

Sante DICOM Viewer Pro

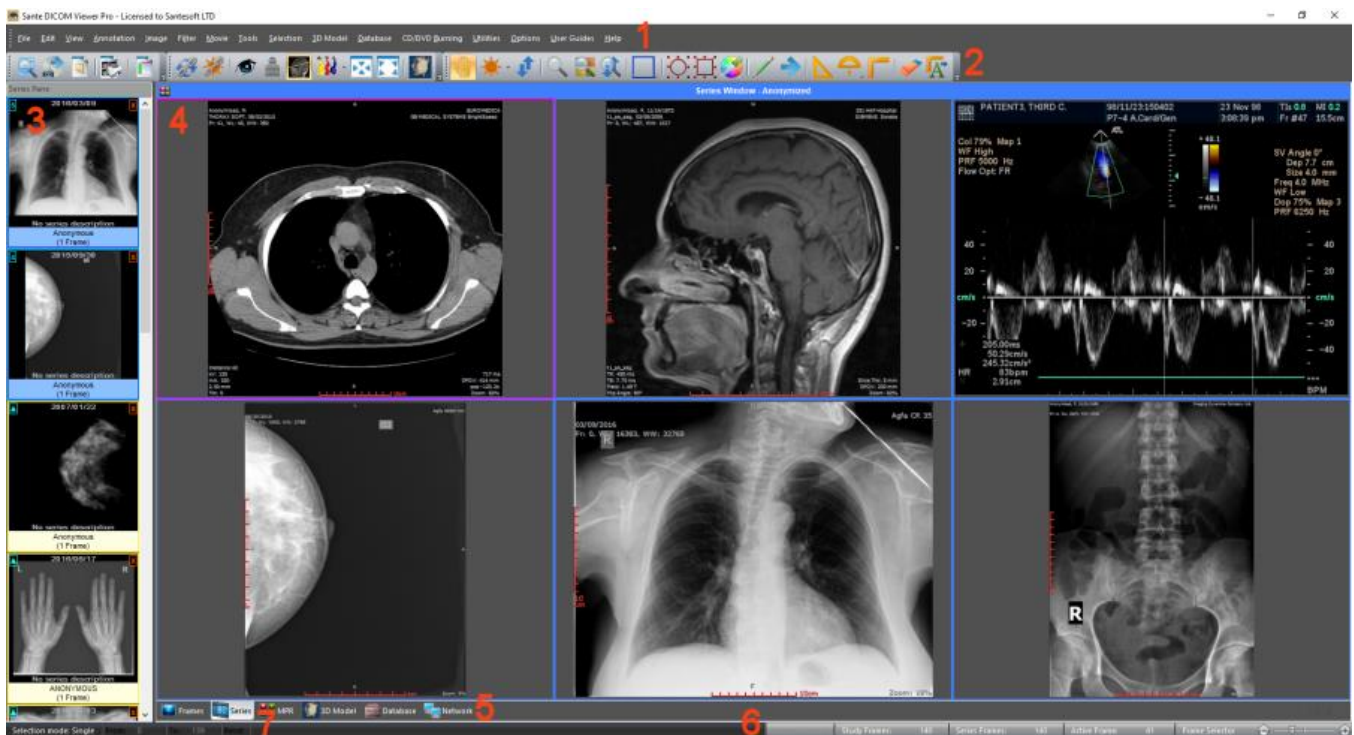
Quick start guide

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The user interface



The user interface is divided in 7 parts:

1. The menu bar
2. The toolbars
3. The series pane
4. The main window
5. The Frames/Series/MPR/3D Model/ Database/Network Mode selection tab
6. The frame selection slider
7. The frame range selection buttons

The program works with DICOM series. When the user opens a single file, the program creates a series with this file in the memory and works with this single-file series. When the user opens a study, the program works with all the series of this study. All the loaded series are displayed in the series pane (3) as thumbnails. The user can load a series in the main window by double-clicking its thumbnail in the series pane (3), or by clicking the green arrow in the upper-left corner of the thumbnail.

Series that have been loaded in the main window have blue color, and series that have not been loaded in the main window have yellow color. The active series has magenta color.



The user can close a series by clicking the red X symbol in the upper-right corner of the thumbnail.

1. Menu bar

The menu bar contains all the commands of the program.

2. Toolbars

The toolbars provide shortcut buttons for the most useful commands of the program.


3. Series Pane

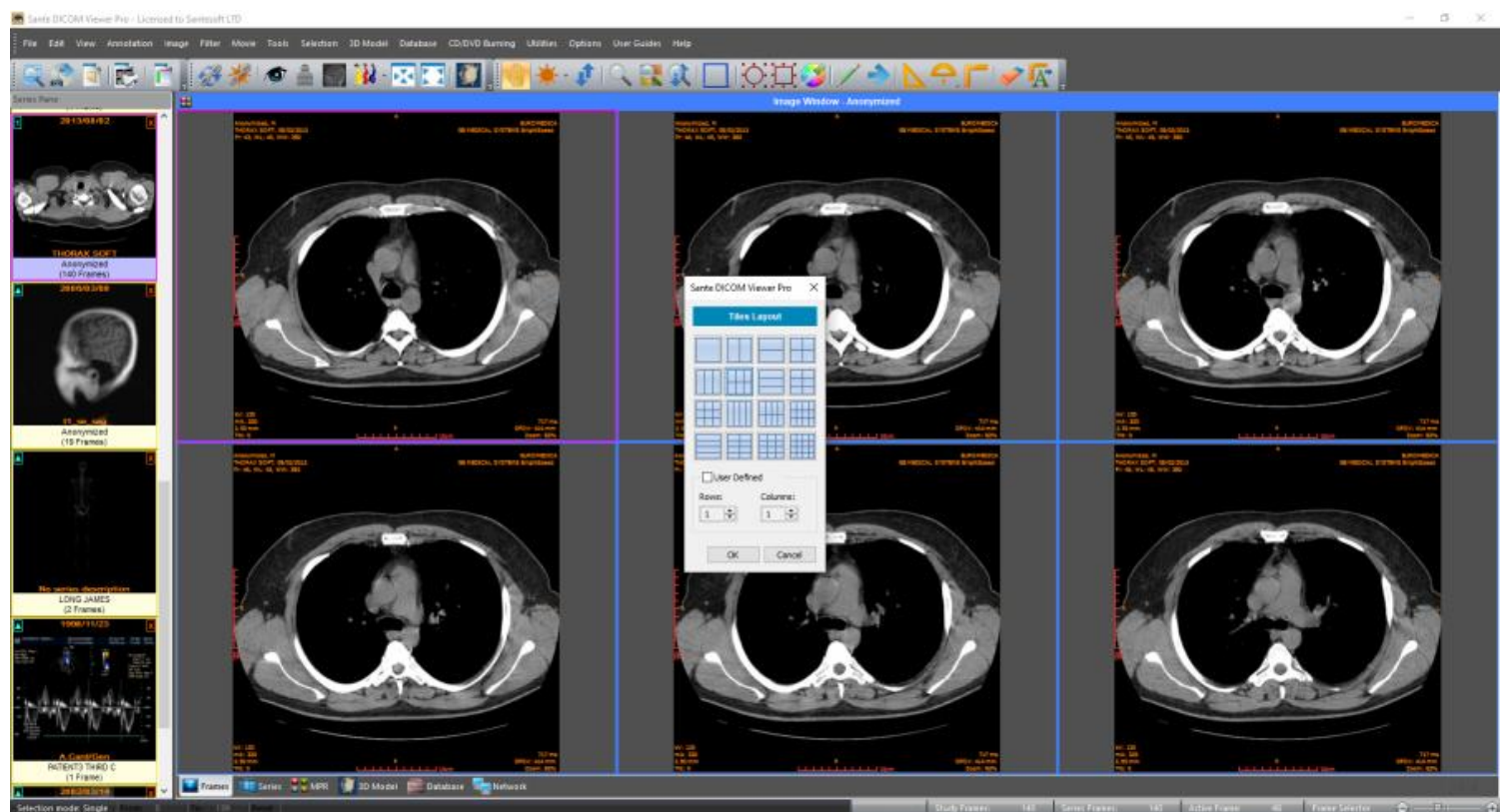
This pane displays thumbnails of the open series. Every series thumbnail has the patient name, the series description and the number of frames of the series.

4. Main window

The main window is the working area of the user. The main window displays the frames of the active series (Frame mode), or one frame of all the loaded series (Series mode).

The user can select the mode of the main window from the Frames/Series selection tab.

Every mode can have different number of tiles, and the user can select the number of tiles with the "Options  Tiles Layout" menu command.



5. Frames/Series/ MPR/3D Model/ Database/Network selection tab

If the tab "Frames" is selected the main window displays the frames of the active series (Frame Mode).

If the tab "Series" is selected the main window displays all the loaded series (Series Mode).

If the tab "MPR" is selected the main window displays the scout image/localizer and the axial/coronal/sagittal volumes of the series (MPR Mode).

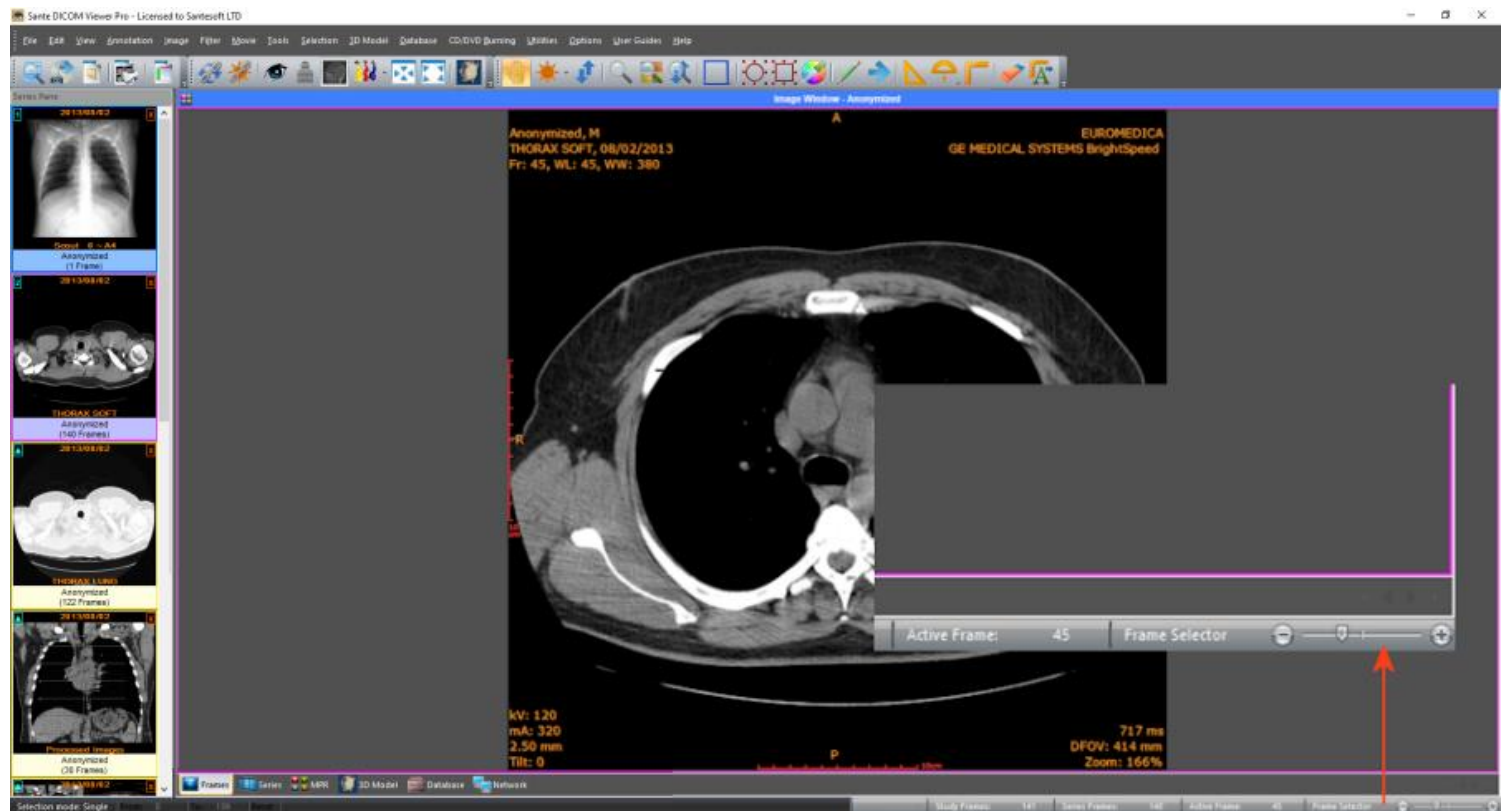
If the tab "3D Model" is selected the main window displays the 3D model of the active series.

If the tab "Database" is selected the main window displays the interface of the local database (Database Mode).

If the tab "Network" is selected the main window displays the interface that allows the user to query and retrieve series and studies from remote PACS server (Network Mode).

6. Frame selection slider

If the active series has many frames, this slider lets the user to select the active frame. Otherwise is disabled.



7. Frame range selection buttons

Processing, selection, annotation and zoom actions can work with the current image or with a range of images. Use these buttons to select the frame range for these actions.

By pressing the **"From"** button of the status bar, the current frame becomes the first frame of the range.

By pressing the **"To"** button of the status bar, the current frame becomes the last frame of the range.


By pressing the **"Reset"** button of the status bar, the frame range involves all frames of the multi-frame file or the multi-file series.

The user can set up the frame range with the menu command **"Edit → Set Frame Range"** as well.


The modes of the Main Window

The Main Window **(4)** is divided in tiles and it has four modes:

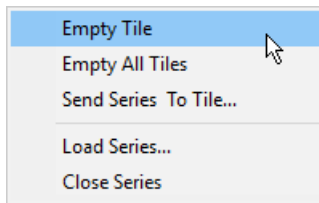
1. The **"Frames Mode"** that displays in its tiles the frames of the same series (the active series).

The user can select the number of the tiles with the **"Options  Tiles Layout"** menu command.

2. The **"Series Mode"** that displays in its tiles all the loaded in the main window series.

The user can select the number of the tiles with the **"Options  Tiles Layout"** menu command.

The active series is displayed in the "Series Mode" with a red rectangle around its tile (4). The user can select the active series by clicking its tile in the "Series Mode", or by single-clicking its thumbnail in the series pane. If a series is loaded in the main window, in the upper-left corner of its thumbnail is displayed the number of its "Series Mode" tile. If the user presses the right mouse button in a "Series Mode" tile, a pop-up menu appears and lets the user to empty the tile, empty all tiles, change the series tile, load another series to this tile and close the series that is loaded in this tile. This menu is not available in the "Frames Mode".



3. The **"MPR Mode"** that displays the scout image/localizer, the axial volume of the series and the volumes of the coronal and sagittal reconstructions of the series.

4. The **"3D Model Mode"** that displays a 3D model of the active series.

5. The **"Database Mode"** that allows the user to query and retrieve series and studies from the local database.

6. The **"Network Mode"** that allows the user to query and retrieve series and studies from remote PACS servers.

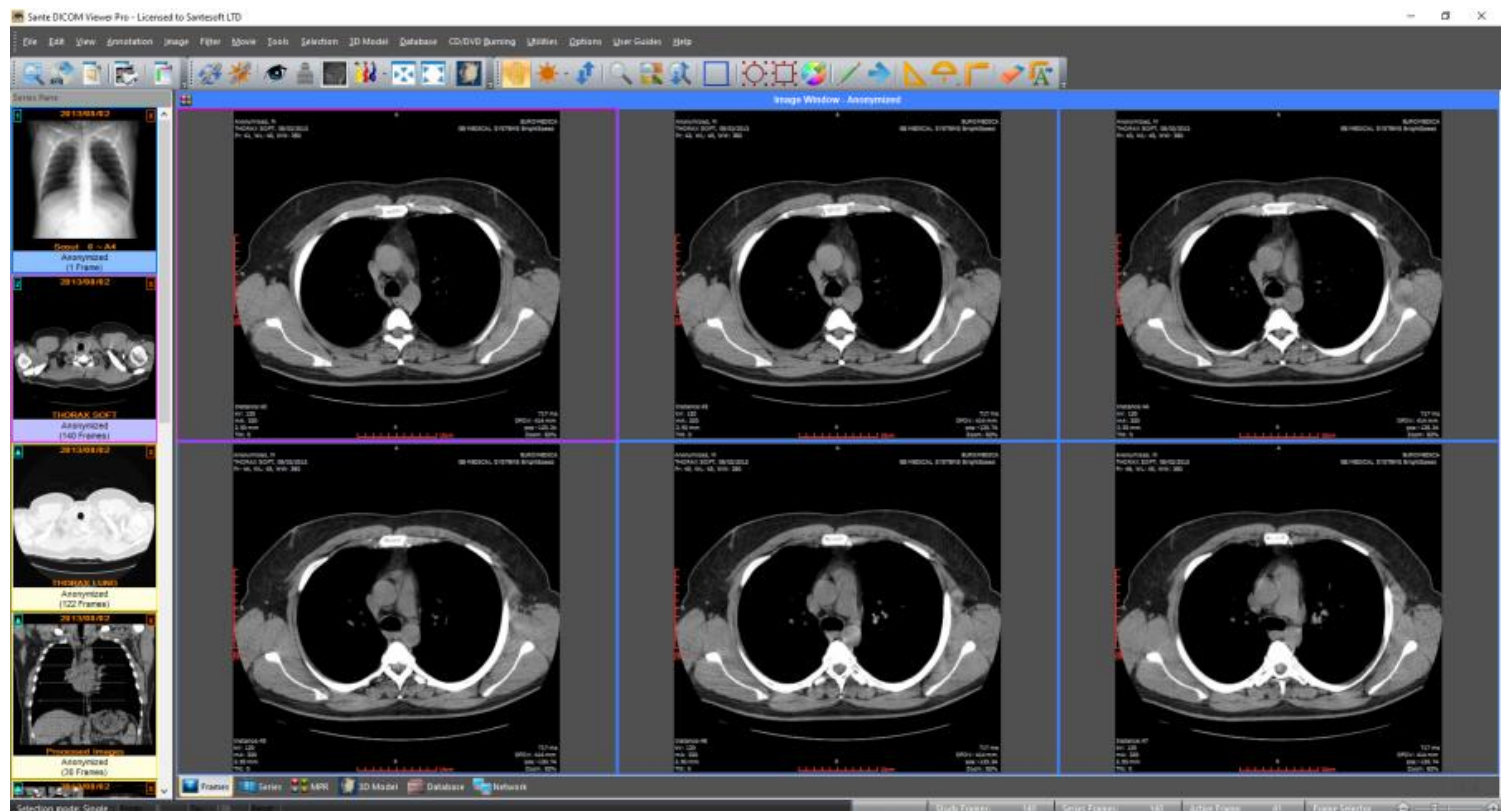
The main window in the frame mode (one tile)

Displays one frame of the active series. The number of the tiles is selectable by the user.



