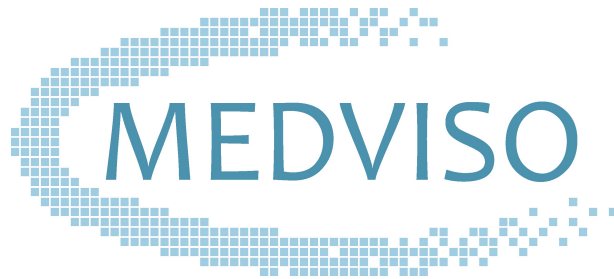


Sectra PACS Plugin



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Contents

1	Background	1
1.1	Conditions for use	1
2	Conventions and Abbreviations	2
2.1	Typographic conventions	2
3	Send data from Sectra PACS to Segment	3
3.1	System Requirements	3
3.2	Overview	3
3.3	Installing Segment	3
3.4	Installing Microsoft Visual C++ 2015-2022 Redistributable Package	4
3.5	Enable communication from Sectra PACS to Segment	4
3.6	Configure the Sectra PACS workstation	4
3.7	Using the Sectra PACS Plugin	6
3.8	Send images from Sectra PACS to Segment	6
4	Send data from Segment to Sectra PACS	8
4.1	Set up DICOM node in Sectra PACS	8
4.2	Set up connection from Segment	8
4.3	Send images from Segment to Sectra PACS	8

1 Background

The Sectra PACS Plugin is as an addition to the software Segment, Segment CMR, Segment CT or Segment 3DPrint that allows for direct access to images in Sectra PACS. In this manual the software Segment, Segment CMR, Segment CT or Segment 3DPrint are used interchangeable since they work similarly with the Sectra PACS Plugin. At all places this manual specifies Segment this can also be read as Segment CMR, Segment CT or Segment 3DPrint.

Using the Sectra PACS Plugin it is possible to with a simple right click to send images and open them in Segment for analysis. From Segment it is possible with a single click to send the images back to the Sectra PACS including measurements and analysis etc.

The plugin is sold and distributed by Medviso AB. For more details about the software Segment, please see Segment User Manual. For more information about Sectra PACS, please see documentation supplied by SECTRA Imtec AB (<http://www.sectra.se>).

1.1 Conditions for use

- **Caution:** Federal law restricts this device to sale by or on the order of professionals trained in medical image analysis.
- The software is a tool to direct access images in Sectra PACS from Segment software packages.

2 Conventions and Abbreviations

The following typographic conventions are used in this manual.

2.1 Typographic conventions



Caution used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury or material damage.



Information intended to help the user achieve optimal use of the software. Includes usage considerations, limitations, or recommendations that do not relate to safety.



A reminder to the user of their responsibilities under applicable regulatory requirements.

A

Key A at the keyboard.

Ctrl-A

Control key. Hold down **Ctrl** key and **A** simultaneously.



Icon in toolbar.

*.mat

Filename extension.

C:/Program

Folder.

File

Menu, e.g. File menu.

File→Save As

Sub menu, e.g. under the File menu the item **Save As** is found.



Push/Toggle button in the graphical user interface.

3 Send data from Sectra PACS to Segment

Before attempting the installation, please see system requirements below.

3.1 System Requirements

In order to run the SECTRA PACS plugin you need to have:

- Access to Sectra PACS IDS7, including log-in.
- A powerful enough computer to run Segment. For further details, please see Chapter 'System Requirements' in the Segment User Manual.
- Supported operating systems are Windows 10 and 11.

3.2 Overview

The installation consist of three major steps:

1. Install Segment on each client computer you want to run the Sectra PACS Plugin.
2. Enable communication between Segment and Sectra PACS.
3. Configure the Sectra PACS workstation to allow plugins.
4. Configure Sectra PACS and Segment to be able to send images between the systems.

Please note that the above process needs to be repeated on each client computer that will run Segment and the Sectra PACS Plugin.

3.3 Installing Segment

Please follow the instructions on how to install Segment from Segment Installation Manual. If you want to deploy Segment to many machines, it is technically possible to perform a network installation of Segment.

You will need a Sectra plugin license included in your Segment license to run the plugin. This license is supplied to you either at the time of purchase of Sectra PACS Plugin, or by contact sales@medviso.com for evaluation purposes.

3.4 Installing Microsoft Visual C++ 2015-2022 Redistributable Package

To successfully register the plugin, currently the runtime components for Visual C++ libraries have to be installed. These can be downloaded from

https://aka.ms/vs/17/release/vc_redist.x86.exe (32 bit)

https://aka.ms/vs/17/release/vc_redist.x64.exe (64 bit)

3.5 Enable communication from Sectra PACS to Segment

This step will enable the communication from Sectra PACS to Segment.

This step will register an .dll file. If you are using 32 bit Sectra PACS system, then double click on the file `sectraplugin32.bat` in Segment installation folder. If you are running a Sectra PACS 64 bit system, then click on `sectraplugin64.bat`. You will now see a message box that looks like in Figure 1. For some systems you might need to run the .bat-file from command line.

