

DICOMBurner, version 3

User Manual



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1 Abbreviations

Abbreviation	Description
AE	Application Entity
BMP	Bitmap
DICOM	Digital Imaging and COmmunications in Medicine
DIMSE	DICOM Message Service Element
DLL	Dynamic Link Library
DPI	Dots Per Inch
GUI	Graphical User Interface
ICM	Integrated Color Management
ID	Identifier
JPEG	Joint Picture Experts Group
LAN	Local Area Network
PC	Personal Computer
PDU	Protocol Data Unit
PNG	Portable Network Graphics
RAM	Random Access Memory
SCP	Service Class Provider
SCU	Service Class User
SOP	Service-Object Pair
TCP	Transfer Control Protocol
TIFF	Tagged Image File Format
UID	Unique Identifier
USB	Universal Serial Bus
VR	Value Representation

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2 Indications for use

The DICOMBurner software allows receiving and storing DICOM files on a database residing on a networked PC. In addition DICOMBurner allows burning DICOM files on one or more CDs or DVDs, with an embedded autorunning viewer. It is intended as a mean to produce digital media containing medical images, to be provided to patients in substitution of the traditional film hard copies of the exams. Also the produced media can be used to exchange DICOM files between non-connected PACS or DICOM workstations. The images stored on the CDs/DVDs can be directly viewed on a normal PC through the embedded autorunning DICOM Viewer; this software is meant for review of the medical images, and not for diagnosis. Nevertheless, the DICOM images stored by DICOMBurner provide no quality loss with respect to the original images (no lossy compression is used by DICOMBurner), hence they can be used as an element for diagnosis once they are transferred or imported on a PACS diagnostic workstation.

3 Introduction

NeoLogica DICOMBurner is a mini-PACS system that allows a complete interaction with a DICOM Network. It's able to import/export DICOM files coming from digital modalities or local disks. It has advanced CD/DVD production capabilities.

DICOMBurner is an interface between the DICOM world of the digital modalities and a PC local database to store them. DICOMBurner software runs on a PC based hardware platform equipped with a CD or DVD burner. In addition it can be equipped with a CD/DVD Production Unit (such as Rimage, MFDigital or Primera) to automate the CD/DVD burning and to print the CD/DVD surface in order to label it.

DICOMBurner is a Windows-based server application running in background: no user interaction is necessary to have it working as a DICOM SCP for storage or query/retrieve. Nevertheless, a GUI is provided in order to adjust configuration parameters and to burn the received DICOM files.



Interaction of the *DICOMBurner* system with a DICOM network



This document will explain the meaning of the available configuration parameters and all the functionalities available from the DICOMBurner GUI.

4 Interface architecture and main dialog

The DICOMBurner application runs in background, with an icon in the system tray area of Windows. When you start the application, a balloon tooltip for the system tray icon is displayed for some seconds.



DICOMBurner's main tray menu

By double-clicking on the DICOMBurner tray icon, the main DICOMBurner dialog appears. This dialog box provides some status information and global statistics about the DICOM associations.

The following picture shows a snapshot of DICOMBurner's main dialog box.

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leoLogica DICOME	Burner				
Start Stop	Log Burn -	Import Export	- Delete	ackup Restore	Settings Hide About
				DICOMBL	Irner
itore SCP Server Current server s	tatus: Server started.			Lis	tening TCP Port: 104
ieneral Statistics — Max. concurrent	associations: 10			Association reque	sts since startup: 0
📃 Activ	ve: 0 ilable: 10	θ		📃 Accep 📕 Rejec	oted: 0
Storage usage (I Usec	MByte): d: 3997			📄 Relea	ised: 0
ask List					
d Id	Time	Name	Level	Status	Progress
0	2006/12/19 12:27:14 2006/12/19 12:27:09	Delete Import	Study Folder	Completed Aborted	100 %
Task details:					

DICOMBurner's main dialog box

In DICOMBurner's main dialog box, the following information is provided:

- Store SCP Server:
 - Current server status: tells if the connection server is started or stopped. The connection server must be started if client connections and associations from Storage SCU have to be accepted. When the connection server is started, it is impossible to modify the DICOMBurner configuration parameters. In order to access to the configuration features, the server must be stopped first.
 - Listening TCP Port: the TCP Port where DICOMBurner is listening to for incoming connections.

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 - General Statistics:
 - Max concurrent associations: the maximum number of concurrent DICOM associations accepted by DICOMBurner. This value may be changed in the "Settings... → DICOM Configuration" section.
 - Active: the number of DICOM associations currently active. This value gives an indication of the current workload.
 - Available: the number of concurrent DICOM associations that are still available.
 - **Association requests since startup**: the number of DICOM association requests received since the application startup.
 - Accepted: the number of accepted DICOM association requests since the application startup.
 - Rejected: the number of rejected DICOM association requests since the application startup. An association request may be rejected, for instance, because the maximum number of concurrent associations has been reached.
 - **Released**: the number of DICOM associations that have been regularly released by DICOMBurner.
 - Aborted: the number of aborted DICOM associations since the application startup. An association may be aborted by both the SCP and the SCU when an abnormal condition occurs (unexpected PDU, DICOM Upper Layer protocol error, etc.).
 - **Storage usage**: represents the usage of the DICOM files archive.
 - **Used**: the size of the used storage expressed in MByte.
 - Available: the size of the available space for the storage expressed in MByte.
 - Task List:
 - **List**: all the tasks that user launched during the server running. It shows the task ID, its starting time, its name, origination level, status and its progress percentage.
 - **Task details**: the details related to the selected task. Depending on the selected task you can see some useful information to understand what the task done.
 - **Delete/Abort buttons**: respectively to Delete a completed task and to Abort a running one.

DICOMBurner's main dialog also provides a toolbar positioned on the top of the client area, which allows performing all main operations with the program. An overview of each toolbar button is now provided. Each individual feature will be described in detail in the following sections.





- Start: starts DICOMBurner's connection server. This allows accepting connections and DICOM association requests from DICOM Storage SCU's. Once the server is started, the "Settings" button is disabled.
- **Stop**: stops DICOMBurner's connection server. Once the server is stopped, it is no longer possible to accept connections and association requests from DICOM Storage SCUs. On the other side, the "Settings" button is re-enabled.
- Log: opens the "View Log" dialog (described later in this document).
- Burn: allows burning received DICOM files onto CDs or DVDs.
- Import: allows importing DICOM files from a local folder or from a DICOM device (DICOM query/retrieve SCU) to the local database of the DICOMBurner.
- **Export**: allows exporting DICOM images into a local folder choosing a format among DICOM, BMP, TIFF, PNG and JPEG. In addition it's possible to export to a DICOM device (DICOM Store SCU).
- Delete: opens a GUI wizard allowing the selection of files to be deleted from the database.
- Backup: allows the backup of DICOM files or database content.
- Restore: allows the restore of DICOM files or database content (Disaster Recovery).
- **Settings**: allows entering the DICOMBurner configuration section. This functionality is only enabled when the connection server is stopped.
- Hide: causes DICOMBurner to be minimized as a system tray icon.
- **About**: displays information about the current DICOMBurner version. The following picture shows the "**About DICOMBurner**" dialog box for version 3.1 of DICOMBurner.



The About DICOMBurner dialog box

Some of the functionalities available through the buttons located on DICOMBurner's main toolbar are also available through the tray menu, by right-clicking on the DICOMBurner tray icon.



•	About DICOMBurner
3	Registration & Administration
	View DICOMBurner Manual
6	View Log
۹	Burn Files
8	Delete Files
1	Import Files
6	Export Files
۲	Backup Files
۲	Restore Files
	DICOMBurner Main Menu

The DICOMBurner tray menu

5 Creating a CD/DVD of DICOM files

DICOMBurner allows creating DICOM-compliant CDs or DVDs containing DICOM files. The DICOM files to be stored on CD or DVD can be selected by the user through intuitive wizard-based procedures. The produced media also contains an autorunning DICOM Viewer which allows viewing the medical images on a PC. A viewer named LocalEye and developed by NeoLogica is bundled with DICOMBurner, but the user can select any other he likes.

DICOMBurner provides a quick and easy process to burn the received DICOM files. If you want you can burn them by just one mouse click. The "**Burning**" dialog box appears when you press the "**Burn**" button on the main toolbar or on the correspondent menu item from the DICOMBurner tray pop-up menu. There exist six kinds of burning procedures:

- 1. Burn last patient
- 2. Burn all new images One CD/DVD per patient
- 3. Burn last study
- 4. Burn non-burnt
- 5. Burn custom from local storage
- 6. Burn custom from DICOM device



These six options are accessible by clicking the small down arrow located next to the "**Burn**" button on the main toolbar. Once you select one of the available burning options from the pop-up menu, it will become the default option associated with the "**Burn**" toolbar button.

Note: if the set of DICOM files to burn exceeds the free size of the media you've loaded, then DICOMBurner spans the DICOM files over two or more CDs/DVDs.

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5.1 Burn last patient

By selecting the "Burn last patient" option, you are able to burn all the DICOM files related to the patient the last received and stored image belongs to (i.e. the "last patient"). DICOMBurner displays a dialog showing the data related to the last patient. Then you have to select the patient you want to burn and in addition you can change the CD/DVD options with respect to the default one set by the "CD/DVD Burner Configuration" tab. Pressing the "Burn Patients" button will start the actual CD or DVD writing procedure. Otherwise by pressing the "Delete Patients" button you can delete the selected patient and its instances from the storage and database.

<u> </u>	Patient ID	Patient Sex	Patient Birth Date	
rostate Otto	Demo patient 2			
Select All	CD/DVD options -			
	CD/DVD unit nar	ne: NewUnit_0	Num. of cop	pies: 1
	Eject CD/DV	D at the end of the files from database	burning process e at the end of the burning	process
	Add the con	figured autorunning	DICOM viewer on the CD/	DVD

5.2 Burn all new images - One CD/DVD per patient

By selecting the "*Burn all new images – One CD/DVD per patient*" option, you are able to burn all the new DICOM files received by DICOMBurner (since last burn), creating one CD/DVD per patient. DICOMBurner displays a dialog showing the data related to the patients. This dialog may eventually list more then one patient when several DICOM files belonging to different patients have been received and stored by



DICOMBurner since last burn operation. Then you can choose the patients you want to burn and in addition you can change the CD/DVD options with respect to the default one set by the *"CD/DVD Burner Configuration"* tab. Pressing the **"Burn Patients**" button will start the actual CD or DVD writing procedure. Otherwise by pressing the **"Delete Patients**" button you can delete the selected patient and its instances from the storage and database.

If you select a CD/DVD Production Robot by the "CD/DVD unit name" list, you can automatically produce a CD or DVD per patient by selecting all the listed patients. Otherwise by a local burner, only one single patient can be burnt.

	Patient ID	Patient Sex	Patient Birth Date	
Prostate Otto Registration CT-PET	Demo patient 2 Demo patient 3	M		
Select All	CD/DVD options	ne: NewUnit_0	Num. of c	opies: 1
	Eject CD/DVI Delete burnt Add the conf) at the end of the files from database igured autorunning	burning process e at the end of the burnin) DICOM viewer on the Cl	ng process D/DVD

5.3 Burn last study

By selecting the "*Burn last study*" option, you are able to burn all the DICOM files related to the study the last received and stored image belongs to (i.e. the "last study"). DICOMBurner displays a dialog showing the data related to the last study. Then you have to select the study you want to burn and in addition you can change the CD/DVD options with respect to the default one set by the "*CD/DVD Burner Configuration*" tab. Pressing the "**Burn Studies**" button will start the actual CD or DVD writing procedure. Otherwise by pressing the "**Delete Studies**" button you can delete the selected study and its instances from the storage and database.



	Patient ID	Study Date	Study Description Accession Num	ber Study Ins
rostate Otto	Demo patient 2	1999/07/15		2.16.124
1				
Select All		options D unit name: Ne	wUnit_0 Vum. of copies: 1	
	IV Eje I De IV Ad	ect CD/DVD at the e lete burnt files from d the configured au	end of the burning process n database at the end of the burning process utorunning DICOM viewer on the CD/DVD	

5.4 Burn non-burnt

By selecting the "*Burn non-burnt*" option, you are able to burn all the DICOM files which have been received and stored by DICOMBurner, but which haven't been burnt onto CD or DVD yet. DICOMBurner displays a dialog box showing the list of non-burnt instances. Then you can choose the DICOM files you want to burn and in addition you can change the CD/DVD options with respect to the default one set by the "CD/DVD Burner Configuration" tab. Pressing the "**Burn Instances**" button will start the actual CD or DVD writing procedure. Otherwise by pressing the "**Delete Instances**" button you can delete the selected instances from the storage and database.



👏 Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	File Path	SOP Instance UID
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		F:\Storage\RTP	1.3.6.1.4.1.2452.6.120
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		F:\Storage\RTD	1.3.6.1.4.1.2452.6.159
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		F:\Storage\RTD	1.3.6.1.4.1.2452.6.345
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		F:\Storage\RTD	1.3.6.1.4.1.2452.6.400
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		F:\Storage\RTD	1.3.6.1.4.1.2452.6.402
rostate Otto	Demo patient 2		2006/10/10 - 16:53:35		F:\Storage\RTS	2.16.124.113534.2.3.5
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	1	F:\Storage\RT\	1.3.6.1.4.1.2452.6.120
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	2	F:\Storage\RT\	1.3.6.1.4.1.2452.6.120.
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	3	F:\Storage\RT\	1.3.6.1.4.1.2452.6.120
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	4	F:\Storage\RT\	1.3.6.1.4.1.2452.6.120
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	5	F:\Storage\RT\	1.3.6.1.4.1.2452.6.120
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	6	F:\Storage\RT\	1.3.6.1.4.1.2452.6.120
rostate Otto	Demo patient 2		2006/10/10 - 16:53:35	7	F:\Storage\RT\	1.3.6.1.4.1.2452.6.120
Select All						
	CD/DW	D unit name: New ct CD/DVD at the en- ete burnt files from o d the configured auto	Unit_0 Num. o d of the burning process database at the end of the bu prunning DICOM viewer on the	of copies: 1 rning process cD/DVD		
	CD/DV CD/DV Eje De Ad	D unit name: New ct CD/DVD at the en- ete burnt files from o d the configured auto hange Profile: No	Unit_0 Num. of the burning process database at the end of the burning DICOM viewer on the profile (Unmodified Transfer	of copies: 1		_

5.5 Burn custom from local storage

If you select the *"Burn custom from local storage"* option, DICOMBurner shows a GUI wizard guiding you through a hierarchical (Study – Series – Instance) selection of the DICOM files to burn onto CD or DVD. The DICOM files will be selected by query the local storage.

5.5.1 Study-level search

The study-level step of the wizard procedure allows you to select the studies containing the DICOM files you want to burn onto CD or DVD. This step includes both the filtering options related to patient and study levels. The list of studies can be filtered by specifying some filtering options (or search criteria): in particular, the patient identification filters, the acceptable range of birth dates, the patient sex and the acceptable range of study dates. By pressing the "**Filter**" button you obtain the list of studies satisfying the set conditions. Then you can select all studies you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of studies, studies size, number of series and number of instances are provided for the selected studies. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the burning or

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deleting procedure of the selected studies without reaching the last wizard step by pressing the "**Burn Studies**" button or "**Delete Studies**" button respectively. DICOMBurner will execute the burning operation using the default burning options.

💩 Patient Name	Patient ID	Patient Sex	Patient Birth Date	Study Date	Study Description
	ME-0000012	M	1050/07/04	2005/06/10	Abdomen with contract
Brain Simulated	MF-0000021	M	1950/07/04	2005/06/10	Brain
Prostate Otto	Demo patient 2			1999/07/15	
Registration CT-PET	Demo patient 3	M		2004/06/17	
Test Patient	ANON-2005100	M		2005/10/06	Test Study for Borderless
Selected Studies Information Number of Studies: 3		Jumber of Series:	7		
Studies Size: 12.40 Select All	MB N	Jumber of Instances	21		Delete Studies Burn Studies
ease select the parameters used to fil Patient Identification Show only patients whose Patien Show only patients whose Patien	Iter the above Studies It Name: contains It ID: starts with	List:	- Study Data		Sex Show only patients with sex equal to: Male Female Other
Show patients born after:	Show patie 2006/12/19	nts born before:	Study Date Show studies 2006/12/19	s started after:	Show studies started before:

5.5.2 Series-level search

The series-level step of the wizard procedure allows you to select the series containing the DICOM files you want to burn onto CD or DVD. The list of series can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of series dates and the producing modalities. By pressing the "**Filter**" button you obtain the list of series satisfying the set conditions. Then you can select all series you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of series, series size and number of instances are provided for the selected series. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the burning or deleting procedure of the selected series without

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reaching the last wizard step by pressing the "**Burn Series**" button or "**Delete Series**" button respectively. DICOMBurner will execute the burning operation using the default burning options.