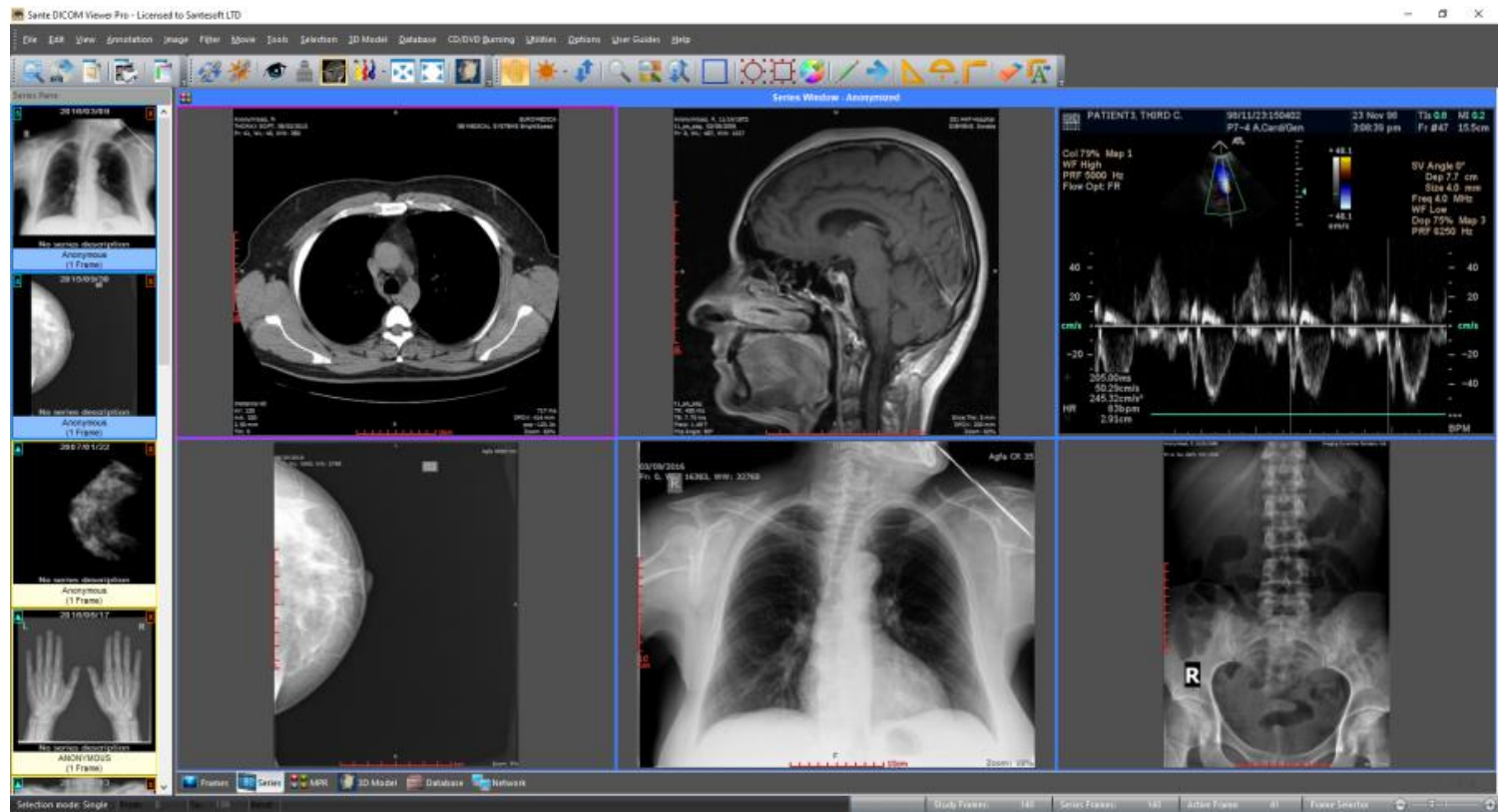
The main window in the frame mode (six tiles)

Displays six frames of the active series. The number of the tiles is selectable by the user. The active frame has a **red rectangle** around its tile.

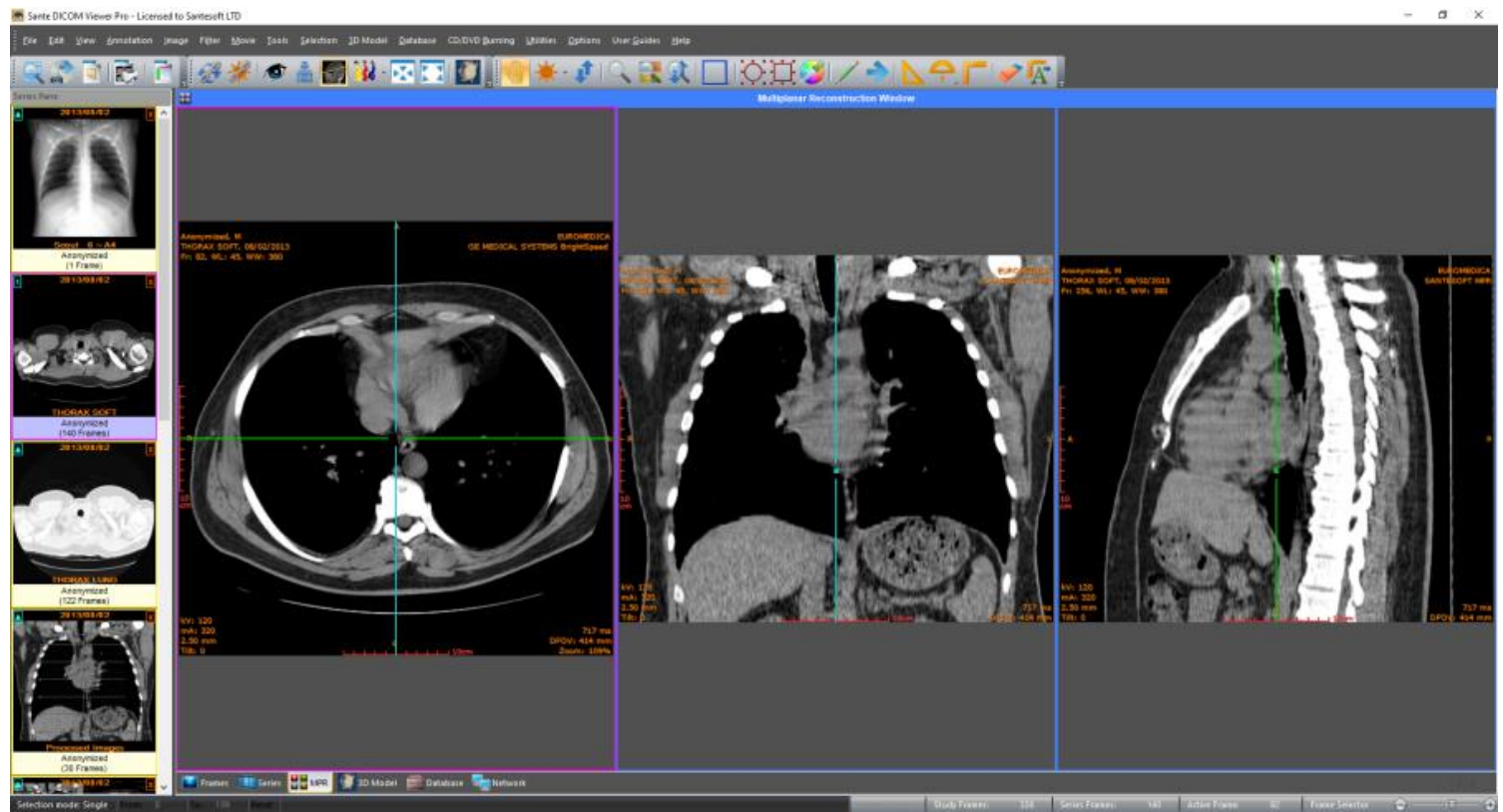


The main window in the series mode (six tiles)

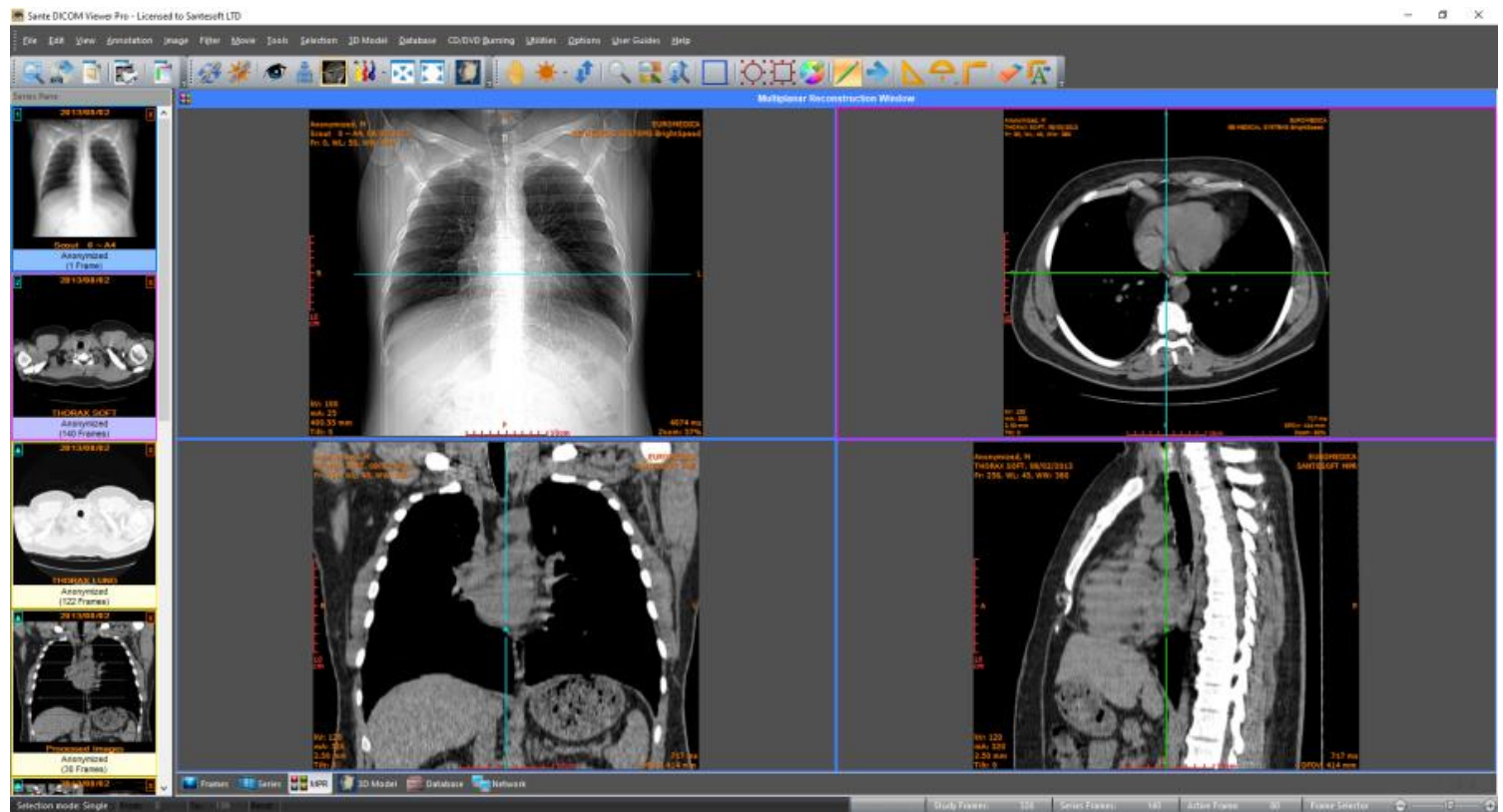
Displays up to six different series. The number of the tiles is selectable by the user. The active series has a **red rectangle** around its tile.



The main window in the MPR mode (3 tiles view)



The main window in the MPR mode (4 tiles view)



The main window in the Database mode
Displays the contents of the integrated database.

Search Database

Study date from: 6/18/2022
Study date to: 6/18/2022
Last 7 days: 6/18/2022
Search All Search Dates

Search Criteria (Optional)

Patient Name: Patient ID:
Date of birth: Patient Sex: All Unread Studies
Accession Number: Institution Name:
Referring Physician: Clear Fields

Modality Filter

☐ CT ☐ HR ☐ US ☐ MR ☐ NA ☐ CR ☐ MG ☐ SC ☐ OF ☐ PF

Patients

Patient #	Patient Name	Patient ID	Sex	Birth Date	Studies	Path
1	ANONYMOUS	2849	M	1911/01/01	1	
2	ANONYMOUS	5685	M	1911/01/01	1	
3	ANONYMOUS	84988R			1	
4	ANONYMOUS	940000002	F	1944/01/01	1	
5	DEMO IMAGE	497362936	F	1936/11/06	1	
6	PATIENT1 FIRST	1403039147			1	
7	PATIENT1 FIRST A	67-98-87	M	1975/03/15	1	
8	PATIENT7	9000007	M	1970/01/01	1	

Studies

Study #	Patient Name	Patient ID	Institution	Referring Physician	Accession Number	Study ID	Study Date	Study Time	Study Description	Modalities	Series	Status
1	ANONYMOUS	2849	GEN-HOSP LAB...			3840000	1999/06/11	13:19:12	SPINE C-TH	MR	1	Unread

Right Sidebar:

Patient

- Open Patient
- Export / Create CD/DVD...
- Create Zip File...
- Send to C-STORE...
- Copy To Folder...
- Open Patient Folder...
- Find All Patient Studies
- Delete Patient

Studies

- Open Study
- Export / Create CD/DVD...
- Create Zip File...
- Copy To Folder...
- Send to C-STORE...
- Attach PDF File To Study...

Series Of Study

Delete Study

View All Series Of Study

The main window in the Network mode

Search DICOM Node

Study date from: 5/21/2022
Study date to: 5/21/2022
Last 7 days: 5/21/2022
Search All Search Dates

DICOM Node To Query And Retrieve

AC Title: SANTEPRV1 Echo Details...

