

Sante DVD Burning Server

User Guide

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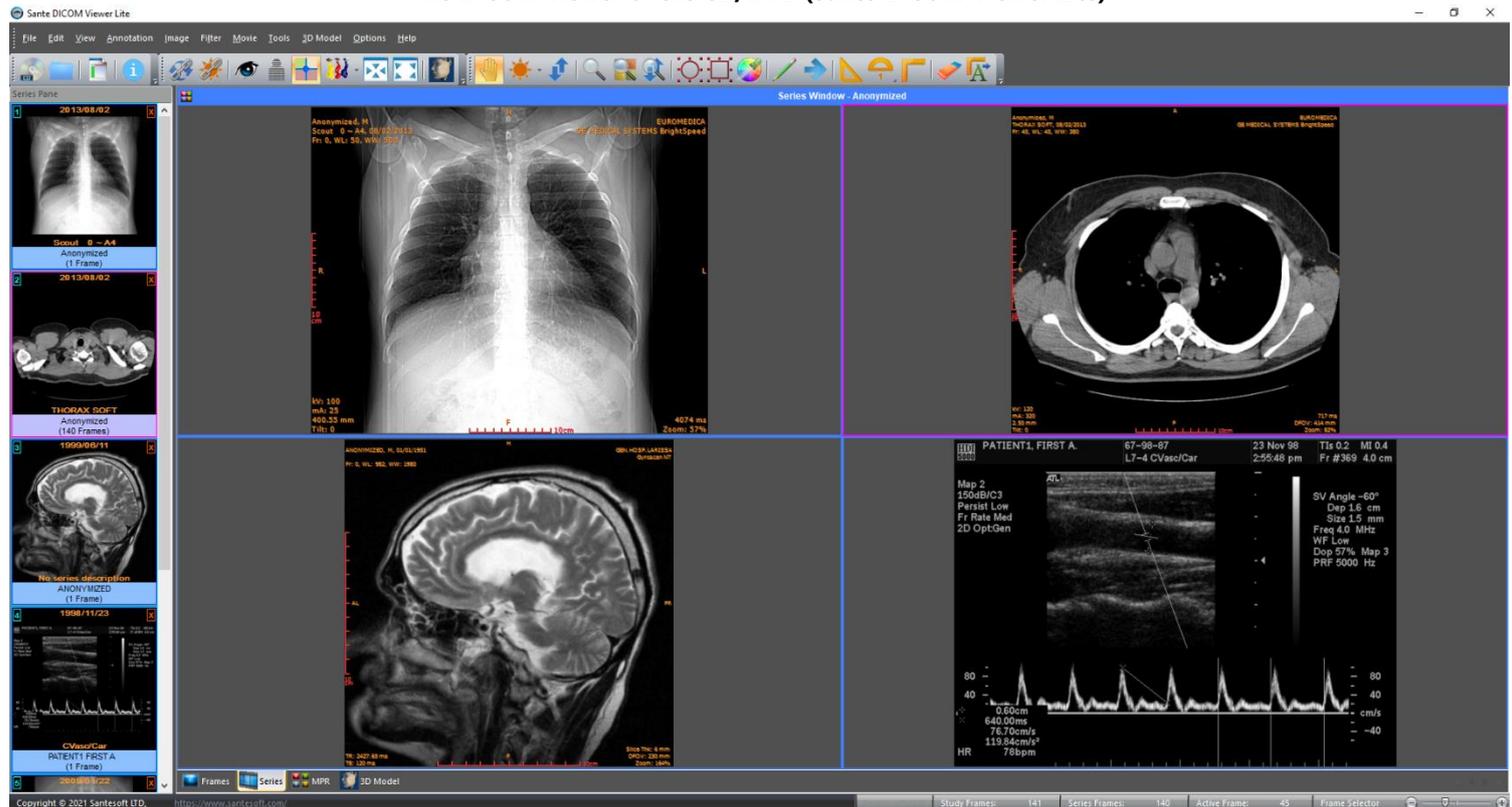
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Overview

Sante DVD Burning Server can receive studies from medical scanners, PACS servers and DICOM viewers and automatically burn and print them in EPSON and PRIMERA CD/DVD producers. It acts like a usual PACS server, it writes all the received studies in its database, but additionally it sends them for CD/DVD burning and printing. When it receives a report from EPSON/PRIMERA producer that the CD/DVD was created successfully the program deletes the burned and printed studies from the database. Otherwise it keeps them in its database until the user solves the problem of the producer (e.g. refilling with consumables), or until the user creates the CD/DVD manually and deletes them.

The program adds to the CD/DVD disk a free DICOM viewer that allows the patient and/or physician to view the patient's images of the CD/DVD disk.

The DICOM viewer of the CD/DVD (Sante DICOM Viewer Lite)



Features and benefits

- Sante DVD Burning Server is configurable like a usual PACS server and acts as such. It communicates with other DICOM nodes and receives DICOM studies via DICOM network services (C-MOVE/C-STORE, C-GET, C-STORE)
- It burns CD/DVD automatically from DICOM studies and prints their label on the robotic disk publisher devices of EPSON and PRIMERA, automatically or manually
- It supports plain CD/DVD writers as well (manually burning only)
- It keeps the received studies in its database until a successful CD/DVD creation
- The program adds to the CD/DVD disk a free DICOM viewer (Sante DICOM Viewer Lite), or any other viewer of the choice of the user
- The server can run as Windows service
- It can store unlimited number of patients/exams (it depends only on hard disk size)
- It supports unlimited number of connections with DICOM nodes
- It supports all charsets (latin, chinese, japanese, korean, cyrillic, arabic, greek, turkish, etc.)
- It is compatible with all modalities (CT, MR, NM, US, XA, MG, CR etc.).
- Perpetual license that never expires.
- Free updates and free technical support for product's lifetime
- Windows 11/10/8.1/8/7/Vista (64-bit) and Windows Server 2019/2016/2012/2008 compatible
- Easy to use with native Windows "look and feel"
- Free demo version that works for 30 days

Automatic label printing on CD/DVD Robot Producers

The program can print a CD/DVD label on the robotic disk publisher devices of EPSON and PRIMERA, automatically or manually. The label can have the patient name, patient ID, study date, study description and other useful information.



Minimum System Requirements

Windows 11/10/8.1/8/7/Vista 64-bit or Windows Server 2019/2016/2012/2008

Intel Core i3 1.3GHz or greater

4 GB memory or more

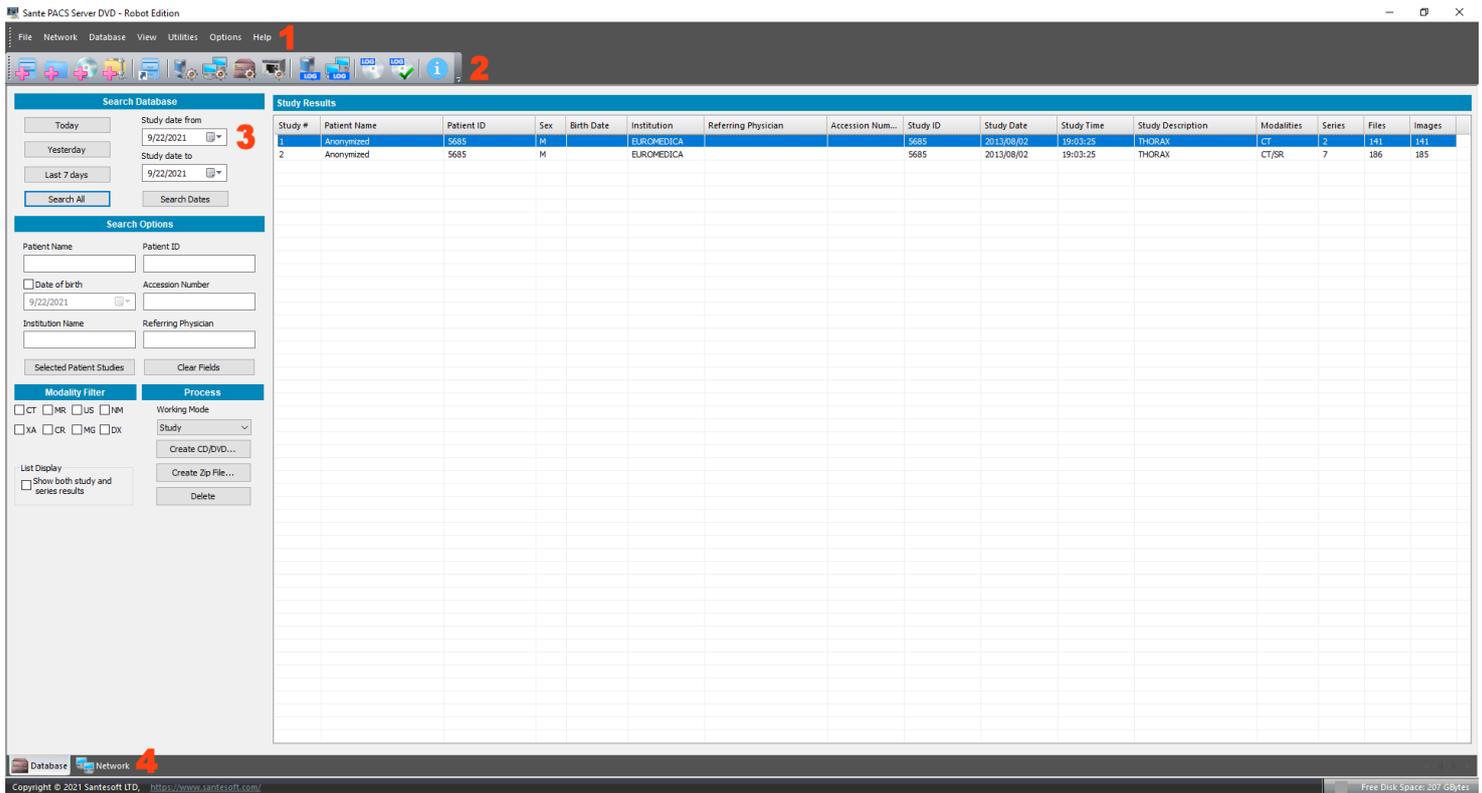
Monitor that supports resolution 1366x768 or above

250MB free space on hard disk and additional disk space for the studies

Program Configuration Steps

1. Configure the AE Title and IP port of this server by selecting the menu command "**Network** ➔ **Network Server Setup**" and by following the instruction of the section "**DICOM Server Configuration**" of this document.
2. Configure the AE Title, IP address and IP port of the other DICOM nodes (peers) of the network by selecting the menu command "**Network** ➔ **Network Peer Setup**" and by following the instruction of the section "**Configuration of the other DICOM nodes**" of this document.
3. Configure the producer by selecting the menu command "**Options** ➔ **CD/DVD Producer Setup**" and by following the instruction of the section "**CD/DVD Producer Setup**" of this document.

