SonicDICOM PACS Cloud

SonicDICOM Cloud Connector Setup Guide

Version 6 February 9, 2024

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Introduction

SonicDICOM Cloud Connector is a free software to automatically upload medical images that is scanned by modalities to SonicDICOM PACS Cloud.

This document describes how to install this software and how to make various settings.

If you have any questions, please contact the distributor or manufacturer.

Version history

Version	Date	Description
1	March 29, 2019	The first edition issued.
2	November 25, 2020	Description on "Upload the compressed data"
		and other explanations have been added.
3	May 25, 2021	Some expressions, screenshots, and layouts
		have been changed.
4	July 2 [,] 2021	Some expressions, and screenshot have been
		changed.
5	November 1 [,] 2021	The manufacturer's company name has been
		changed.
6	February 9, 2024	UI improvements, description changes

1. Installation

1.1 Get ready

1.1.1 Create your PACS on the cloud

In order to use SonicDICOM Cloud Connector, you need to create your account and PACS on the cloud. Click following link to create your PACS on the cloud by following guidance. <SonicDICOM PACS Cloud>

https://console.sonicpacs.com/

1.1.2 Add Cloud Connector on your Cloud PACS

(1) Log in to your Cloud PACS. Access: Admin Settings > Server > Connections. Click "Add Cloud Connector".

SonicDICOM PACS Cloud		•
Dashboard	Server	<u>_</u>
년 Statistics		
🗘 Share	General Connection Auto-Delete Recycle Bin	
Admin Settings	Institution > Cloud Connector > DICOM Provider > DICOM User	
General		
Server	Name	
Client	My Institution	e
Account	Add Institution Add Cloud Connector Add DICOM Provider Add DICOM Use	or
Statistics		51
Share	🛓 Download Cloud Connector	
LUser Settings		
List		

(2) A dialog "Add Cloud Connector" will appear. Select Institution Name and enter a name for this setting then click "Add".

Add Cloud Connector	×
Institution *	
My Institution	✓ ≑
Name*	
CloudConnector1	✓
	Cancel

(3) A dialog "Cloud Connector" with the activation key will appear if cloud connector is successfully added. Click "Download Cloud Connector".

Cloud Connector	×
Cloud Connector has been successfully added.	
Activation Key	
Download Cloud Connector and install it on My Institution's	4
PC/server	
 Launch Cloud Connector and enter the activation key Follow <u>the setup guide</u> to connect Cloud Connector and modality 	
c	к

* Do not close this dialog. You will need the activation key later.

(4) Select a location to save the installer of cloud connector and click "Save".

1.2 Install SonicDICOM Cloud Connector

(1) Right-click on the installer "SonicDICOM_Cloud_Connector_Setup.exe", and click "Run as administrator".

↓ Downloads	× +	- 🗆 X
$\leftarrow \rightarrow \land \Box$	🖵 > Downloads	Search Downloads Q
🕀 New 🗸 🚺	Î	Details
A case	Name	Date modified Type
Reality .	SonicDICOM_Cloud_Connector_Setup.exe	Application Application
> California (Income)		
	-	Copen Enter
Total	*	🖻 Share
↓ Downloads	*	🕞 Run as administrator
E Program Tiles	*	🔗 Pin to Start
Contract of Contract	, I	Add to Favorites
- FEED 1447	*	Compress to ZIP file
Courses.	*	Copy as path Ctrl+Shift+C
	*	Properties Alt+Enter
	*	Edit in Notepad
B	*	 53 m
In the second second		Snow more options
1 item 1 item selected 3.70 MB		

(2) The Setup screen will appear. Click "Next".

Setup - SonicDICOM Clou	d Connector — 🗆 🗙
	Welcome to the SonicDICOM Cloud Connector Setup Wizard
	This will install SonicDICOM Cloud Connector version 1.2.1 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next Cancel

(3) Read License Agreement and put a check mark on "I accept the agreement" after checking its contents. And then click "Next".



(4) Check a folder to install the software, then click "Next".