💫 Patient Name	Patient ID	Modality	Series Date	Series Num	Series Description	9
Abdomen EatSatDyn	ME-0000012	MR	2005/06/10	1	Coronal two-phase IV contrast fat suppressed: temp pos	
Abdomen EatSatDyn	ME-0000012	MR	2005/06/10	2	Coronal fat suppressed: no contrast module, temp post	1
Brain Simulated	MF-0000021	MR	2005/06/10	1	Axial T2W real and imaginary components	1
Prostate Otto	Demo patient 2	RTIMAGE		1		1
Prostate Otto	Demo patient 2	RTDOSE		1		1
Prostate Otto	Demo patient 2	RTPLAN		1		1
Prostate Otto	Demo patient 2	RTSTRUCT		1		2
Prostate Otto	Demo patient 2	СТ		1		2
Registration CT-PET	Demo patient 3	PT		1		1
Fest Patient	ANON-2005100	SC	2005/10/06	1	Test Series for Borderless	1
selected series informat	.on					
Number of Series: Series Size:	7 12.40 MB	Numt	per of Instances:	21		
Number of Series: Series Size: Select All tering Options	7 12.40 MB	Numt	per of Instances:	21	Delete Series Burn S	eries
Number of Series: Series Size: Select All tering Options ease select the paramete Series Date Show series started 2006/12/19	7 12.40 MB rrs used to filter the abov after: 5 200	Numb re Series List: how series sta 6/12/19	arted before:	Series Modality Show series pro AU BI CD CR CR	Delete Series Burn S aduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	eries

5.5.3 Instance-level search

The instance-level step of the wizard procedure allows you to select the DICOM files/instances you want to burn onto CD or DVD. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of acquisition dates and the acceptable range of store dates. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. At this level if you select an instance by clicking with the mouse over the corresponding row of the *Instance List*, you obtain a preview image of the DICOM file. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All**.'Select **All**" button can simplify this task. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the burning or deleting procedure of the selected instances without reaching the last wizard step by pressing



the "Burn Instances" button or "Delete Instances" button respectively. DICOMBurner will execute the burning operation using the default burning options.

Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		1.3.6.1.4.1.2452.6.120040121.21137.344.4
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.159644927.1174006739
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.3454671679.107887431
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.4007965886.113471577
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.4029470474.128238746
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		2.16.124.113534.2.3.5.0.120031208.21135
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	1	1.3.6.1.4.1.2452.6.120040121.21137.345.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	2	1.3.6.1.4.1.2452.6.120040121.21137.345.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	3	1.3.6.1.4.1.2452.6.120040121.21137.344.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	4	1.3.6.1.4.1.2452.6.120040121.21137.344.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	5	1.3.6.1.4.1.2452.6.120040121.21137.344.2
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	6	1.3.6.1.4.1.2452.6.120040121.21137.344.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35	1	1.3.6.1.4.1.2452.6.120040121.21137.345.2
Select All					Delete Instances Burn Instances
Select All tering Options ease select the parame Acquisition Date Show images acqui 2006/10/11	ters used to filter the abo red after: Show in 2006/10/:	ve Instances List: mages acquired befor	e:		Delete Instances Delete Instances Burn Instances Preview of highlighted image Image: Compare the second s
Select All tering Options ease select the parame Acquisition Date Show images acqui 2006/10/11 Store Date Show images store 2006/10/11	ters used to filter the abo red after: Show in 2006/10/1 d after: Show in 2006/10/1	ve Instances List: mages acquired befor 11 mages stored before: 11	e:		Delete Instances Burn Instance: Preview of highlighted image

5.5.4 Burn files step

The burn file step is the last one in the wizard procedure: a list of the files that will be burnt on the CD/DVD is displayed. If you select a file by clicking with the mouse over the corresponding row of the *Files List*, you obtain a preview image of the DICOM file. Finally, you can start the burning process by pressing the "**Burn files**" button. Also in this case in you can change the CD/DVD options with respect to the default one set by the "*CD/DVD Burner Configuration*" tab.



🔊 File Path	SOP Instance UID	
************************************	1.3.6.1.4.1.2452.6.120040121.21137.344.469624044 1.3.6.1.4.1.2452.6.159644927.1174006739.214555921 1.3.6.1.4.1.2452.6.3454671679.1078874319.24349751 1.3.6.1.4.1.2452.6.3454671679.1078874319.24349751 1.3.6.1.4.1.2452.6.4009495886.1134715774.40377875 1.3.6.1.4.1.2452.6.4029470474.1282387468.14615592 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 1.3.6.1.4.1.2452.6.120040121.21137.345.1020430403 1.3.6.1.4.1.2452.6.120040121.21137.345.10543403 1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145 1.3.6.1.4.1.2452.6.120040121.21137.344.103119372 1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145 1.3.6.1.4.1.2452.6.120040121.21137.344.10319372 1.3.6.1.4.1.2452.6.120040121.21137.344.10319372 1.3.6.1.4.1.2452.6.120040121.21137.345.2053917167 1.3.6.1.4.1.2452.6.120040121.21137.345.32053917167 1.3.6.1.4.1.2452.6.120040121.21137.345.3425910 2.4.132.4112452.6.120040121.21137.345.34325911	
	Preview of highlighte	d file

5.6 Burn custom from DICOM device

If you select the "Burn custom from DICOM device" option, DICOMBurner shows a GUI wizard guiding you through a hierarchical (Study – Series – Instance) selection of the DICOM files to burn onto CD or DVD. The DICOM files will be selected by sending DICOM query commands to a pre-selected DICOM device.

5.6.1 DICOM Device Selection

The following dialog allows you to select the DICOM device to be queried. The DICOM devices have to be configured by entering the *"DICOM Devices Configuration"* tab.



DICOM Device Selection		×
Please, select the DICOM dev	rice to query:	
DICOM device description:	DICOM_Dev_1	•
Cancel		ОК

5.6.2 Study-level search

The study-level step of the wizard procedure allows you to query, select and retrieve the studies containing the DICOM files you want to burn onto CD or DVD. This step includes both the filtering options related to patient and study levels. The list of studies can be filtered by specifying some filtering options (or search criteria): in particular, the patient identification filters, the acceptable range of birth dates, the patient sex and the acceptable range of study dates. By pressing the "**Filter**" button you obtain the list of studies satisfying the set conditions. Then you can select all studies you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of selected studies is provided. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the retrieving and burning procedure of the selected studies without reaching the last wizard step by pressing the "**Burn Studies**" button. DICOMBurner will execute the burning operation using the default burning options.



💁 Patient Name 🛛 🗠	Patient ID	Patient Sex	Patient Birth Date	Study Date	Study Description
raip^Vol	ME-000003	M	19500704	20050610	Brain volume
rain voi rain Allair MS	ME-0000007	M	19500704	20050610	Axial MS brain with flair.t2 and pre/post
rain^3DESE	ME-0000008	M	19500704	20050610	3D ESE Brain
rain^Sagittal3D	MF-0000010	M	19500704	20050610	With and without sat slabs
rain^Stacks	MF-0000013	M	19500704	20050610	Brain tumor
rain^Functional	MF-0000017	M	19500704	20050610	fMRI
rain^Simulated	MF-0000021	M	19500704	20050610	Brain
rain^DWI	MF-0000023	M	19500704	20050610	fMRI
rain^PWI	MF-0000024	M	19500704	20050610	fMRI
ain^RFrontalTumorWSpectro	MF-0000020	M	19500704	20050610	Brain
reast^Dynamic	MF-0000002	F	19500704	20050610	Dynamic breast, 1 stack, 3 dimensions, te
Case Dynamic			40500704	00050410	Brain
elected Studies Information Number of Studies: 6	MF-0000025	M	19500704	20050510	Burn Studies
Select All sering Options	MF-0000025	M	19500704	20050510	Burn Studies
ielected Studies Information Number of Studies: 6 Select All ering Options ase select the parameters used to	Difilter the above Studie	es List:	19500704	200500	Burn Studies
Select All sering Options ase select the parameters used to vation Identification	Difilter the above Studie	IS List:		20050510	Burn Studies
Solect the parameters used to ation to the parameters used to	o filter the above Studie	IS List:		20050510	Sex
Select All Select All Select He parameters used to satisfy the parameters used to satisfy th	Dilter the above Studie ient Name:	In the second se			Burn Studies Sex Show only patients with sex equal to:
Select All Select the parameters used to attent Identification Show only patients whose Pat Show only patients whose Pat	Dilter the above Studie ient Name: starts wi ient ID: starts wi	s List:			Burn Studies Sex Show only patients with sex equal to: Male Female Other
Solve only patients Solve only patients whose Pat Show only patients whose Pat	Dilter the above Studie ient Name: Starts wi ient ID: Starts wi	IS List:	19500704		Burn Studies Sex Show only patients with sex equal to: Male Female Other
Show only patients whose Pat Show only patients whose Pat	Dilter the above Studie ient Name: starts wi ient ID: starts wi	In the second se	Study Date	200500	Sex
Cost Cyrianic C	D filter the above Studie ient Name: starts wi ient ID: starts wi	es List:	Study Date	20050610	Sex Sex Show only patients with sex equal to: Male Female Other
Cost Cost and Cost a	MF-0000025	es List:	Study Date Study Date Show studies 2006/12/19	s started after:	Sex Show only patients with sex equal to: Male Female Other Show studies started before: 2006/12/19
Cost Cyrianic Cost Cyrianic Cost Cyrianic LParietalTumorWSpectro Cost Cyrianic Cyr	MF-0000025	es List:	Study Date Show studies 2006/12/19	s started after:	Burn Studies Sex Show only patients with sex equal to: Male Female Other Show studies started before: 2006/12/19

5.6.3 Series-level search

The series-level step of the wizard procedure allows you to query, select and retrieve the series containing the DICOM files you want to burn onto CD or DVD. The list of series can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of series dates and the producing modalities. By pressing the "**Filter**" button you obtain the list of series satisfying the set conditions. Then you can select all series you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of selected series is provided. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the retrieving and burning procedure of the selected series without reaching the last wizard step by pressing the "**Burn Series**" button. DICOMBurner will execute the burning operation using the default burning options.



💫 Patient Name	Patient ID	Modality	Series Date	Series Num	Series Description	_
kain A2DESE	ME-000009	MD	20050610	1	2D ESE	
rain 301 DE	ME-0000010	MD	20050610	1	Segittal T1 without cat clab	
rain^Sagittal3D	ME-0000010	MD	20050610	2	Sagittal T1 with cat slab	
rain^Stacks	ME-0000013	MR	20050610	1	Various contrasts and projections	
rain^DWI	ME-0000023	MR	20050610	1	Diffusion weighted	
rain^PWI	ME-0000024	MR	20050610	1	Perfusion	
rain^RFrontalTumorWSpe	MF-0000020	MR	20050610	1	* SAG LOC	
rain^RFrontalTumorWSpe	MF-0000020	MR	20050610	2	* AXIAL DWI	
rain^RFrontalTumorWSpe	MF-0000020	MR	20050610	3	* FLAIR AXIAL	
rain^RFrontalTumorWSpe	MF-0000020	MR	20050610	4	* T2 FSE AXIAL	
rain^RFrontalTumorWSpe	MF-0000020	MR	20050610	5	* T1 AXIAL PRE GAD	
rain^RFrontalTumorWSpe	MF-0000020	MR	20050610	8	* T1 AXIAL POST GAD	
· · · · · · · · · · · · · · · · · · ·	ME-0000020	MR	20050610	9	* T1 SAG POST GAD	-
rain "RFrontal TumorWSpe Selected Series Information – Number of Series:	5		00050/10			`.
Select All	5					Burn Series
Select All ering Options select the parameters us ieries Date Show series started after Show series started after	5 sed to filter the ab	ove Series List: Show series st	arted before:	Series Modality Show series pri	oduced by Modality:	Burn Series
Select All Series Date Series Started after Series Started after Series Started after Series Started after Sono 47214	5 sed to filter the ab	ove Series List: Show series st	arted before:	Series Modality Show series pro	oduced by Modality:	Burn Series
Select All Select All Select the parameters useries Date Select after Started after Select All Sele	5 sed to filter the ab	ove Series List: Show series st 006/12/19	arted before:	Series Modality Show series pro	oduced by Modality:	Burn Series
Select All	5 sed to filter the ab	ove Series List: Show series st	arted before:	Series Modality Show series pro	oduced by Modality: Audio Biomagnetic imaging	Burn Series
Select All Select the parameters user started after Show series started after Soloc/12/19	5 sed to filter the ab	ove Series List: Show series st	arted before:	Series Modality Show series pro AU BI CD	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler	Burn Series
Select All series Date Select the parameters useries started after Soloc/12/19	5 sed to filter the ab	ove Series List: Show series st 006/12/19	arted before:	Series Modality Show series pro AU BI CD CR	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography	Burn Series
Select All	5 sed to filter the ab	ove Series List: Show series st 006/12/19	arted before:	Series Modality Show series pro AU BI CD CR CR	aduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Lamography	Burn Series
Fain RFrontal TumorWSpe Selected Series Information Number of Series: Select All ering Options sease select the parameters us Series Date Show series started after 2006/12/19	5 sed to filter the ab	ove Series List: Show series st	arted before:	Series Modality Show series pro AU BI CD CR CR	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	Burn Series
Select All Select All Select the parameters us Select for the parameters us Select All S	5 sed to filter the ab	ove Series List: Show series st 006/12/19	arted before:	Series Modality Show series pro AU BI CD CR CR	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	Burn Series
Select All Select All Series Date Solocitation Solocitati	5 sed to filter the ab	ove Series List: Show series st 006/12/19	arted before:	Series Modality Show series pro AU BI CD CR CR	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	Burn Series

5.6.4 Instance-level search

The instance-level step of the wizard procedure allows you to query, select and retrieve the DICOM files/instances you want to burn onto CD or DVD. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of acquisition dates and the acceptable range of store dates. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Finally, you can proceed to the next step by pressing the "**Burn Instances**" button. DICOMBurner will execute the burning operation using the default burning options.



rostate~Otto^^^ Demo patient 2 19000101 1 1.3.6.1.4.1.2452.6.120040121.21137.345.1020430403 rostate~Otto^^^ Demo patient 2 19000101 2 1.3.6.1.4.1.2452.6.120040121.21137.345.1020430403 rostate~Otto^^^ Demo patient 2 19000101 3 1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145 rostate~Otto^^^ Demo patient 2 19000101 4 1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145 rostate~Otto^^^ Demo patient 2 19000101 5 1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145 rostate~Otto^^^< Demo patient 2 19000101 5 1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145 rostate~Otto^^^< Demo patient 2 19000101 6 1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145 rostate~Otto^^^< Demo patient 2 19000101 7 1.3.6.1.4.1.2452.6.120040121.21137.344.1366237145 rostate~Otto^^^< Demo patient 2 19000101 1.3.6.1.4.1.2452.6.120040121.21137.344.2452521 rostate~Otto^^^< Demo patient 2 19000101 1.3.6.1.4.1.2452.6.120040121.21137.344.2452521 rostate~Otto^^^< Demo patient 2 19000101 1.3.6.1.4.1.2452.6.40024071474.282387468.14615592 rostate~Ot	🥙 Patient Name	Patient ID	Acquisition Date	Inst Num	SOP Instance UID	
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rostate^Otto^^^ Demo patient 2 19000101 7 1.3.6.1.4.1.2452.6.120040121.21137.345.2053917167 rostate^Otto^^^ Demo patient 2 19000101 8 1.3.6.1.4.1.2452.6.120040121.21137.345.34525910 rostate^Otto^^^ Demo patient 2 19000101 8.1.3.6.1.4.1.2452.6.159644927.1174006739.214555921 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.4029470874319.24349751 rostate^Otto^^^<	rostate^Otto^^^	Demo patient 2	19000101	6	1.3.6.1.4.1.2452.6.120040121.21137.344.114715643	
rostate^Otto^^^ Demo patient 2 19000101 8 1.3.6.1.4.1.2452.6.120040121.21137.345.34625910 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.159644927.1174006739.214555921 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.3456471679.1078874319.2343919.24349751 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.4007965886.1134715774.40377875 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.4029470474.1282387468.14615592 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.120040121.21137.344.469624044 rostate^Otto^^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 rostate^Otto^^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 rostate^Otto^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.4.103534.2.3.5.0.120031208.21135.318.26357 rostate^Otto^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 select All	rostate^Otto^^^	Demo patient 2	19000101	7	1.3.6.1.4.1.2452.6.120040121.21137.345.2053917167	
rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.159644927.1174006739.214555921 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.3454671679.1078874319.24349751 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.4007965886.1134715774.40377875 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.4029470474.1282387468.14615592 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.120040121.21137.344.469624044 rostate^Otto^^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 rostate^Otto^^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 select All Burn Instances Burn Instances select All Burn Instances select the parameters used to filter the above Instances List: cquisition Date Solo6/10/11 Y 2006/10/11	rostate^Otto^^^	Demo patient 2	19000101	8	1.3.6.1.4.1.2452.6.120040121.21137.345.34625910	
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rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.4007965886.1134715774.40377875 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.40029470474.1282387468.14615592 rostate^Otto^^^ Demo patient 2 19000101 1.3.6.1.4.1.2452.6.120040121.21137.344.469624044 rostate^Otto^^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 rostate^Otto^^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 rostate^Otto^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 select All Burn Instances Burn Instances ring Options ase select the parameters used to filter the above Instances List: vccuisition Date Show images acquired before: 2006/10/11 2 2006/10/11	rostate^Otto^^^	Demo patient 2	19000101		1.3.6.1.4.1.2452.6.3454671679.1078874319.24349751	
Image: constant of the state of th		Demo patient 2	19000101		1.3.6.1.4.1.2452.6.4007965886.1134715774.40377875	
Image: state And to And	rostater Ottor ***				1 3 6 1 4 1 2452 6 4020470474 1282387468 14615502	
rostate^Otto^^^ Demo patient 2 19000101 2.16.124.113534.2.3.5.0.120031208.21135.313.22611 Select All Burn Instances ering Options ase select the parameters used to filter the above Instances List: vcquisition Date Show images acquired before: 2006/10/11 2006/10/11	rostate^Otto^^^	Demo patient 2	19000101		1.3.0.1.4.1.2432.0.4023470474.1202307400.14013332	
Contract = 0 Demo nation 1 10 2 16 124 113534 2 3 5 0 120031208 21135 313 22611 Select All Burn Instances ering Options asse select the parameters used to filter the above Instances List: vcquisition Date Show images acquired after: Show images acquired after: Show images acquired before: 2006/10/11 Y	rostate^Otto^^^ rostate^Otto^^^	Demo patient 2 Demo patient 2	19000101 19000101		1.3.6.1.4.1.2452.6.120040121.21137.344.469624044	
2006/10/11 2006/10/11 2006/10/11 2006/10/11	rostate*Otto**** rostate*Otto**** rostate*Otto*** rostate*Otto*** Select All ering Options	Demo patient 2 Demo patient 2 Demo patient 2	19000101 19000101 19000101 19000101	10	13.6.1.4.1.2452.6.120040121.21137.344.469624044 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances
	Select All Select the paramet Acquisition Date	Demo patient 2 Demo patient 2 Demo patient 2 Demo patient 2 remo patient 2	19000101 19000101 19000101 19000101 ve Instances List:	10	1.3.6.1.4.1.2452.6.120040121.21137.344.469624044 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances
	rostate-Otto-AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Demo patient 2 Demo patient 2 Demo patient 2 Demo patient 2 rers used to filter the abo ed after: Show in 2006/10/1	19000101 19000101 19000101 19000101 ve Instances List: mages acquired befor	10	1.3.6.1.4.1.2452.6.120040121.21137.344.469624044 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances
	rostate="Otto"	Demo patient 2 Demo patient 2 Demo patient 2 Demo patient 2 ers used to filter the abo ed after: Show i 2006/10/:	19000101 19000101 19000101 19000101 ve Instances List: mages acquired befor	10 e:	1:3.6.1.4.1.2452.6.120040121.21037.344.46962404 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances
	rostate="Otto"> rostate="Otto="Otto"> rostate="Otto=	Demo patient 2 Demo patient 2 Demo patient 2 Demo patient 2 ers used to filter the abo ed after: Show i 2006/10/1	19000101 19000101 19000101 19000101 ve Instances List: mages acquired befor	10	1:3.6.1.4.1.2452.6.120040121.12137.344.464622404 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances
	rostate="Otto"	Demo patient 2 Demo patient 2 Demo patient 2 Demo patient 2 ers used to filter the abo ed after: Show in 2006/10/1	19000101 19000101 19000101 10000101 ve Instances List: mages acquired befor	10 e:	1:3.6.1.4.1.2452.6.120040121.21137.344.469624044 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances
	rostate="Otto"	Demo patient 2 Demo patient 2 Demo patient 2 Demo patient 2 ers used to filter the abo ed after: Show in 2006/10/1	19000101 19000101 19000101 10000101 ve Instances List: mages acquired befor	10 e:	1.3.6.1.4.1.2452.6.120040121.21137.344.469624044 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances
Eilber	Tostate Otto AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Demo patient 2 Demo patient 2 Demo patient 2 Demo patient 2 ers used to filter the abo ed after: Show i 2006/10/1	19000101 19000101 19000101 19000101 ve Instances List: mages acquired befor	10	1.3.6.1.4.1.2452.6.120040121.2133.344.469624044 2.16.124.113534.2.3.5.0.120031208.21135.318.26357 2.16.124.113534.2.3.5.0.120031208.21135.318.26357	Burn Instances