The user interface



The user interface is divided in 4 parts:

1. The menu bar
2. The toolbars
3. The main window
4. The Database/Network Mode selection tab

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. Main window

The main window can display two panels, the Database panel and the Network panel selectable by the Database/Network selection tab **(4)**.

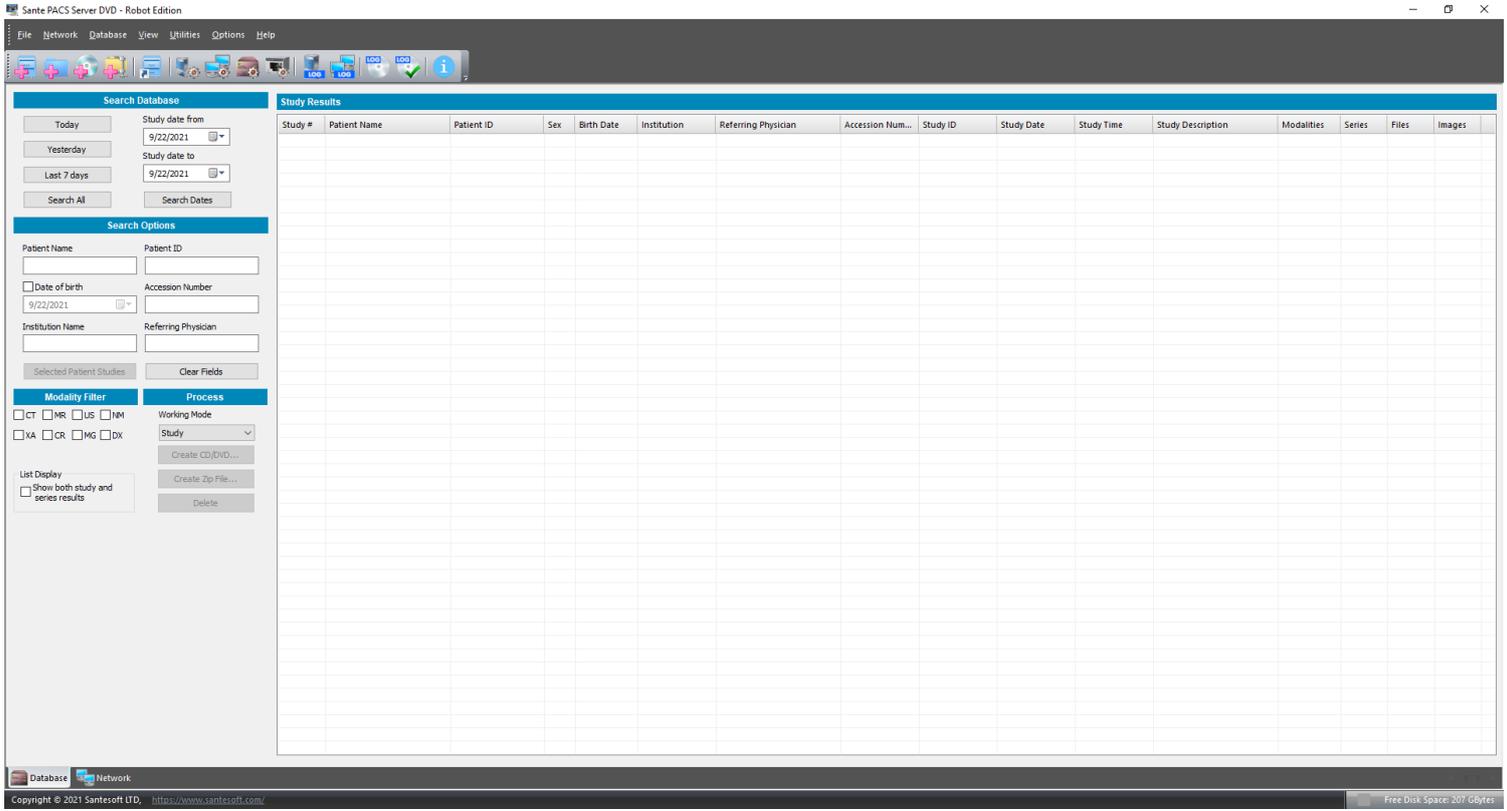
4. Database/Network selection tab

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

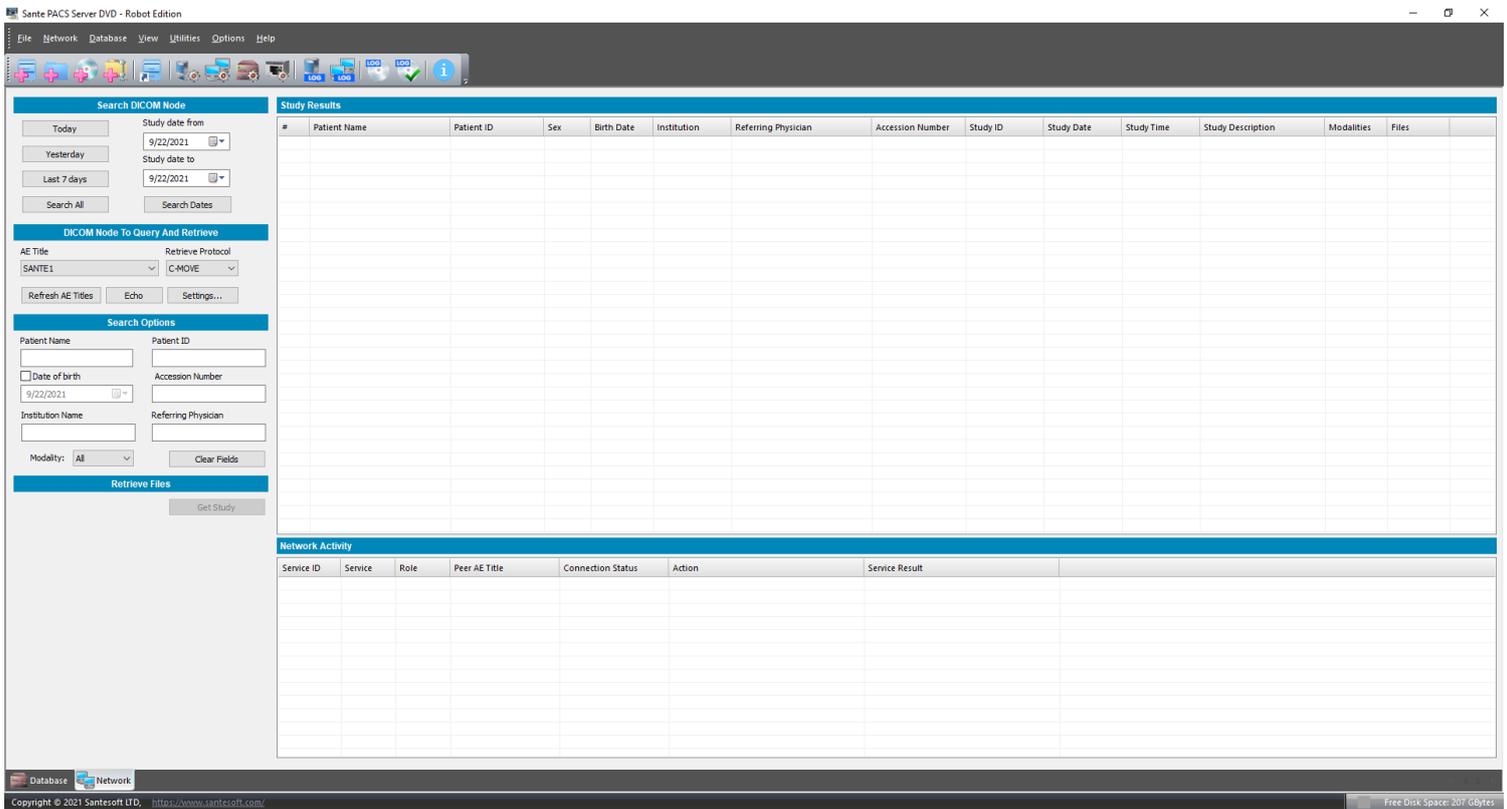
If the tab "Network" is selected the main window displays the interface that allows the user to query and retrieve series and studies from remote PACS servers (Network Mode).

The modes of the Main Window

The **Database Panel** allows the user to query and retrieve series and studies from the local database.



The **Network Panel** allows the user to query and retrieve series and studies from remote PACS servers.



The Database Panel

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

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 within a user defined date range.

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

The "**Selected Patient Studies**" button is enabled when the user has selected a study in the **Study List**, and it retrieves all the studies of the patient of the selected study.

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

The user can select if he/she wish to work with studies or series from the **Working Mode** combo box and create a DICOM CD/DVD or a Zip file.

If the user wishes the program to display both the study and the series lists, he must have the option "Show both studies and series results" enabled. Otherwise the program displays the results of the selected **Working Mode**, studies or series.

The Network Panel

The "**DICOM Node To Query And Retrieve**" 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 section Configuration.

The screenshot shows a panel titled "DICOM Node To Query And Retrieve". It contains two dropdown menus. The first is labeled "AE Title" and has "SANTE 1" selected. The second is labeled "Retrieve Protocol" and has "C-MOVE" selected. Below the dropdowns are three buttons: "Refresh AE Titles", "Echo", and "Settings...".

The combo box "**AE Title**" contains all the known DICOM servers, and the user can select from this combo box the desired series/study source. The combo box "**Retrieve Protocol**" allows the user to select between the C-MOVE and C-GET retrieving protocols.

The button "**Refresh AE Titles**" allows the user to refresh the contents of the combo box "**AE Title**" if he has just added new servers with the Configuration procedure.