Modality Filter Of Studies

☐ CT ☐ HR ☐ US ☐ MR ☐ NA ☐ CR ☐ MG ☐ SC ☐ OF ☐ PF

Search Criteria (Optional)

Patient Name: Patient ID:
Date of birth: Patient Sex: All Unread Studies
Accession Number: Institution Name:
Referring Physician: Clear Fields

Studies

Study #	Patient Name	Patient ID	Sex	Birth Date	Institution	Accession Number	Study ID	Study Date	Study Description	Modalities	Files
0001	HE-BRAIN-GRASE 0204	7	M	1911/01/01	OTHE-HAS		191	1995/01/08	BRUSH	MR	1
0002	CT PHANTOMS	8022466	M		UC DAVIS PHAG...		3632	1996/04/11	SCOUT PHANTOMS	CT	87
0003	PATIENT1 FIRST A	67-98-87	M	1975/03/15	GEN-HOSP LAB...	W SCALING	91183295	1998/11/23		US	1
0004	ANONYMOUS	2849	M	1911/01/01	GEN-HOSP LAB...		3840000	1999/06/11	SPINE C-TH	MR	1
0005	CT Auto-Scout Example	320996329409	M	1999/12/13	Pfizer CT			1999/06/13		CT	93
0006	WED #2 ONLY MINIMUM	90-03-29 115116			Merck in contrib	NONE	10	2000/03/29		US	1
0007	PATIENT7	9000007	M	1970/01/01	Heart Scan Hos...	000000007		2001/01/08	Bone SPECT	OT	1
0008	ANONYMOUS	84988R			JEtaTaxLab(S...		1403030290114	2002/03/14		XA	1
0009	DEMO IMAGE	497362936	F	1936/11/06	SCHNET		2e352956-a938...	2007/01/03	Carotid	US	1
0010	ANONYMOUS	940000002	F	1944/01/01		21940021	4988	2004/01/22	ABDOMEN (DIP)	CR	1
0011	ANONYMOUS	7801492	D	1982/12/29	CHC	0032H	PAL	2011/12/18	PAL	DO	1
0012	ANONYMOUS	94000001	D	2001/08/05	HILL	0649C	BW2	2012/03/19	BW2	DO	1
0013	ANONYMOUS	5685	M	1911/01/01	EUROMEDICA		5685	2013/08/02	THORAX	CT/SR	186
0014	ANONYMOUS	5685	M	1911/01/01	EUROMEDICA		5685	2013/08/02	THORAX	CT	141
0015	BEPSY TEST	20158821_02	D		KSS			2015/08/21		US	1
0016	PATIENT1 FIRST	1403039147			EUROMEDICA F...		227	2016/02/09	ESOPHAGUS	CR	1
0017	TEST		D		HEART CENTRA...		20230129-0729	2021/01/29		SR/US	18
0018	ANONYMOUS	900000001	F	1970/01/01	THERAPIS		250472105380...	2021/05/18	CHEST	DX	1
0019	ANONYMOUS	900000001	F	1970/01/01	THERAPIS		250472107980...	2021/07/06	CHEST	DX	1
0020	ANONYMOUS	900000001	F	1970/01/01	THERAPIS		250472107980...	2021/07/08	CHEST	DX	2
0021	ANONYMOUS	900000001	F	1970/01/01	THERAPIS		250472107980...	2021/07/06	CHEST	DX	1
0022	ANONYMOUS	900000001	F	1970/01/01	THERAPIS HCS...		104873	2021/01/21		CT	1431
0023	ANONYMOUS	900000001	F	1970/01/01	THERAPIS HCS...		105688	2021/05/18	BRAIN-L-SPINE-PELVIS	CT	1015
0024	ANONYMOUS	900000001	F	1970/01/01	Theraps Gen M...		012212442925	2021/01/22	Renal	US	4
0025	ANONYMOUS	900000001	F	1970/01/01	Theraps General		012330242825	2021/01/29	Venous	US	11

Right Sidebar:

Retrieve Files

- C-GET Retrieve Protocol
- Retrieve Study
- Send PDF Report To Server
- Attach PDF File To Study...

Options

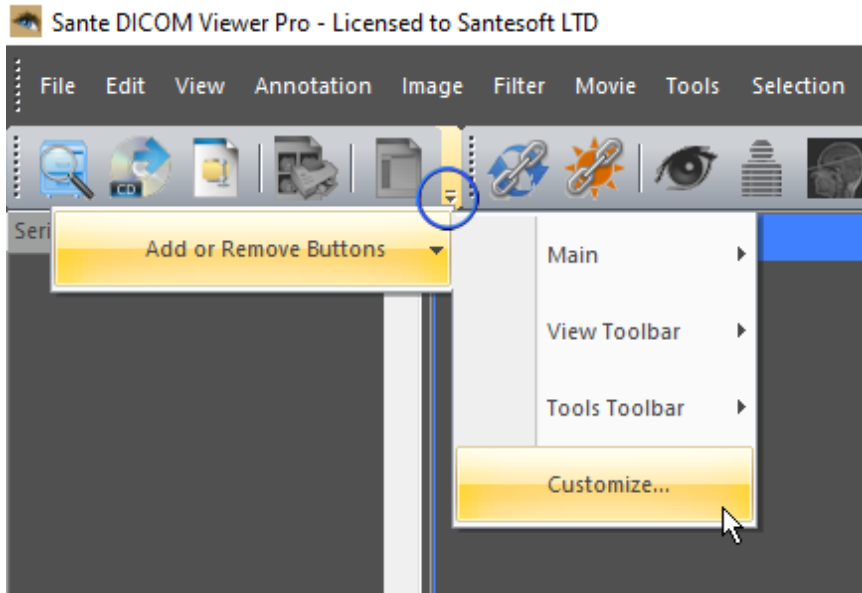
- Show Series List
- Open files when retrieved
- View Network Job Queue

Network Activity

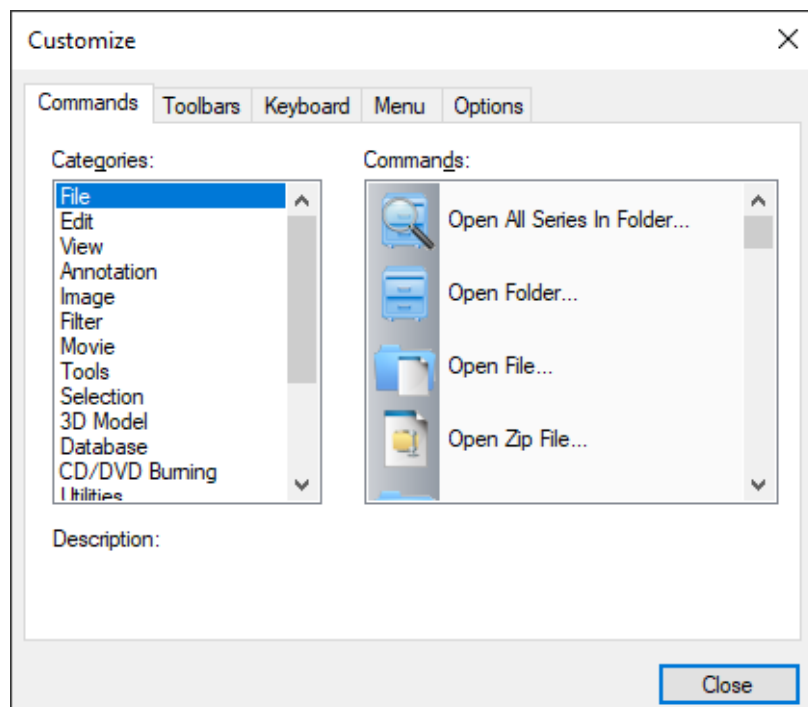
ID	Service	Peer	Action
----	---------	------	--------

Customize the toolbars

The program allows the users to add and remove toolbar buttons, so it fits their tastes and preferences. Any toolbar can be quickly customized with the "Add or Remove Buttons" submenu available from the chevron button when it is docked or with a special button in the toolbar caption when it is in the floating state.



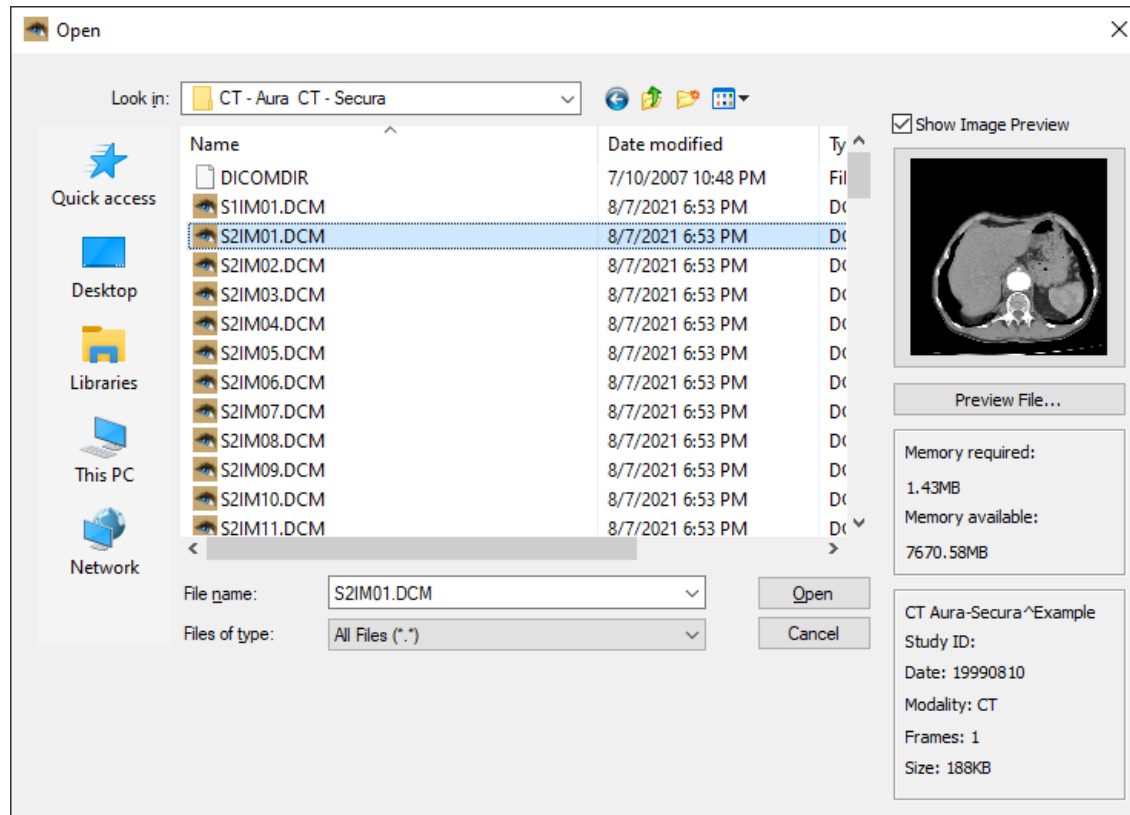
By selecting the menu item "**Customize**" a dialog box appears and allows the user to drag-and-drop buttons from the dialog box to any toolbar. It allows also the user to drag buttons out of a toolbar, in order to remove them.



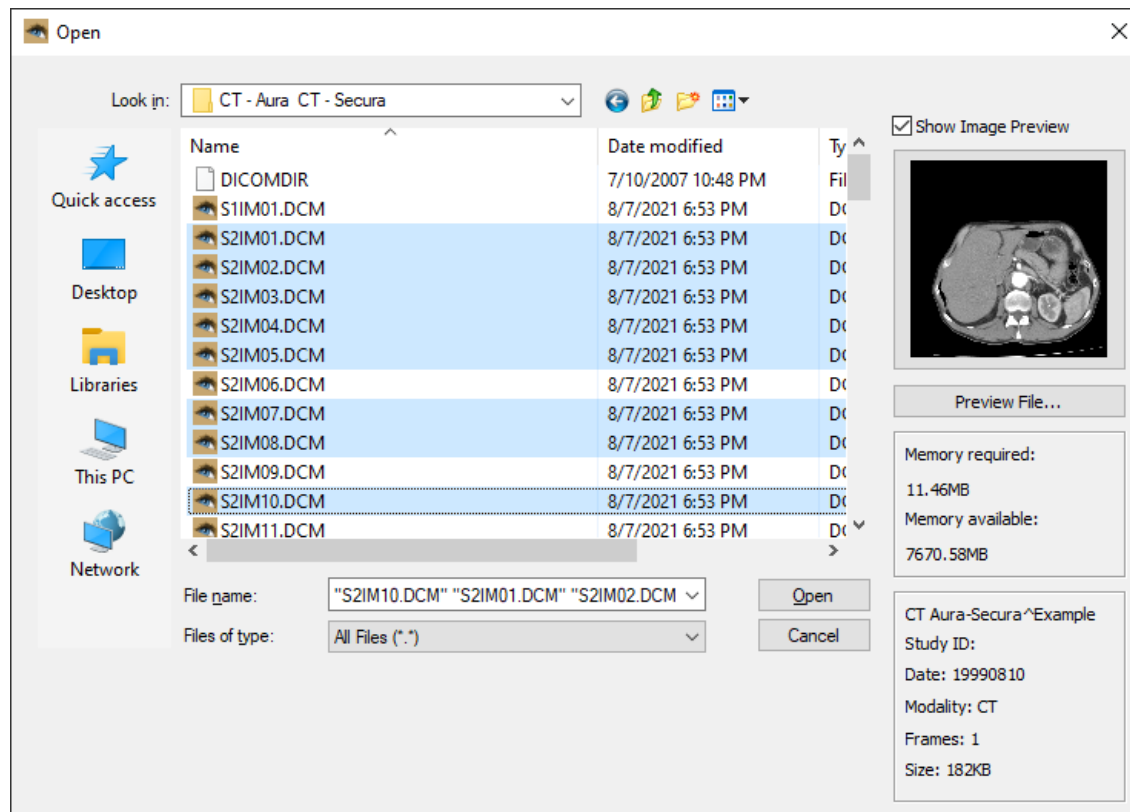
Open a file

To open a file, use the menu command **"File → Open → Open File"**.

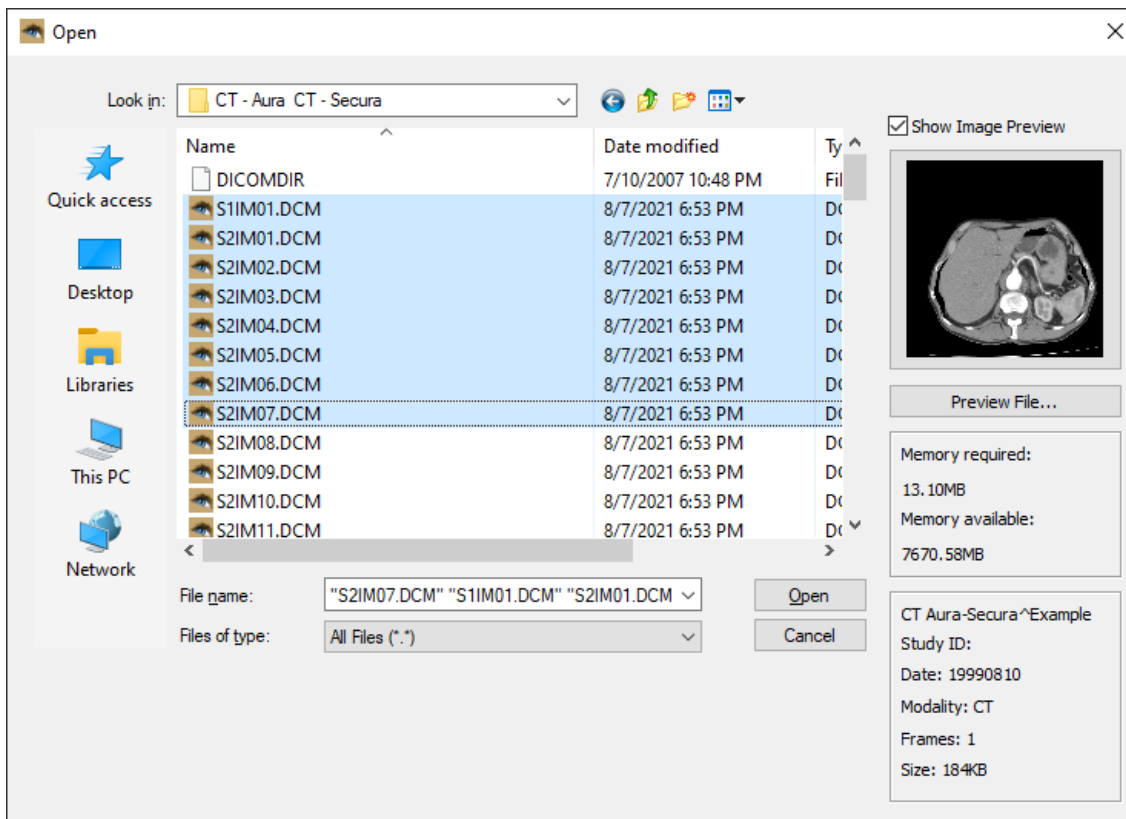
A dialog box appears and allows you to select the desired file:



To select many files, press and hold down the **<Ctrl>** key of the keyboard and select the files.

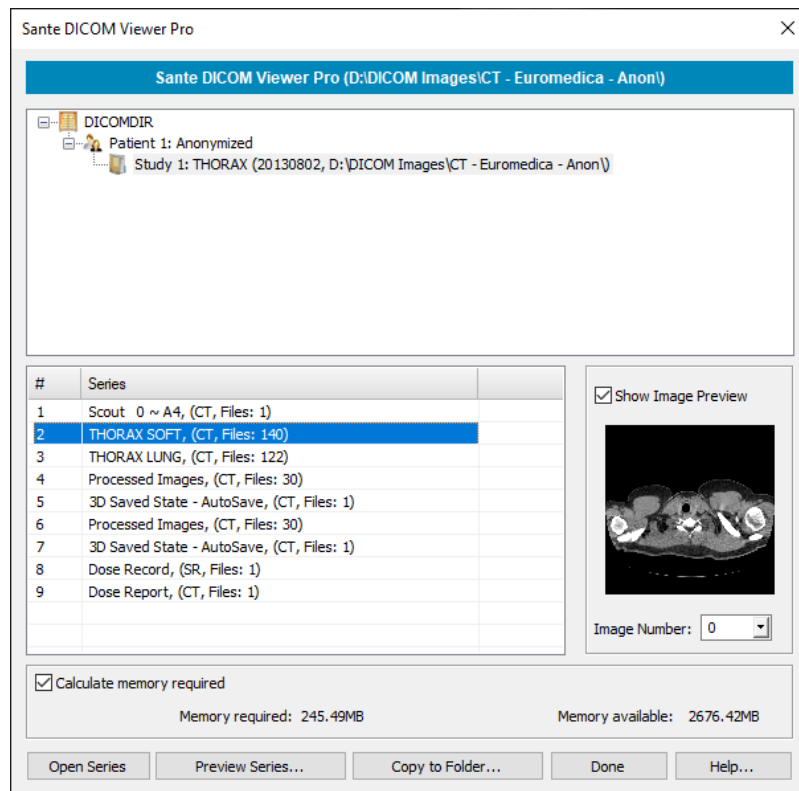


To select many sequential files, press and hold down the **<Shift>** key of the keyboard and select the first and the last file of the sequence.