6 Importing DICOM files

By pressing the "**Import**" button on the main toolbar or on the correspondent menu item from the DICOMBurner tray pop-up menu, you can enter the importing feature. There exist two kinds of importing procedures:

- 1. Import from disk
- 2. Import from DICOM device



These two options are accessible by clicking the small down arrow located next to the "**Import**" button on the main toolbar. Once you select one of the available importing options from the pop-up menu, it will become the default option associated with the "**Import**" toolbar button.

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6.1 Import from disk

In addition to being able to receive DICOM files from DICOM peers through the DICOM protocol, DICOMBurner allows populating its internal database by importing DICOM files from local folders or disks. The "**Browse for folder**" dialog box appears when you press the "**Import**" button on the main toolbar or on the corresponding menu item from the DICOMBurner tray pop-up menu: through this dialog box, the user may specify a root folder where to search for valid DICOM instances.



The actual import procedure starts when you press the "OK" button.

6.2 Import from DICOM device

DICOMBurner acts as a DICOM Query/Retrieve SCU allowing populating its internal database by retrieving DICOM files from a remote DICOM device connected to the DICOM network. When you select the *"Import from DICOM device"* functionality DICOMBurner shows a GUI wizard guiding you through a hierarchical (Study – Series – Instance) selection of the DICOM files to be retrieved.

6.2.1 DICOM Device Selection

The following dialog allows you to select the DICOM device to be queried. The DICOM devices have to be configured by entering the *"DICOM Devices Configuration"* tab.

DICOM Device Selection		×
Please, select the DICOM devic	te to query:	
DICOM device description:	DICOM_Dev_1	
Cancel		ОК

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6.2.2 Study-level search

The study-level step of the wizard procedure allows you to query, select and retrieve the studies containing the DICOM files you want to import. This step includes both the filtering options related to patient and study levels. The list of studies can be filtered by specifying some filtering options (or search criteria): in particular, the patient identification filters, the acceptable range of birth dates, the patient sex and the acceptable range of study dates. By pressing the "**Filter**" button you obtain the list of studies satisfying the set conditions. Then you can select all studies you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of selected studies is provided. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the retrieving procedure of the selected studies without reaching the last wizard step by pressing the "**Retrieve Studies**" button.

💫 Patient Name	Patient ID	Patient Sex	Patient Birth Date	Study Date	Study Description
Brain^Vol	MF-0000003	M	19500704	20050610	Brain volume
Brain^Flair M5	MF-0000007	M	19500704	20050610	Axial M5 brain with flair,t2 and pre/post (
Brain113UFSE	MF-0000008		19500704	20050610	
Brain (15agittai30) Busis A Charles	MF-0000010		19500704	20050610	With and Without sat slabs
prain^_ptacks Prain^_punctional	ME-0000013	N	19500704	20050610	
prain "Functional Design of Size debad	ME-0000017	N	19500704	20050610	
	MF-0000021	M	19500704	20050610	EMDT
Drain'' 'DWI	ME-0000023	1 ⁹ 1	19500704	20050610	EMDT
praint 19991 Prain A DEvop to Tumor WCog stud	ME-0000024	M	19500704	20050610	IMR1 Proin
prain wrfontan umorwopectro	ME-0000020		19500704	20050610	Drain Duppmis broact 1 stack 2 dimensions has
preastr "Dynamic Dusis Al Devisional Truster U.C. setus	ME-0000002	F M	19500704	20050610	Dynamic breast, 1 stack, 3 dimensions, ten
Selected Studies Information Number of Studies: 5					<u>}</u>
Selected Studies Information Number of Studies: 5 Select All tering Options					Retrieve Studie:
Selected Studies Information Number of Studies: 5 Select All tering Options ease select the parameters used to Patient Identification) filter the above Studie	es List:			Retrieve Studie:
Selected Studies Information Number of Studies: 5 Select All tering Options ease select the parameters used to Patient Identification	filter the above Studie ient Name: starts wil	es List:			
Selected Studies Information Number of Studies: 5 Select All tering Options ease select the parameters used to Patient Identification Show only patients whose Pati	o filter the above Studie ient Name: starts wil ient ID: starts wil	es List:			Retrieve Studie: Retrieve Studie: Sex Show only patients with sex equal to: Male Female Other
Selected Studies Information Number of Studies: 5 Select All tering Options ease select the parameters used to Patient Identification Show only patients whose Pati Birth Date	filter the above Studie ent Name: starts wi ent ID: starts wi	es List:	Study Date		Retrieve Studies Sex Show only patients with sex equal to: Male Female Other
Selected Studies Information Number of Studies: 5 Select All tering Options ease select the parameters used to Patient Identification Show only patients whose Pati Birth Date Show patients born after:	filter the above Studie ient Name: starts wil ient ID: starts wil	es List:	Study Date	s started after:	Sex Show only patients with sex equal to: Male Female Other
Selected Studies Information Number of Studies: 5 Select All tering Options lease select the parameters used to Patient Identification Show only patients whose Pati Show only patients whose Pati Birth Date Show patients born after: 2006/12/19	o filter the above Studie ient Name: starts wil ient ID: starts wil Show pat 2006/12/19	es List: th V b th V constructions tients born before:	Study Date	s started after:	Sex Show only patients with sex equal to: Male Female Other Show studies started before: 2006/12/19
Selected Studies Information Number of Studies: 5 Select All tering Options lease select the parameters used to Patient Identification Show only patients whose Pati Show only patients whose Pati Birth Date Show patients born after: 2006/12/19	o filter the above Studie ient Name: starts wil ient ID: starts wil Show pat 2006/12/19	es List: th b th f b tients born before:	Study Date	s started after:	

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6.2.3 Series-level search

The series-level step of the wizard procedure allows you to query, select and retrieve the series containing the DICOM files you want to import. The list of series can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of series dates and the producing modalities. By pressing the "**Filter**" button you obtain the list of series satisfying the set conditions. Then you can select all series you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of selected series is provided. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the retrieving procedure of the selected series without reaching the last wizard step by pressing the "**Retrieve Series**" button.

👌 Patient Name	Patient ID	Modality	Series Date	Series Num	Series Description	S
Brain^3DESE	ME-0000008	MR	20050610	1	3D ESE	1
Brain^Sagittal3D	MF-0000010	MR	20050610	1	Sagittal T1 without sat slab	1
Brain^Sagittal3D	MF-0000010	MR	20050610	2	Sagittal T1 with sat slab	1
Brain^Stacks	MF-0000013	MR	20050610	1	Various contrasts and projections	1
Brain^Functional	MF-0000017	MR	20050610	1	Structural and statistical	1
rain^Simulated	MF-0000021	MR	20050610	1	Axial T2W real and imaginary components	1
(•
 ↓ Selected Series Informal Number of Series: 	ion2					J
Selected Series Informal Number of Series: Select All	ion2				Ret	rieve Series
Selected Series Informal Number of Series: Select All ering Options ease select the paramet	ion2 	ove Series List:			Ret	rieve Series
Selected Series Informal Number of Series: Select All ering Options base select the paramet Series Date	ion2	ove Series List:		Series Modality	Ret	rieve Series
Selected Series Informal Number of Series: Select All ering Options ease select the paramet Series Date Show series started	ion 2 ers used to filter the ab	ove Series List: Show series sl	arted before:	Series Modality Show series pro	Ret	rieve Series
Selected Series Informal Number of Series: Select All tering Options ease select the paramet Series Date Show series started 2006/12/19	cion 2 ers used to filter the ab	ove Series List: Show series sl	arted before:	Series Modality Show series pro	Ret oduced by Modality: Audio	rieve Series
Selected Series Informal Number of Series: Select All tering Options ease select the paramet Series Date Show series started 2006/12/19	tion 2 ers used to filter the ab after:	ove Series List: Show series sl 006/12/19	arted before:	Series Modality Show series pro		rieve Series
Selected Series Informal Number of Series: Select All ering Options ease select the paramet Series Date Show series started 2006/12/19	ion2 ers used to filter the ab after:2	ove Series List: Show series sl 006/12/19	arted before:	Series Modality Show series pro AU BI CD	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler	rieve Series
Selected Series Informal Number of Series: Select All Sering Options ease select the paramet Series Date Series Date Show series started 2006/12/19	cion 2 ers used to filter the ab after:	ove Series List: Show series sl 006/12/19	arted before:	Series Modality Show series pro AU BI CD CP	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Badiography	rieve Series
Selected Series Informal Number of Series: Select All tering Options ease select the paramet Series Date Show series started 2006/12/19	ion2 ers used to filter the ab after:22	ove Series List: ⁷ Show series sl 006/12/19	arted before:	Series Modality Show series pro AU BI CD CR	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Radiography	rieve Series
Selected Series Informal Number of Series: Select All ering Options ease select the paramet Series Date Series Date Solution Sol	cion 2 ers used to filter the ab after:	ove Series List: Show series sl	arted before:	Series Modality Show series pro BI CD CR CR	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	rieve Series
Selected Series Informal Number of Series: Select All cering Options ease select the paramet Series Date Show series started 2006/12/19	ion2 ers used to filter the ab after:2	ove Series List: Show series sl 006/12/19	arted before:	Series Modality Show series pro AU BI CD CR CR CT	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	rieve Series
Selected Series Informal Number of Series: Select All erring Options ease select the paramet Series Date Show series started 2006/12/19	ion 2 ers used to filter the ab after:	ove Series List: Show series sl 006/12/19	arted before:	Series Modality Show series pro AU BI CD CD CR T	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	rieve Series

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6.2.4 Instance-level search

The instance-level step of the wizard procedure allows you to query, select and retrieve the DICOM files/instances you want to import. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of acquisition dates and the acceptable range of store dates. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Finally, you can proceed to the next step by pressing the "**Next**>" button. You can start the retrieving procedure of the selected instances by pressing the "**Retrieve Instances**" button.

🧾 Patient Name	Patient ID	Acquisition Date	Inst Num	SOP Instance UID	
AP^Isotropic 0.625 Arteri Grain^Sagittal3D^^^	0003_0 MF-0000010		1 1	1.3.6.1.4.1.5962.1.1.3.1.1.1118413188.3427 1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147.3424	
rain sagittaist,	MF-000010		1	1.3.6.1.4.1.3962.1.1.3010.2.1.1110413147.3424	
Select All					Retrieve Instan
Select All ering Options sase select the parameters us	ed to filter the ab	ove Instances List:			Retrieve Instan
Select All ering Options ease select the parameters us Acquisition Date	ed to filter the ab	ove Instances List:			Retrieve Instan
Select All ering Options ease select the parameters us Acquisition Date Show images acquired aft	ed to filter the ab	ove Instances List: images acquired befor	e:		Retrieve Instan
Select All ering Options ease select the parameters us Acquisition Date Show images acquired aft 2006/10/11	ed to filter the ab er: Show 2 2006/10	iove Instances List: images acquired befor	e:		Retrieve Instan
Select All ering Options ease select the parameters us Acquisition Date Show images acquired aft 2006/10/11	ed to filter the ab ter: Show 2006/10	inve Instances List: images acquired befor /11	e:		Retrieve Instan
Select All ering Options aase select the parameters us Acquisition Date Show images acquired aft 2006/10/11	ed to filter the ab ter: Show 2 2006/10	inve Instances List: images acquired befor /11	e:		Retrieve Instan
Select All ering Options ease select the parameters us Acquisition Date Show images acquired aft 2006/10/11	ed to filter the ab er: Show 2006/10	inve Instances List: images acquired befor	e:		Retrieve Instan
Select All tering Options ease select the parameters us Acquisition Date Show images acquired aft 2006/10/11	ed to filter the ab ter: Show 2006/10	inve Instances List: images acquired befor /11	e:		Retrieve Instan



7 Exporting DICOM files

By pressing the "**Export**" button on the main toolbar or on the correspondent menu item from the DICOMBurner tray pop-up menu, you can enter the exporting feature. There exist two kinds of exporting procedures:

- 1. Export to disk
- 2. Export to DICOM device



These two options are accessible by clicking the small down arrow located next to the "**Export**" button on the main toolbar. Once you select one of the available exporting options from the pop-up menu, it will become the default option associated with the "**Export**" toolbar button.

7.1 Export to disk

DICOMBurner allows exporting DICOM images in full-size format by using a quick and easy process to select the DICOM images to export. Note that the exporting procedure creates new images into a user selected folder but the original DICOM files remain on the local storage. When you select the *"Export to disk"* functionality DICOMBurner shows a GUI wizard guiding you through a hierarchical (Study – Series – Instance) selection of the images to be exported.

7.1.1 Study-level search

The study-level step of the wizard procedure allows you to select the studies containing the images you want to export to a local folder. This step includes both the filtering options related to patient and study levels. The list of studies can be filtered by specifying some filtering options (or search criteria): in particular, the patient identification filters, the acceptable range of birth dates, the patient sex and the acceptable range of study dates. By pressing the "**Filter**" button you obtain the list of studies satisfying the set conditions. Then you can select all studies you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of studies, studies size, number of series and number of instances are provided for the selected studies. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the exporting procedure of the selected studies without reaching the last wizard step by pressing the "**Export Studies**" button.



		1 dione port	Fatient birth bate	Study Date	Study Description
Abdomen FatSatDyn	MF-0000012	M	1950/07/04	2005/06/10	Abdomen with contrast
AbdominalAorta Stent	0030	Μ	1950/07/04	2005/06/10	
Anonymized	Anonymized	Anonymized			Anonymized
Anonymized	3			1996/06/11	
ANONYMOUS ANONYMOUS	12345	F	1986/01/01	2002/01/04	
Brain 3DFSE	MF-0000008	M	1950/07/04	2005/06/10	3D FSE Brain
Brain DWI	MF-0000023	M	1950/07/04	2005/06/10	fMRI
Brain Flair MS	MF-0000007	Μ	1950/07/04	2005/06/10	Axial MS brain with flair,t2 and pre/pos
Brain Functional	MF-0000017	M	1950/07/04	2005/06/10	fMRI
Brain LParietalTumorWSpectro	MF-0000025	M	1950/07/04	2005/06/10	Brain
Brain PWI	MF-0000024	M	1950/07/04	2005/06/10	fMRI
Brain RFrontalTumorWSpectro	MF-0000020	М	1950/07/04	2005/06/10	Brain
Brain Sagittal3D	MF-0000010	M	1950/07/04	2005/06/10	With and without sat slabs
	• F 0000004		Leonalization	opprincipa	
Select All					Export Studies
ease select the parameters used to fi Patient Identification	ilter the above Studie	es List:			Sex
Show only patients whose Patier	nt Name: contains	▼ at		_	Show only nationts with sex equal to:
		!		_	Short only pacents that som aquai tor
🔲 Show only patients whose Patier	nt ID: starts wi	th 🔽			🥅 Male 🔲 Female 🔲 Other
Birth Date			Study Date		
Show patients born after:	🗌 Show pal	tients born before:	Show studies	s started after:	Show studies started before:
2006/12/19	2006/12/10		2006/12/19	_	2006/12/19
2000/12/15	2000/12/19		12000/12/19	<u> </u>	2000/12/15

7.1.2 Series-level search

The series-level step of the wizard procedure allows you to select the series containing the images you want to export to a local folder. The list of series can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of series dates and the producing modalities. By pressing the "Filter" button you obtain the list of series satisfying the set conditions. Then you can select all series you are interested in by using the mouse and multiple file selection technique. The "Deselect All/Select All" button can simplify this task. The number of series, series size and number of instances are provided for the selected series. Finally, you can proceed to the next step by pressing the "Next>" button. As a shortcut you can start the exporting procedure of the selected series without reaching the last wizard step by pressing the "Export Series" button.