The button "**Echo**" allows the user to determine if a server is alive and if it can answer to find/retrieve queries.

The button "**Settings**" allows the user to configure the network.

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

The screenshot shows a panel titled "Search DICOM Node". On the left side, there are four buttons: "Today", "Yesterday", "Last 7 days", and "Search All". On the right side, there are two date selection fields. The first is labeled "Study date from" and has "9/22/2021" selected. The second is labeled "Study date to" and also has "9/22/2021" selected. At the bottom right, there is a "Search Dates" button.

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 within a user defined date range.

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

The screenshot shows a panel titled "Search Options". It contains several input fields: "Patient Name", "Patient ID", "Date of birth" (with a checkbox and a date field showing "9/22/2021"), "Institution Name", "Accession Number", and "Referring Physician". At the bottom, there is a "Modality" dropdown set to "All" and a "Clear Fields" button.

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

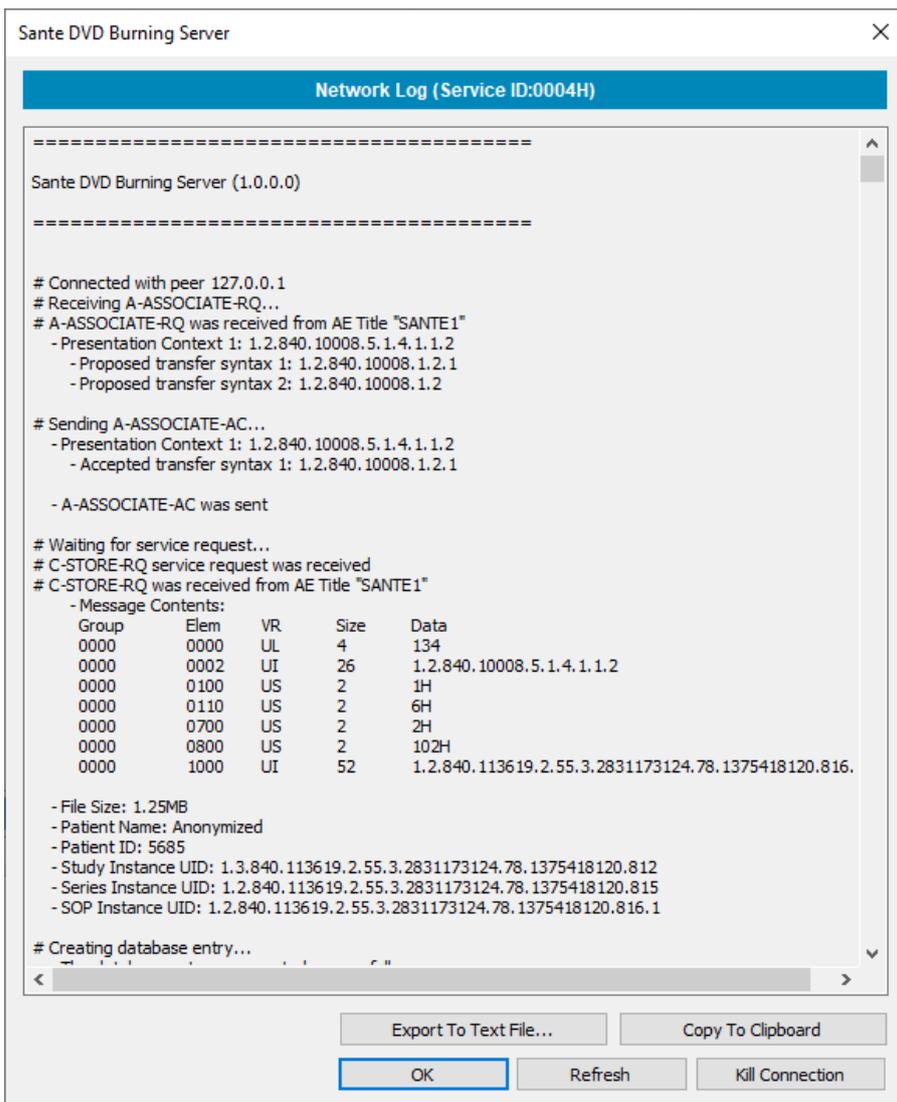
The user can retrieve the desired studies by selecting them in the list and pressing the "Get Study" button.



The "Network Log" list contains the log details of the network activity.

Network Activity						
Service ID	Service	Role	Peer AE Title	Connection Status	Action	Service Result
0006H	C-MOVE	SCU	SANTE1	Connected	Waiting for data...	
0005H	C-MOVE	SCU	SANTE1	Connected	Waiting for data...	
0000H	C-MOVE	SCU	SANTE1	Queued		
0000H	C-MOVE	SCU	SANTE1	Queued		

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.



Configure and use the DICOM network services (C-FIND/C-MOVE/C-GET/C-STORE/C-ECHO)

Definitions

DICOM Services

The DICOM protocol consists of many different services, most of which involve transmission of data over a network. The program supports the store, query/retrieve and echo services (C-STORE/C-FIND/C-MOVE/C-ECHO SCU).

Store Service (C-STORE)

The DICOM Store service is used to send images or other persistent objects to a PACS or workstation.

Query/Retrieve Service (C-FIND/C-MOVE/C-GET)

This service enables a workstation to find lists of images or other objects and then retrieve them from a PACS system.

Echo Service (C-ECHO)

This service enables a workstation to verify the connection and the communication with another workstation or a PACS system.

DICOM communication protocol

The communication protocol is an application protocol that uses TCP/IP to communicate between systems. DICOM files can be exchanged between two entities that can receive image and patient data in DICOM format.

Communication between DICOM nodes

Two DICOM nodes (workstations, PACS systems) can communicate if they know each other. That means, each system must know the AE Title, the IP address or hostname and the IP port of the other system.

AE Title

AE Title or AET is an abbreviation for Application Entity Title. An AE Title is used by an Application Entity (AE) to identify itself. AE Titles need to be locally unique and are typically managed by a system administrator. They are case-sensitive and 16 bytes long. They are to be configured prior to initializing a DICOM connection.

IP Address

An Internet Protocol (IP) address is a numerical identification (logical address) that is assigned to devices participating in a computer network utilizing the Internet Protocol for communication between its nodes. Although IP addresses are stored as binary numbers, they are often displayed in more human-readable notations, such as 192.168.100.1. Usually can be translated into a hostname via the local hosts file, or the Domain Name System (DNS) resolver, and can be used instead of the hostname.

Hostname

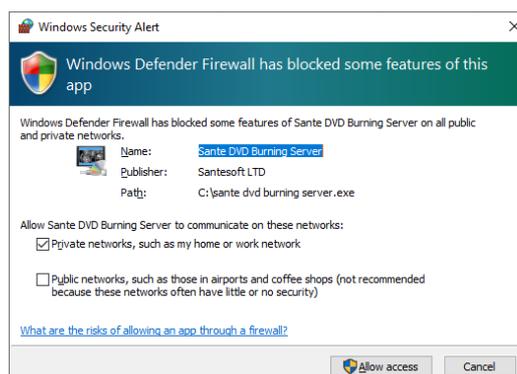
A hostname is a domain name assigned to a host computer, and is translated into an IP Address via the local hosts file, or the Domain Name System (DNS) resolver. It can be used instead of an IP Address.

Port

TCP/IP protocol uses the notion of port numbers to identify sending and receiving application end-points on a host. Each side of a TCP connection has an associated 16-bit unsigned port number (1-65535) reserved by the sending or receiving application. Arriving TCP data packets are identified as belonging to a specific TCP connection by its sockets, that is, the combination of source host address, source port, destination host address, and destination port. Ports need to be locally unique and are typically managed by a system administrator. The numbers 104 and 11112 are usually used as IP Ports in DICOM networking, but any number between 1 and 65535 can be used, but it must be unique for the host (node/PC), and it must not be used from any other application.

Firewall

A firewall is a dedicated software, which inspects network traffic passing through it, and denies or permits passage based on a set of rules. If there is a firewall in your computer, you must unblock the application.



DICOM Server Configuration

Select the menu command **"Network → Network Server Setup"**.

A dialog box appears and allows you to insert the AE Title and the port of Sante DVD Burning Server.

This command requires administrator privileges.

The screenshot shows the "Sante DVD Burning Server" dialog box with the "Network Server Setup" tab selected. The dialog is divided into several sections:

- This DICOM Server:** Contains input fields for "AE Title" (SANTEDVD1) and "Port" (11123). Below these is the "IP Address : 192.168.1.6" and a checkbox for "Run the server as service" which is currently unchecked.
- Automatic burning and printing of received series/studies:** Includes a text block: "If a client/scanner uses a single connection to send all the contents of a CD/DVD use the AE Titles below:". It lists "AE Title for automatic burning and printing on Epson robot: SANTEDVD1_E" and "AE Title for automatic burning and printing on Primera robot: SANTEDVD1_P".
- Delayed burning and printing of received series/studies:** Includes a text block: "If a client/scanner uses multiple connections to send the contents of the same CD/DVD use the AE Titles below:". It lists "AE Title for delayed burning and printing on Epson robot: SANTEDVD1_TE" and "AE Title for delayed burning and printing on Primera robot: SANTEDVD1_TP". Below this is a "Delay Time (sec)" field set to 60 and a dropdown menu for "Studies will be burned on the same CD/DVD if they have the same:" set to "Patient ID".
- Enable Debug Mode:** A checkbox at the bottom left, currently unchecked.

At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help..."

Automatic burning and printing of received series/studies

A client application instead of using the above AE Title of Sante DVD Burning Server, can use this AE Title with an "_E" or "_P" suffix. In that case the Sante DVD Burning Server stores the received series/studies and automatically sends them for printing and burning to an EPSON or to a PRIMERA producer. With the use of "_E" suffix, Sante DVD Burning Server sends the received series/studies for printing and burning to an EPSON robot. With the use of "_P" suffix, Sante DVD Burning Server sends the received series/studies for printing and burning to a PRIMERA robot.