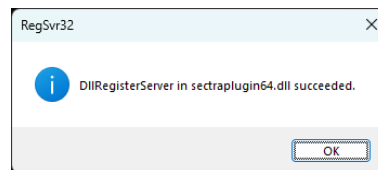


Figure 1: Successful notification .dll installation.

If the installation was not successful please contact support@medviso.com for help with trouble shooting.

3.6 Configure the Sectra PACS workstation

Before you can use the Sectra PACS Plugin you need to configure the PACS installation on each computer where you want to run the application. Depending on the PACS master settings this step may not be required. In order to perform this step you need to have PACS administration system privileges.

1. Start Sectra PACS
2. Login in as local PACS administrator
3. In the menu Tools or Verktyg select Options or Alternativ. The keyboard short cut for this is **Shift-Ctrl-0**. Select the name of the workstation as the role. Click continue.
4. Click on the tab for Advanced Configuration

5. Select CAI Settings under External Addins
6. Adjust settings according to Figure 2
7. You are now set to go. However, we strongly recommend that you first test it, and then also logoff and test it for users with standard privelegies.

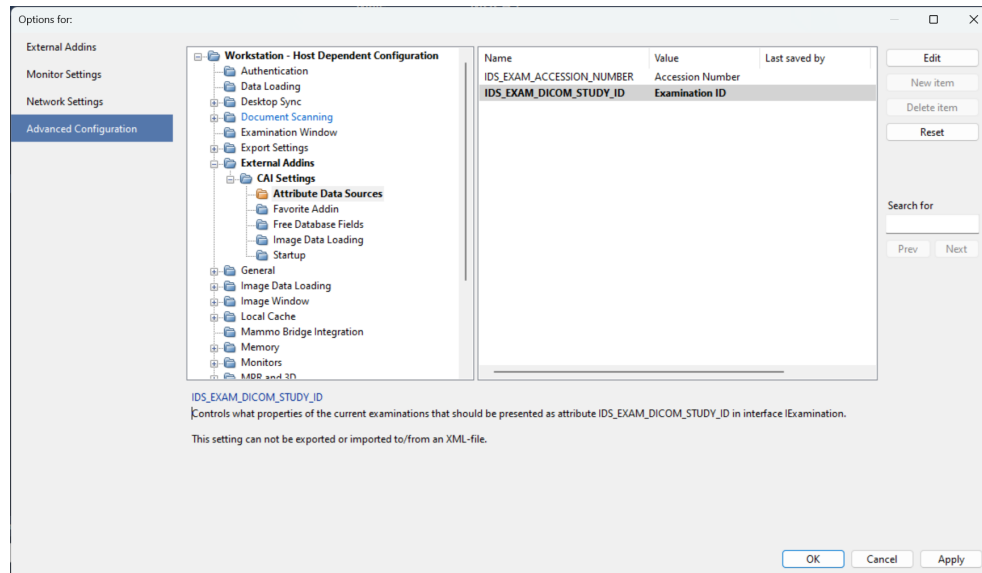


Figure 2: Local PACS settings for each client computer.

3.7 Using the Sectra PACS Plugin

In this section it is assumed that you are well acquainted with using Sectra PACS. If you need assistance using the Sectra PACS, please consult you local hospital PACS support, or contact Sectra Imtec AB.

3.8 Send images from Sectra PACS to Segment

To send images to Segment, first open them in Sectra PACS. In the image window, simply right click on the desired image series. The menu showed in Figure 3. In the menu, click on Clinical Applications, or Kliniska Applicationer and select Segment.