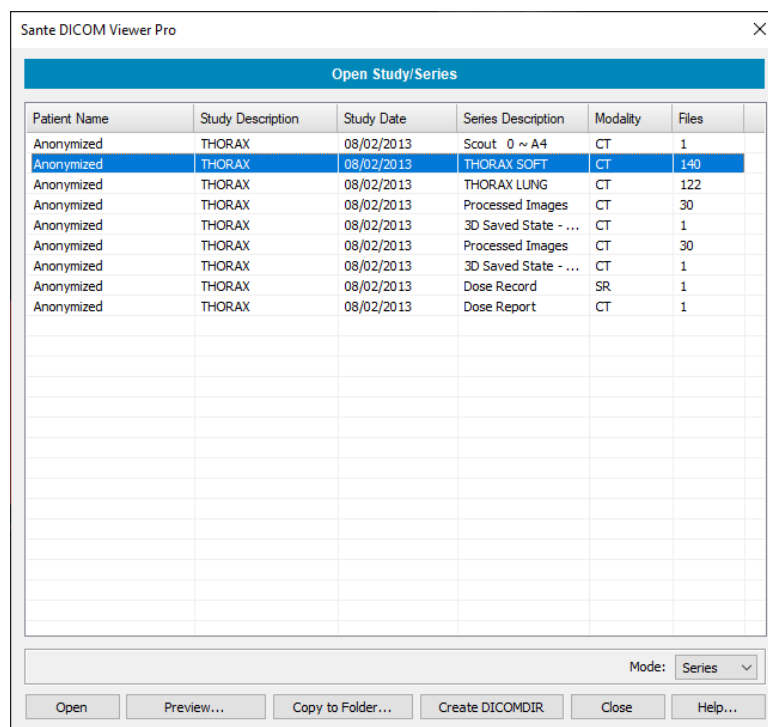


Open a series

To open a series, you need a DicomDIR file. If you don't have a DicomDIR file, you can use the menu command **"File ➤ New DicomDIR"** to create one. Use the menu command **"File ➤ Open ➤ Open Series"** and select the DicomDIR file. A dialog box appears and allows you to select the desired series. To select many series, press and hold down the <Ctrl> key of the keyboard and select the series.






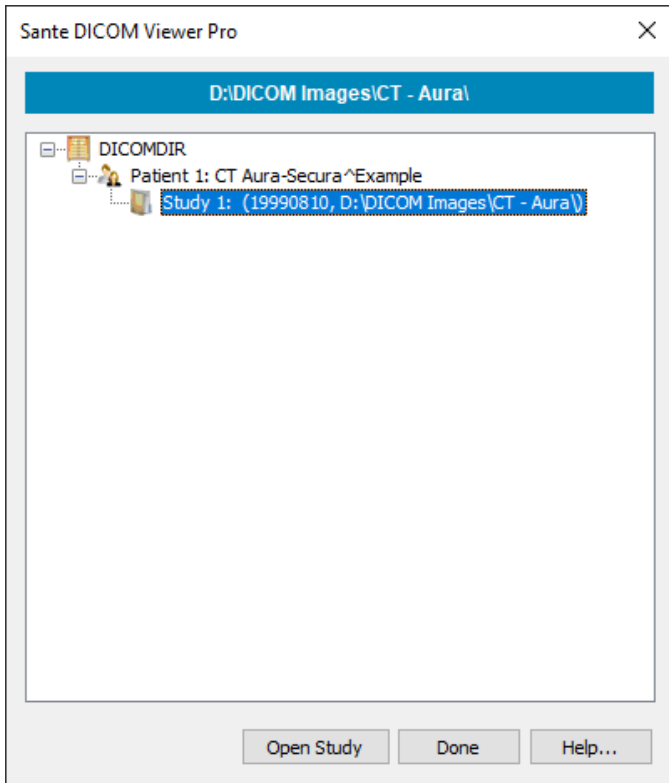
If you don't have a DicomDIR file, you can also use the menu command **"File ➤ Open ➤ Open Folder"**. The program scans the selected folder, finds the DICOM files and organizes them to studies and series, and allows you to select a series to open.



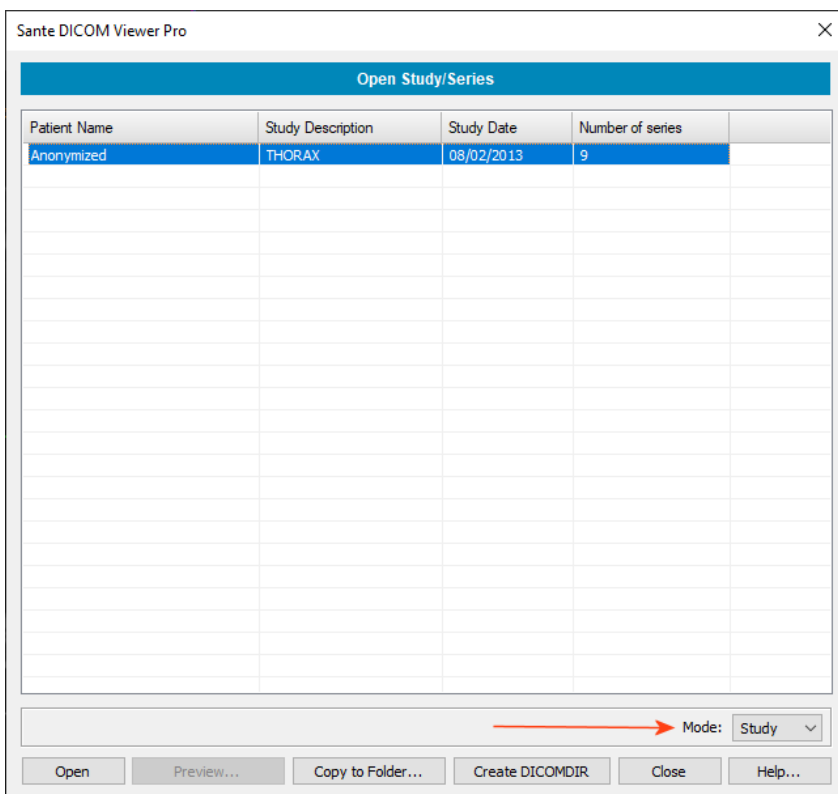
Please note that the mode in this dialog box must be set to "Series".

Open a study

To open a study, you need a DICOMDIR file. If you don't have a DICOMDIR file, you can use the menu command **"File  New DICOMDIR"** to create one. Use the menu command **"File  Open  Open Study"** and select the DICOMDIR file. A dialog box appears and allows you to select the desired study. The program opens all the series of this study.



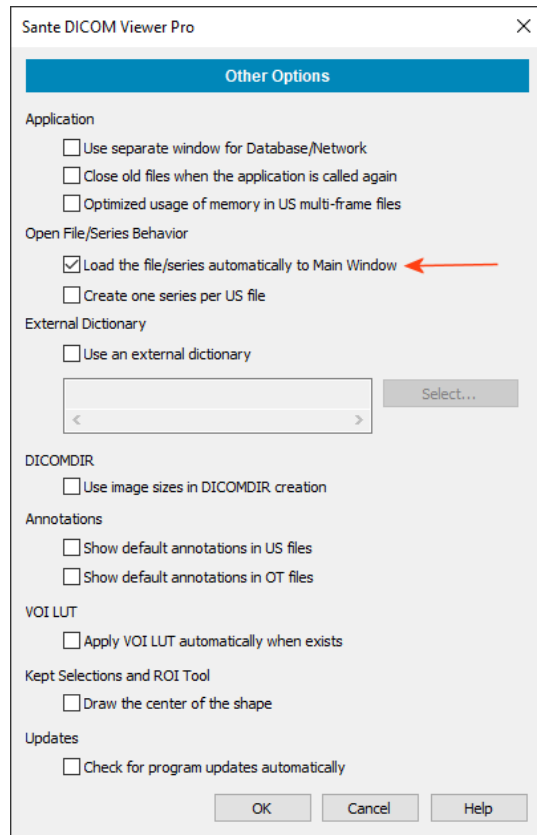
If you don't have a DICOMDIR file, you can use the menu command **"File ➤ Open ➤ Open Folder"**. The program scans the selected folder, finds the DICOM files and organizes them to studies and series, and allows you to select a study to open.



Please note that the mode in this dialog box must be set to "Study".

Load a series to the main window

The program automatically loads the open series to main window. If you wish to change this behavior, select the menu command **"Options → Other Options"** and uncheck the checkbox **"Load the file/series automatically to Main Window"**.

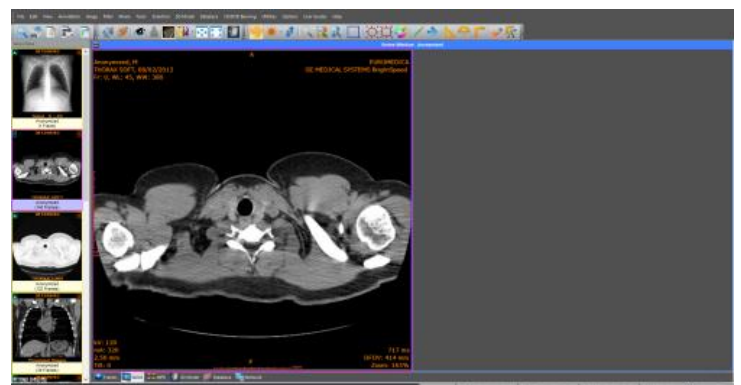
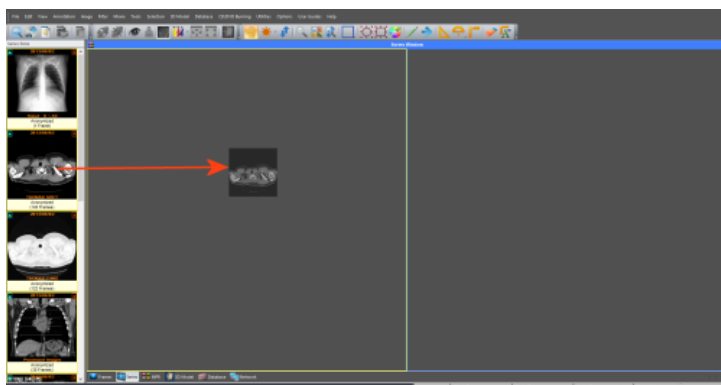


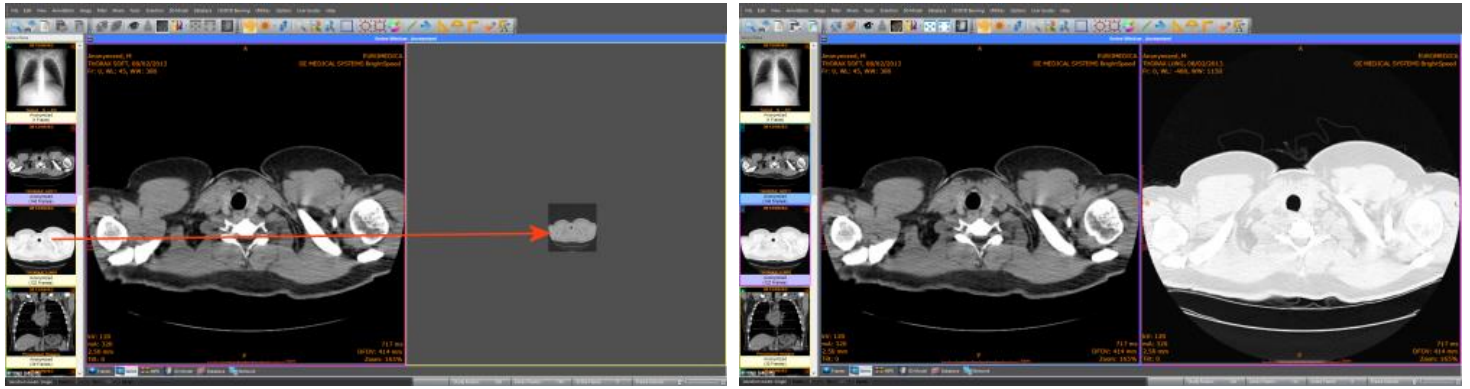
To load a series to the main window, use one of the following methods:

1. Double-click the series thumbnail in the Series Pane (3).
2. Click the green rectangle in the upper left corner of the series thumbnail in the Series Pane (3).



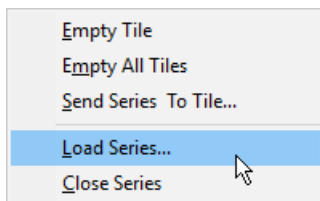
3. Use the "drag-and-drop" operation in the Frame Mode, Series Mode or MPR Mode.





With the "drag-and-drop" in the Series Mode, you can select the tile for every series, thus you can have your series in the desired order. If the destination tile contains already a series, the program replaces the old series with the new one.

4. In the Series Mode, press the **right** mouse button over the desired tile. A pop-up menu appears and allows the user to load a series in the tile.



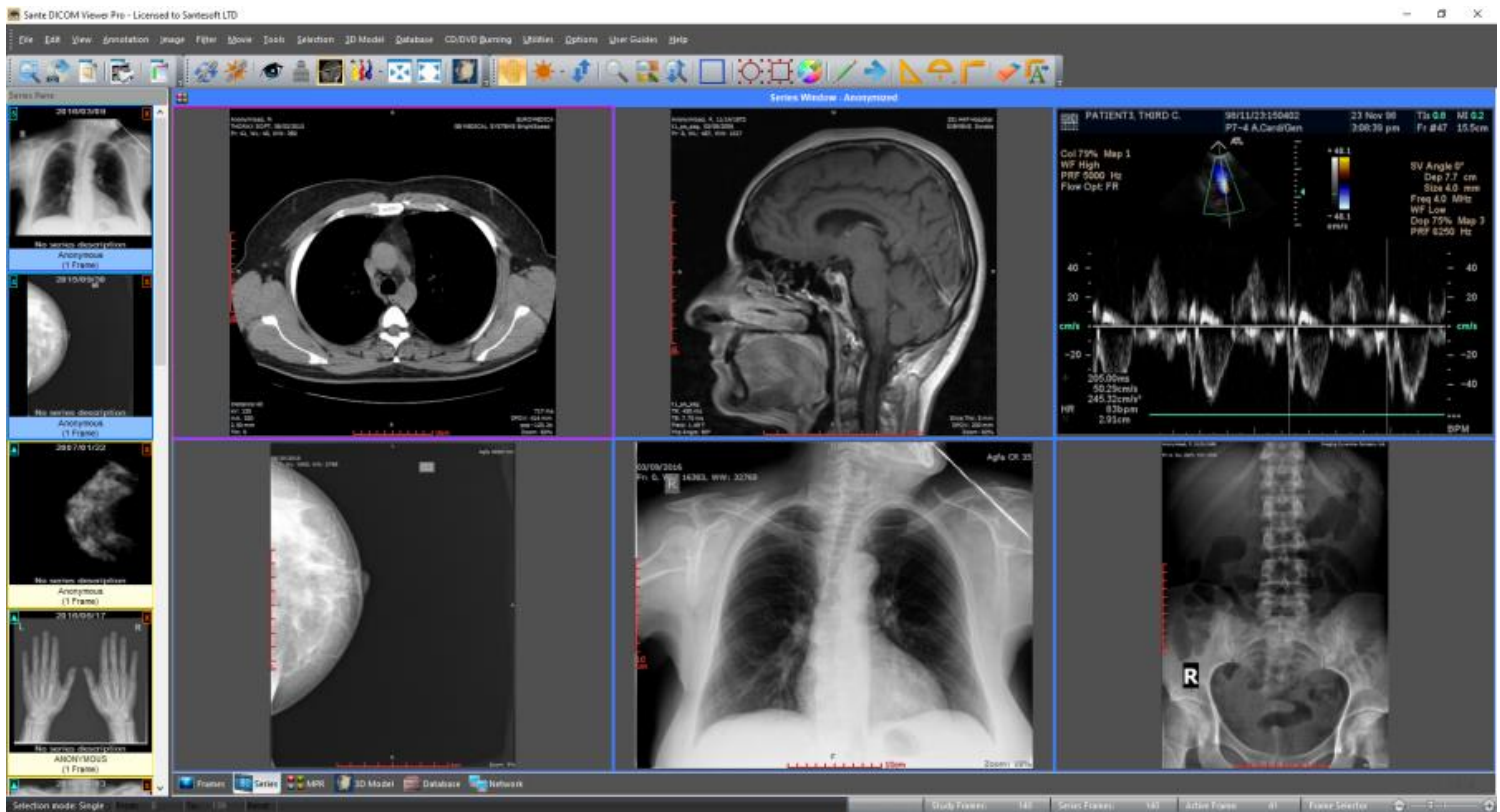
This menu is not available in the other modes.