👌 Patient Name	Patient ID	Modality	Series Date	Series Num	Series Description
bdomen EatSatDyn	ME-0000012	MR	2005/06/10	1	Coronal two-phase IV contrast fat suppressed: temp pos
bdomen EatSatDyn	ME-0000012	MR	2005/06/10	2	Coronal fat suppressed: no contrast module, temp positi
IbdominalAorta Stept	0030	CT	2005/06/10	1	coronarrae sapprosoa, no concrase modulo, comp posit, m
IbdominalAorta Stent	0030	CT	2005/06/10	2	MTP Full
bdominalAorta Stent	0030	CT	2005/06/10	3	MIP Thin
IbdominalAorta Stent	0030	СТ	2005/06/10	4	MPR Curved
nonymized	Anonymized	CR	2000/00/20	1	
nonymized	Anonymized	CR		1	Aponymized
nonymized	3	PR		1000000	Settings for series 4
nonymized	3	PR		10000000	Settings for series 4
NONYMOUS ANONYMOU	5 12345	MG	2003/12/16	739	BIL MAMMO
rain 3DESE	ME-0000008	MR	2005/06/10	1	3D ESE
rain DWI	ME-0000023	MR	2005/06/10	1	Diffusion weighted
			apartics is a		
Selected Series Informatic Number of Series: Series Size:	2 11.40 MB	Num	ber of Instances:	2	
Selected Series Informatic Number of Series: Series Size: Select All	2 11.40 MB	Num	ber of Instances:	2	Export Series
Selected Series Informatic Number of Series: Series Size: Select All ering Options	2 11.40 MB	Num	ber of Instances:	2	Export Series
Selected Series Informatic Number of Series: Series Size: Select All ering Options ease select the parameter	2 11.40 MB 's used to filter the ab	Num	ber of Instances:	2 – Savier Medality	Export Series
Selected Series Informatic Number of Series: Series Size: Select All ering Options sase select the parameter Series Date Show series started a	n2 11.40 MB s used to filter the ab	Num	ber of Instances:	2 – Series Modality – Show ceries pro	Export Series
Selected Series Informatic Number of Series: Series Size: Select All ering Options sase select the parameter Series Date	n2 11.40 MB s used to filter the ab	Num ove Series List: Show series st	ber of Instances:	2 Series Modality Show series pro	Export Series
Selected Series Informatic Number of Series: Series Size: Select All ering Options ease select the parameter Series Date Show series started a 2006/12/19	n 2 11.40 MB 's used to filter the ab	Num	arted before:	2 Series Modality Show series pro	Export Series
Selected Series Informatic Number of Series: Series Size: Select All ering Options base select the parameter Series Date Show series started a 2006/12/19	n2 11.40 MB s used to filter the ab fter:2	Num ove Series List: Show series st 006/12/19	arted before:	2 Series Modality Show series pro	Export Series Export Series Audio Biomagnetic imaging
Selected Series Informatic Number of Series: Series Size: Select All ering Options pase select the parameter Series Date Show series started a 2006/12/19	n 2 11.40 MB s used to filter the ab	Num ove Series List: Show series st D06/12/19	arted before:	2 Series Modality Show series pro	Deduced by Modality:
Selected Series Informatic Number of Series: Series Size: Select All ering Options sease select the parameter Series Date Show series started a 2006/12/19	n 2 11.40 MB s used to filter the ab	Num ove Series List: Show series st 006/12/19	arted before:	2 Series Modality Show series pro AU BI CD CD	Export Series Export Series Audio Biomagnetic imaging Color flow Doppler Computed Badiocraphy
Selected Series Informatic Number of Series: Series Size: Select All ering Options ease select the parameter Series Date Show series started a 2006/12/19	n2 11.40 MB s used to filter the ab fter:	Num ove Series List: Show series st 006/12/19	arted before:	2 Series Modality Show series pro AU BI CD CD CR	Export Series Export Series Computed Radiography Export Addiography Export Series
Selected Series Informatic Number of Series: Series Size: Select All ering Options ease select the parameter Series Date Show series started a 2006/12/19	n2 11.40 MB s used to filter the ab fter:2	Num ove Series List: Show series st 006/12/19	arted before:	2 Series Modality Show series pro AU BI CD CR CT	Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography Computed Tomography
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Selected Series Informatic Number of Series: Series Size: Select All ering Options ease select the parameter Series Date Show series started a 2006/12/19	on2 11.40 MB Is used to filter the ab	Num ove Series List: Show series st 006/12/19	arted before:	2 Series Modality Show series pro AU BI CD CD CR CT	Deduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography
Selected Series Informatic Number of Series: Series Size: Select All ering Options ease select the parameter Series Date Show series started a 2006/12/19	n2 11.40 MB 's used to filter the ab fter:	Num ove Series List: Show series st 006/12/19	arted before:	2 Series Modality Show series pro AU BI CD CR CR CT	Export Series Export Series Audio Biomagnetic imaging Color flow Doppler Computed Radiography Commuted Tomography

7.1.3 Instance-level search

The instance-level step of the wizard procedure allows you to select the images/instances you want to export to a local folder. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of acquisition dates and the acceptable range of store dates. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. At this level if you select an instance by clicking with the mouse over the corresponding row of the Instance List, you obtain a preview image of the DICOM file. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Then you can reach the final step dialog of the exporting procedure by pressing the "**Export**" button.



Brain Sagittal3D MF-0000010 2006/10/11 - 12:16:54 1 1.3.6.1.4.1.5962.1.1.5010.1.1.111 Brain Sagittal3D MF-0000010 2006/10/11 - 15:43:32 1 1.3.6.1.4.1.5962.1.1.5010.2.1.1111 Prostate Otto Demo patient 2 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.159644927.117 Prostate Otto Demo patient 2 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.159644927.117 Prostate Otto Demo patient 2 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.405964617679.10 Prostate Otto Demo patient 2 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.4007965866.11 Prostate Otto Demo patient 2 2006/10/10 - 16:53:35 1.3.6.1.4.1.2452.6.4007965866.11 Prostate Otto Demo patient 2 2006/10/10 - 16:53:35 1.3.6.1.4.1.2452.6.120040121.211 Prostate Otto Demo patient 2 2006/10/10 - 16:53:35 1.3.6.1.4.1.2452.6.120040121.211 Prostate Otto Demo patient 2 2006/10/10 - 16:53:35 2.1.6.124.113534.2.3.5.0.12003120 Prostate Otto Demo patient 2 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.120040121.211 Prostate Otto Demo patient 2 2006/10/10 - 16:53:34 <t< th=""><th>5010.1.1.118413147 5010.2.1.1118413147 99644927.1174006739 154671679.107887431 107965886.113471577 129470474.128238746 0040121.21137.344. 5.0.120031208.21135 10040121.21137.345.</th><th>2006/10/11 - 12:16:54 1 1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147 2006/10/11 - 15:43:32 1 1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147 2006/10/11 - 15:43:32 1 1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.159644927.1174006739 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.3454671679.107887431 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.4007955886.113471577 2006/10/10 - 16:53:35 1.3.6.1.4.1.2452.6.4029470474.128238746 2006/10/10 - 16:53:35 1.3.6.1.4.1.2452.6.120040121.21137.344.4 2006/10/10 - 16:53:35 2.16.124.113534.2.3.5.0.120031208.21135 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:35 2.16.124.12452.6.120040121.21137.345.1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:35 2.16.124.113534.2.6.120040121.21137.345.1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 200</th><th>Patient Name</th><th>Patient ID</th><th>Acquisition Date</th><th>Store Date</th><th>Inst Num</th><th>SOP Instance UID</th></t<>	5010.1.1.118413147 5010.2.1.1118413147 99644927.1174006739 154671679.107887431 107965886.113471577 129470474.128238746 0040121.21137.344. 5.0.120031208.21135 10040121.21137.345.	2006/10/11 - 12:16:54 1 1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147 2006/10/11 - 15:43:32 1 1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147 2006/10/11 - 15:43:32 1 1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.159644927.1174006739 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.3454671679.107887431 2006/10/10 - 16:53:34 1.3.6.1.4.1.2452.6.4007955886.113471577 2006/10/10 - 16:53:35 1.3.6.1.4.1.2452.6.4029470474.128238746 2006/10/10 - 16:53:35 1.3.6.1.4.1.2452.6.120040121.21137.344.4 2006/10/10 - 16:53:35 2.16.124.113534.2.3.5.0.120031208.21135 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:35 2.16.124.12452.6.120040121.21137.345.1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:35 2.16.124.113534.2.6.120040121.21137.345.1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 2006/10/10 - 16:53:34 1 200	Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
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7.1.4 Export images step

The export images step is the last one in the wizard procedure: a dialog shows all the output image formats that you can select. For the DICOM format you can check the DICOMDIR generation and select the Transfer Syntax of the output DICOM files. The JPEG format allows you the output quality selection. DICOMBurner will create an output image for any format set. For the DICOM format it will generate the DICOMDIR and will translate the Transfer Syntax you set. To start the exporting process you have to press the "**Export**" button.



Export images
Options
Please select your export preferences:
Output Image Resolution (DPI): 75
Output Image Format
DICOM - Digital Imaging and COmmunications in Medicine
Generate DICOMDIR
Transfer Syntax: Unmodified Transfer Syntax
🔽 BMP - Bitmap
☑ JPEG - Joint Picture Experts Group
Quality: 31
V PNG - Portable Network Graphic
TIFF - Tag Image File Format
Exporting Location
Images Root Folder: C:\Programmi\NeoLogica\DICOMBurner v2.0\W Browse
Export

7.2 Export to DICOM device

DICOMBurner acts as a DICOM Store SCU allowing you to send DICOM files to a pre-selected DICOM device. Note that the sending procedure preserves the original DICOM files remain on the local storage. When you select the *"Export to DICOM device"* functionality DICOMBurner shows a GUI wizard guiding you through a hierarchical (Study – Series – Instance) selection of the DICOM files to be sent.

7.2.1 Study-level search

The study-level step of the wizard procedure allows you to select the studies containing the DICOM files you want to send to a DICOM device. This step includes both the filtering options related to patient and study levels. The list of studies can be filtered by specifying some filtering options (or search criteria): in particular, the patient identification filters, the acceptable range of birth dates, the patient sex and the acceptable range of study dates. By pressing the "**Filter**" button you obtain the list of studies satisfying the set conditions. Then you can select all studies you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of studies, studies size, number of series and number of instances are provided for the selected studies. Finally, you can proceed to the next step by pressing the "**Next>**" button. As a shortcut you can start the sending procedure of the selected studies without reaching the last wizard step by pressing the "**Send Studies**" button.



	Patient ID	Patient Sex	Patient Birth Date	Study Date	Study Description
	ME-0000012	M	1950/07/04	2005/06/10	Abdomen with contrast
AbdominalAorta Stept	0030	M	1950/07/04	2005/06/10	Hodomon man condidat
Aponymized	Apopymized	Apopymized	1,000/01/01	2000/00/10	Apopymized
Anonymized	3	rinony meda		1996/06/11	Third ynie od
NONYMOUS ANONYMOUS	12345	F	1986/01/01	2002/01/04	
rain 3DFSE	MF-0000008	M	1950/07/04	2005/06/10	3D FSE Brain
rain DWI	MF-0000023	M	1950/07/04	2005/06/10	fMRI
irain Elair MS	ME-0000007	M	1950/07/04	2005/06/10	Axial MS brain with flair.t2 and pre/pos
rain Functional	MF-0000017	M	1950/07/04	2005/06/10	fMRI
rain LParietalTumorWSpectro	MF-0000025	M	1950/07/04	2005/06/10	Brain
rain PWI	MF-0000024	M	1950/07/04	2005/06/10	fMRI
rain RFrontalTumorWSpectro	MF-0000020	M	1950/07/04	2005/06/10	Brain
rain Sagittal3D	MF-0000010	M	1950/07/04	2005/06/10	With and without sat slabs
are for a	115 0000004	••	- Antonio - I	opprincipal to	
Number of Studies: 6 Studies Size: 150.5	58 MB	Number of Series: Number of Instance	7 5: 17		
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB	Number of Series: Number of Instance	7 s: 17		Send Studies
Number of Studies: 6 Studies Size: 150.5 Select All	38 MB filter the above Studie	Number of Series: Number of Instance s List:	7 s: 17		Send Studies
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB Filter the above Studie	Number of Series: Number of Instance s List:	7 s: 17		Send Studies
Number of Studies: 6 Studies Size: 150.5 Select All ering Options ease select the parameters used to 1 Patient Identification Show only patients whose Patie	58 MB filter the above Studie nt Name: starts wit	Number of Series: Number of Instance s List:	7 5: 17		Send Studies Sex Show only patients with sex equal to:
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB filter the above Studie nt Name: starts wit	Number of Series: Number of Instance s List:	7 5: 17		Send Studies Sex Show only patients with sex equal to:
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB filter the above Studie nt Name: starts wit nt ID: starts wit	Number of Series: Number of Instance Is List:	7 5: 17		Send Studies Sex Show only patients with sex equal to: Male Female Other
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB filter the above Studie Int Name: starts wit nt ID: starts wit	Number of Series: Number of Instance Is List:	7 s: 17		Send Studies Sex Show only patients with sex equal to: Male Female Other
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB filter the above Studie Int Name: starts wit Int ID: starts wit	Number of Series: Number of Instance Is List:	7 s: 17 Study Date	started after:	Send Studies Sex Show only patients with sex equal to: Male Female Other Show studies started before:
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB filter the above Studie nt Name: starts wit int ID: starts wit Show pat	Number of Series: Number of Instance s List: th	7 s: 17 Study Date	started after:	Sex Show only patients with sex equal to: Male Female Other Show studies started before:
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB filter the above Studie int Name: starts wit int ID: starts wit Show pat 2006/12/19	Number of Series: Number of Instance s List: th	7 s: 17 Study Date	started after:	Sex Show only patients with sex equal to: Male Female Other Show studies started before: 2006/12/19
Number of Studies: 6 Studies Size: 150.5 Select All	58 MB filter the above Studie int Name: starts wit int ID: starts wit Show pat 2006/12/19	Number of Series: Number of Instance is List: th	7 s: 17 Study Date Study Date Show studies 2006/12/19	s started after:	Send Studies Sex Show only patients with sex equal to: Male Female Other Show studies started before: 2006/12/19

7.2.2 Series-level search

The series-level step of the wizard procedure allows you to select the series containing the DICOM files you want to send to a DICOM device. The list of series can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of series dates and the producing modalities. By pressing the "**Filter**" button you obtain the list of series satisfying the set conditions. Then you can select all series you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. The number of series, series size and number of instances are provided for the selected series. Finally, you can proceed to the next step by pressing the "**Next>**" button. As a shortcut you can start the sending procedure of the selected series without reaching the last wizard step by pressing the "**Send Series**" button.