"Run the server as service" checkbox

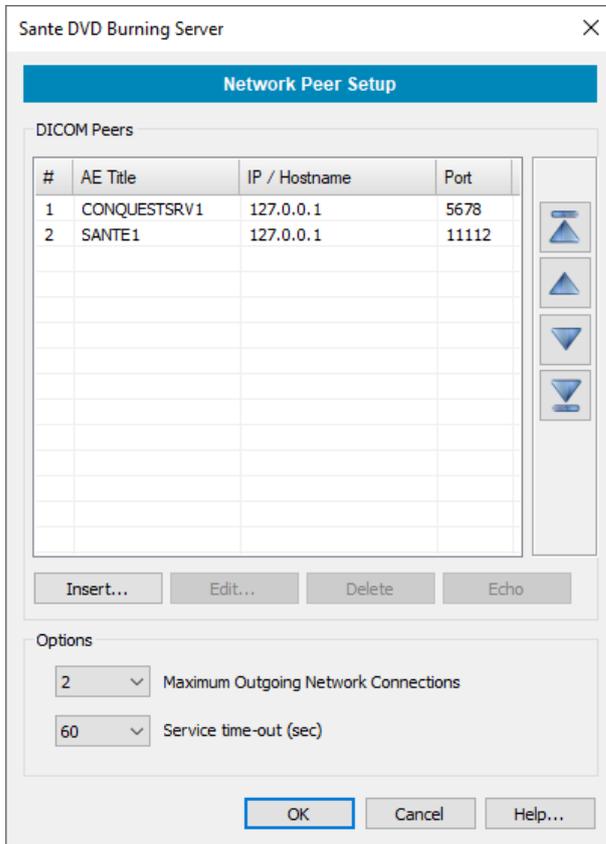
If you wish the server to run as service, check the checkbox **"Run the server as service"**.

Configuration of the other DICOM nodes

Select the server menu command **"Network → Network Peer Setup"**.

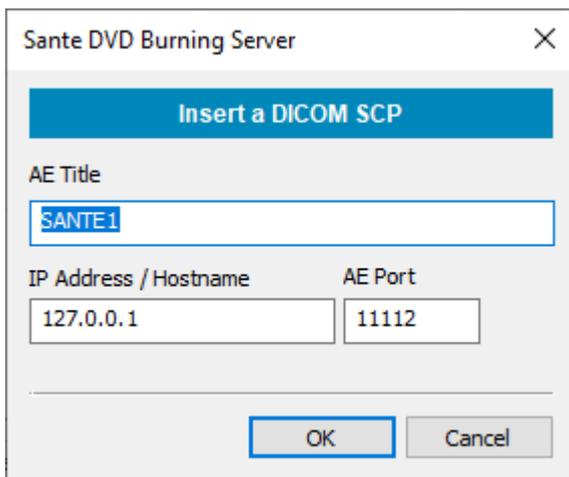
A dialog box appears and allows you to insert the other DICOM servers and clients that exist in the network.

This command requires administrator privileges.



Insert/Edit a PACS system

Press the **"Insert"** or **"Edit"** buttons of the above dialog box. A new dialog box appears and allows you to insert the information of your PACS system.



Select a DICOM server row and press **"Echo"** button, to check the connection with the selected server.

Select a DICOM server row and press **"Delete"** button, to delete the selected server.

Maximum Outgoing Network Connections option

When the program acts as a client and the user searches and retrieves studies/series from other servers, this option determines the maximum number of outgoing connections. When the program acts as a server the number of incoming connections are unlimited.

Service time-out option

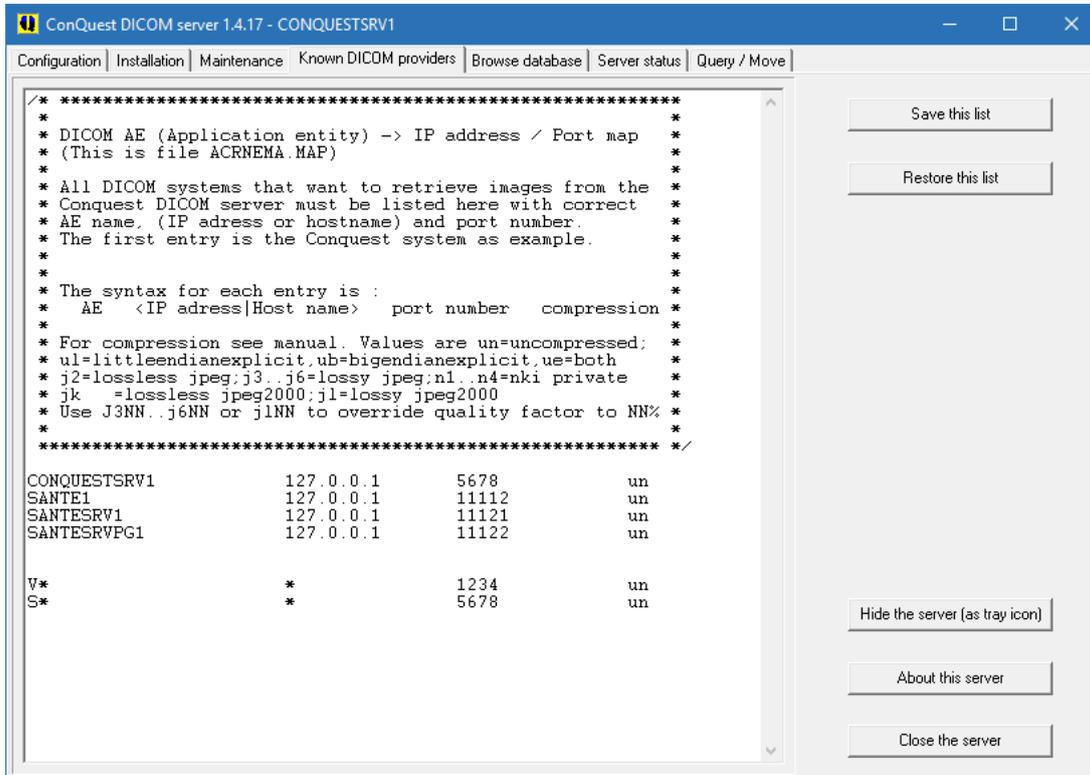
This option determines how long the program waits for a response from the peer. If this time passes the program interrupts the connection.

Configure the other PACS nodes in the network

Sante DVD Burning Server is compatible with the most DICOM PACS providers. Please advise your PACS software help file about AE configuration of the other PACS servers/clients. Below are examples of the configuration of two of the most used free PACS servers, the Conquest and the dcm4chee. All PACS servers have similar configuration with these ones.

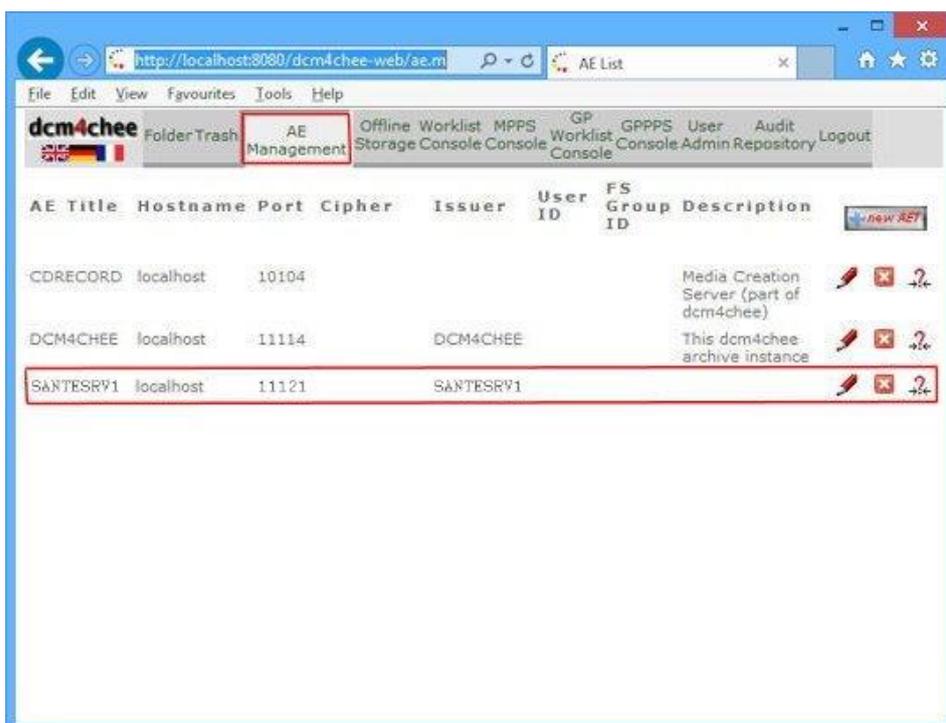
The Conquest configuration

Select the "Known DICOM providers" tab and insert the AE Title, IP Address and IP Port of Sante DICOM Application. Press the "Save this list" button.



The dcm4chee configuration

Select the "AE Management" tab, press the "+ new AET" button and insert the AE Title, IP Address and IP Port of Sante DICOM Application.



Query and retrieve (C-FIND/C-MOVE/C-GET services)

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

The "DICOM Node To Query And Retrieve" tools in the upper left corner of the Network window 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 section Configuration.

DICOM Node To Query And Retrieve

AE Title <input type="text" value="SANTE1"/>	Retrieve Protocol <input type="text" value="C-MOVE"/>
<input type="button" value="Refresh AE Titles"/> <input type="button" value="Echo"/> <input type="button" value="Settings..."/>	

The combo box "AE Title" contains all the known DICOM servers, and the user can select from this combo box the desired series/study source. The combo box "Retrieve Protocol" allows the user to select between the C-MOVE and C-GET retrieving protocols.

The button "Refresh AE Titles" allows the user to refresh the contents of the combo box "AE Title" if he has just added new servers with the Configuration procedure.

The button "Echo" allows the user to determine if a server is alive add it can answer to find/retrieve queries.

The button "Settings" allows the user to configure the network.

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

Search DICOM Node

<input type="button" value="Today"/> <input type="button" value="Yesterday"/> <input type="button" value="Last 7 days"/> <input type="button" value="Search All"/>	Study date from <input type="text" value="9/22/2021"/> Study date to <input type="text" value="9/22/2021"/> <input type="button" value="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 within a user defined date range.