Set the active series

1. Click the series thumbnail of an open series in the Series Pane (3).

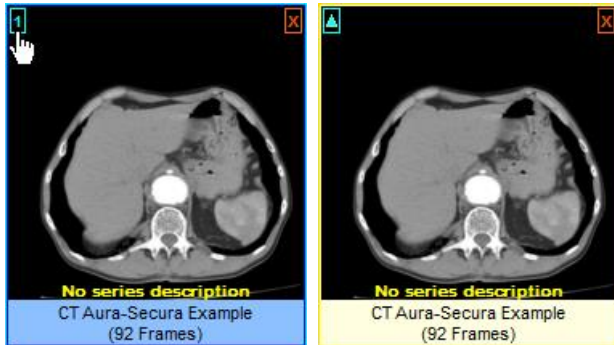


2. In the Series Mode, press the **left** mouse button over the desired series. The series becomes active and it has a **red rectangle** around its tile.

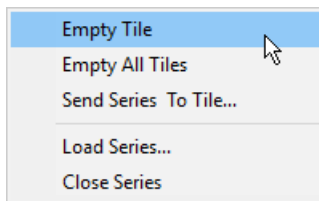


Unload a series from the main window

1. In the upper left corner of the loaded series thumbnail in the Series Pane **(3)** is displayed a number. This number indicates the tile of the Main Window in the **Series Mode** in which this series is loaded. Click this number to unload the series from the Main Window. The series remains in the memory and its thumbnail becomes yellow.



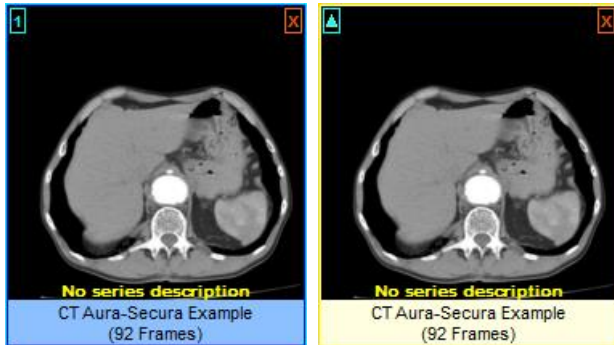
2. In the Series Mode, press the **right** mouse button over the tile of the desired series. A pop-up menu appears and allows the user to unload the series and empty the tile.



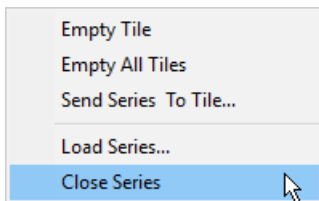
This menu is not available in the other modes.

Close a series

1. To close the active series select the menu command "**File ➔ Close**"
2. To close all the series, select the menu command "**File ➔ Close All**"
3. To close a selected series, press the red **x** button in the upper right corner of its thumbnail in the series pane (**3**).



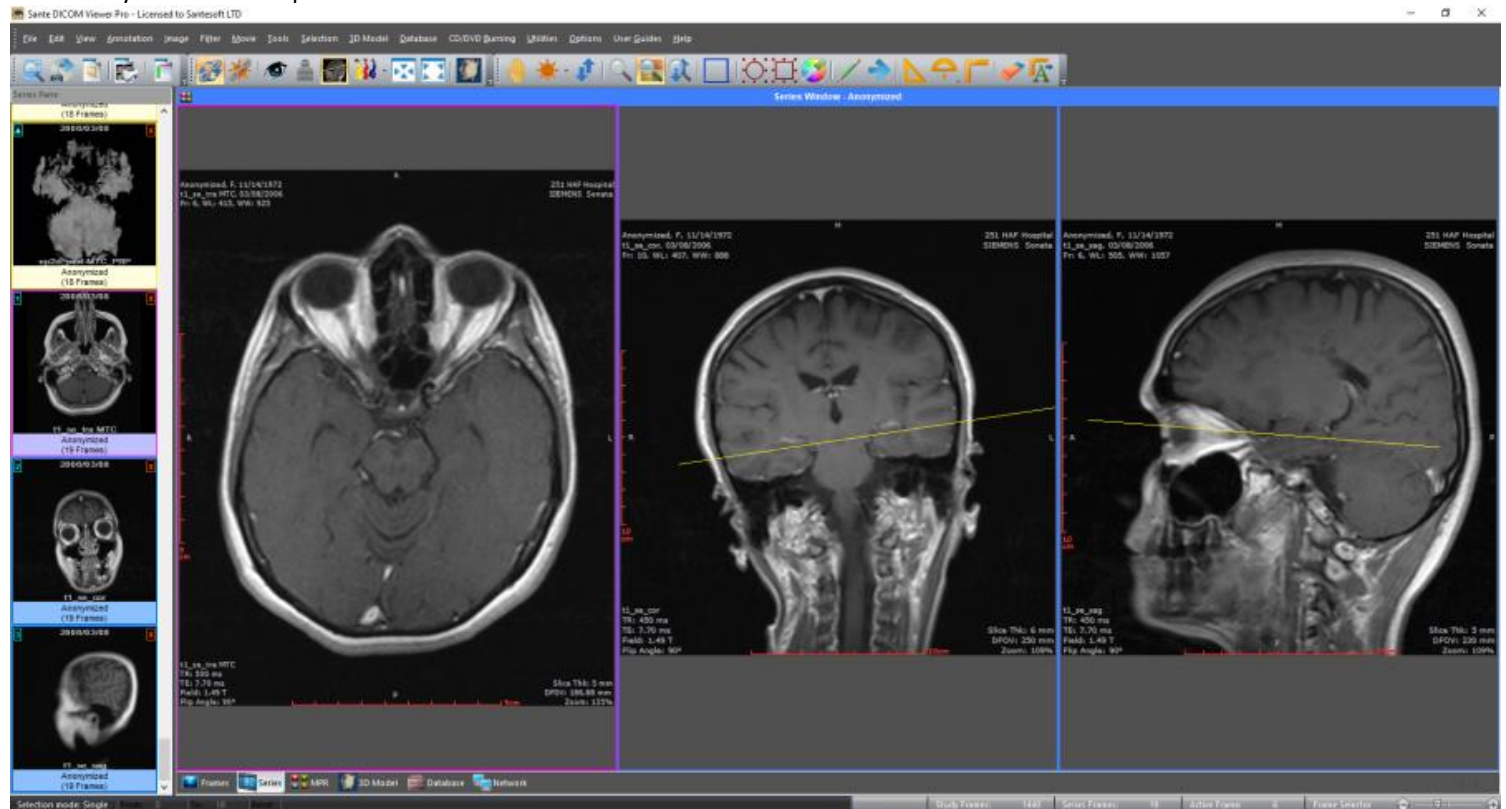
4. In the Series Mode, press the **right** mouse button over the tile of the desired series.
A pop-up menu appears and allows the user to close the series, free the memory and empty the tile.



This menu is not available in the other modes.

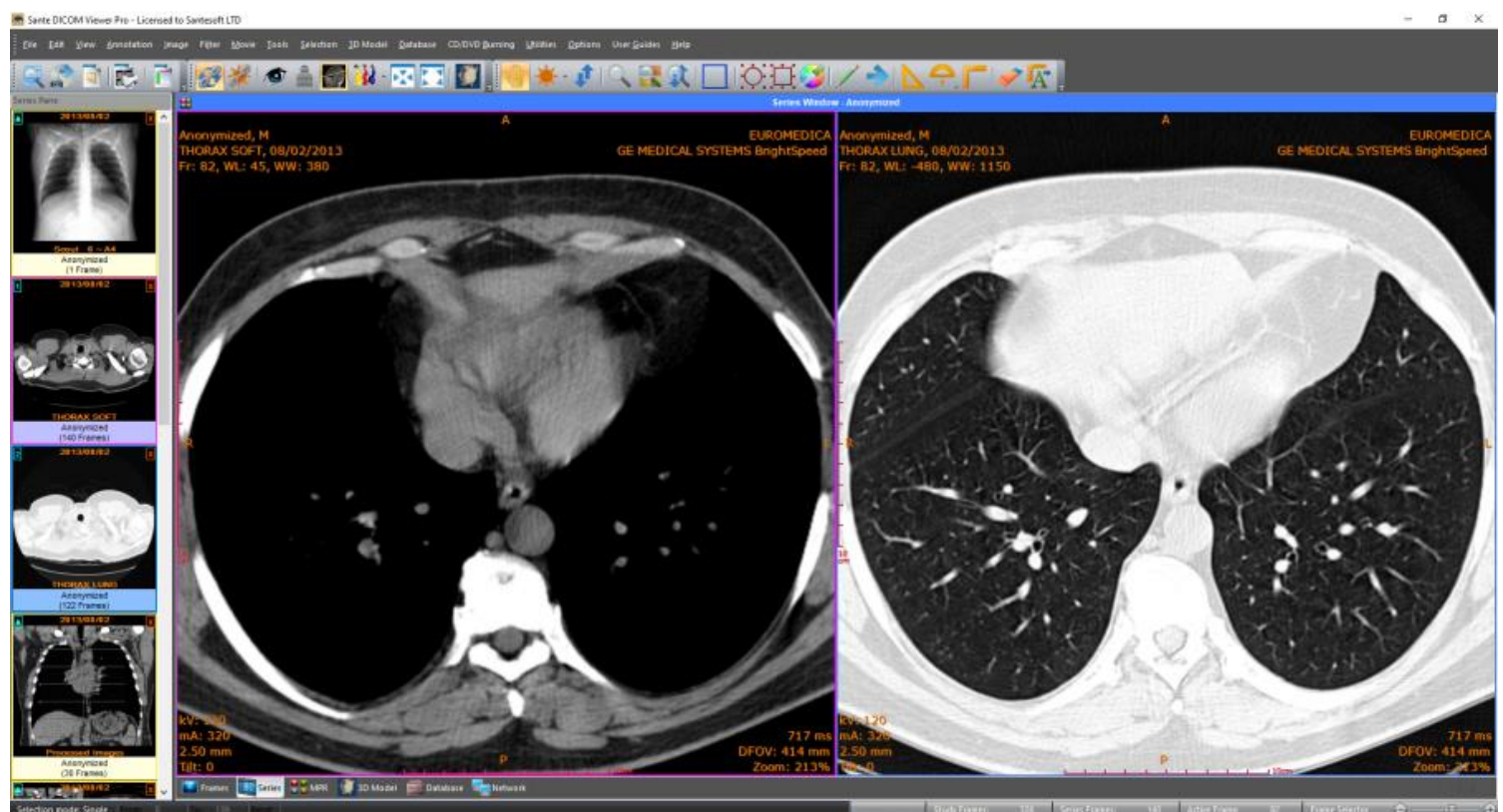
The Series Mode

The **"Series Mode"** can display one or more series. It displays the cross reference lines between the series, if the series belong to the same study and the same patient.



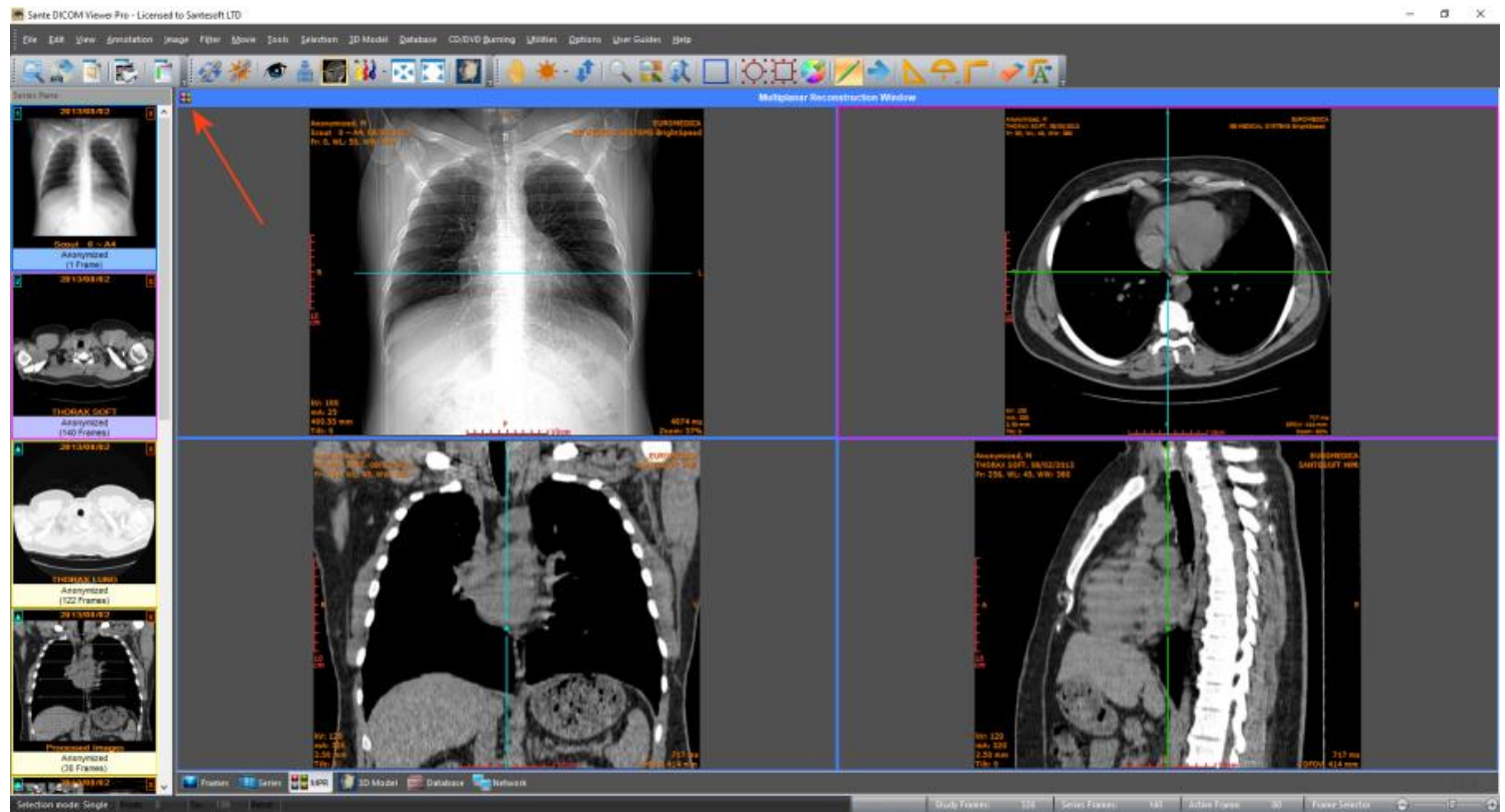
The user can use this mode to compare series, the program provides all the necessary tools for this purpose:

1. Use the menu command **"View → Synchronized Series Frames"** to force the program to display the same frame of all the series (the series must have the same orientation).
2. Use the menu command **"View → Synchronized Series Level-Window"** to force the program to display the images of all the series with the same level-window values.
3. Use the menu command **"View → Synchronized Field of View"** to force the program to display the images with the same field of view.