👔 Patient Name	Patient ID	Modality	Series Date	Series Num	Series Description	Se
Prain 2DECE	ME-000009	MD	2005/06/10	1	3D ECE	1
Rain DWT	ME-00000023	MD	2005/06/10	1	Diffusion weighted	1.
rain Flair MS	ME-0000023	MP	2005/06/10	1	Avial	1
Prain Functional	ME-0000017	MR	2005/06/10	1	Structural and statistical	1
rain I ParietalTumorWSpec	ME-000025	MR	2005/06/10	3	AX FLATR	1.
rain LParietalTumorWSpec	. MF-0000025	MR	2005/06/10	6	3D SPGR AX	1.
rain PWI	MF-0000024	MR	2005/06/10	1	Perfusion	1.
jelected Series Information Number of Series: Series Size: Select All	3 97.61 MB	Nur	ber of Instances:	5		► Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options	3 97.61 MB	Nur	ber of Instances;	5		Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options ease select the parameters of series Date	3 97.61 MB used to filter the ab	Nur	ber of Instances:	5		Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options ease select the parameters of Series Date Series started aft	3 97.61 MB used to filter the ab	Num	ber of Instances:	5 Series Modality Show series pro	aduced by Modality:	Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options sease select the parameters of Series Date Show series started after Show series started after	3 97.61 MB used to filter the ab	Nurr	aber of Instances:	5 Series Modality Show series pro	oduced by Modality:	Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options ease select the parameters of Series Date Show series started after 2006/12/19	3 97.61 MB used to filter the ab	Num ove Series List: Show series st 006/12/19	aber of Instances: arted before:	5 Series Modality Show series pro	oduced by Modality:	Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options ease select the parameters of Series Date Show series started after 2006/12/19	3 97.61 MB used to filter the ab	Num	aber of Instances:	5 Series Modality Show series pro	oduced by Modality: Audio Biomagnetic imaging	Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options ease select the parameters of Series Date Show series started after 2006/12/19	3 97.61 MB used to filter the ab er:	Nur ove Series List: Show series st	aber of Instances:	5 Series Modality Show series pro AU BI CD	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler	Send Series
5elected Series Information Number of Series: Series Size: Select All ering Options sase select the parameters of Series Date Show series started after 2006/12/19	3 97.61 MB used to filter the ab er:	Nur ove Series List: Show series st 006/12/19	aber of Instances:	5 Series Modality Show series pro	aduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography	Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options pase select the parameters to Series Date Show series started aftr 2006/12/19	3 97.61 MB used to filter the ab	Nurr Nurr Nurr Nove Series List: Show series st 006/12/19	aber of Instances:	5 Series Modality Show series pro AU BI CD CR CR	aduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options ease select the parameters of Series Date Show series started after 2006/12/19	3 97.61 MB used to filter the ab er:	Num nove Series List: Show series st 006/12/19	aber of Instances:	Series Modality Show series pro AU BI CD CR CR	aduced by Modality: Audio Biomagnetic imaging Color flow Dopler Computed Radiography Computed Tomography	Send Series
Selected Series Information Number of Series: Series Size: Select All ering Options ease select the parameters of Series Date Show series started after 2006/12/19	3 97.61 MB used to filter the ab er:	Num	aber of Instances:	5 Series Modality Show series pro AU BI CD CR CR CT T	oduced by Modality: Audio Biomagnetic imaging Color flow Doppler Computed Radiography Computed Tomography	Send Series

7.2.3 Instance-level search

The instance-level step of the wizard procedure allows you to select the DICOM files/instances you want to send to a DICOM device. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of acquisition dates and the acceptable range of store dates. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. At this level if you select an instance by clicking with the mouse over the corresponding row of the Instance List, you obtain a preview image of the DICOM file. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. You can start the sending procedure of the selected instances by pressing the "**Send Instances**" button.



👏 Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
rain Sagittal3D	MF-0000010		2006/10/11 - 12:16:54	1	1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147
rain Sagittal3D	MF-0000010		2006/10/11 - 15:43:32	1	1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.159644927.1174006739
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.3454671679.107887431
rostate Otto	Demo patient 2		2006/10/11 - 12:15:13		1.3.6.1.4.1.2452.6.4007965886.113471577
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.4029470474.128238746
rostate Otto	Demo patient 2		2006/10/10 - 16:53:35		1.3.6.1.4.1.2452.6.120040121.21137.344.4
rostate Otto	Demo patient 2		2006/10/10 - 16:53:35		2.16.124.113534.2.3.5.0.120031208.21135
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	1	1.3.6.1.4.1.2452.6.120040121.21137.345.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	2	1.3.6.1.4.1.2452.6.120040121.21137.345.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	3	1.3.6.1.4.1.2452.6.120040121.21137.344.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	4	1.3.6.1.4.1.2452.6.120040121.21137.344.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	5	1.3.6.1.4.1.2452.6.120040121.21137.344.2
Select All	Demo patient 2	ve Instances List:	2006/10/10 - 16:53:34 2006/10/10 - 16:50:04	5	Send Instances
Select All Select All ering Options ase select the paramet Acquisition Date Show images acquit 2006/10/11	ters used to filter the abo red after: Show ii 2006/10/:	ve Instances List: mages acquired befor	2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 e:	5	Send Instance:
Select All Select All Select All Select All Show images acqui Show images acqui Coo6/10/11 Store Date Show images store Coo6/10/11	berno patient 2 ters used to filter the abo red after: Show in 2006/10/: d after: Show in 2006/10/:	ve Instances List: mages acquired befor 11 v mages stored before: 11 v	2006/10/10 - 16:33:34 2006/10/10 - 16:53:34 e:	5	Send Instance:

8 Deleting DICOM files

In addition to the automatic purging procedure, DICOMBurner allows deleting a portion of the database content by using a quick and easy process to select the DICOM files to remove. When you press the "**Delete**" button on the main toolbar or on the corresponding menu item from the DICOMBurner tray popup menu, DICOMBurner shows a GUI wizard guiding you through a hierarchical (Study – Series – Instance) selection of the DICOM files to be deleted.

8.1 Study-level search

The study-level step of the wizard procedure allows you to select the studies containing the DICOM files you want to delete from the local database. This step includes both the filtering options related to patient and study levels. The list of studies can be filtered by specifying some filtering options (or search criteria): in particular, the patient identification filters, the acceptable range of birth dates, the patient sex and the


acceptable range of study dates. By pressing the "Filter" button you obtain the list of studies satisfying the set conditions. Then you can select all studies you are interested in by using the mouse and multiple file selection technique. The "Deselect All/Select All" button can simplify this task. The number of studies, studies size, number of series and number of instances are provided for the selected studies. Finally, you can proceed to the next step by pressing the "Next>" button. As a shortcut you can start the deleting procedure of the selected studies without reaching the last wizard step by pressing the "Delete Studies" button.

Se Patient Name	Patient ID	Patient Sex	Patient Birth Date	Study Date	Study Description	
Brain I ParietalTumorWSpectro	ME-0000025	M	1950/07/04	2005/06/10	Brain	
Brain DWI	ME-0000024	M	1950/07/04	2005/06/10	FMPT	
Brain REcontalTumorW/Spectro	ME-0000020	M	1950/07/04	2005/06/10	Brain	
Brain Sagitta/3D	ME-0000010	M	1950/07/04	2005/06/10	With and without sat slabs	
Brain Simulated	ME-0000021	M	1950/07/04	2005/06/10	Brain	
Brain Stacks	ME-0000013	M	1950/07/04	2005/06/10	Brain tumor	
Brain Vol	ME-000003	M	1950/07/04	2005/06/10	Brain volume	1
Breast Dynamic	ME-0000002	F	1950/07/04	2005/06/10	Dynamic breast.1 stack.3 dimen	sions.b
PORTABLE CHEST	6019	M	1991/01/01	1997/09/09	CHEST	
Prostate Otto	Demo patient 2			1999/07/15		1
Prova Mano	P20040002F	0	1899/12/30	2004/05/27	Scintiorafia Tiroide	
Prova Mano	P20040002F	Ō	1899/12/30	2004/05/27	Scintigrafia Tiroide	
			1899/12/30	2004/05/27	Sciptigrafia Tiroide	
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140	.46 MB	Number of Series: Number of Instance	14 14 14			
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All India Online	.46 MB	Number of Series: Number of Instance	14 14 14		Delete	∎ e Studie
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All tering Options lease select the parameters used to	1.46 MB	Number of Series: Number of Instance	14 27		Delete	● e Studie
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All tering Options lease select the parameters used to Patient Identification	120040002F	Number of Series: Number of Instance	14 14 27		Delete	♪
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All tering Options lease select the parameters used to Patient Identification Show only patients whose Patient	1,46 MB	Number of Series: Number of Instance	14 14 14			e Studie
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All Itering Options lease select the parameters used to Patient Identification Show only patients whose Pat	1,46 MB	Number of Series: Number of Instance s List:	14 95: 27		Delete Sex Show only patients with sex equal	e Studie
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All tering Options lease select the parameters used to Patient Identification Show only patients whose Pat Show only patients whose Pat	1.46 MB	Number of Series: Number of Instance	14 27		Delete Sex Show only patients with sex equal Male	e Studie to: er
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All tering Options lease select the parameters used to Patient Identification Show only patients whose Pat Birth Date	P20040002F P20040002F 1.46 MB P filter the above Studies ient Name: starts with ient ID: starts with	Number of Series: Number of Instance	14 14 27 		Sex	e Studie to: er
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All Letring Options lease select the parameters used to Patient Identification Show only patients whose Pat Birth Date Show patients horn after:	0 filter the above Studies ient Name: starts with ient ID: starts with	Number of Series: Number of Instance	14 ss: 27 Study Date		Delete Sex Show only patients with sex equal Male Female Othe	e Studie to: er
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All Itering Options lease select the parameters used to Patient Identification Show only patients whose Pat Show only patients whose Pat Show patients born after:	P200400002F Record and a second and a secon	Number of Series: Number of Instance s List: h	14 es: 27 Study Date	s started after:	Sex Show only patients with sex equal 1 Male Female Oth	e Studie to: er
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All Itering Options lease select the parameters used to Patient Identification Show only patients whose Pat Birth Date Show patients born after: 2006/12/19	P200400002F I.46 MB initian the above Studies ient Name: starts with ient ID: starts with Show pati 2006/12/19	Number of Series: Number of Instance s List: h h	14 es: 27 Study Date Study Date Show studies 2006/12/19	s started after:	Sex Show only patients with sex equal 1 Male Female Other Show studies started b 2006/12/19	e Studie to: er
Prova Mano Selected Studies Information Number of Studies: 8 Studies Size: 140 Select All tering Options lease select the parameters used to Patient Identification Show only patients whose Pat Birth Date Show patients born after: 2006/12/19	I P200400002F	Number of Series: Number of Instance s List: h V Formation of Instance	14 ss: 27 Study Date Study Date Study Date 2006/12/19	s started after:	Sex Show only patients with sex equal Male Female Oth Show studies started b 2006/12/19	e Studie to: er

8.2 Series-level search

The series-level step of the wizard procedure allows you to select the series containing the DICOM files you want to delete from the local database. The list of series can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of series dates and the producing modalities. By pressing the "**Filter**" button you obtain the list of series satisfying the set conditions. Then you



can select all series you are interested in by using the mouse and multiple file selection technique. The "Deselect All/Select All" button can simplify this task. The number of series, series size and number of instances are provided for the selected series. Finally, you can proceed to the next step by pressing the "Next>" button. As a shortcut you can start the deleting procedure of the selected series without reaching the last wizard step by pressing the "Delete Series" button.

👌 Patient Name	Patient ID	Modality	Series Date	Series Num	Series Description
Brain Stacks	ME-000013	MR	2005/06/10	1	Various contrasts and projections
Brain Vol	ME-0000003	MR	2005/06/10	1	Axial 1 stack 1 dimension no concat
Brain Vol	ME-0000003	MR	2005/06/10	2	Sanittal T1W MPR, references source
Breast Dynamic	ME-0000002	MR	2005/06/10	1	Coronal Dynamic Contrast
Breast Dynamic	ME-0000002	MR	2005/06/10	2	Coronal Dynamic Contrast - abbreviated
PORTABLE CHEST	6019	CR	1997/09/09	512	
Prostate Otto	Demo natient 2	RTIMAGE		1	
Prostate Otto	Demo patient 2	RTDOSE		1	
Prostate Otto	Demo patient 2	RTPLAN		1	
Prostate Otto	Demo patient 2	RTSTRUCT		1	
Prostate Otto	Demo patient 2	СТ		1	
Prova Mano	P20040002F	NM	2004/05/27	1	Scintigrafia Tiroide
Prova Mano	P20040002F	NM	2004/05/27	1	Scintigrafia Tiroide
Si	D000 400005		operation less		Let un le region
Number of Series: Series Size:	2 1.18 MB	Numb	per of Instances:	12	
Select All	2 1.18 MB	Numb	ber of Instances:	12	Delete Serie:
Select All Select All Select All Select All Series Date Show series started 2006/12/19	2 1.18 MB ers used to filter the aborn lafter:	Numb ve Series List: Show series sta 06/12/19	arted before:	Series Modality Show series pro AU BI CD	Delete Series

8.3 Instance-level search

The instance-level step of the wizard procedure allows you to select the DICOM files/instances you want to delete from the local database. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of acquisition dates, the acceptable range of store dates and the backup status (backed-up or not) of the instances. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. At this level if you select an instance by clicking with the mouse over the corresponding row of the Instance List, you obtain a preview



image of the DICOM file. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Finally, you can proceed to the next step by pressing the "**Next**>" button. As a shortcut you can start the deleting procedure of the selected instances without reaching the last wizard step by pressing the "**Delete Instances**" button.

🧾 Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
Brain Sagittal3D	MF-0000010		2006/10/11 - 12:16:54	1	1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147
Brain Sagittal3D	MF-0000010		2006/10/11 - 15:43:32	1	1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.159644927.1174006739
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.3454671679.107887431
Prostate Otto	Demo patient 2		2006/10/11 - 12:15:13		1.3.6.1.4.1.2452.6.4007965886.113471577
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.4029470474.128238746
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		1.3.6.1.4.1.2452.6.120040121.21137.344.4
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		2.16.124.113534.2.3.5.0.120031208.21135
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	1	1.3.6.1.4.1.2452.6.120040121.21137.345.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	2	1.3.6.1.4.1.2452.6.120040121.21137.345.1
Our shalls Olds	Demo patient 2		2006/10/10 - 16:53:34	3	1.3.6.1.4.1.2452.6.120040121.21137.344.1
Prostate Otto			2006/10/10 - 16:53:34	4	1 3 6 1 4 1 2452 6 120040121 21137 344 1
Prostate Otto Prostate Otto	Demo patient 2		2000/10/10 - 10.33.34	т	11010111112102101120010121121107101111
Prostate Otto Prostate Otto Prostate Otto	Demo patient 2 Demo patient 2		2006/10/10 - 16:53:34	5	1.3.6.1.4.1.2452.6.120040121.21137.344.2
Select All	Demo patient 2 Demo patient 2 Demo patient 2		2006/10/10 - 16:53:34	5	1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 Delete Instance
Select All Select the parame Acquisition Date Show images acqui	Demo patient 2 Demo patient 2 Demo patient 2 Terrs used to filter the abo	ve Instances List: mages acquired befor	e:		Delete Instance
Select All Select All Cardination Date Solution Date Store St	Demo patient 2 Demo patient 2 Demo patient 2 ters used to filter the abo red after: Show in 2006/10/:	ve Instances List: mages acquired befor	e: Backup status e: Backup status Backup status	р р	Delete Instance
Select All Select All Select the parame Acquisition Date Store Date Show images store Show images store	Demo patient 2 Demo p	ve Instances List: mages acquired befor 11	e: C All files C Backed-d	р 10	Delete Instance
Select All Select All Carring Options Rease select the parame Acquisition Date Show images acqui 2006/10/11 Store Date Show images store 2006/10/11	Demo patient 2 Demo patient 2 Demo patient 2 Terrs used to filter the abo red after: Show in 2006/10/: d after: Show in 2006/10/:	ve Instances List: mages acquired befor 11	e: C All files	<u>5</u> 2	Delete Instance
Select All Select All Select the parame Acquisition Date Store Date Show images store 2006/10/11	Demo patient 2 Demo patient 2 Demo patient 2 ters used to filter the abo red after: Show ii 2006/10/: d after: Show ii 2006/10/:	ve Instances List: mages acquired befor 11 mages stored before: 11 y	e: C All files	р 2	Delete Instance

8.4 Delete files step

The delete files step is the last one in the wizard procedure: a list of the files that will be deleted from the local database is displayed. Finally, you can start the deleting process by pressing the "**Delete files**" button.

×

Do	lata	file
	ICCC	THE R

👏 File Path	SOP Instance UID	
F:\Storage\EnhancedMR\1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147.3424.dcm	1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147.3424	
F:\Storage\EnhancedMR\1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147.3424.dcm	1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147.3424	
F:\Storage\RTDOSE\1.3.6.1.4.1.2452.6.159644927.1174006739.2145559215	1.3.6.1.4.1.2452.6.159644927.1174006739.214555921	
:\Storage\RTDOSE\1.3.6.1.4.1.2452.6.3454671679.1078874319.243497512	1.3.6.1.4.1.2452.6.3454671679.1078874319.24349751	
F:\Storage\RTDOSE\1.3.6.1.4.1.2452.6.4007965886.1134715774.403778756	1.3.6.1.4.1.2452.6.4007965886.1134715774.40377875	
F:\Storage\RTDOSE\1.3.6.1.4.1.2452.6.4029470474.1282387468.146155920	1.3.6.1.4.1.2452.6.4029470474.1282387468.14615592	
F:\Storage\RTPLAN\1.3.6.1.4.1.2452.6.120040121.21137.344.469624044.dcm	1.3.6.1.4.1.2452.6.120040121.21137.344.469624044	
F:\Storage\RTSTRUCTURE\2.16.124.113534.2.3.5.0.120031208.21135.318.2	2.16.124.113534.2.3.5.0.120031208.21135.318.26357	
F:\Storage\RT\1.3.6.1.4.1.2452.6.120040121.21137.345.1020430403.dcm	1.3.6.1.4.1.2452.6.120040121.21137.345.1020430403	
F:\Storage\RT\1.3.6.1.4.1.2452.6.120040121.21137.345.1291613679.dcm	1.3.6.1.4.1.2452.6.120040121.21137.345.1291613679	
F:\Storage\RT\1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145.dcm	1.3.6.1.4.1.2452.6.120040121.21137.344.1366227145	
F:\Storage\RT\1.3.6.1.4.1.2452.6.120040121.21137.344.103119372.dcm	1.3.6.1.4.1.2452.6.120040121.21137.344.103119372	
F:\Storage\RT\1.3.6.1.4.1.2452.6.120040121.21137.344.2833012942.dcm	1.3.6.1.4.1.2452.6.120040121.21137.344.2833012942	
E:\Storage\RT\1.3.6.1.4.1.2452.6.120040121.21137.344.114715643.dcm	1.3.6.1.4.1.2452.6.120040121.21137.344.114715643	
E:\Storage\RT\1.3.6.1.4.1.2452.6.120040121.21137.345.2053917167.dcm	1.3.6.1.4.1.2452.6.120040121.21137.345.2053917167	
Evistorage/RT)1.3.6.1.4.1.2452.6.120040121.21137.345.34625910.dcm	1.3.6.1.4.1.2452.6.120040121.21137.345.34625910	
EviStorage)(T)2 16 124 113534 2 3 5 0 120031208 21135 313 22611 dcm	2 16 124 113534 2 3 5 0 120031208 21135 313 22611	
Evistorage)(T)2 16 124 113534 2 3 5 0 120031208 21135 313 18899 dcm	2 16 124 113534 2 3 5 0 120031208 21135 313 18899	
EviStorage/CT/2 16 124 113534 2 3 5 0 120031208 21135 318 26515 dcm	2 16 124 113534 2 3 5 0 120031208 21135 318 26515	
E/(Storage)(T)2 16 124 113534 2 3 5 0 120031208 21135 318 15340 dcm	2 16 124 113534 2 3 5 0 120031208 21135 318 15340	
E/Storage/PET/2 16 124 113534 2 3 5 0 120050214 20946 336 289 dcm	2 16 124 113534 2 3 5 0 120050214 20946 336 289	
EviStorage/DET/2 16 124 113534 2 3 5 0 120050214 20946 335 20938 dcm	2 16 124 113534 2 3 5 0 120050214 20046 335 20038	
	2.10.124.113334.2.3.3.0.120030214.20940.333.20930	

9 Backup DICOM files and database

DICOMBurner allows backing-up the database or creating backup CDs or DVDs containing DICOM files. The DICOM files to be archived on CD or DVD can be selected by the user. There exist four kinds of backup procedures:

- 1. Backup database
- 2. Backup a day
- 3. Backup a week
- 4. Backup a period



These four options are accessible by clicking the small down arrow located next to the "**Backup**" button on the main toolbar. Once you select one of the available backup options from the pop-up menu, it will become the default option associated with the "**Backup**" toolbar button.