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

Search Options

Patient Name <input style="width: 95%;" type="text"/>	Patient ID <input style="width: 95%;" type="text"/>
<input type="checkbox"/> Date of birth 9/22/2021 <input type="text"/>	Accession Number <input style="width: 95%;" type="text"/>
Institution Name <input style="width: 95%;" type="text"/>	Referring Physician <input style="width: 95%;" type="text"/>
Modality: All	<input type="button" value="Clear Fields"/>

The results of the queries are displayed in the **Study** and **Series** lists.
 The user can retrieve the desired studies by selecting them in the list and pressing the **"Get Study"** button.

Retrieve Files

The **"Network Log"** list contains the log details of the network activity.

Network Activity						
Service ID	Service	Role	Peer AE Title	Connection Status	Action	Service Result
0006H	C-MOVE	SCU	SANTE1	Connected	Waiting for data...	
0005H	C-MOVE	SCU	SANTE1	Connected	Waiting for data...	
0000H	C-MOVE	SCU	SANTE1	Queued		
0000H	C-MOVE	SCU	SANTE1	Queued		

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.

Network Service Log

Sante DVD Burning Server (1.0.0.0)

```

=====
# Connected with peer 127.0.0.1
# Receiving A-ASSOCIATE-RQ...
# A-ASSOCIATE-RQ was received from AE Title "SANTE1"
- Presentation Context 1: 1.2.840.10008.5.1.4.1.1.2
- Proposed transfer syntax 1: 1.2.840.10008.1.2.1
- Proposed transfer syntax 2: 1.2.840.10008.1.2
- Presentation Context 3: 1.2.840.10008.5.1.4.1.1.7
- Proposed transfer syntax 1: 1.2.840.10008.1.2.1
- Proposed transfer syntax 2: 1.2.840.10008.1.2
- Presentation Context 5: 1.2.840.10008.5.1.4.1.1.88.22
- Proposed transfer syntax 1: 1.2.840.10008.1.2.1
- Proposed transfer syntax 2: 1.2.840.10008.1.2

# Sending A-ASSOCIATE-AC...
- Presentation Context 1: 1.2.840.10008.5.1.4.1.1.2
- Accepted transfer syntax 1: 1.2.840.10008.1.2.1
- Presentation Context 3: 1.2.840.10008.5.1.4.1.1.7
- Accepted transfer syntax 1: 1.2.840.10008.1.2.1
- Presentation Context 5: 1.2.840.10008.5.1.4.1.1.88.22
- Accepted transfer syntax 1: 1.2.840.10008.1.2.1

- A-ASSOCIATE-AC was sent

# Waiting for service request...
# C-STORE-RQ service request was received
# C-STORE-RQ was received from AE Title "SANTE1"
- Message Contents:
  Group  Elem  VR  Size  Data
  0000   0000  UL   4     134
  0000   0002  UI   26    1.2.840.10008.5.1.4.1.1.2
  0000   0100  US   2     1H
  0000   0110  US   2     7H
  0000   0700  US   2     2H
  0000   0800  US   2    102H
                    
```

When a service has been finished it is removed from this list. Use the menu commands **"Network → View Network (SCP) Report"** and **"Network → View Network (SCU) Report"** to view the reports of the completed services.

Automatic CD/DVD burning and printing of received studies

Sante DVD Burning Server when receives studies, except of storing them on the disk it also sends them automatically for CD/DVD burning and label printing to robotic disk publisher devices of EPSON and PRIMERA.



For this purpose it uses two additional AE Titles, one with the addition of "_E" suffix in the original AE Title and one with the addition of "_P" suffix. **E.g.** If the defined AE Title is **SANTEDVD1**, the program creates the AE Titles **SANTEDVD1_E** and **SANTEDVD1_P** as well. These additional AE Titles are used for automatic CD/DVD burning and printing.

Sante DVD Burning Server ✕

Network Server Setup

This DICOM Server

AE Title	Port
<input type="text" value="SANTEDVD1"/>	<input type="text" value="11123"/>

IP Address : 192.168.1.6

Run the server as service

Automatic burning and printing of received series/studies

If a client/scanner uses a single connection to send all the contents of a CD/DVD use the AE Titles below:

AE Title for automatic burning and printing on Epson robot:
SANTEDVD1_E ←

AE Title for automatic burning and printing on Primera robot:
SANTEDVD1_P ←

Delayed burning and printing of received series/studies

If a client/scanner uses multiple connections to send the contents of the same CD/DVD use the AE Titles below:

AE Title for delayed burning and printing on Epson robot:
SANTEDVD1_TE

AE Title for delayed burning and printing on Primera robot:
SANTEDVD1_TP

Delay Time (sec)

Studies will be burned on the same CD/DVD if they have the same:

Enable Debug Mode

- If a client DICOM node (a CT/MR/US/DX or other medical scanner, a DICOM workstation etc.) instead of using the original AE Title of Sante DVD Burning Server it uses the AE Title with the "_E" suffix, then Sante DVD Burning Server stores the received series/studies on the database and automatically sends them for printing and burning to an **EPSON** producer.
- If a client DICOM node (a CT/MR/US/DX or other medical scanner, a DICOM workstation etc.) instead of using the original AE Title of Sante DVD Burning Server it uses the AE Title with the "_P" suffix, then Sante DVD Burning Server stores the received series/studies on the database and automatically sends them for printing and burning to an **PRIMERA** producer.

Delayed automatic CD/DVD burning and printing of received studies

Some medical scanners use multiple connections to send a whole study (usually one connection per series of the study). In that case, the program by using the AE title with "_E" and "_P" suffixes that described in the previous paragraph, will create one CD/DVD per connection, that is one CD/DVD for every series, and not one CD/DVD for the whole study that contains all the series of the patient.

In that case the client DICOM node (a CT/MR/US/DX or other medical scanner, a DICOM workstation etc.) must use the AE Title with a "_TE" or "_TP" suffix. With these suffixes the program waits for a specific time before sending the received series of the study for printing and burning. If it receives a new series that belong to the study in delay, it waits again the specified time for the next series and so on. If it does not receive in the specified time a series that belong to the study in delay, it sends the study for burning and printing.

The user specifies the delay time in the control **Delay Time (sec)** control of the dialog box below. The default value is 120 sec.

The user can specify the method (same Patient ID or same Study UID) that the program will use to group the series together so to burn them in the same CD/DVD, from the relative combo box.

Sante DVD Burning Server

Network Server Setup

This DICOM Server

AE Title: SANTEDVD1 Port: 11123

IP Address: 192.168.1.6

Run the server as service

Automatic burning and printing of received series/studies

If a client/scanner uses a single connection to send all the contents of a CD/DVD use the AE Titles below:

AE Title for automatic burning and printing on Epson robot: SANTEDVD1_E

AE Title for automatic burning and printing on Primera robot: SANTEDVD1_P

Delayed burning and printing of received series/studies

If a client/scanner uses multiple connections to send the contents of the same CD/DVD use the AE Titles below:

AE Title for delayed burning and printing on Epson robot: SANTEDVD1_TE

AE Title for delayed burning and printing on Primera robot: SANTEDVD1_TP

Delay Time (sec): 60

Studies will be burned on the same CD/DVD if they have the same: Patient ID

Enable Debug Mode

OK Cancel Help...

Default Producer

If a DICOM node does not use anyone of the prefix _E, _P, _TE or _TP in the AE Title to select the destination producer, the program sends the studies received from this client to default producer that has been specified in **Default Producer** combo box of the "Options → CD/DVD Producer Setup" command.

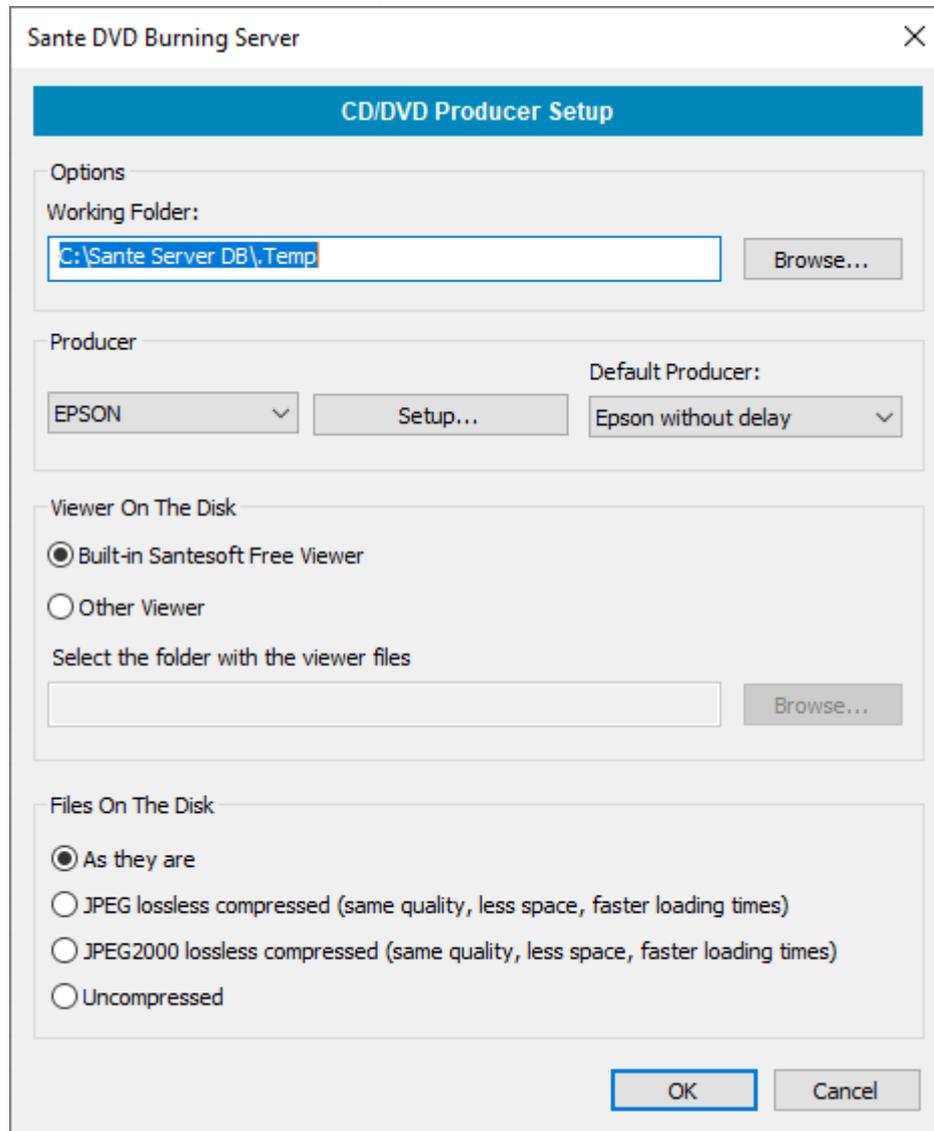
Producer

EPSON Setup...