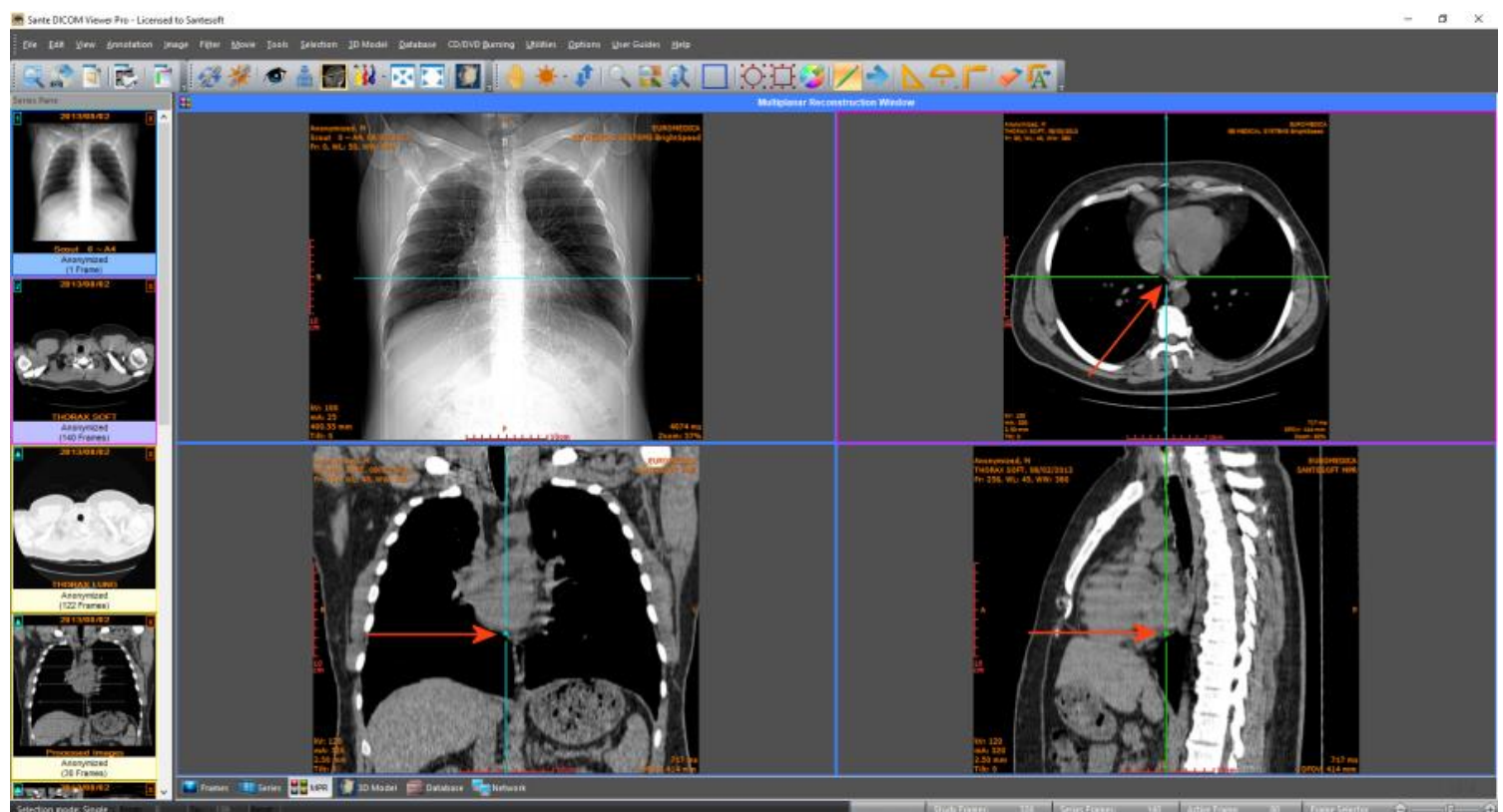


The MPR Mode

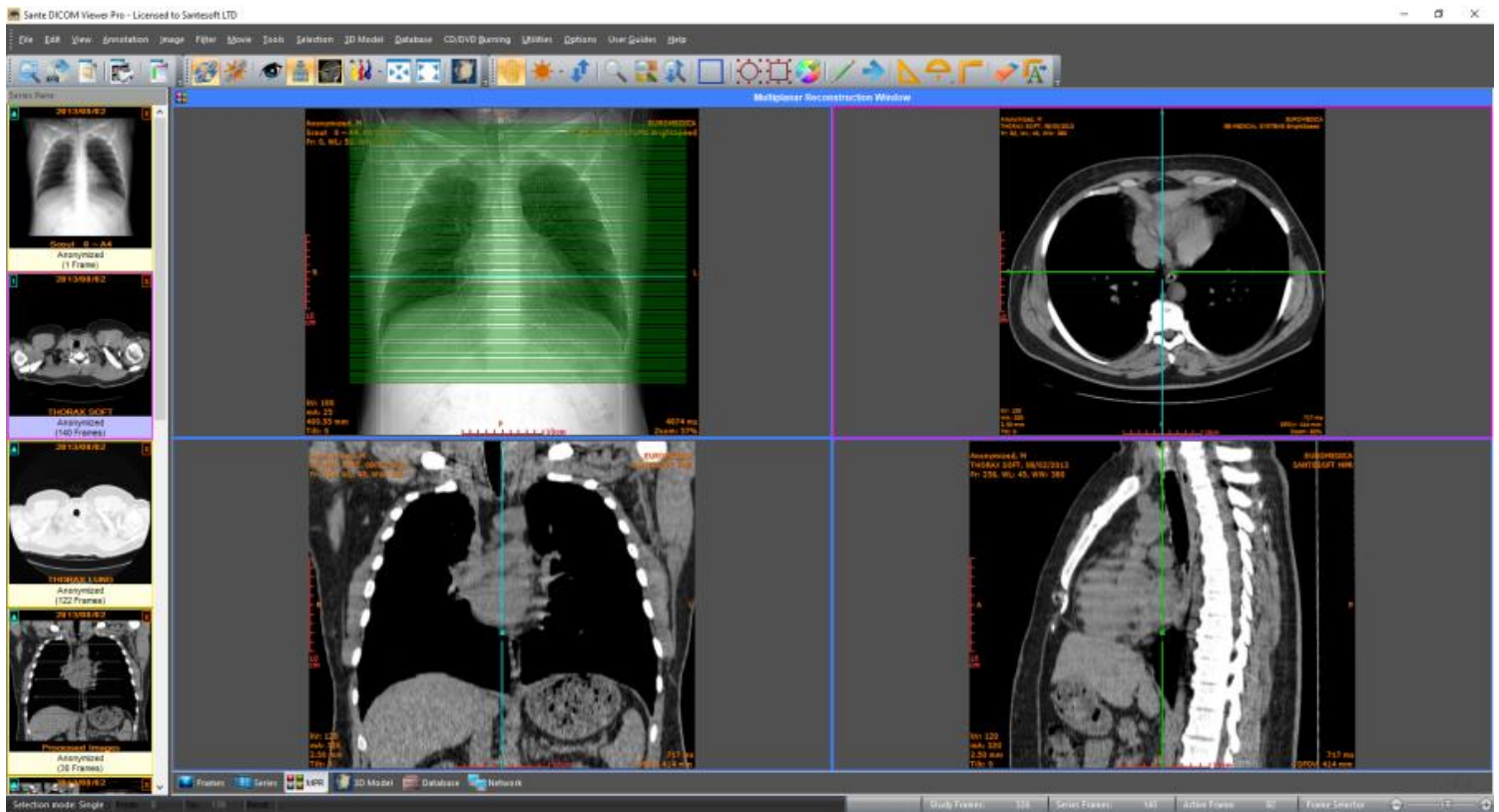
The MRR window can display three or four tiles. The user can switch between the three and four tiles with the button in the upper left corner of the window.



In the three tiles, the **"MPR Mode"** displays the axial series and the coronal and sagittal reconstructions of the series. In the four tiles, the **"MPR Mode"** displays the scout image/localizer, the axial series and the coronal and sagittal reconstructions of the series. The user can move the cross reference lines in the axial, coronal and sagittal frames from the points that are indicated in the image below:

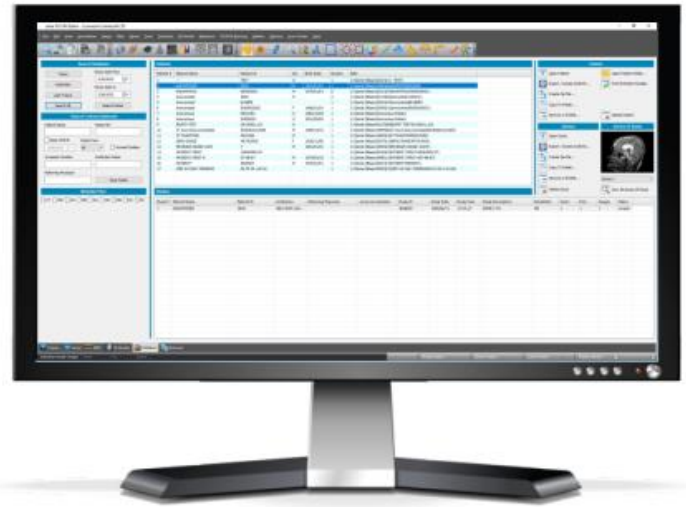


The program displays in the scout image/localizer the cross-reference lines of all the axial frames, if the menu command **"View All Localizer Lines"** is selected.

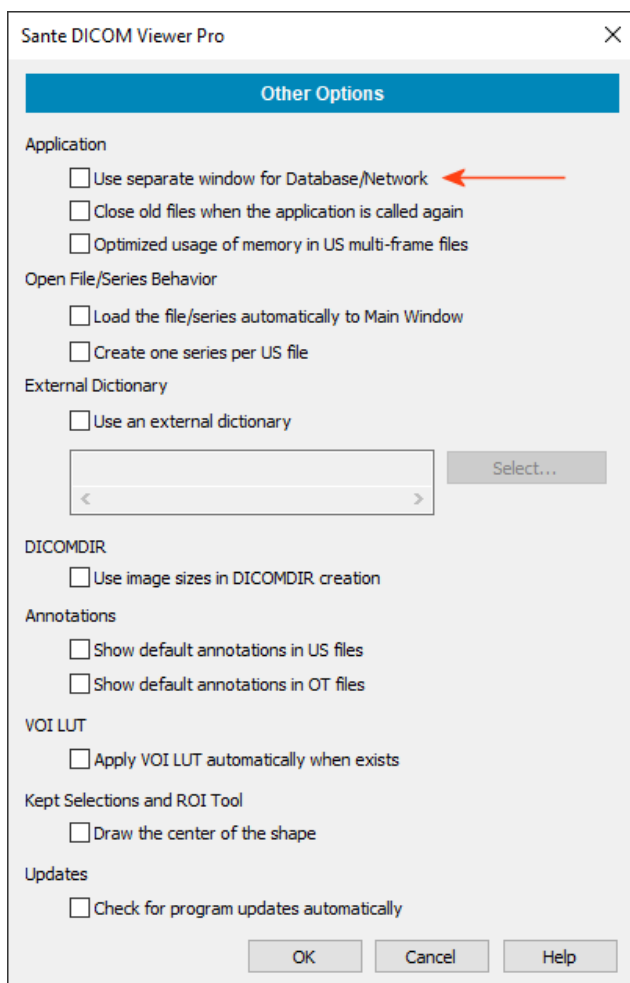


Dual monitor configuration

The program can display all the views (Frame/Series/MPR/Database/Network) in a single window or display the image views (Frame/Series/MPR) in one window and the Database/Network views in another.



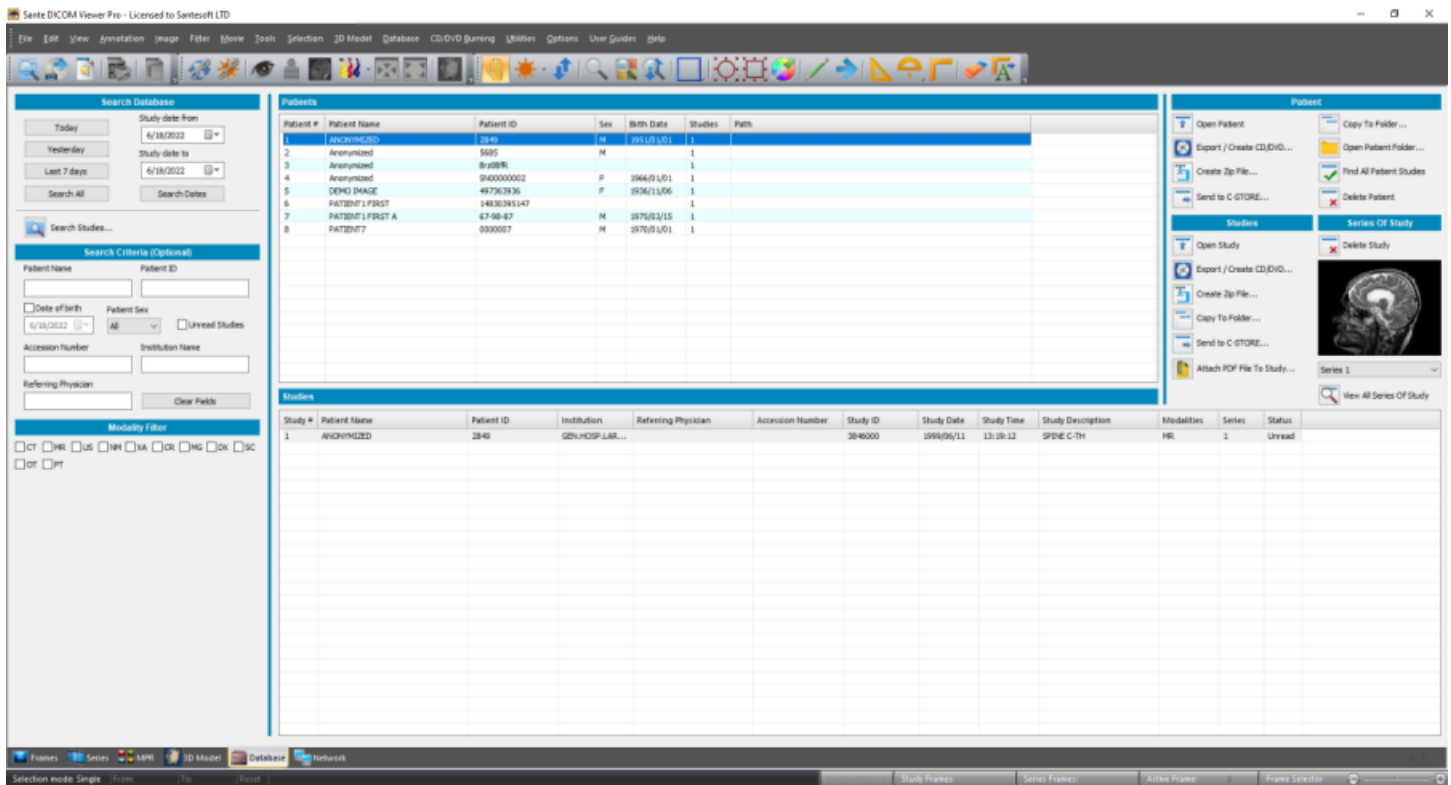
- To enable the dual monitor feature:
- Select the menu command "**Options->Other Options**"
- In the dialog box below check the option "**Use separate window for Database/Network**"



- Restart the application for the changes to take effect.

The Database Window

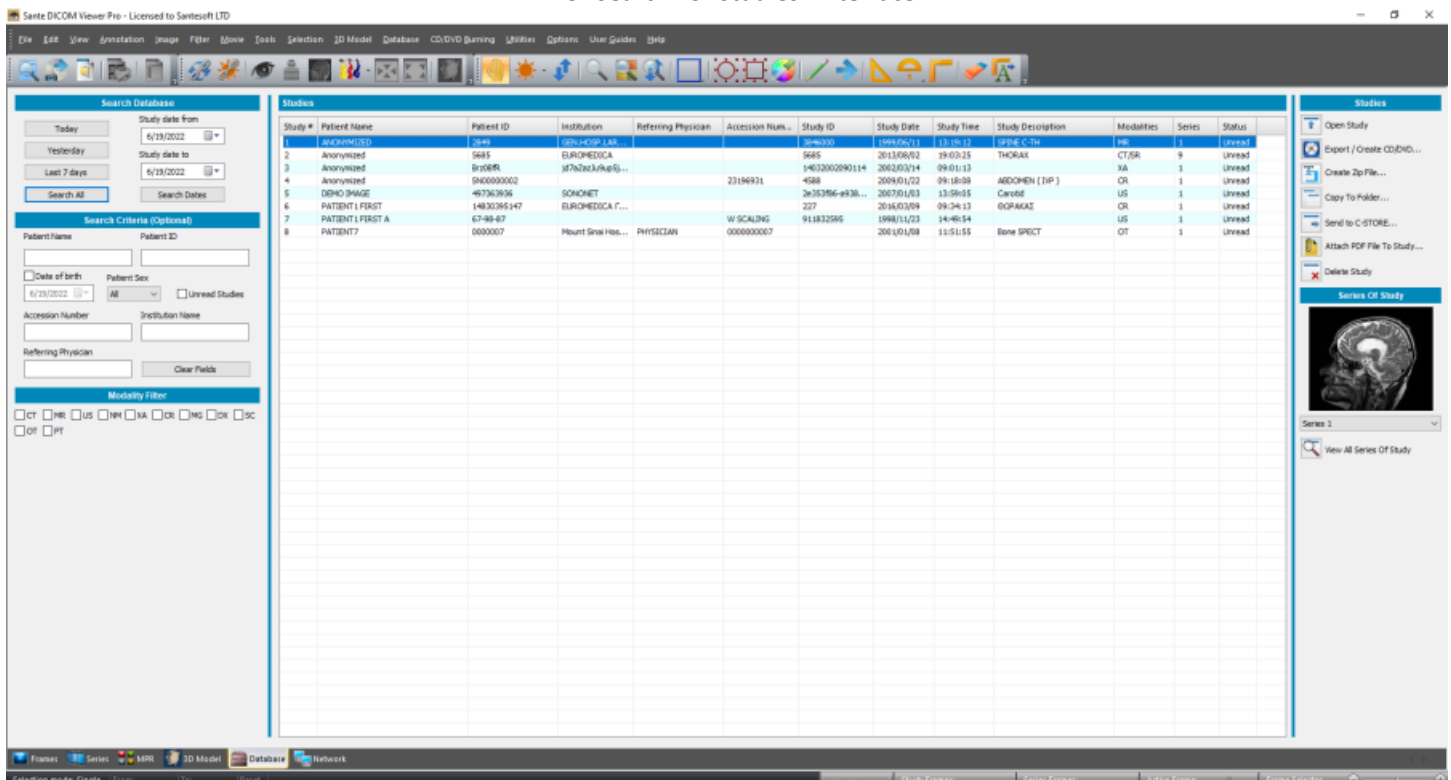
Select the **"Database"** tab from the mode selection control, in the lower left corner of the main window.