Note: if the set of DICOM files to burn exceeds the free size of the media you've loaded, then DICOMBurner spans the DICOM files over two or more CDs/DVDs.

9.1 Backup database

DICOMBurner allows the backup of the database content to prevent loss of data in case of system crash. Note that this function saves only the database tables entries, not the DICOM files storage. To completely recover from a system disaster, you need to perform periodically backup of both database and DICOM files (as explained in the next sections).

To start the database backup procedure you have to select the *"Backup database"* popup menu option then it will appear a dialog similar to the following one allowing you to give a name to the database backup file. By pressing the **"Save**" button the procedure will start.



9.2 Backup a day

If you select the *"Backup a day"* popup menu option, it will appear a dialog similar to the following one. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the store date representing the day you want to backup and the backup status (backed-up or not) of the instances. By pressing the **"Filter**" button you obtain the list of instances satisfying the set conditions. If you select an instance by clicking with the mouse over the corresponding row of the Instance List, you



obtain a preview image of the DICOM file. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Also in this case in you can change the CD/DVD options with respect to the default one set by the "CD/DVD Burner Configuration" tab. You can start the backup procedure of the selected instances by pressing the "**Backup**" button.

👏 Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
rain Sagittal3D	MF-0000010		2006/10/11 - 12:16:54	1	1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147
rain Sagittal3D	MF-0000010		2006/10/11 - 15:43:32	1	1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.159644927.1174006739
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.3454671679.107887431
rostate Otto	Demo patient 2		2006/10/11 - 12:15:13		1.3.6.1.4.1.2452.6.4007965886.113471577
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.4029470474.128238746
rostate Otto	Demo patient 2		2006/10/10 - 16:53:35		1.3.6.1.4.1.2452.6.120040121.21137.344.4
rostate Otto	Demo patient 2		2006/10/10 - 16:53:35		2.16.124.113534.2.3.5.0.120031208.21135
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	1	1.3.6.1.4.1.2452.6.120040121.21137.345.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	2	1.3.6.1.4.1.2452.6.120040121.21137.345.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	3	1.3.6.1.4.1.2452.6.120040121.21137.344.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	4	1.3.6.1.4.1.2452.6.120040121.21137.344.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	5	1.3.6.1.4.1.2452.6.120040121.21137.344.2
itore Date			Backup status		Preview of highlighted image
2006/10/12	-		Non backed-u	IP I	
2006/10/12 Filter	<u> </u>				

9.3 Backup a week

If you select the "Backup a week" popup menu option, it will appear a dialog similar to the following one. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the store dates range representing the week you want to backup and the backup status (backedup or not) of the instances. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. If you select an instance by clicking with the mouse over the corresponding row of the Instance List, you obtain a preview image of the DICOM file. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Also in this case in you can change the CD/DVD options with respect to the default one set by the



"CD/DVD Burner Configuration" tab. You can start the backup procedure of the selected instances by pressing the "**Backup**" button.

🥑 Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
Brain Sagittal3D	MF-0000010		2006/10/11 - 12:16:54	1	1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1 3 6 1 4 1 2452 6 159644927 1174006739
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1 3 6 1 4 1 2452 6 3454671679 107887431
Prostate Otto	Demo patient 2		2006/10/11 - 12:15:13		1.3.6.1.4.1.2452.6.4007965886.113471577
Prostate Otto	Demo natient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.4029470474.128238746
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		1.3.6.1.4.1.2452.6.120040121.21137.344.4
rostate Otto	Demo patient 2		2006/10/10 - 16:53:35		2.16.124.113534.2.3.5.0.120031208.21135
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	1	1.3.6.1.4.1.2452.6.120040121.21137.345.1
rostate Otto	Demo patient 2		2006/10/10 - 16:53:34	2	1.3.6.1.4.1.2452.6.120040121.21137.345.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	3	1.3.6.1.4.1.2452.6.120040121.21137.344.1
Tostato Otto					
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	4	1.3.6.1.4.1.2452.6.120040121.21137.344.1
ering Options	Demo patient 2 Demo patient 2 Demo patient 2	ve Instances List:	2006/10/10 - 16:53:34 2006/10/10 - 16:53:34	4 5	1.3.6.1.4.1.2452.6.120040121.21137.344.1 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2
ering Options ease select the paramet store Date 2006/10/09	Demo patient 2 Demo patient 2 ters used to filter the abo d after: 2006/10/:	ve Instances List: nages stored before: 15	2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 Backup status C All files C All files Non backed-u	P	1.3.6.1.4.1.2452.6.120040121.21137.344.1 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.2.6.1.4.1.2452.6.120040121.21137.344.2 Select All Preview of highlighted image
rostate Otto rostate Otto ro	Demo patient 2 Demo patient 2 Demo patient 2 ters used to filter the abo d after: 2006/10/:	ve Instances List: nages stored before: 15	2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 Backup status C All files © Non backed-u	P	1.3.6.1.4.1.2452.6.120040121.21137.344.1 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.2.6.1.4.1.2452.6.120040121.21137.344.2 Select All Preview of highlighted image
ering Options	Demo patient 2 Demo patient 2 ters used to filter the abo d after: 2006/10/:	ve Instances List: mages stored before; 15	2006/10/10 - 16:53:34 2006/10/10 - 16:55:34 2006/10/10 - 16:55:34	P	1.3.6.1.4.1.2452.6.120040121.21137.344.1 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.2.6.1.4.1.2452.6.120040121.21137.344.2 Select All Preview of highlighted image
rostate Otto Store Date Store Date Store Date 2006/10/09 Filter /DVD options D/DVD unit name: R	Demo patient 2 Demo patient 2 Demo patient 2 ters used to filter the abo d after: Show in 2006/10/: MG_CD_BKP	ve Instances List: mages stored before: 15	2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 2006/10/10 - 16:53:34 C All files C All files C All files C Non backed-u	p	1.3.6.1.4.1.2452.6.120040121.21137.344.1 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 Select All Preview of highlighted image
rostate Otto r	Demo patient 2 Demo patient 2 Demo patient 2 ters used to filter the abo d after: MG_CD_BKP	ve Instances List: mages stored before: 15	2006/10/10 - 16:53:34 2006/10/10 - 16:55:24 2006/10/10 - 16:55:24	p	1.3.6.1.4.1.2452.6.120040121.21137.344.1 1.3.6.1.4.1.2452.6.120040121.21137.344.2 1.3.6.1.4.1.2452.6.120040121.21137.344.2 Select All Preview of highlighted image

9.4 Backup a period

If you select the "Backup a week" popup menu option, it will appear a dialog similar to the following one. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the store dates range representing the period you want to backup and the backup status (backed-up or not) of the instances. By pressing the "**Filter**" button you obtain the list of instances satisfying the set conditions. If you select an instance by clicking with the mouse over the corresponding row of the Instance List, you obtain a preview image of the DICOM file. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Also in this case in you can change the CD/DVD options with respect to the default one set by the "CD/DVD Burner Configuration" tab. You can start the backup procedure of the selected instances by pressing the "**Backup**" button.

🥑 Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
Brain Sagittal3D	MF-0000010		2006/10/11 - 12:16:54	1	1.3.6.1.4.1.5962.1.1.5010.1.1.1118413147
Brain Sagittal3D	MF-0000010		2006/10/11 - 15:43:32	1	1.3.6.1.4.1.5962.1.1.5010.2.1.1118413147
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.159644927.1174006739
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.3454671679.107887431
Prostate Otto	Demo patient 2		2006/10/11 - 12:15:13		1.3.6.1.4.1.2452.6.4007965886.113471577
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34		1.3.6.1.4.1.2452.6.4029470474.128238746
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		1.3.6.1.4.1.2452.6.120040121.21137.344.4
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:35		2.16.124.113534.2.3.5.0.120031208.21135
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	1	1.3.6.1.4.1.2452.6.120040121.21137.345.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	2	1.3.6.1.4.1.2452.6.120040121.21137.345.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	3	1.3.6.1.4.1.2452.6.120040121.21137.344.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	4	1.3.6.1.4.1.2452.6.120040121.21137.344.1
Prostate Otto	Demo patient 2		2006/10/10 - 16:53:34	5	1.3.6.1.4.1.2452.6.120040121.21137.344.2
ering Options ease select the paramet	ers used to filter the abo	ve Instances List:			Select All
ering Options ease select the paramet Store Date Show images stored 2006/10/12	after: Show in 2006/10/1	ve Instances List: nages stored before: 2	Backup status C All files © Non backed-u	p	Select All

10 Restore DICOM files and database

In case of accidental loss of data DICOMBurner allows restoring DICOM files and database contents, by using the database backup files and backup CDs or DVDs containing DICOM files. There exist two kinds of restore procedures:

- 1. Restore database
- 2. Restore images



These two options are accessible by clicking the small down arrow located next to the "**Restore**" button on the main toolbar. Once you select one of the available restore options from the pop-up menu, it will become the default option associated with the "**Restore**" toolbar button.

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10.1 Restore database

In case of system crashes the entire content of the database can be lost. In this case after you have reinstalled the system, you can recover the database content by using most recent database backup file (having the DBK extension). This operation restores the database content and then starts the purging of the entire content of the DICOM storage setting all instances status to offline. This is to reset the system preparing it to the restore of the DICOM files. To start the database restoring procedure you have to select the *"Restore database"* popup menu option then it will appear a dialog similar to the following one allowing you to select a database backup file. By pressing the **"Open"** button the procedure will start.

Important note: this functionality shouldn't be started if a system disaster doesn't happen else you can loss all of the DICOM files stored.



10.2 Restore images

To start the DICOM files restoring procedure you have to select the *"Restore images"* popup menu option then DICOMBurner shows a GUI wizard guiding you through a hierarchical (Study – Series – Instance) selection of the DICOM files to be restored.

10.2.1 Study-level search

The study-level step of the wizard procedure allows you to select the studies containing the DICOM files you want to restore in the local database. This step includes both the filtering options related to patient and study levels. The list of studies can be filtered by specifying some filtering options (or search criteria): in particular, the patient identification filters, the acceptable range of birth dates, the patient sex and the



acceptable range of study dates. By pressing the "Filter" button you obtain the list of studies satisfying the set conditions. Then you can select all studies you are interested in by using the mouse and multiple file selection technique. The "Deselect All/Select All" button can simplify this task. Finally, you can proceed to the next step by pressing the "Next>" button. As a shortcut you can start the restoring procedure of the selected studies without reaching the last wizard step by pressing the "Restore Studies" button.

🎂 Patient Name	Patient ID	Patient Sex	Patient Birth Date	Study Date	Study Description
collaudo tc collaudo tc	P20040000M	0	1899/12/30	2004/01/22	Scintigrafia Tiroide
destra destra	P20040001Y	0	1899/12/30	2004/03/09	Scintigrafia Tiroide
Eddie G	P200400018	0	1899/12/30	2004/04/08	Scintigrafia Tiroide
Eddie G	P200400018	0	1899/12/30	2004/04/08	Scintigrafia Tiroide
•					<u> </u>
Select All					Restore Studie
Select All Select All tering Options lease select the parameters us Patient Identification Show only patients whose Show only patients whose	ed to filter the above Studie e Patient Name: starts wi e Patient ID: starts wi	es List:			SexShow only patients with sex equal to:
Select All Select All tering Options lease select the parameters us Patient Identification Show only patients whose Show only patients whose Show only patients whose Show only patients born after 2006/10/26	ed to filter the above Studie e Patient Name: starts wil e Patient ID: starts wil starts wil : Show pat 2006/10/26	es List:	Study Date	started after:	Sex

10.2.2 Series-level search

The series-level step of the wizard procedure allows you to select the series containing the DICOM files you want to restore in the local database. The list of series can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of series dates and the producing modalities. By pressing the "**Filter**" button you obtain the list of series satisfying the set conditions. Then you can select all series you are interested in by using the mouse and multiple file selection technique. The "**Deselect All/Select All**" button can simplify this task. Finally, you can proceed to the next step by pressing

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the "Next>" button. As a shortcut you can start the restoring procedure of the selected series without reaching the last wizard step by pressing the "Restore Series" button.

👌 Patient Name	Patient ID	Modality	Series Date	Series Num	Series Description	S
collaudo to collaudo to	P20040000M	NM	2004/01/22	1	Scintigrafia Tiroide	1
destra destra	P20040001Y	NM	2004/03/09	1	Scintigrafia Tiroide	1
Eddie G	P200400018	NM	2004/04/08	1	Scintigrafia Tiroide	1
Eddie G	P200400018	NM	2004/04/08	1	Scintigrafia Tiroide	1
Select All ering Options	re used to filler the ob	ouo Sorios Listu				Restore Series
Select All Select All tering Options ease select the paramete Series Date Show series started 2006/10/26 Series Modality Show series produced by	rs used to filter the ab	ove Series List:	5how series started	before:		Restore Series
Select All Select All tering Options ease select the paramete Series Date Solution Series started 2006/10/26 Series Modality Show series produced by	rs used to filter the ab after:	ove Series List:	5how series started 16/10/26	before:		Restore Series
Select All Select All tering Options ease select the paramete Series Date Show series started 2006/10/26 Series Modality Show series produced by AU AU Audio Extended Select All Select All Select All Audio Extended Select All Select	rs used to filter the ab after:	ove Series List:	5how series started 16/10/26	before:		Restore Series
Select All Select All tering Options ease select the paramete Series Date Show series started 2006/10/26 Series Modality Show series produced by AU BI BI D CD Color Col	rs used to filter the ab after: / Modality: gnetic imaging	iove Series List:	5how series started 16/10/26	before:		Restore Series
Select All Select All tering Options ease select the paramete Series Date Show series started 2006/10/26 Series Modality Show series produced by AU AU BI BI Dioma CD Color	rs used to filter the ab after: / Modality: gnetic imaging flow Doppler	ove Series List:	5how series started	before:		Restore Series

10.2.3 Instance-level search

The instance-level step of the wizard procedure allows you to select the DICOM files/instances you want to restore in the local database. The list of instances can be filtered by specifying some filtering options (or search criteria): in particular, you can set the acceptable range of acquisition dates, the acceptable range of store dates and the backup status (backed-up or not) of the instances. By pressing the **"Filter**" button you obtain the list of instances satisfying the set conditions. Then you can select all instances you are interested in by using the mouse and multiple file selection technique. The **"Deselect All/Select All**" button can simplify this task. Finally, you can proceed to the next step by pressing the **"Next>**" button.



🥂 Patient Name	Patient ID	Acquisition Date	Store Date	Inst Num	SOP Instance UID
:ollaudo tc collaudo tc Jestra destra Eddie G Eddie G	P20040000M P20040001Y P200400018 P200400018	2004/01/22 2004/03/09 2004/04/08 2004/04/08	2006/10/17 - 18:02:50 2006/10/17 - 18:02:57 2006/10/17 - 18:02:54 2006/10/17 - 18:02:54	1 1 1 1 1	1.3.6.1.4.1.18047.1.4.2004.11.18.15.11.20.6 1.3.6.1.4.1.18047.1.4.2004.11.18.15.11.27.1 1.3.6.1.4.1.18047.1.4.2004.11.18.15.11.29.8 1.3.6.1.4.1.18047.1.4.2004.11.18.15.11.29.8
•					
Select All tering Options ease select the parameter Acquisition Date	rs used to filter the ab d after:	ove Instances List: images acquired befor	e:		
Select All Select All tering Options ease select the parameter Acquisition Date Show images acquired 2006/10/26	rs used to filter the ab d after: Show 2006/10	ove Instances List: images acquired befor	e:		
Select All Select All tering Options ease select the parameter Acquisition Date Show images acquired 2006/10/26 Store Date Store Date 2006/10/26	rs used to filter the ab d after: Show 2006/10 after: Show 2006/10	ove Instances List: images acquired befor 1/26	e:		

10.2.4 Restore files step

The restore files step is the last one in the wizard procedure and a list of alternative restore solutions is displayed. By clicking a listed restore solution the list of media code identifying the CDs or DVDs that will be need is displayed. You have to select your favorite restore solution and the CD/DVD unit name to be used for the CD/DVD automatic loading and reading (the automatic loading isn't suitable if a local optical reader has been selected). Finally you can start the restoring process by pressing the "**Restore files**" button.



estore solution 1	Media Code	Burn Datetime
	00001BKP00000017	2006/09/29 - 17:02:13
אָטעט unit name:		
MG_CD_BKP 🗾		

11 Viewing information

11.1 View Log dialog box

The "**View Log**" dialog box allows viewing a detailed log of the events occurring inside DICOMBurner and of the actions performed.

