
	🚫 Nodejs: Server-side JavaScript		Private	Yes	Block	X Delete	
	🔮 Nodejs: Server-side JavaScript		Private	Ves	Allow	Properties	
	🚫 Nodejs: Server-side JavaScript		Public	Ves	Block	2 105	
	Node.js: Server-side JavaScript		Private	Yes	Allow	I rep	
	Nodejs: Server-side JavaScript		Private	Ves	Allow		
	🚫 Nodejs: Server-side JavaScript		Private	Ves	Block		
	Nodejs: Server-side JavaScript		Private	Ves	Allow		
	🚫 Nodejs: Server-side JavaScript		Public	Ves	Block		
	RadiAnt DICOM Viewer (64-bit)		Private	Yes	Allow		
	SonicDICOM Connector Innstall		All	Ves	Allow		
	Teamviewer Remote Control Application		Private	Yes	Allow		
	Steamviewer Remote Control Application		Private	Yes	Allow		
	Teamviewer Remote Control Application		Public	Yes	Allow		
	STeamviewer Remote Control Application		Public	Yes	Allow		
	Teamviewer Remote Control Service		Private	Ves	Allow		
	Teamviewer Remote Control Service		Public	Ves	Allow		

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".

🔗 New Inbound Rule Wizar	rd			×
Protocol and Ports				
Specify the protocols and ports	to which this rule applies.			
Steps:				
Rule Type	Does this rule apply to TCP or	r UDP?		
Protocol and Ports	O TCP			
Action				
<ul> <li>Profile</li> </ul>				
<ul> <li>Name</li> </ul>	Does this rule apply to all loca	al ports or specific local ports?		
	O All local ports			
	Specific local ports:	104		
		Example: 80, 443, 5000-5010		
		< Back	Next > Cancel	
s				

8. Select "Allow the connection" and click "Next".

Prew Inbound Rule Wiza	ard	×
Action		
Specify the action to be taken	when a connection matches the conditions specified in the rule.	
Steps:		
Rule Type	What action should be taken when a connection matches the specified conditions?	
Protocol and Ports	O Allow the connection	
Action	This includes connections that are protected with IPsec as well as those are not.	
Profile	Allow the connection if it is secure	
e Name.	This includes only connections that have been sufferinticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customica: Block the connection (Back Next) Car	ncel



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

🔗 New Inbound Rule Wiza	rd
Profile	
Specify the profiles for which the	iis rule applies.
Steps:	
Rule Type	When does this rule apply?
Protocol and Ports	
Action	Domain Applies when a computer is connected to its connected damain
Profile	Applies when a computer is connected to its corporate domain.
Name	<ul> <li>Applies when a computer is connected to a private network location, such as a home or work place.</li> </ul>
	Public Applies when a computer is connected to a public network location.
	(Back Next) Cancel

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

💣 New Inbound Rule Wizard		$\times$
Name		
Specify the name and description of the	is rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action		
Profile	Name: SonicDICOM PACS	
Name		
	Description (optional):	
	< Back Finish Cancel	



## 5. Add RadiAnt button on the toolbar

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

SonicDICOM PACS			🕒 Administrate	or 👻						
Dashboard     Statistics     Share	- License Expiration: - Support Expiration: Contact - Activation - Support Expiration:									
🖨 Admin Settings General	General	Search Shar	e toolbar	ł						
Server	Left R	ight								
Client	•		Developing							
Account	ţ	Name	Description							
Statistics	≡→	C Refresh	Reload Study List							
Share	≡→	<b>Q</b> Search	Advanced Search dialog will appear							
Luser Settings	≡→	D Clear	Clear Study List							
List	≡→	DDF	Browse Report of selected Study as PDF file							
Viewer	≡→	🖪 RadiAnt	Open the study in RadiAnt DICOM Vlewer							
Report	4		•							
Modality Worklist	Add Item	to Toolbar								
Profile				Ť						