Default Producer: Epson without delay

CD/DVD Producer Setup

Use the “Options → CD/DVD Producer Setup” command to configure the CD/DVD robotic disk publisher device. The program supports the devices of EPSON and PRIMERA.



The above dialog box lets the user to select the working folder and to configure the EPSON/PRIMERA producers. In the working folder the program copies the files to be burned to the CD/DVD. The program deletes the files after the CD/DVD production.

Producer

Select the desired producer and press the “**Setup...**” button to setup the producer.

Default Producer

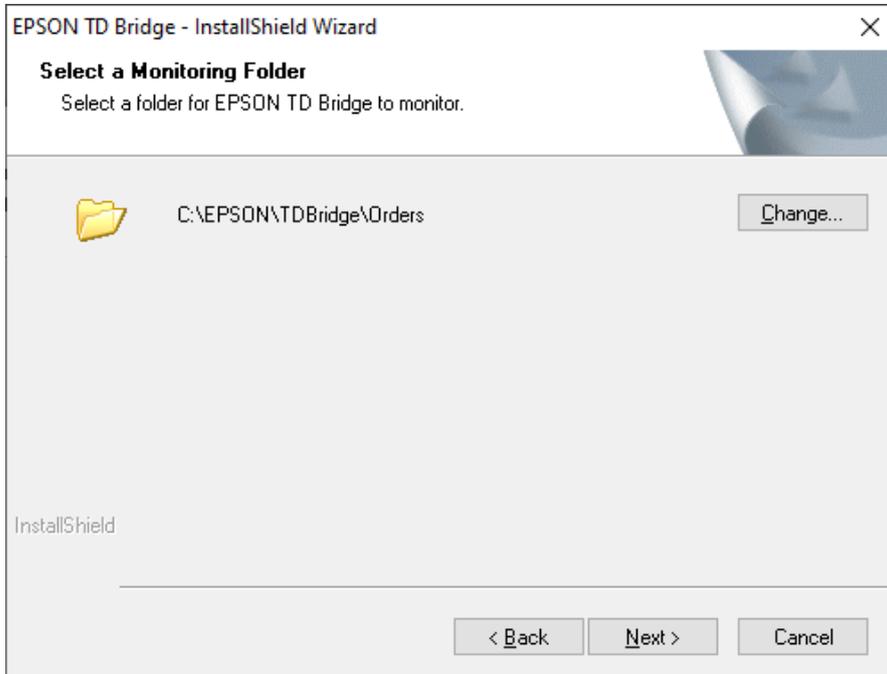
When a DICOM node does not use any of the prefix **_E**, **_P**, **_TE** or **_TP** in the AE Title to select the destination producer, the program sends the studies received from this client to default producer that has been specified in this combo box.

EPSON Configuration

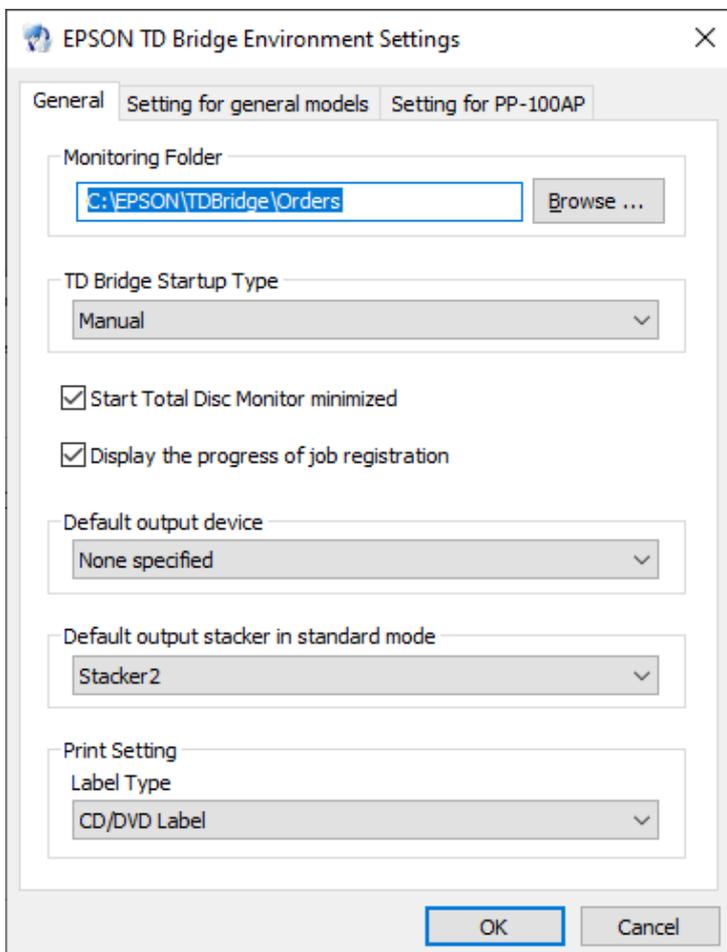
[Epson driver and software setup](#)

Download and install the **TD Bridge** and **Total Disc Maker** software from the site of EPSON.

During the setup the user will be asked to define the monitoring folder:



The monitoring folder can be changed later with the **EPSON TD Bridge Environment Settings** software:

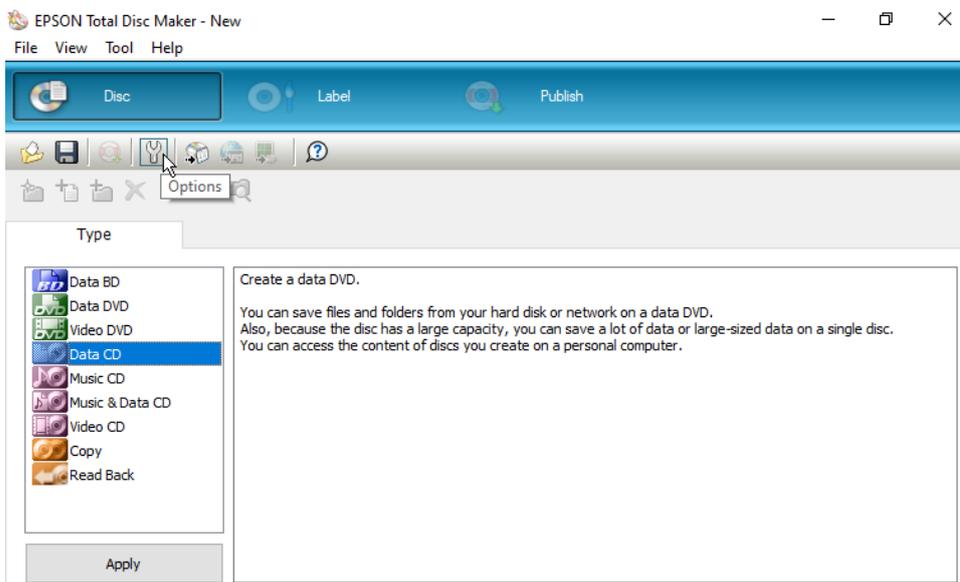


ATTENTION!

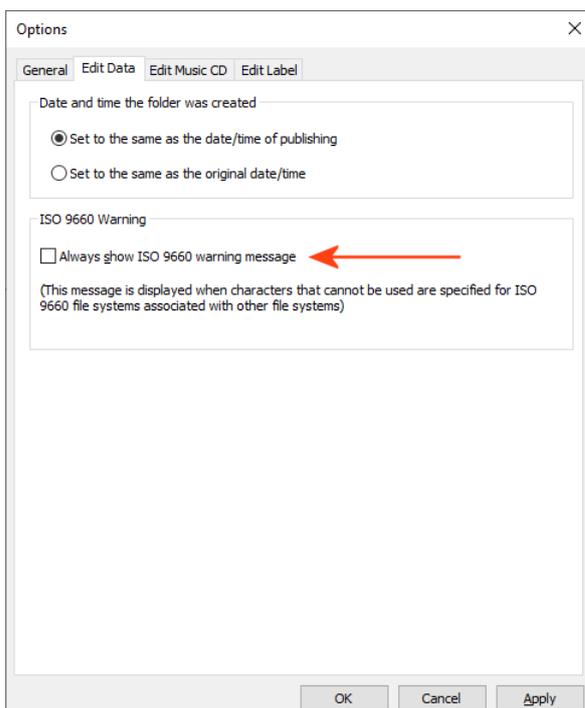
By default the EPSON producer displays a warning message if the CD to be burned uses the **Joliet** file system instead of the **ISO 9660 Level 2** and the CD **will not be burned**.



Sante DVD Burning Server uses the Joliet file system for CDs, thus **the user must disable this warning**. To do so, run the “**EPSON Total Disc Maker**”, select the “**Data CD**” disk type and press the “**Options**” button.