A List control is displayed on the dialog: each row of the list represents a logged event. Each event is defined by the following information:

- Event ID: a unique number that univocally identifies the event.
- Date: the date when the event occurred.
- Time: the time when the event occurred.
- Event type: tells if the logged event is a "Message", a "Warning" or an "Error".

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- Event source: describes the source that originated the logged event or action. Currently defined sources are:
 - o **DICOM UL**: events coming from the DICOM Upper Layer software layer.
 - **DIMSE**: events coming from the DIMSE software layer.
 - o Database: events or action coming from the database manager.
 - **Application**: events or actions occurring at application level.
- Event description: the actual description of the logged event or action.

The following picture shows a snapshot of the "View Log" dialog box:

Then log					
Event ID	Date	Time	Event Type	Event Source	Event Description
110	14/09/2005	17:13:39	Message	Application	Client connection received (from IP 127.0.0.1, port 2610
111	14/09/2005	17:13:39	Message	Application	Ready to accept client connections on server port 104.
112	14/09/2005	17:13:39	Message	Application	Client thread started.
121	14/09/2005	17:13:39	Message	Database	Open connection num. 1
173	14/09/2005	17:13:39	Message	DICOM UL	Association accepted.
201	14/09/2005	17:13:48	Message	DIMSE	C-STORE-RQ message received.
203	14/09/2005	17:13:48	Message	Application	C-STORE indication on MR Image Store SOP Instance.
212	14/09/2005	17:13:48	Message	DIMSE	C-STORE-RSP message sent.
215	14/09/2005	17:13:50	Message	DICOM UL	Association released.
216	14/09/2005	17:13:50	Message	Database	Close connection num. 1
217	14/09/2005	17:13:53	Message	Application	Client connection closed.
218	14/09/2005	17:13:53	Message	Application	Thread stopped.
•					Þ
Clear log					Close

The View Log dialog box

12 DICOMBurner Configuration

In order to enter the DICOMBurner Configuration section, you must stop the connection server (by pressing the "**Stop**" button on the main toolbar) and press the "**Settings**" button on the main toolbar. The "*DICOMBurner Configuration*" dialog appears: this dialog is composed of several different tabs, each one dedicated to a specific configuration section.

12.1 DICOM Configuration

The "**DICOM Configuration**" tab allows setting several parameters related to the DICOM associations and communication. A description of each configuration parameter available in this dialog box is now provided:

- DICOM Association Parameters:
 - Server listening port: the TCP port on which the connection server is listening for incoming connections by DICOM Storage SCU. Default value is 104.

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- Maximum number of associations: the maximum number of concurrent DICOM associations accepted by DICOMBurner.
- ARTIM Timer value: the timeout value (in milliseconds) of the ARTIM Timer, used in the DICOM Upper Layer (see DICOM PS 3.8).
- Maximum received PDU size: the maximum PDU length (in bytes) accepted by DICOMBurner. This value refers to the maximum length of the variable field of the P-DATA-TF PDUs that will be sent by the association requestor.
- **AE Title**: the Application Entity Titles that is currently associated with DICOMBurner.
- SOP Classes Support as SCP: by checking/unchecking a row of the list you are able to enables/disables support for the related SOP Class.

The following picture shows a snapshot of the "DICOM Configuration" dialog box:

Real Automatic CD/DVD Production Configu	ration	Rutomatic Backup Configuration
Configuration Rele Storage	Configuration	CD/DVD Burner Configuration
A DICOM Configuration	7	DICOM Devices Configuration
June 1 configuration	2	p bicon boncos comigaration
DICOM Association Parameters		
Server listening port:	104	
Maximum number of concurrect associations:	10	
ARTIM Timer value:	2500	ms
Maximum received PDU size:	524288	bytes
AE Title:	DICOMBUR	RNER
Enable support for Basic Text SR		A
Enable support for Color Softcopy Prese	ntation State	Storage
Enable support for Comprehensive SR		
Enable support for Computed Radiograp	hy Image Sto	rage
Enable support for Computed Tomograp	hy Image Sto	rage
Enable support for Digital Intra-oral X-Ra	ay Image Stor	age - For Presentation
Enable support for Digital Intra-oral X-Ra	ay Image Stor	age - For Processing
Enable support for Digital Mammography	Image Stora	ge - For Presentation
Enable support for Digital Mammography	Thage Stora	ge - For Processing
Enable support for Enhanced Computed	romography leconance Im	anage Storage
Enable support for Enhanced Magnetic R	Coolidiice IIII	
Enable support for Patient Root Query/R	Retrieve Infor	mation Model - FIND
Enable support for Study Root Query/Re	etrieve Inform	nation Model - FIND
Enable support for Patient Root Query/R	letrieve Infor	mation Model - MOVE
Enable support for Study Root Query/Re	etrieve Inform	nation Model - MOVE
1		

The DICOM Configuration tab

12.2DICOM Devices Configuration

The "**DICOM Devices Configuration**" tab allows setting some parameters to configure the remote DICOM devices that DICOMBurner will interact with. The buttons on the dialog allows you to add a new device configuration, modify or remove an exiting one, verify the connection between DICOMBurner and the remote device or set a remote device as default for the available DICOM device operations.

Log Configuration File Storage Configuration CD/DVD Burner Configuration DICOM Configuration DICOM Devices Configuration Ist of configured DICOM Devices: Disconfigured DICOM Devices: DICOMBurner DICOMBURNER DEVEL01 DICOMBurner DICOMBURNER DEVEL01 EFilm EFILM SERVE 4006 PacsOne [default] PACSONE SERVE 1234 Storage SCP, Q/F SERVE 1234 Storage SCP, Q/F Add Modify Remove Verify Set as default	I Automatic CD/DVD Pro	duction Configuratio	n 🗍 🧞	Automa	tic Backup Configuratio
DICOM Configuration DICOM Devices Configuration COM Devices Options dist of configured DICOM Devices: Description AE Title Hostname Port Type DICOMBURNER DEVEL01 104 Storage SCP, Q/F EFIIm EFILM SERVE 4006 Storage SCP, Q/F PacsOne [default] PACSONE SERVE 1234 Storage SCP, Q/F Ad Modify Remove Verify Set as default	Configuration	😭 File Storage Conf	iguration	📲 CD/	DVD Burner Configurati
COM Devices Options ist of configured DICOM Devices: DICOMBurner DICOMBURNER DEVEL01 104 Storage SCP, Q/F EFilm EFILM SERVE 4006 Storage SCP, Q/F PacsOne [default] PACSONE SERVE 1234 Storage SCP, Q/F Image: Serve structure Add Modify Remove Verify Set as default	🎂 DICOM Configura	ation	S DICO	M Devic	es Configuration
Act rule Nosuraine For the point Type DICOMBurner DICOMBURNER DEVEL01 104 Storage SCP, Q/F EFilm EFILM SERVE 4006 Storage SCP, Q/F PacsOne [default] PACSONE SERVE 1234 Storage SCP, Q/F Image: Serve in the ser	COM Devices Options	vices:	Hestrome	Dort	Turo
DICOMBURNER DEVEL01 104 Storage SCP, Q/F EFilm EFILM SERVE 4006 Storage SCP, Q/F PacsOne [default] PACSONE SERVE 1234 Storage SCP, Q/F Add Modify Remove Verify Set as default	S Description A	AL HUE	nosulaille	PUR	Туре
EFIIM EFILM SERVE 4006 Storage SCP, Q/F PacsOne [default] PACSONE SERVE 1234 Storage SCP, Q/F	DICOMBurner	DICOMBURNER	DEVEL01	104	Storage SCP, Q/F
Add Modify Remove Verify Set as default	EFilm	EFILM	SERVE	4006	Storage SCP, Q/F
Add Modify Remove Verify Set as default	PacsOne [default]	PACSONE	SERVE	1234	Storage SCP, Q/F
Add Modify Remove Verify Set as default	.1				
	Add Modify	Remove	Verify	1	Set as default

By pressing the "**Add**" or "**Modify**" button, DICOMBurner shows a dialog similar to the following one. This dialog allows setting the following device parameters:

- Description: a non-empty and unique text value identifying the device
- AE Title: a non-empty and unique Application Entity Title of the device
- Hostname: the host name or IP address of the DICOM device
- **Port:** the TCP port on which the DICOM device is listening for incoming connections
- Device type: determine if the device acts as Storage SCP, Query/Retrieve SCP or both



DICOM Device Configurat	ion	×
Device parameters		1
Description:	NewDescription_0	
AE Title:	NewAETitle_0	
Hostname:	DCMServer	
Port:	104	
Device type		
Query/Retrieve SC	p	
Verify	Cancel OK	

12.3Log Configuration

The "**Log Configuration**" tab allows setting some parameters related to the production of log by DICOMBurner. A description of each configuration parameter available in this dialog box is now provided:

- Log Verbosity Configuration:
 - Enable log on the "View Log" dialog: enables/disables the log output on the View Log dialog box. Disabling the log on the "View Log" window may be useful in cases where DICOMBurner may run unattended for long time periods, since a long log output on the View Log window may consume a lot of memory. In any case, DICOMBurner periodically performs an automatic truncation of the log on window.
 - Enable Verbose Mode: enables/disables the Verbose Mode. If the Verbose Mode is enabled, the logged information presents a higher level of detail.

Debug Mode Configuration:

- Enable Debug Mode: enables/disables the Debug Mode. If the Debug Mode is enabled, a debug file is produced by DICOMBurner, containing all the main events occurring inside DICOMBurner and the main performed actions.
- **Debug file pathname**: allows specifying, through the "**Browse...**" button, the pathname of the Debug file.

The following picture shows a snapshot of the "Log Configuration" tab:



DICOMBurner Configuration
Jautomatic CD/DVD Production Configuration
A DICOM Configuration
CD/DVD Burner Configuration
Log Verbosity Configuration Enable Verbose Mode Debug Mode Configuration Enable Debug Mode (log in separate file) Debug file pathname: C:\Programmi\NeoLogica\DICOMBurner v3.1.0\Logs\ Browse
OK Cancel

The Log Configuration tab

12.4 File Storage Configuration

The "**File Storage Configuration**" tab allows setting some preferences related to the policies used by DICOMBurner to manage the database where the received DICOM files are stored in. A description of each configuration parameter available in this dialog box is now provided:

- Storage Purging: DICOMBurner is able to perform periodic checks on the current storage space and thresholds used by its internal DICOM files database. Based on user-defined rules, DICOMBurner can automatically delete the oldest files (according to the actual storage date/time) from database, in order to recover storage space. This deletion activity is known as "Storage Purging".
 - Enable purge when free disk space falls below a given threshold: if this option is enabled, the storage database will increase its size until the free disk space falls below the specified threshold (*Minimum Free Disk Space Threshold*). At this point, the oldest DICOM

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files contained in the database (according to the actual storage date) will be deleted until the free disk space rises above the second specified threshold (*Free Disk Space After Purge*):

- Minimum Free Disk Space Threshold: a value representing the minimum number of megabytes always granted as free disk space.
- Free Disk Space After Purge: a value representing the number of megabyte of free disk space available after database purging. Note: this value has to be greater than the *Minimum Free Disk Space Threshold*.
- Enable purge when DICOM files storage space exceeds a given threshold: if this option is enabled, the storage database will grow until its size exceeds below the specified threshold (*Maximum File Storage Space Threshold*). At this point, the oldest DICOM files contained in the database (according to the actual storage date) will be deleted until the storage space falls below the second specified threshold (*Storage Space After Purge*):
 - **Maximum File Storage Space Threshold**: a value representing the maximum number of megabytes allowed for the database space.
 - Storage Space After Purge: a value representing the number of megabyte of database space after its purging. Note: this value has to be less than the *Maximum File Storage Space Threshold*.
- **Enable purge of DICOM files older than a given age**: if this option is enabled, all the DICOM files older than the set number of days are automatically deleted:
 - Maximum File Age: a value representing the maximum age (in days) allowed for a stored DICOM files.
- Storage Location: this section allows setting up the local folder to store where the received DICOM files will be stored:
 - Files Root Folder: indicates the root folder in which DICOMBurner stores the received DICOM files. The "Browse..." button allows an easy selection of the root folder.

 Select the root folder where the incoming images will be stored:	
⊡ Software ⊡	
🛛 📄 ст	
🛅 EnhancedCT	

The following picture shows a snapshot of the "File Storage Configuration" tab:



Automatic CD/DVD Production Col	nfiguration	8	Automatic Backup Co	nfiguration
急 DICOM Configuration	r	🛛 😓 DIC	OM Devices Configura	ation
🔁 Log Configuration 🦳 📴 File Stora	age Configu	ration [[📓 CD/DVD Burner (Configuration
torage purging				
Enable purge when free disk space	falls below a	aiven thre	shold	
Minimum Free Disk Space Threshold:	1024	MBytes		
Free Dick Space After Durger	1536	MButec		
	1.000	Moytes		
Enable purge when DICOM files stol	rage space e	xceeds a (-	given threshold	
Maximum File Storage Space Threshold:	1024	MBytes		
Storage Space After Purge:	512	MBytes		
Enable purge of DICOM files older to Maximum File Age:	han a given a 365	age Days		
torage Location				
Files Root Folder: F:\Storage			Browse	

The File Storage Configuration tab

12.5CD/DVD Burner Configuration

The "**CD**/**DVD Burner Configuration**" tab allows setting up the burner units that you need to use to produce CD or DVD containing DICOM files. For any configured unit you can set the default parameters used during the burning process (for production or backup). The button on the dialog allows you to add a new burner configuration, modify, remove or duplicate an exiting one or set a burner as default for backup or production. Note that any configured unit can be associated to the same hardware robot, so you can obtain many different configurations for a single physical unit.



DICOM Configuration DICOM Devices Configuration Log Configuration File Storage Configuration CD/DVD Burner Configuration afault CD/DVD Burner Options Ist of configured CD/DVD Burner: Description Ist of configured CD/DVD Burner: Description Description D_Drive Local Production [default] Autodetected PRM_CD_PRD1 Primera Production PRM_CD_PRD2 PRM_CD_PRD1 Rimage Production RMG_CD_PRD1 RMG_CD_PRD1 Rimage Production Production Add Duplicate Modify Remove Set as default	Automatic CD/I	DVD Product	ion Configuration	Rutomatic Backup Configuration
Icog Configuration File Storage Configuration CD/DVD Burner Configuration efault CD/DVD Burner Options	🔬 DICOM 🚷	Configuration	n	DICOM Devices Configuration
add Duplicate Modify Remove Set as default	Log Configuration	n 🛛 👩 File	Storage Configuration	CD/DVD Burner Configuration
PRM_CD_PRD_DEF Primera Production RMG_CD_PRD1 Rimage Production Image Production Image Image Image Image Image	ist of configured CD, D_Drive E_Drive PRM_CD_PRD1 PRM_CD_PRD2	/DVD Burner Type Local Local Primera Primera	Usage Production [defaul Production Production Production	Description t] Autodetected Autodetected
Add Duplicate Modify Remove Set as default	RMG_CD_PRD1	Rimage	Production	
	Add D	uplicate	Modify Re	emove Set as default

The CD/DVD Burner Configuration tab

By pressing the "**Add**" or "**Modify**" button, DICOMBurner shows a GUI wizard allowing you to set all the unit parameters. DICOMBurner is able to manage local CD/DVD burners and CD/DVD robot producer such as Rimage, MFDigital and Primera. Since some parameters are specific of a certain kind of burner, we'll discuss any single configuration wizard in the following sections.

12.6 Local Burner Configuration

At the first step of the GUI wizard you have to select "Local CD/DVD Writer". Then you can specify the following options:

- Unit Type:
 - o Local CD/DVD Writer: specifies a local burner
 - Drive Letter: indicates the drive letter of the local burner
- Unit Identification:



- Name: a not-null and unique name that identifies the unit
- o Description: an optional description of the unit
- **Usage:** the destination use (*Production or Backup*) assigned to the unit (for a local burner only *Production* is suitable)

 Local CD/I Rimage 	VVD Writer Drive letter: E
C Primera	
C MFDigital	
Init Identification Name:	LOCAL_PRD_DVD
Description:	A local burner to produce DVD
Usage:	Production

By clicking "**Next>**" button you reach the second step of the GUI wizard where you can specify the following options:

- Default CD/DVD Options:
 - Number of copies: specifies the number of CD/DVD copies for any burn process.
 - Interchange Profile: specifies a Media Storage Application Profile as defined by DICOM PS 3.11.
 - **Eject CD/DVD at the end of the process**: a flag specifying if the media has to be ejected at the end of the burning process.
 - **Close CD/DVD at the end of the process**: a flag specifying if the media has to be closed (no more burnable) at the end of the burning process.
 - Delete burnt/backed-up files from database at the end of the process: a flag specifying if the files copied to CD or DVD have to be deleted from the local database at the end of the burning process.
- Burning Parameters:
 - Working directory: specifies a temporary folder where DICOMBurner will copy all the files to be burnt. At the end of the burning process DICOMBurner removes these files.