(5) Check a folder to store shortcut, then click "Next".

If no folder is specified, it will be created automatically.

Setup - SonicDICOM Cloud Connector version 1.1.0	—		×
Select Start Menu Folder Where should Setup place the program's shortcuts?			
Setup will create the program's shortcuts in the following S	tart Men	u folder.	
To continue, dick Next. If you would like to select a different folder	, click Bro	wse.	
SonicDICOM Cloud Connector	Br	owse	
< Back Nex	dt >	Car	ncel

(6) If you would like to create a shortcut of the software on your desktop, put a check mark and click "Next".



(7) Check the contents to be installed, and click "Install".

Setup - SonicDICOM Cloud Connector version 1.1.0		×
Ready to Install Setup is now ready to begin installing SonicDICOM Cloud Connector on your computer.		
Click Install to continue with the installation, or click Back if you want to revie change any settings.	w or	
Destination location: C:¥Program Files¥SonicDICOM Cloud Connector		
Start Menu folder: SonicDICOM Cloud Connector		
Additional tasks: create a Manager shortcut on your desktop.		
<	>	/
< Back Install	Car	ncel

(8) If you run SonicDICOM Cloud Connector and make settings after the installation is done, put a checkmark next to "Run SonicDICOMCloudConnectorManager.exe" and click "Finish".

Setup - SonicDICOM Cl	oud Connector version 1.1.0	_		\times
	Completing the Soi Connector Setup V Setup has finished installing Sonicl your computer. The application me the installed shortcuts. Click Finish to exit Setup.	nicDICON Vizard DICOM Cloud Co ay be launched b	1 Clo	on ting
	Run SonicDICOMCloudConne	ctorManager.ex	\triangleright	
	C	Finish		

Then setup will be completed. And SonicDICOM Cloud Connector will launch.

2. Activate a license

(1)A screen to choose the language will appear. Select "English".

🏟 Select La 🛛 —		×
Select View La	inguage	
English	~	
ОК		

(2) SonicDICOM PACS Cloud Connector Manger will launch and "Step1. Registration of Connector" will appear."

SonicDICOM Cloud Connector Manager	—		×
SonicDICOM Cloud Connector Wizard			
Step 1. Registration of Connector			
This is a software to receive medical image from medical diagnostic equipment (modality) and upload them to SonicDICOM PACS Cloud.			
The following conditions are required to use this software. - Can connect to SonicDICOM PACS Cloud - PACS is already created on SonicDICOM PACS Cloud - Client Certificate is available on the created PACS if you use it			
Set Client Certificate and enter the URL of the created PACS.			
Activation Key :			
< Back		Next >	

(3) Copy the activation key that you see on step 1.1.2 Add Cloud Connector on your Cloud PACS.

Cloud Connector	×
Cloud Connector has been successfully added.	
Activation Key	
Annale comparison of the production of the product of the	
	11
1. <u>Download Cloud Connector</u> and install it on My Institution's PC/server	
2. Launch Cloud Connector and enter the activation key	
3. Follow <u>the setup guide</u> to connect Cloud Connector and modality	
C	Ж

(4) Back to the wizard "Step1. Registration of Connector" and paste the activation key. And

click "Next".