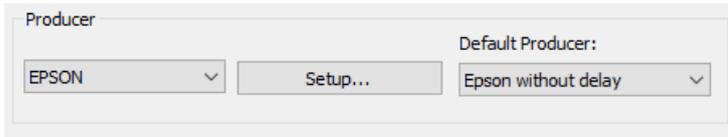


Uncheck the checkbox “**Always show 9660 warning message**”

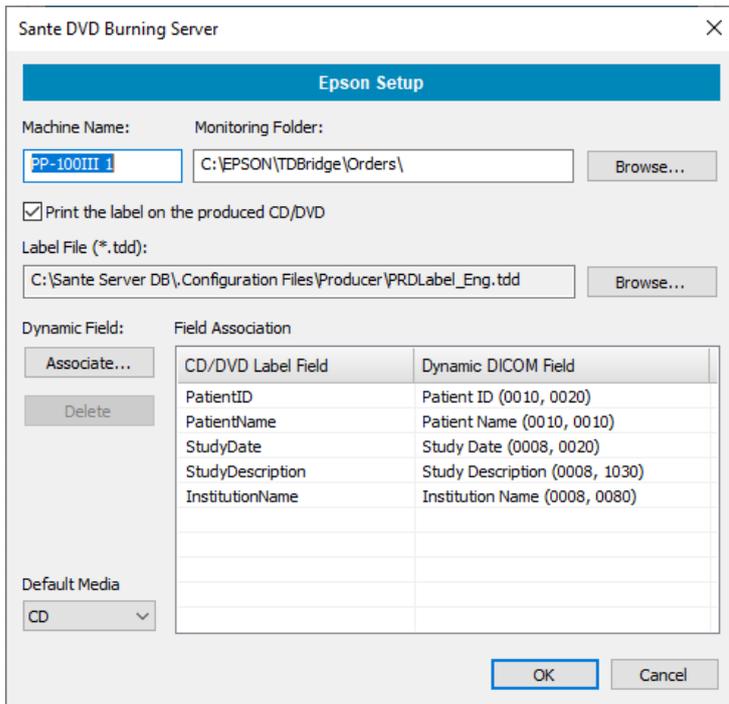


Sante DVD Burning Server setup for Epson producers

Select the menu command “Options → CD/DVD Producer Setup”, select the “EPSON” producer and press the “Setup...” button.



The following dialog box appears and lets the user to setup the Epson producer.



Machine name

It is the name used to communicate with EPSON machine. It must be the name of the model of the EPSON producer.

Monitoring Folder

Specifies the folder where the program will copy the job file to be processed by the Epson TD Bridge software.

Label File

Specifies the pathname of the label project (TDD) file.

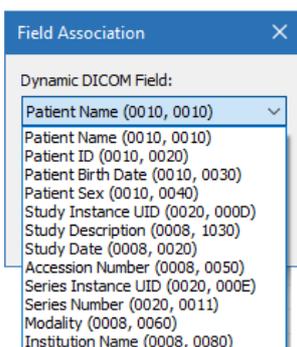
The label project file contains the label fields (patient name, study date, institution name etc.) that will be printed on the surface of the CD.

This information is taken by the DICOM files.

Dynamic Field / Field Association

Allows setting the associations between a label field and a dynamic field that will be taken by DICOM files.

The “Associate...” button creates an association between a “CD Label Field” and a “Dynamic Field” of the dropdown containing basic DICOM fields.



The “Delete” button deletes an association.

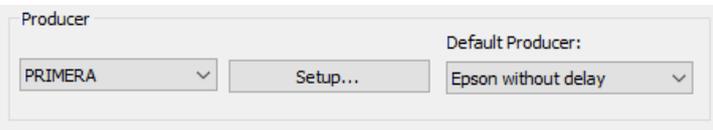
PRIMERA Configuration

Primera driver and software setup

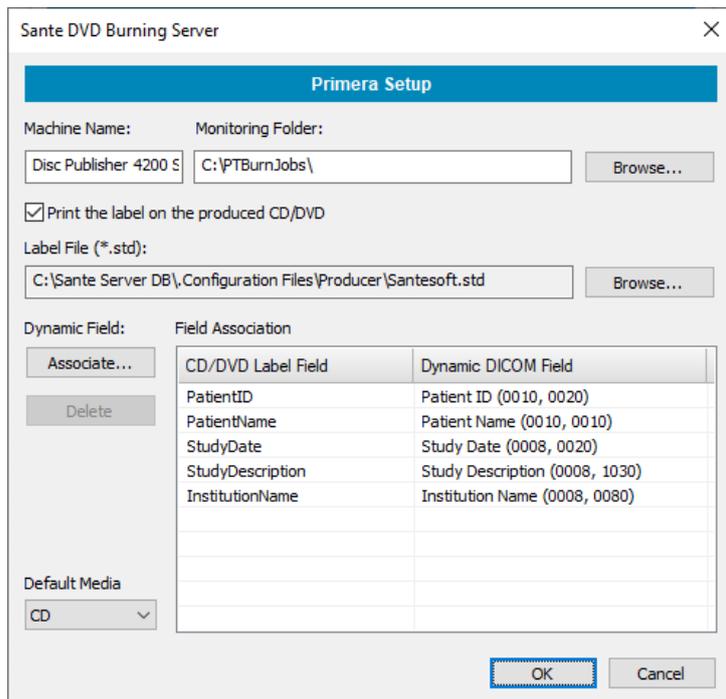
Download and install the driver of the producer from the site of **PRIMERA**, and select the Shared (monitoring folder).

Sante DVD Burning Server setup for Primera producers

Select the menu command "**Options** → **CD/DVD Producer Setup**", select the "**PRIMERA**" producer and press the "**Setup..**" button.



The following dialog box appears and lets the user to setup the Primera producer.



Machine name

It is the name used to communicate with PRIMERA machine. It must be the name of the model of the PRIMERA producer.

Monitoring Folder

Specifies the folder where the program will copy the job file to be processed by the Primera PTBurn software.

Label File

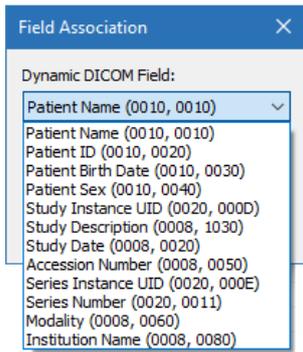
Specifies the pathname of the label project (STD) file.

The label project file contains the label fields (patient name, study date, institution name etc.) that will be printed on the surface of the CD. This information is taken by the DICOM files.

Dynamic Field / Field Association

Allows setting the associations between a label field and a dynamic field that will be taken by DICOM files.

The "**Associate...**" button creates an association between a "CD Label Field" and a "Dynamic Field" of the dropdown containing basic DICOM fields.



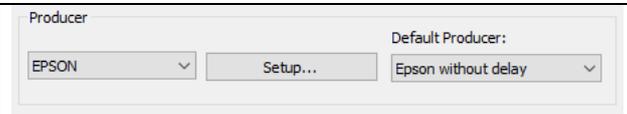
The **Delete** button deletes an association.

Example with Epson Disk Publisher

With Epson software (Epson Total Disk Maker) create a label file (*.tdd) that describes the layout of the DVD labels.

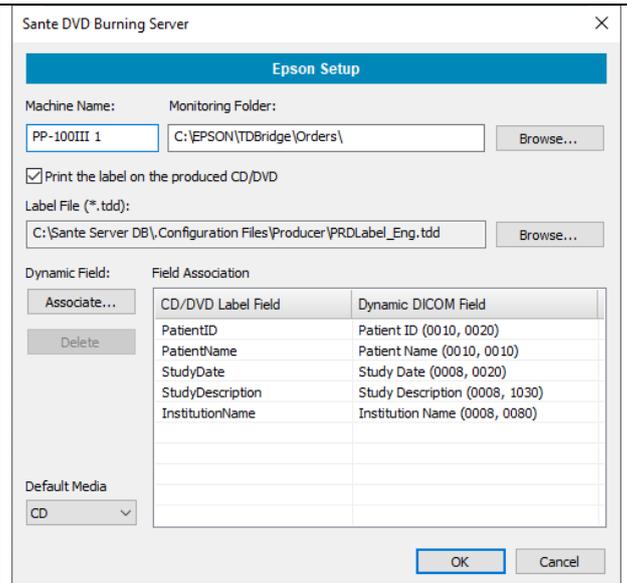


Then you must associate a label name (e.g. PATIENTNAME_1) with a DICOM field (e.g. 0010,0010 Patient Name). To do that, select the menu command "**Options** → **CD/DVD Producer Setup**".

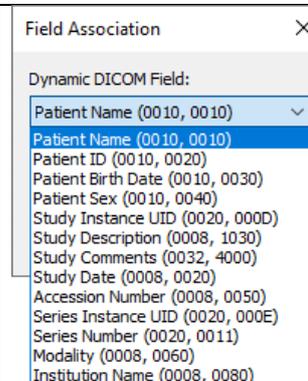


Select the "**EPSON**" as producer and press the "**Setup...**" button. In the follow dialog box:

- 1) Insert the correct Model Name (e.g. PP-100 II, PP-100 III etc.)
- 2) Select the path of the tdd file that you created
- 3) Associate the labels of the CD/DVD with a DICOM tag

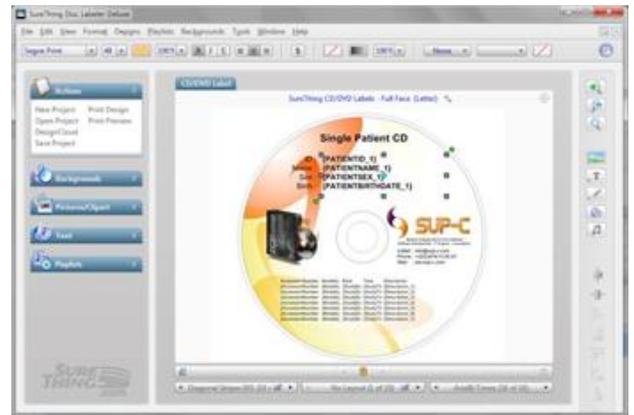


The "**Associate...**" button creates an association between a "CD Label Field" and a "Dynamic Field" of the dropdown combo box that contains basic DICOM fields.

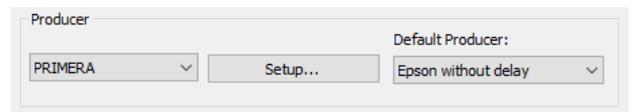


Example with Primera Disk Publisher

With Primera software create a label file (*.std) that describes the layout of the DVD labels.