Select the desired interface of the database window

The default interface of the database window is the **"Search For Patients"** interface. But many users prefer to search for specific studies instead of searching for specific patients. In this case the user can use the **"Search For Studies"** interface that displays the study results of every query. Use the menu command **"Database ➔ Use Search For Studies Interface"** to enable and use the **"Search For Studies"** interface. Use it again to return to **"Search For Patients"** interface.

The "Search For Studies" interface



Search for studies instead of patients



Search Studies...

Sometimes the user although uses the **“Search For Patient”** interface, he wish to search for specific studies instead of searching for patients. In this case the user can use the **“Search Studies”** button that displays an interface similar to the **“Search For Studies”** interface, without changing the default database interface.

Search Database By Study

Search Database

Today

Study date from

6/19/2022

Yesterday

Study date to

6/19/2022

Last 7 days

Search All

Search Dates

Search Criteria (Optional)

Patient Name

Patient ID

Date of birth

Patient Sex

6/19/2022

All

Unread Studies

Accession Number

Institution Name

Referring Physician

Clear Fields

Modality Filter

☐ CT

☐ MR

☐ US

☐ NM

☐ XA

☐ CR

☐ MG

☐ DX

☐ SC

☐ OT

☐ PT

Studies

Study #	Patient Name	Patient ID	Institution	Referring Physician	Accession Number	Study ID	Study Date	Study Time	Study Description	Modalities	Series	Status
1	ANONYMIZED	2849	GEN.HOSP.LAR...			3846000	1999/06/11	13:19:12	SPINE C-TH	MR	1	Unread
2	Anonymized	5685	EUROMEDICA			5685	2013/08/02	19:03:25	THORAX	CT/SR	9	Unread
3	Anonymized	Br208R:	jD7aZaZu9u5j...			14032002090114	2002/03/14	09:01:13		XA	1	Unread
4	Anonymized	9100000002			23196931	4588	2009/01/22	09:18:08	ABDOMEN (IVP)	CR	1	Unread
5	DEMO IMAGE	497363936	SONONET			2e353f86-4938...	2007/01/03	13:59:05	Carotid	US	1	Unread
6	PATIENT1 FIRST	14830395147	EUROMEDICA F...			227	2016/03/09	09:34:13	BGPANAZ	CR	1	Unread
7	PATIENT1 FIRST A	67-98-87			W SCALING	911832595	1998/11/23	14:49:54		US	1	Unread
8	PATIENT7	0000007	Mount Sinai Hos...	PHYSICIAN	0000000007		2001/01/08	11:51:55	Bone SPECT	OT	1	Unread

Studies

Open Study

Export / Create CD/DVD...

Create Zip File...

Copy To Folder...

Send to C-STORE...

Attach PDF File To Study...

Delete Study

Series Of Study

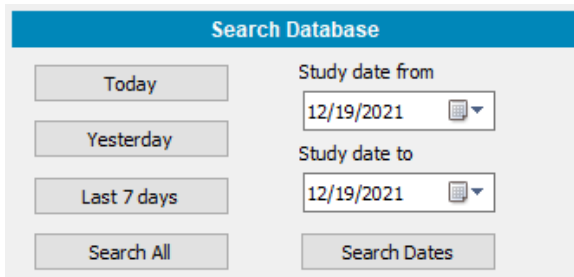
Series 1

View All Series Of Study

Close

Query the database

The program has five buttons that allows the user to query the database.



The **Search Database** dialog box contains the following controls:

- Buttons: Today, Yesterday, Last 7 days, Search All, Search Dates.
- Study date from: 12/19/2021 (with a calendar icon).
- Study date to: 12/19/2021 (with a calendar icon).

The **"Today"** button asks the server for the series/studies of the current date.

The **"Yesterday"** button asks the server for the series/studies of the previous of the current date.

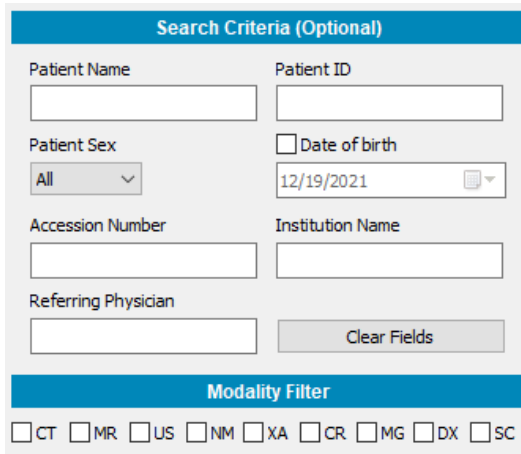
The **"Last 7 Days"** button asks the server for the series/studies of the last seven days.

The **"Search All"** button asks the server for all the series/studies.

The **"Search Dates"** button asks the server for all the series/studies of a specific range of date.

Database search criteria

The user can fine tune the query by adding more information about the desired results, like the patient name, the patient ID etc.



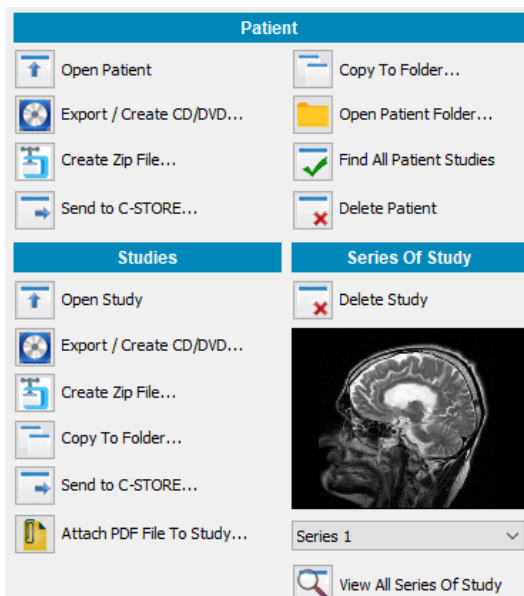
The **Search Criteria (Optional)** dialog box contains the following controls:

- Text fields: Patient Name, Patient ID, Accession Number, Referring Physician, Institution Name.
- Dropdown: Patient Sex (All).
- Text field: Date of birth (12/19/2021).
- Buttons: Clear Fields.
- Modality Filter** section with checkboxes: CT, MR, US, NM, XA, CR, MG, DX, SC.

Search results handling

The results of the queries are displayed in the **Patient** and **Study** lists.

The user can open, copy to folder, send to C-STORE SCP, delete the selected patient/study, create a DICOM CD/DVD disk or a Zip file



The interface shows two panels: **Patient** and **Studies**.

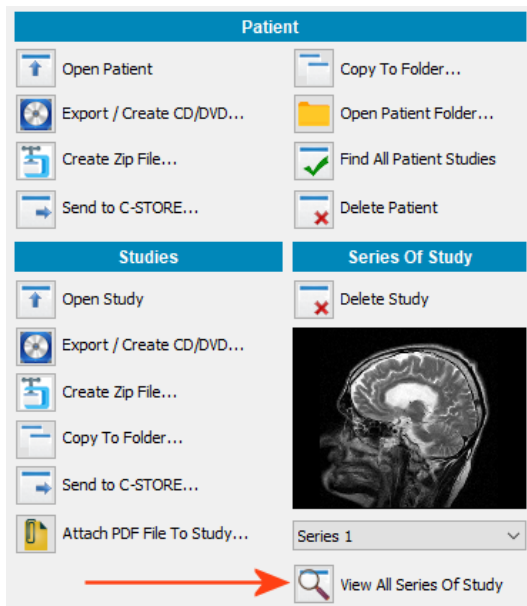
Patient Panel:

- Buttons: Open Patient, Export / Create CD/DVD..., Create Zip File..., Send to C-STORE..., Copy To Folder..., Open Patient Folder..., Find All Patient Studies, Delete Patient.

Studies Panel:

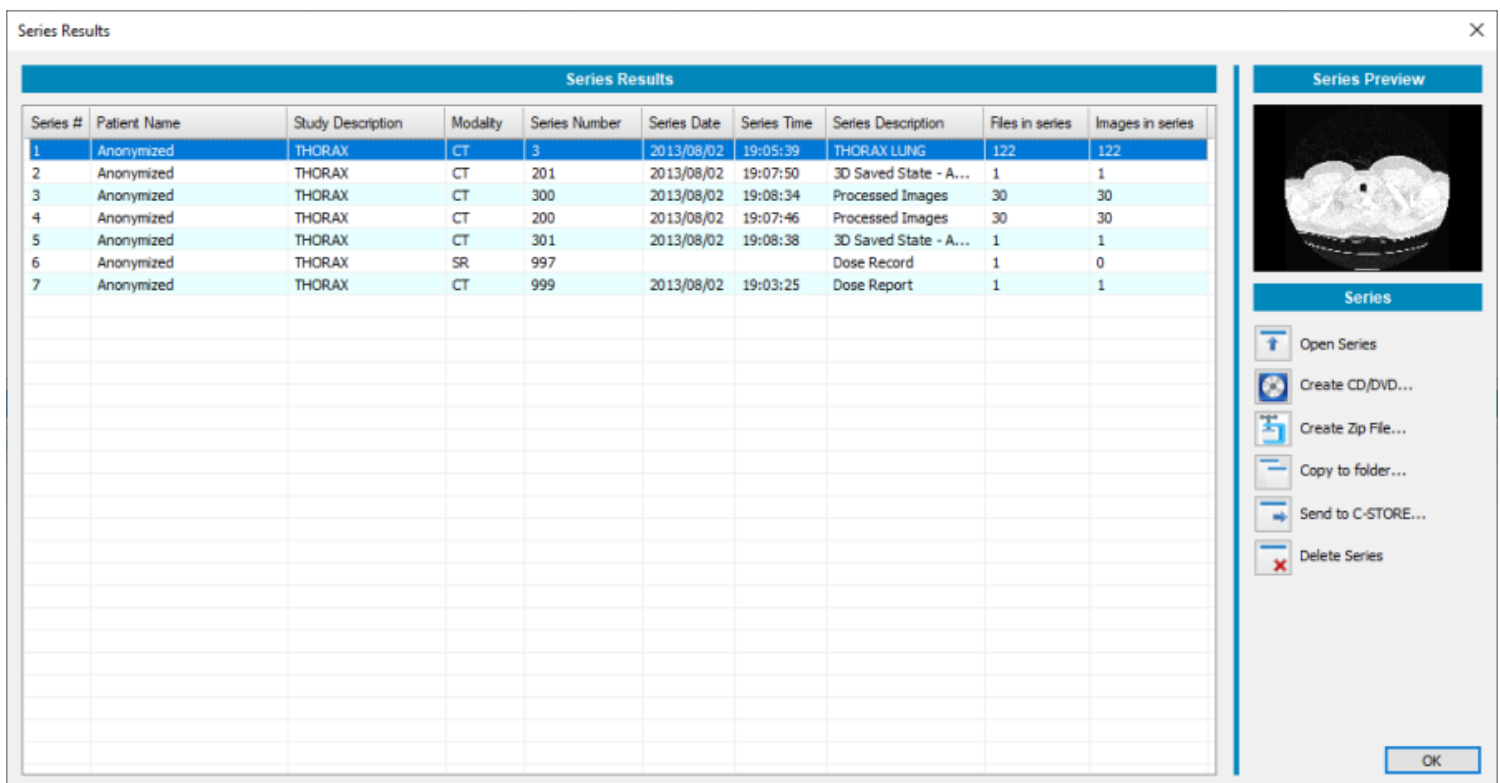
- Buttons: Open Study, Export / Create CD/DVD..., Create Zip File..., Copy To Folder..., Send to C-STORE..., Attach PDF File To Study..., Delete Study, View All Series Of Study.
- Image: A sagittal MRI scan of a brain.
- Dropdown: Series 1.

If the user wish to review the series of a study, he must select the button **"View All Series Of a study"**.



The results are displayed in a new panel.

The user can open, copy to folder, send to C-STORE SCP, delete the selected series, create a DICOM CD/DVD disk or a Zip file.



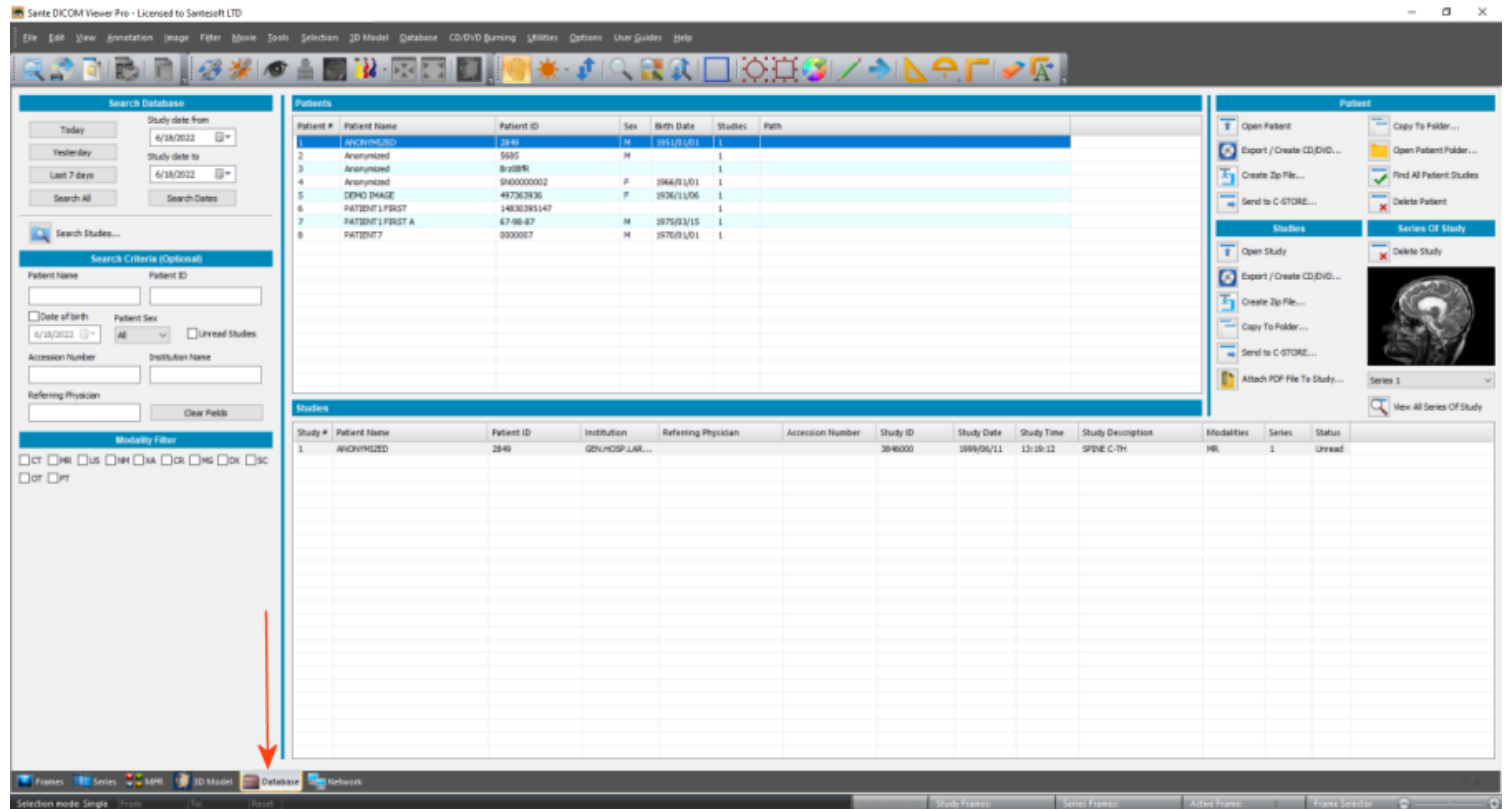
if the command **"Keep Viewer Always Open"** of the **"Options"** menu is checked, the program does not open a second instance of the Viewer, and loads all the studies/series in the same Viewer Window. Otherwise every study/series is loaded in a separate Viewer window.