SonicDICOM Cloud Connector Wizard Step 1. Registration of Connector This is a software to receive medical image from medical diagnostic equipment (modality) and upload them to SonicDICOM PACS Cloud. The following conditions are required to use this software. - Can connect to SonicDICOM PACS Cloud - PACS is already created on SonicDICOM PACS Cloud - Client Certificate is available on the created PACS if you use it Set Client Certificate and enter the URL of the created PACS. Activation Key :	SonicDICOM Cloud	d Connector Manager	_		×
Step 1. Registration of Connector This is a software to receive medical image from medical diagnostic equipment (modality) and upload them to SonicDICOM PACS Cloud. The following conditions are required to use this software. - Can connect to SonicDICOM PACS Cloud - PACS is already created on SonicDICOM PACS Cloud - Client Certificate is available on the created PACS if you use it Set Client Certificate and enter the URL of the created PACS. Activation Key :	SonicDICOM Clour	l Connector Wizard			
This is a software to receive medical image from medical diagnostic equipment (modality) and upload them to SonicDICOM PACS Cloud. The following conditions are required to use this software. - Can connect to SonicDICOM PACS Cloud - PACS is already created on SonicDICOM PACS Cloud - Client Certificate is available on the created PACS if you use it Set Client Certificate and enter the URL of the created PACS. Activation Key :	Step 1. Registrat	ion of Connector			
The following conditions are required to use this software. - Can connect to SonicDICOM PACS Cloud - PACS is already created on SonicDICOM PACS Cloud - Client Certificate is available on the created PACS if you use it Set Client Certificate and enter the URL of the created PACS. Activation Key :	This is a software and upload them	to receive medical image from medical diagnostic equipment (modality) to SonicDICOM PACS Cloud.			
Activation Key :	The following co - Can connect to - PACS is already - Client Certifica Set Client Certific	nditions are required to use this software. SonicDICOM PACS Cloud r created on SonicDICOM PACS Cloud te is available on the created PACS if you use it ate and enter the URL of the created PACS.			
Activation Key :		ate and enter the OKE OF the created PACS.			
	Activation Key :	Compared and the local control of the set			
and an and the second sec		any set of the part of the date of the set			
CODE MAY STALL FRANCISCO COMMUNICATION OF THE ADDRESS OF THE ADDRE		CORNEL STATES AND CONTRACTORS AND			
< Back Next >		< Back	0	Next	5

(5) If the activation successfully done, the wizard "Step2. Setting of DICOM Provider in Connector" will appear. It shows registered DICOM Provider information including the cloud connector name, a port number and AE title of the PC which cloud connector is installed. Click "Next".

SonicDICOM Cloud Connector Manager	_	- C	
SonicDICOM Cloud Connector Wizard			
Step 2. Setting of DICOM Provider in Connector			
Registration of DICOM Provider is done.			
DICOM provider registration information			
Name : CloudConnector			
Port : 4500			
Ae Title : Provider1			
	< Back		Next >

3. Register DICOM User

3.1 Register DICOM User

Register DICOM User of SonicDICOM Cloud Connector. DICOM User is mainly modality such

as ultrasound, MRI, etc.

(1) Wizard "Step3. Registration of DICOM User (1 / 3)" will appear.

Sonic DICOM Cloud Connector Manager			×
SonicDICOM Cloud Connector Wizard Step 3. Registration of DICOM User (1/3) Set the DICOM User that accesses SonicDICOM Cloud Connector. The wizard can register only one DICOM User. If you need to register the second and subsequent DICOM Users, please set it on Admin Settings of the PACS created in the cloud. If you enabled Option at DICOM Provider registration, you don't need to register DICOM User. You can skip DICOM User registration by clicking the Skip button. Skip			
< Back	C	Next >	J

The wizard can register only one DICOM User. Click "Next".

* To register second or subsequent DICOM user, please access SonicDICOM PACS Cloud > Admin Settings > Server > Connection.

* If "Option: Allow DICOM connection with unregistered DICOM user" is enabled in Admin Settings > Server > Connection, the DICOM user will be registered automatically even if it is not registered yet (provided that DICOM connections have not reached the maximum number).

* If you would like to skip the registration of DICOM User, click "Skip" to close the wizard.

(2) Wizard "Step3. Registration of DICOM User (2 / 3)" will appear.

🛞 Soni	cDICOM Cloud	Connector Manager	_		×
Sonic	DICOM Cloud	Connector Wizard			
Ste	p 3. Registratio	on of DICOM User (2/3)			
Ent	er information	of DICOM User.			
1	User Name	Modality01			
2	IP Address	192.168.1.1			
3	Port	1000 🛋			
4	AE Title	Modality			
Us IP	er Name : A val Address : Enter Port : Enter AE Title : Enter	ue used to identify DICOM User. Enter any string. the IP Address of DICOM User. the port number of DICOM User. the AE Title of DICOM User.			
		< Ba	ck 🤇	Next >	

Enter the following information.