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

SonicDICOM	PACS		⊖ Administrator -
🙆 Dashboard	Add Item to Toolbar	×	•
Lee Statistics	Туре		
C Share	🛇 Feature 🔿 Folder 🔿 Divider		
🖀 Admin Settings	Name*		
General	🎝 Add	•	
Server	🖪 RadiAnt		
Client	<ul> <li>C Auto-Refresh</li> <li>C Clear</li> </ul>	- 18	
Account	CSV CSV	- 11	
Statistics	i Delete ✔ Edit	- 11	
Share	📥 Export	a	ppear
LUSER Settings	Forward Import	- 11	
List	Note	tu	dy as PDF file
Viewer	Cancel	Add	OM Vlewer
Report			•
Modality Worklist	Add Item to Toolbar		
Profile			



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

🔳 So	onicDICC	om pac	S				
<b>Q</b> Search	<b>C</b> Refresh	<b>D</b> Clear	PDF	RadiAnt		HE Viewer	<b>B</b> Report
Quick	Search: ID			~ (	<b>A</b> II	0D 1D	1W
RA		] _ (		6.	Π	D	<b>4</b>
RadiAn	t Serie	es In	nage	Sync	Compare	W/L	Pan
MR×		\$	2002 Gipsz 1942/	z Jakab '06/30			H
G	ipsz Jakal	b 🗸	070Y F			W.L	

## 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.

	So	nicD	ICOM PA	ACS										0	Admin	istra	tor 🔻
Sea	<b>)</b> rch	C Refres	Sh Clear	PDF	RA RadiAnt	H Viewer	Report	PDF	<b>1</b> Add	<b>E</b> dit	Delete	Lange Expor	t Import	Forward	<b>Share</b>		Note
Q	uick S	Search	: ID		<b>- Q</b> A	II OD	1D 1V	V									
			Shared 🌲	Report 🗦	ID \$	Name			÷	Study	Date	-	Modal ≑	Body Par	ts	÷	Desc
☆	0		)		2003	Gipsz Ja	akab			2013/	03/08 14:1	5:16	MR				C-SPI
☆	0				3001	Folana				2011/	11/12 08:4	4:56	CT				
☆	0				0001	Aam Aa	idmi			2006/	08/17 11:4	5:45	CR	SKULL			
☆	0				0002	Filan Fis	steku			2006/	08/04 14:0	2:30	CR	CHEST			
☆	0				0003	Fulano	de Tal			2003/	02/01 09:2	5:32	CR	CHEST NE	CK		
☆	0				2001	Si Polar	١			1989/	02/03 09:2	6:18	MR				KNEE
•																	• •
		9		E.C.	12	12	9										* *
N	umber	of Stu	dies: 10 Dis	played: 6 Sele	cted: 1 Study						Data	226.09	GB / 237.13 G	B 🖪 See	Starter	Gui	de



Out-It St		sh Clear	PDF	RadiAnt	V	wer Report	PDF	Add	Edit	Del	ete Exp	ort Import	Forward	Share	Note
QUICK SE	earch	n: ID		• Q	All	0D 1D 1V	N								
		Shared 🗘	Report	≑ ID	≑ N	me		4	Stu	ly Date		Modal ≑	Body Parts	5	Desc
0				2003	G	isz Jakab			201	3/03/08	14:15:16	MR			C-SPI
7 0				3001	Fo	ana			201	1/11/12	08:44:56	СТ			
0				0001	A	m Aadmi			200	5/08/17	11:45:45	CR	SKULL		
0				0002	Fi	n Fisteku			200	5/08/04	14:02:30	CR	CHEST		
0				0003	Fu	ano de Tal			2003	3/02/01	09:25:32	CR	CHEST NEC	K	
0				2001	Si	olan			198	9/02/03	09:26:18	MR			KNEE
	9			12	12	9									•

### 2. Click RA 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 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  $\blacksquare$  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.