Attach a PDF report file to local study

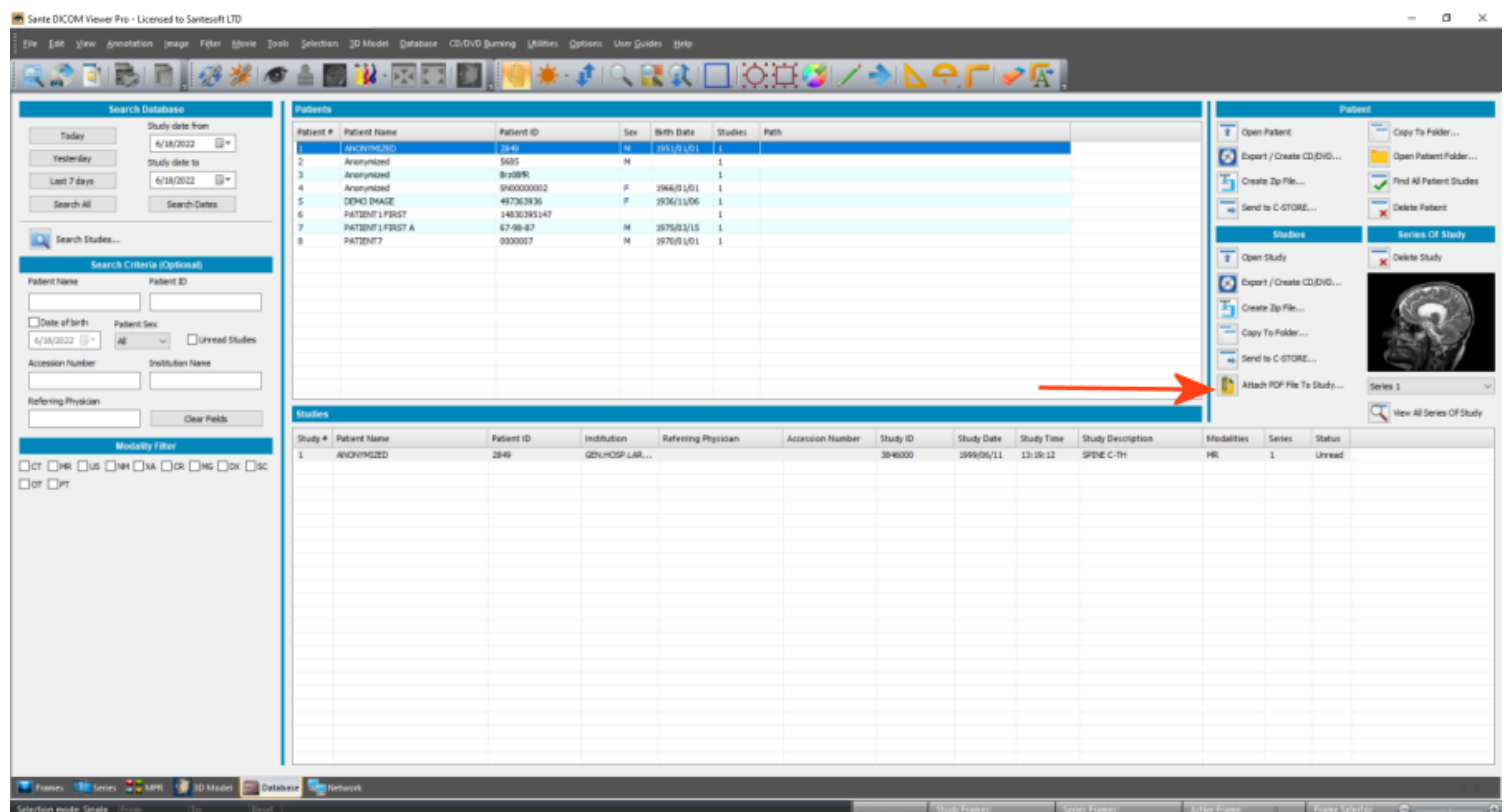
The program has the ability to attach PDF report files to local and remote studies. It creates a DICOM file that encapsulates the PDF report file, it creates a new series with description "PDF Report" that contains this new file and it attaches the series to the desired study.

Attach a PDF report file to local study

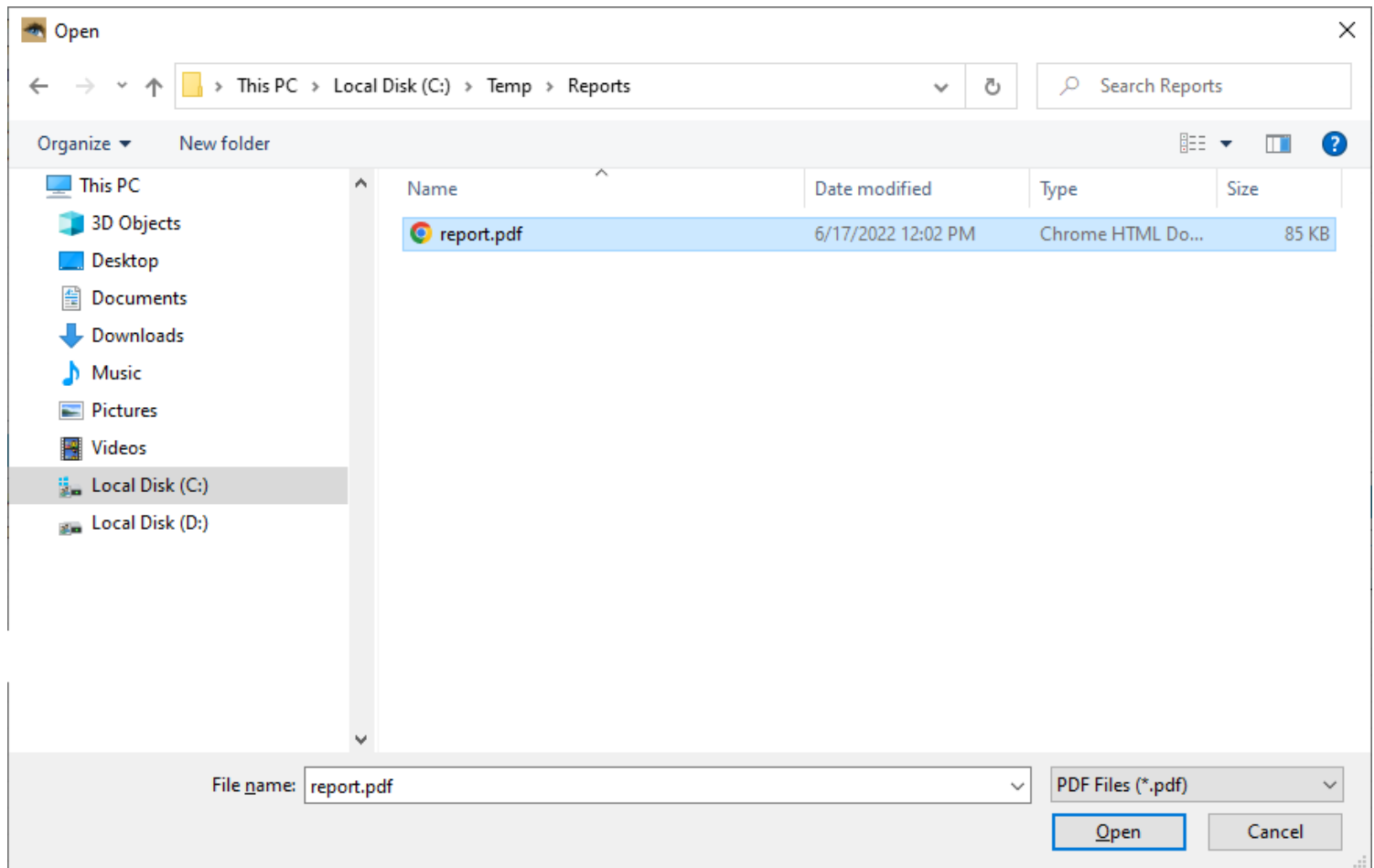
Select the **"Database"** tab from the mode selection control, in the lower left corner of the main window.



Query the database to find the study in which you wish to attach the pdf file. Then, select the desired study and press the **"Attach PDF File To Study"** button.



Select the PDF report file and press the **"Open"** button.



After that, the program attaches the selected PDF report file to the study.

The Network Window

Select the **"Network"** tab from the mode selection control, in the lower left corner of the main window.

The screenshot displays the Sante DICOM Viewer Pro application. The main window is titled "Sante DICOM Viewer Pro - Licensed to Santesoft LTD". The interface is divided into several sections:

- Search Panel (Left):** Contains search criteria for DICOM nodes, including fields for Patient Name, Patient ID, Patient Sex, Date of Birth, Accession Number, and Referring Physician. It also has buttons for "Search All", "Search Dates", and "DICOM Node To Query And Retrieve".
- Studies Table (Center):** A table listing various studies with columns for Study #, Patient Name, Patient ID, Sex, Birth Date, Institution, Accession Number, Study ID, Study Date, Study Description, Modalities, and Files. A red arrow points to the "Network" tab in the bottom-left corner of the main window.
- Right Panel:** Contains options for "Retrieve Files", "Send PDF Report To Server", "Attach PDF File To Study...", "Options", and "Network Activity".
- Bottom Bar:** Includes a "Selection mode" dropdown set to "Single" and a "Network" tab, which is highlighted by a red arrow.

The **"C-STORE SCP"** tools in the upper left corner of the Network panel allows the user to select the server from which the series/studies will be retrieved. The user must have already configured the known DICOM servers as described in the user guide [Network Configuration Guide.pdf](#).

DICOM Node To Query And Retrieve

AE Title

SANTE1

Echo

Details...

The combo box **"AE Title"** contains all the known DICOM servers, and the user can select from this combo box the desired source of files. The button **"Echo"** allows the user to determine if a server is alive add it can answer to find/retrieve queries. The button **"Details"** allows the user to view and configure the DICOM network nodes.

The program has five buttons that allows the user to query the selected server.

Search DICOM Node	
Today	Study date from 12/19/2021
Yesterday	Study date to 12/19/2021
Last 7 days	
Search All	Search Dates

The **"Today"** button asks the server for the series/studies of the current date.

The **"Yesterday"** button asks the server for the series/studies of the previous of the current date.

The **"Last 7 Days"** button asks the server for the series/studies of the last seven days.

The **"Search All"** button asks the server for all the series/studies.


The **"Search Dates"** button asks the server for all the series/studies of a specific range of date.

The user can fine tune the query by adding more information about the desired results, like the patient name, the patient ID etc.

Search Criteria (Optional)	
Patient Name <input type="text"/>	Patient ID <input type="text"/>
Patient Sex All	<input type="checkbox"/> Date of birth 12/19/2021
Accession Number <input type="text"/>	Institution Name <input type="text"/>
Referring Physician <input type="text"/>	Clear Fields

The results of the queries are displayed in the Study and Series lists.

The user can retrieve the desired series/studies by selecting them in the list and pressing the corresponding **"Retrieve"** button.

Retrieve Files	
C-MOVE	Retrieve Protocol
	Retrieve Study

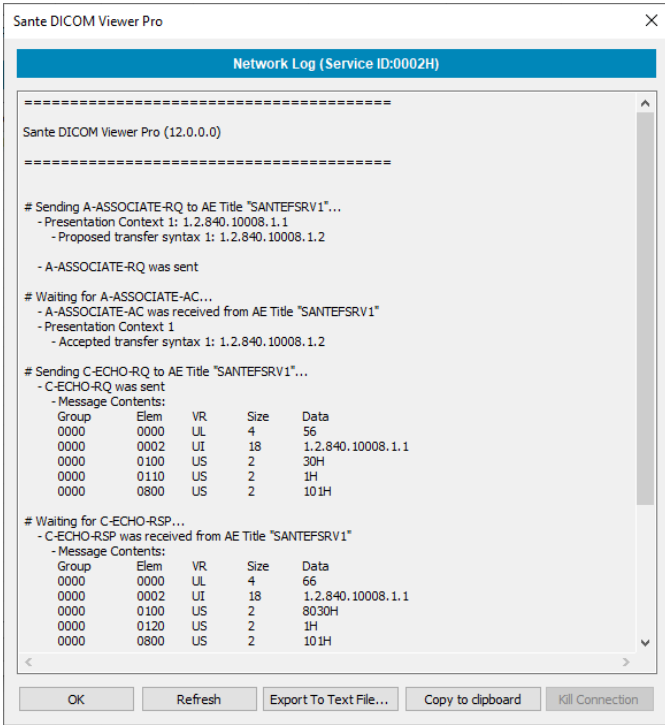
If the user wish the program to load automatically the just arrived series/studies in the window of the Viewer, he must have the option **"Open study/series when retrieved"** enabled.

<input type="checkbox"/> Show Series List
<input type="checkbox"/> Open files when retrieved

The "Network Activity" list contains the log details of the active network services.

[illegible]

The user can review all the details of an activity by selecting its row in this list. A dialog box appears and displays the details of the activity.



When a service has been finished it is removed from this list.

Use the commands **"View Network (SCP) Report"** and Select the **"Network"** tab from the mode selection control, in the lower left corner of the main window.

Attach a PDF report file to remote study

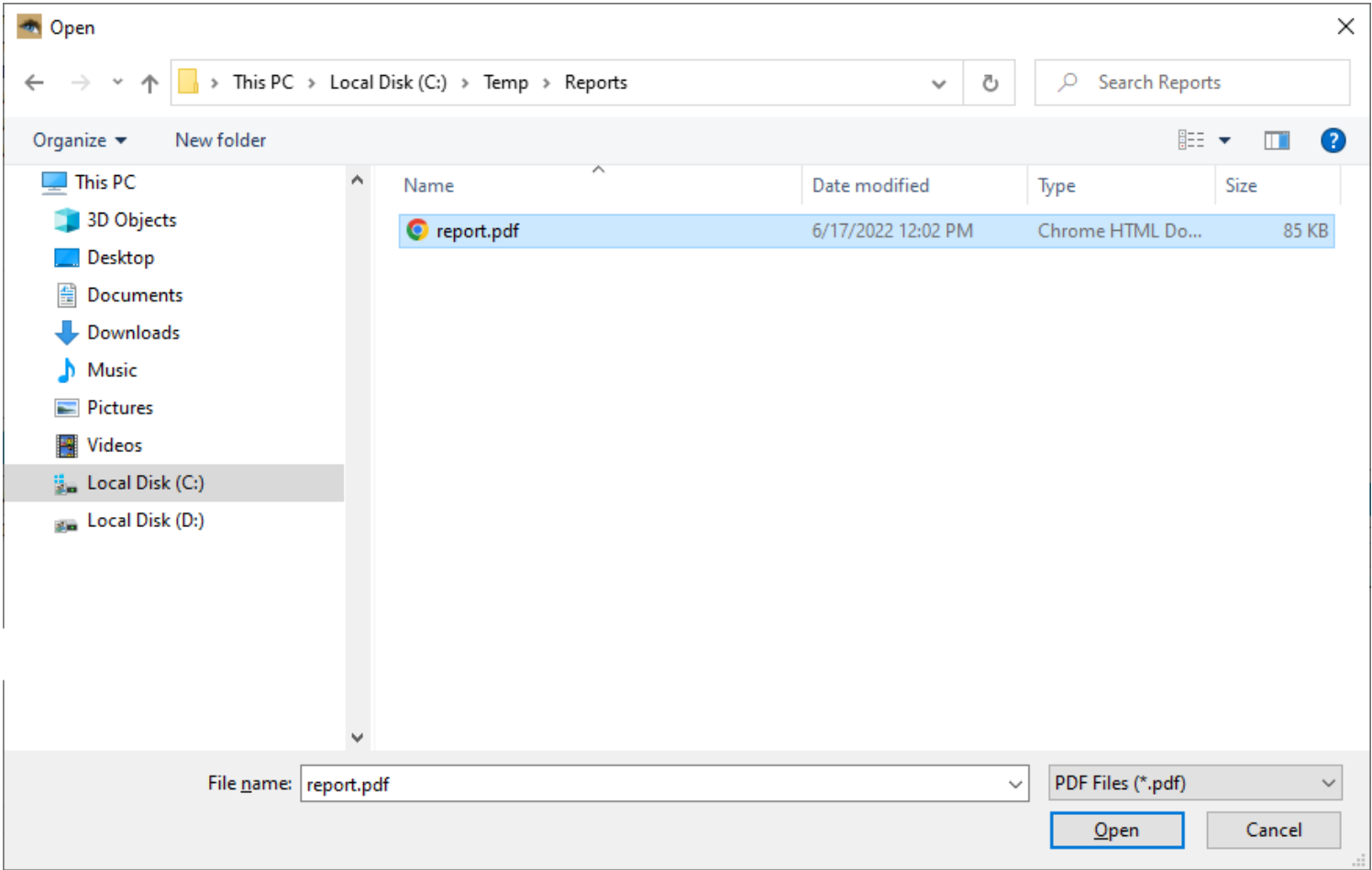
Select the "Network" tab from the mode selection control, in the lower left corner of the main window.

The screenshot shows the Sante DICOM Viewer Pro interface. The 'Network' tab is selected in the mode selection control at the bottom left. The main window displays a list of studies in a table format. The table has columns for Study #, Patient Name, Patient ID, Sex, Birth Date, Institution, Accession Number, Study ID, Study Date, Study Description, Modalities, and Files. The 'Network' tab is highlighted in the bottom left corner of the interface.

Query the database to find the study in which you wish to attach the pdf file. Then, select the desired study and press the **"Attach PDF File To Study"** button. There is no need to download locally the study.

The screenshot shows the Sante DICOM Viewer Pro interface. The 'Network' tab is selected in the mode selection control at the bottom left. The main window displays a list of studies in a table format. The 'Network Files' panel on the right side of the interface is visible, and the 'Attach PDF File To Study...' button is highlighted with a red arrow.

Select the PDF report file and press the **"Open"** button.



After that, the program attaches the selected PDF report file to the study.