- [1] User Name: A name used to identify DICOM User. Enter any string.
- [2] IP Address: Enter the IP Address of DICOM User.
- [3] Port: Enter the port number of DICOM User.
- [4] AE Title: Enter the AE Title of DICOM User.

After you entered all the items, click "Next.

(3) Wizard "Step3. Registration of DICOM User (3 / 3)" will appear. Registration of DICOM User is done. Click "Next".

SonicDICOM Cloud Connector Manager	_		×
SonicDICOM Cloud Connector Wizard			
Step 3. Registration of DICOM User (3/3)			
Registration of DICOM User is done.			
		_	
		Next >	

(4) Wizard "The wizard has finished" will appear.

SonicDICOM Cloud Connector Manager	-		×
SonicDICOM Cloud Connector Wizard The wizard has Finished All wizard of SonicDICOM Cloud Connector is completed.			
		Close	

All wizard of SonicDICOM Cloud Connector is completed.

Click "Close" to close the wizard.

3.2 Add information of SonicDICOM Cloud Connector to modality

You need to register the information of SonicDICOM Cloud Connector to the modalities to be connected with SonicDICOM PACS Cloud.

- IP Address of the PC on which SonicDICOM Cloud Connector was installed
- Port Number of the PC on which SonicDICOM Cloud Connector was installed
- AE Title of the PC on which SonicDICOM Cloud Connector was installed

The setting method differs depending on each modality, so if you are not sure, please check with the manufacturer's support staff or another person who can assist.

* When SonicDICOM PACS Cloud Connector receives via DICOM communication, it will check if the DICOM user is already registered.

If "Option: Allow DICOM connection with unregistered DICOM user" is enabled in Admin Settings > Server > Connection, the DICOM user will be registered automatically even if it is not registered (provided that DICOM connections have not reached the maximum number).

When DICOM user is automatically registered, its AE title and IP address will be obtained from the communication information, but its port number cannot be obtained and will be registered as "1000".

3.3 Restart SonicDICOM Cloud Connector

(1) Back to SonicDICOM Cloud Connector Manager and check that following information is displayed.

- Service : "Stopped "
- License > License Status : "Active"
- License > Cloud URL : The URL of your cloud PACS

(2) Click "Start".

4. Optional Settings

4.1 Upload the compressed data

Uploading DICOM files to SonicDICOM PACS Cloud without compressing them will overload the storage capacity of PACS.

By configuring the following settings, you can store DICOM files in local and compress them before uploading.

•		×
Home Conneciton Option Log About		
1 Local Data Path		
	Browse	
2 ☑ Upload the compressed data		
*The data will be uploaded without compression if the data c be stored in Local Data Path.	annot	
Client Certificate		
Enable Certificate		
Pfx File Browse		
Password Show		
Save *The service will be restarted if it is running.		

- (1) Configure a local path to store DICOM files to be uploaded.
 Open SonicDICOM Cloud Connector Manager > Option.
 In Local Data Path, click "Browse" and specify the local location to store it.
- (2) Configure the settings to upload the DICOM file compressed.

Put a checkmark "Upload the compressed data" to enable this option. By enabling this option, compressed DICOM files will be uploaded to SonicDICOM PACS Cloud.

If this option is not enabled, uncompressed DICOM files will be uploaded to SonicDICOM PACS Cloud.

Also, configure the settings for Client Certificate.

Put a checkmark "Enable Certificate" in "Client Certificate" section.

- Pfx File: Click "Browse" and specify the location where Client Certificate is stored.
- Password: Enter the password of Client Certificate.

(3) Click "Save" and save the settings.

* If DICOM file could not be compressed, it will be uploaded to SonicDICOM PACS Cloud uncompressed.

* Regardless of whether the option is enabled or disabled in 2), DICOM file will be saved locally uncompressed.

* If you would like to upload the file compressed, be sure to specify the local location to store it in 1).