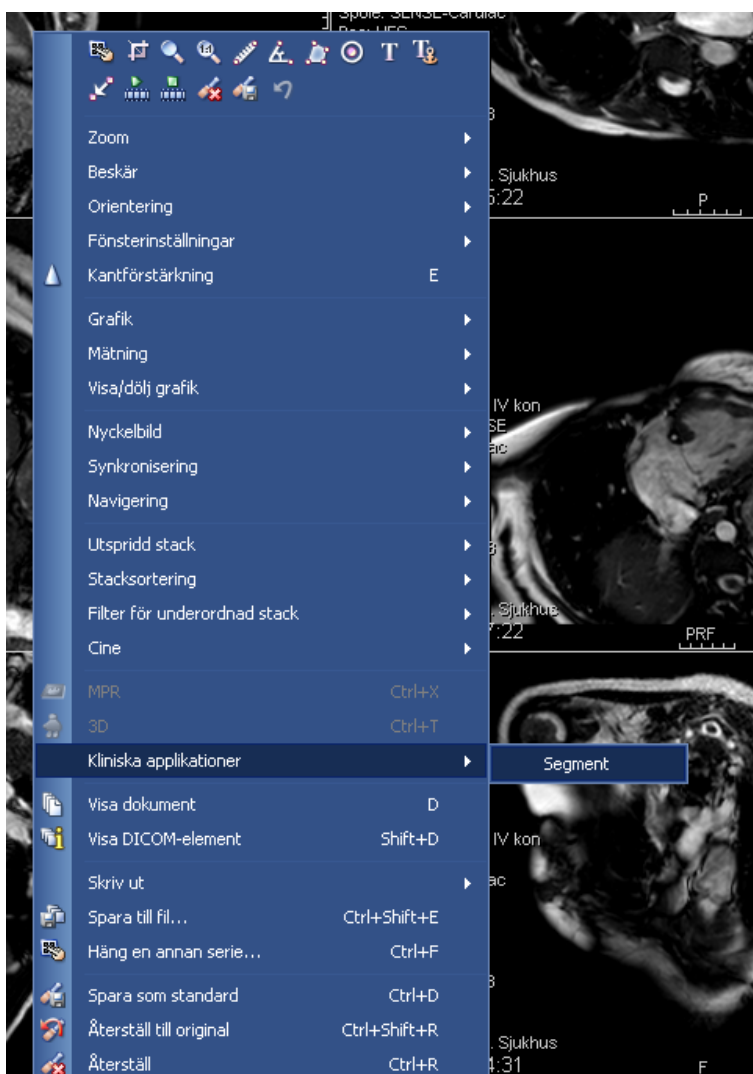


Figure 3: Right click menu in Sectra PACS.

Segment will automatically start and load the desired image stack. If Segment is already

open, then it will load it into the current image stack collection. If you are loading images into another patient a warning message will appear.

4 Send data from Segment to Sectra PACS

This step is optional and only required if you want to be able to send images and reports back to Sectra PACS from Segment.

4.1 Set up DICOM node in Sectra PACS

Ask your local Sectra PACS Administrator to set up a DICOM node (port) for the Segment Application. As PACS administrator you need to decide on the following:

- **Called AE.** This should be the AE Title for the DICOM node (or for the entire Sectra PACS).
- **Peer IP.** This is the IP address of the DICOM node (or the entire Sectra PACS).
- **Peer Port.** This is the port on which the DICOM node (or the entire Sectra PACS) is listening for incoming association requests.
- **Port.** This is the port suggested by Segment to be used in the communication.

You need to collect the following information about each client that you need to set up.

- Hostname
- IP number

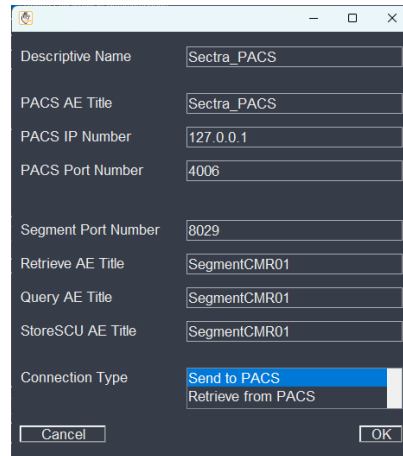
4.2 Set up connection from Segment

You should create a new PACS connection in Segment and enter the information from above. The settings are found under menu **Settings \Setup Tools \Setup PACS connection**. In the PACS Preferences window, select **Add** under the **Define PACS connection** tab. The window with the connection settings should look as shown in Figure 4.

For further details on how to configure PACS connections, please see Segment User Manual.

4.3 Send images from Segment to Sectra PACS

After image analysis and quantification in Segment, it is possible to send images back to Sectra PACS. This is done in Segment the function found under menu **File \Save to PACS** . It is also possible to send DICOM images from the the Segment Patient Database. via menu **Export\Export DICOM files to PACS**, as well as send reports by clicking on **Send to PACS** in the Report sheet generator .



The image shows a configuration window titled 'Sectra_PACS'. It contains several text input fields and a dropdown menu. The fields are labeled as follows: 'Descriptive Name' (value: Sectra_PACS), 'PACS AE Title' (value: Sectra_PACS), 'PACS IP Number' (value: 127.0.0.1), 'PACS Port Number' (value: 4006), 'Segment Port Number' (value: 8029), 'Retrieve AE Title' (value: SegmentCMR01), 'Query AE Title' (value: SegmentCMR01), and 'StoreSCU AE Title' (value: SegmentCMR01). The 'Connection Type' dropdown menu is open, showing two options: 'Send to PACS' (highlighted in blue) and 'Retrieve from PACS'. At the bottom of the window are 'Cancel' and 'OK' buttons.

Field	Value
Descriptive Name	Sectra_PACS
PACS AE Title	Sectra_PACS
PACS IP Number	127.0.0.1
PACS Port Number	4006
Segment Port Number	8029
Retrieve AE Title	SegmentCMR01
Query AE Title	SegmentCMR01
StoreSCU AE Title	SegmentCMR01
Connection Type	Send to PACS

Figure 4: Example of communication settings for Sectra PACS.

The transmitted images are in Segment internal `.mat` format, but with a DICOM wrapper. This will enable that the images are visible as a thumbnail in Sectra PACS. When they are opened in Sectra PACS all you will see is an image preview. When opened in Segment through the Sectra PACS Plugin the full image and all measurements will be available. The internal representation used in Segment is stored in the private tag (37FB,1947).