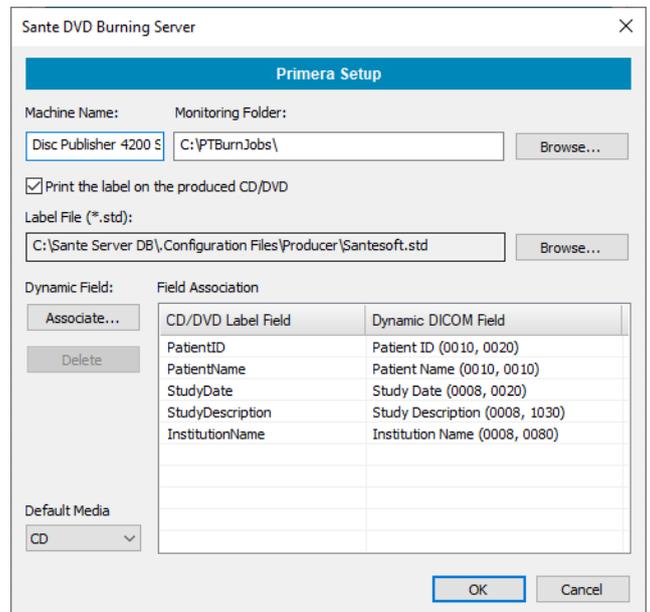


Then you must associate a label name (e.g. PATIENTNAME_1) with a DICOM field (e.g. 0010,0010 Patient Name). To do that, select the menu command **"Options → CD/DVD Producer Setup"**.

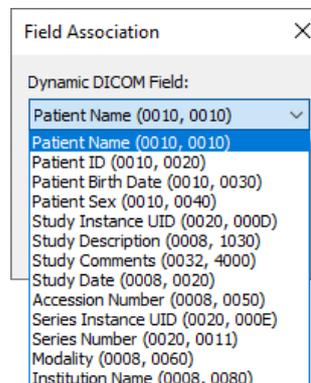


Select the **"PRIMERA"** as producer and press the **"Setup..."** button. In the follow dialog box:

- 1) Insert the correct Model Name (e.g. Disc Publisher 4200 Series)
- 2) Select the path of the std file that you created
- 3) Associate the labels of the CD/DVD with a DICOM tag

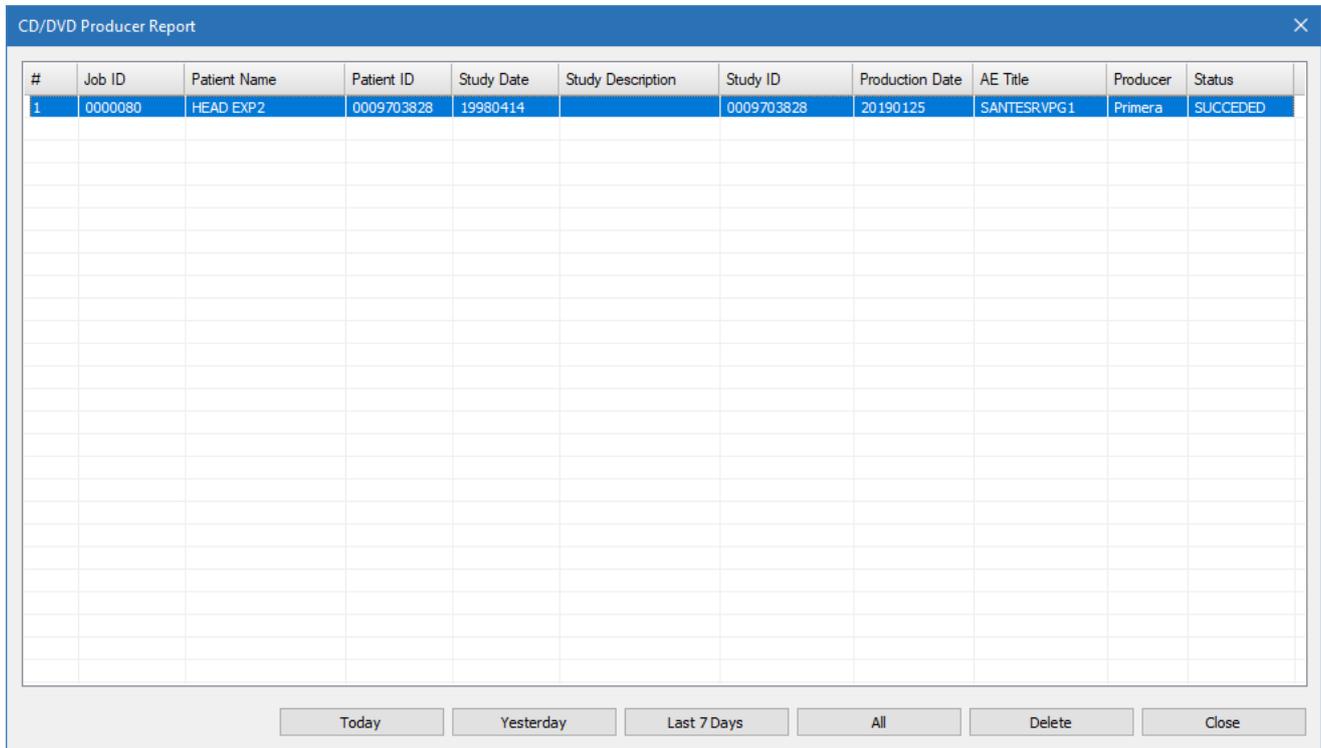


The **"Associate..."** button creates an association between a "CD Label Field" and a "Dynamic Field" of the dropdown combo box that contains basic DICOM fields.



Report of active CD/DVD Producer jobs

Select the menu command “**Report** → **Active CD/DVD Producer Jobs**” to review the status of the active jobs of the producer.

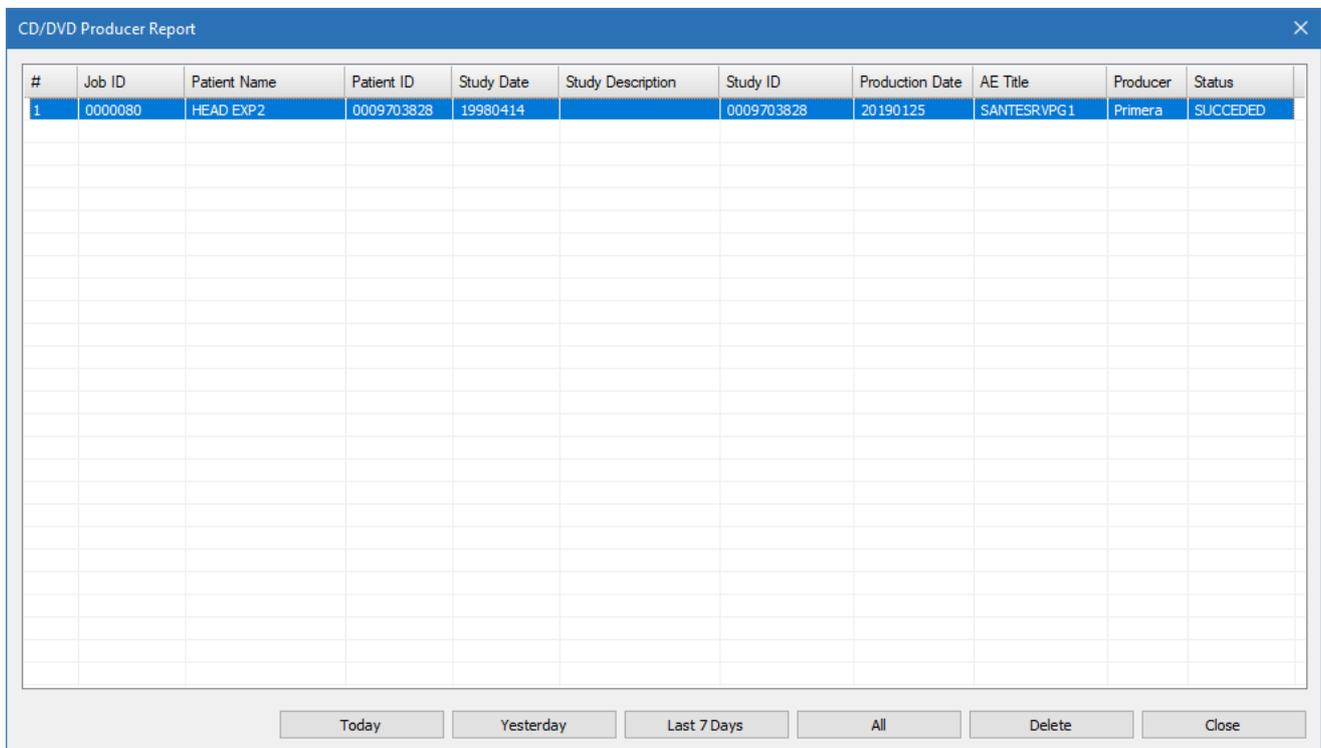


The screenshot shows a window titled "CD/DVD Producer Report" with a close button (X) in the top right corner. The window contains a table with the following columns: #, Job ID, Patient Name, Patient ID, Study Date, Study Description, Study ID, Production Date, AE Title, Producer, and Status. The first row of the table is highlighted in blue and contains the following data: # 1, Job ID 0000080, Patient Name HEAD EXP 2, Patient ID 0009703828, Study Date 19980414, Study Description, Study ID 0009703828, Production Date 20190125, AE Title SANTESRVPG1, Producer Primera, and Status SUCCEEDED. Below the table, there are six buttons: Today, Yesterday, Last 7 Days, All, Delete, and Close.

#	Job ID	Patient Name	Patient ID	Study Date	Study Description	Study ID	Production Date	AE Title	Producer	Status
1	0000080	HEAD EXP 2	0009703828	19980414		0009703828	20190125	SANTESRVPG1	Primera	SUCCEEDED

Report of finished CD/DVD Producer jobs

Select the menu command “**Report** → **CD/DVD Producer Jobs**” to review the report of the finished jobs of the producer.



The screenshot shows a window titled "CD/DVD Producer Report" with a close button (X) in the top right corner. The window contains a table with the following columns: #, Job ID, Patient Name, Patient ID, Study Date, Study Description, Study ID, Production Date, AE Title, Producer, and Status. The first row of the table is highlighted in blue and contains the following data: # 1, Job ID 0000080, Patient Name HEAD EXP 2, Patient ID 0009703828, Study Date 19980414, Study Description, Study ID 0009703828, Production Date 20190125, AE Title SANTESRVPG1, Producer Primera, and Status SUCCEEDED. Below the table, there are six buttons: Today, Yesterday, Last 7 Days, All, Delete, and Close.

#	Job ID	Patient Name	Patient ID	Study Date	Study Description	Study ID	Production Date	AE Title	Producer	Status
1	0000080	HEAD EXP 2	0009703828	19980414		0009703828	20190125	SANTESRVPG1	Primera	SUCCEEDED