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• **Media Type**: specifies if the burner has to produce CDs or DVDs.

CD/D¥D Burner Conf	iguration	×
Default CD/DVD (Number of copie Interchange Pri	Options es: 1 Dofile: No Profile (Unmodified Transfer Syntax)	
 ✓ Eject CD/DV ✓ Close burnt ✓ Delete burnt 	/D at the end of the process CDs/DVDs at the end of the process t/backed-up files from database at the end of the process	
Burning Paramete	ers	
Working director	ry: Programmi\NeoLogica\DICOMBurner v3.0\WD Browse	
Jobs directory:	Browse	
Media Type:	DVD V	
	< <u>I</u> ndietro <u>A</u> vanti > Annulla	

By clicking "**Next>**" button you reach the third step of the GUI wizard where you can specify the following options:

- **CD/DVD Image Viewer**: DICOMBurner allows putting a DICOM image viewer on every burnt CD/DVD, so you can specify the location of the executable application file:
 - Add an autorunning DICOM viewer on the CD/DVD: a flag specifying if a DICOM Viewer has to be included into CD/DVD during the burning process.
 - LocalEye DICOM Viewer: is a DICOM Viewer developed by NeoLogica and provided with the DICOMBurner application package. For LocalEye Viewer you can select the interface language and the target operating system(s) to run the disk on.
 - Other DICOM Viewer: this option allows you to select any other viewer you like. The "Browse..." button allows an easy selection of the pathname. If the viewer is made of a set of files, you have to check "*Include all files contained into the application folder*".



	D Image Viewer	1
I I A	- dd an autorunning DICOM viewer on the CD/DVD	
C	LocalEye DICOM Viewer	
	Target Operating System(s) ↓ Windows ↓ Linux ↓ Mac O5X	
0	Other DICOM Viewer	
	C:\Programmi\NeoLogica\DICOMBurner v3.1.0\Viewer\Local Browse	
	Include all files contained in the application folder	
]
	< Indietro Fine Annulla	

By clicking "Finish" button you save the configuration.

12.7 Rimage Unit Configuration

If you have a Rimage CD/DVD Production Unit and a DICOMBurner license including the Rimage option then you can configure it for production or backup purposes.

At the first step of the GUI wizard you have to select "Rimage". Then you can specify the following options:

- Unit Type:
 - o Rimage: specifies a Rimage robot
- Unit Identification:
 - o Name: a not-null and unique name that identifies the unit
 - o Description: an optional description of the unit
 - Usage: the destination use (Production or Backup) assigned to the unit



Unit Type	VD Writer Drive letter:
Rimage	
O Primera	
O MFDigital	
-Unit Identification	
Name:	RMG_PRD_DVD
Description:	A Rimage unit to produce DVD
Usage:	Production

By clicking "**Next>**" button you reach the second step of the GUI wizard where you can specify the following options:

- **Networking:** specifies the networking parameters used to connect DICOMBurner to the Rimage Unit.
 - o Server Host Name: specifies the name of the server managing the Rimage Unit.
 - Server Host Port: specifies the port of the server managing the Rimage Unit.
 - Server Password: specifies the password of the server managing the Rimage Unit.
 - **Email Notification**: a checkbox allows you to receive an email notification on the completion or cancellation of the issued Rimage order.
 - Email address: specifies the email address to be notified.

CD/DVD Burner Configur	ation	×
- Notworking		
Networking		
Server User Name:		
Server Host Name:	rimage_server	
Server Host Port:	2506	
Server Password:		
🔲 An email will be s	ent on completion or cancellation of the order	
Email address:		
	< <u>I</u> ndietro <u>A</u> vanti > Annulla	

By clicking "**Next>**" button you reach the third step of the GUI wizard where you can specify the following options:

• Default CD/DVD Options:

- Number of copies: specifies the number of CD/DVD copies for any burn process.
- Interchange Profile: specifies a Media Storage Application Profile as defined by DICOM PS 3.11.
- **Close CD/DVD at the end of the process**: a flag specifying if the media has to be closed (no more burnable) at the end of the burning process.
- Delete burnt/backed-up files from database at the end of the process: a flag specifying if the files copied to CD or DVD have to be deleted from the local database at the end of the burning process.

• Burning Parameters:

- **Working directory**: specifies a temporary folder where DICOMBurner will copy all the files to be burnt. At the end of the burning process DICOMBurner removes these files.
- Media Type: specifies if the burner has to produce CDs or DVDs.

CD/DVD Burner Configu	ration	×
Default CD/DVD Opti Number of copies: Interchange Profile	1 No Profile (Unmodified Transfer Syntax)	
Close burnt CD:	s/DVDs at the end of the process acked-up files from database at the end of the proc	ess
Burning Parameters -		
Working directory:	C:\Programmi\NeoLogica\DICOMBurner v3.0\V	Browse
Jobs directory:		Browse
Media Type:	DVD	
	< <u>I</u> ndietro <u>A</u> vanti >	Annulla

By clicking "**Next>**" button you reach the fourth step of the GUI wizard where you can specify the following options:

- **CD/DVD Image Viewer**: DICOMBurner allows putting a DICOM image viewer on every burnt CD/DVD, so you can specify the location of the executable application file:
 - Add an autorunning DICOM viewer on the CD/DVD: a flag specifying if a DICOM Viewer has to be included into CD/DVD during the burning process.
 - LocalEye DICOM Viewer: is a DICOM Viewer developed by NeoLogica and provided with the DICOMBurner application package. For LocalEye Viewer you can select the interface language and the target operating system(s) to run the disk on.
 - Other DICOM Viewer: this option allows you to select any other viewer you like. The "Browse..." button allows an easy selection of the pathname. If the viewer is made of a set of files, you have to check "Include all files contained into the application folder".

CD/DVD Burner Configuration
CD/DVD Image Viewer
Add an autorunning DICOM viewer on the CD/DVD
C LocalEye DICOM Viewer
Language: Italian
- Taxash Operating Sustan/c)
Windows V Linux
C Other DICOM Viewer
Application File Path:
C: (Programmi (veucogica (DiComburner V3.1.0) (viewer (cocal
Induce annes concarred in the application rolder

Note: if at the first step of the wizard you set Rimage for *Backup* usage then this step isn't shown because the image viewer is useless on a backup CD/DVD.

By clicking "**Next>**" button you reach the fifth step of the GUI wizard where you can specify the following options:

- **Label Selection**: the Rimage Unit allows you to print the CD/DVD surface, so you have to specify the file pathnames containing the label project.
 - Label File Name: specifies the pathname of the label project (BTW file).
 - Field File Name: specifies the pathname of the text file containing the dynamic field names (a TXT file containing the tab separated placeholders of every text field to be dynamically replaced by DICOMBurner at running time before printing of the media surface).
 - Dynamic Field Associations: allows setting the associations between a label field and a dynamic field. The "Associate>" and "<Clear" buttons respectively create or delete an association between a listed and selected "CD Label Field" and a "Dynamic Field" of the dropdown containing basic DICOM fields and Custom ones. To set a "Custom DICOM Field" you have to select the "Custom..." item into the dropdown and then the dialog below appears. It allows you to input the exadecimal "Group Number" and the "Element Number" of the DICOM element you desire.





The Custom DICOM Field Search dialog

Label Selection						
Print the label on	the p	roduced CD or DVI)			
Label File Name:	,Prod	luction\Rimage\PR	DLabel_DBv3	3_Eng.btw	Browse	
🔽 Use dynamic field	ds on t	he label				
Field File Name:	:\Pro	duction\Rimage\PF	DLabel_DBv	3_Eng.txt	Browse	
Dynamic Field:	, 	Associations:				
Study Date - (0008,	•	CD Label field	DICOM fiel	Ы		
(accessible		PatientID	Patient ID -	- (0010, 002	0)	
Associate	22	PatientName	Study Data	. /0000 00	20)	
		StudyDescript	Study Date	: - (0000, 00	20)	
< Clear	r	InstitutionName				
		1				

Note: if at the first step of the wizard you set Rimage for *Backup* usage then the label selection step allows you to select a backup label instead of a production one and the dynamic fields aren't of DICOM type:

CD/DVD Burner Configuratio	n			X
Label Selection				1
Print the label on the	backup CD or DVD			
Label File Name:	s\Backup\Rimage\Bk	PLabel_DBv3_Eng.btw	Browse	
Use dynamic fields or	the label			
Field File Name: be	ls\Backup\Rimage\B	KPLabel_DBv3_Eng.txt	Browse	
Dynamic Field:	Associations:			
Backup Date 💌	CD Label field	Dynamic field		
, [[]	MediumID	Medium ID		
Associate > j	BackupDate	Backup Date	_	
< Clear				
				_
		< Indietro Eine	Annulla	
		1.00		

By clicking "Finish" button you save the configuration.

12.8 Primera Unit Configuration

If you have a Primera CD/DVD Production Unit and a DICOMBurner license including the Primera option then you can configure it for production or backup purposes.

At the first step of the GUI wizard you have to select "Primera". Then you can specify the following options:

- Unit Type:
 - Primera: specifies a Primera robot
- Unit Identification:
 - o Name: a not-null and unique name that identifies the unit
 - o Description: an optional description of the unit
 - Usage: the destination use (Production or Backup) assigned to the unit

CD/DVD Burner Confi	guration	×
C Local CD/D C Rimage C Primera C MFDigital	VD Writer Drive letter:	
Unit Identification]
Name:	PRM_PRD_CD	
Description:	A Primera Unit to produce CD	
Usage:	Production	
		1
		-
	< Indietro Annulla Annulla	

By clicking "**Next>**" button you reach the third step of the GUI wizard where you can specify the following options:

- Default CD/DVD Options:
 - **Number of copies**: specifies the number of CD/DVD copies for any burn process.
 - Interchange Profile: specifies a Media Storage Application Profile as defined by DICOM PS 3.11.
 - **Close CD/DVD at the end of the process**: a flag specifying if the media has to be closed (no more burnable) at the end of the burning process.
 - Delete burnt/backed-up files from database at the end of the process: a flag specifying if the files copied to CD or DVD have to be deleted from the local database at the end of the burning process.
- Burning Parameters:
 - **Working directory**: specifies a temporary folder where DICOMBurner will copy all the files to be burnt. At the end of the burning process DICOMBurner removes these files.
 - **Jobs directory**: specifies the folder where DICOMBurner will copy the job file describing the order to be processed by the *"PTBurner"* software managing the Primera unit.
 - Media Type: specifies if the burner has to produce CDs or DVDs.

CD/D¥D Burner Configu	ration	×
Default CD/DVD Opti Number of copies: Interchange Profile	ns 1 No Profile (Unmodified Transfer Syntax)	
Close burnt CD	;/DVDs at the end of the process cked-up files from database at the end of the process	
- Burning Parameters -]
Working directory:	\\Rimage01\PrimeraWD\WD Browse	
Jobs directory:	\\Rimage01\PTBurnJobs Browse	
Media Type:		
L]
	< Indietro Annulla	

By clicking "**Next>**" button you reach the fourth step of the GUI wizard where you can specify the following options:

- **CD/DVD Image Viewer**: DICOMBurner allows putting a DICOM image viewer on every burnt CD/DVD, so you can specify the location of the executable application file:
 - Add an autorunning DICOM viewer on the CD/DVD: a flag specifying if a DICOM Viewer has to be included into CD/DVD during the burning process.
 - LocalEye DICOM Viewer: is a DICOM Viewer developed by NeoLogica and provided with the DICOMBurner application package. For LocalEye Viewer you can select the interface language and the target operating system(s) to run the disk on.
 - Other DICOM Viewer: this option allows you to select any other viewer you like. The "Browse..." button allows an easy selection of the pathname. If the viewer is made of a set of files, you have to check "Include all files contained into the application folder".

CD/DVD Burner Configuration	×
CD/DVD Image Viewer	
Add an autorunning DICOM viewer on the CD/DVD	
C LocalEye DICOM Viewer	
Language: Italian	
Target Operating System(s)	
Vindows V Linux	
Mac OSX	
C Other DICOM Viewer	
Application File Path:	
C:\Programmi\NeoLogica\DICOMBurner v3.1.0\Viewer\Local Browse	
Include all files contained in the application folder	
	_
< Indietro Fine Annulla	

Note: if at the first step of the wizard you set Primera for *Backup* usage then this step isn't shown because the image viewer is useless on a backup CD/DVD.

By clicking "Next>" button you reach the fifth step of the GUI wizard where you can specify the following options:

- Label Selection: the Primera Unit allows you to print the CD/DVD surface, so you have to specify the file pathnames containing the label project.
 - Label File Name: specifies the pathname of the label project (STD file).
 - Field File Name: specifies the pathname of the text file containing the dynamic field names (a TXT file containing the comma separated placeholders of every text field to be dynamically replaced by DICOMBurner at running time before printing of the media surface).
 - Dynamic Field Associations: allows setting the associations between a label field and a dynamic field. The "Associate>" and "<Clear" buttons respectively create or delete an association between a listed and selected "CD Label Field" and a "Dynamic Field" of the dropdown containing basic DICOM fields and Custom ones. To set a "Custom DICOM Field" you have to select the "Custom..." item into the dropdown and then the dialog below appears. It allows you to input the exadecimal "Group Number" and the "Element Number" of the DICOM element you desire.





The Custom DICOM Field Search dialog

Label Selection				1
Print the label on the p	roduced CD or DVD)		
Label File Name: \Pro	duction\Primera\PR	DLabel_DBv3_Eng.std	Browse	
Use dynamic fields on I	he label			
Field File Name: \Pro	duction\Primera\PR	DLabel_DBv3_Eng.txt	Browse	
Dupamic Fields	Accoriations			
Patient ID - (0010, 0 V	CD Label field	DICOM field		
	PatientID	Patient ID - (0010, 002	0)	
Associate >	PatientName	Patient Name - (0010, 1	0010)	
	StudyDate	Study Date - (0008, 00 Study Description - (00	20) 08 1030)	
< Clear	Institution Name	Institution Name - (000	8, 0080)	
	1			
				-
		< Indietro Fine	Annulla	

Note: if at the first step of the wizard you set Primera for *Backup* usage then the label selection step allows you to select a backup label instead of a production one and the dynamic fields aren't of DICOM type:

Label File Name:	\Pro	duction\Primera\PF	RDLabel_DBv3_Eng.std	Browse
I✓ Use dynamic fi Field File Name:	elds on I bels	the label \Backup\Primera\B	KPLabel_DBv3_Eng.tx(Browse
Dynamic Field: Backup Date	-	Associations:	Dynamic field	
Associa	ate >	MediumID BackupDate	Medium ID Backup Date	
< Cle	ear			

By clicking "Finish" button you save the configuration.

12.9MFDigital Unit Configuration

If you have a MFDigital CD/DVD Production Unit and a DICOMBurner license including the MFDigital option then you can configure it for production or backup purposes.

At the first step of the GUI wizard you have to select "MFDigital". Then you can specify the following options:

- Unit Type:
 - **MFDigital:** specifies a MFDigital robot
- Unit Identification:
 - o Name: a not-null and unique name that identifies the unit
 - o Description: an optional description of the unit
 - Usage: the destination use (Production or Backup) assigned to the unit



C Local CD/D	VD Writer Drive letter:
🔿 Primera	
MFDigital	
Unit Identification	MFD_CD_PRD
Description:	An MFDigital Unit to produce CD
Usage:	Production

By clicking "**Next>**" button you reach the second step of the GUI wizard where you can specify the following options:

- **Networking:** specifies the networking parameters used to connect DICOMBurner to the MFDigital Unit.
 - Server User Name: specifies the name of the user configured on the MFDigital Unit (the default is mfdigital).

CD/DVD Burner Configuration	x
- Networking	_
Server User Name: mfdigital	
Server Host Name:	
Server Host Port:	
Server Password:	
An email will be sent on completion or cancellation of the order	
Email address:	
< Indietro Avanti > Annulla	


By clicking "**Next>**" button you reach the third step of the GUI wizard where you can specify the following options:

- Default CD/DVD Options:
 - **Number of copies**: specifies the number of CD/DVD copies for any burn process.
 - Interchange Profile: specifies a Media Storage Application Profile as defined by DICOM PS 3.11.
 - Close CD/DVD at the end of the process: a flag specifying if the media has to be closed (no more burnable) at the end of the burning process.
 - Delete burnt/backed-up files from database at the end of the process: a flag specifying if the files copied to CD or DVD have to be deleted from the local database at the end of the burning process.
- Burning Parameters:
 - **Working directory**: specifies a temporary folder where DICOMBurner will copy all the files to be burnt. At the end of the burning process DICOMBurner removes these files.
 - **Jobs directory**: specifies the folder where DICOMBurner will copy the job file describing the order to be processed by the *"Director"* software managing the MFDigital unit.
 - Media Type: specifies if the burner has to produce CDs or DVDs.

CD/	D¥D Burner Configu	ration	×
	-Default CD/DVD Opti	ons	1
	Number of copies:	0	
	Interchange Profile	: No Profile (Unmodified Transfer Syntax)	
	Delete burnt/ba	icked-up files from database at the end of the process	
	- Burning Parameters -]
	Working directory:	C:\WD Browse	
	Jobs directory	Civilaba Province	
	Jobs directory:	C:Dops	
	Media Type:		
]
_			_
		< <u>I</u> ndietro <u>A</u> vanti > Annulla	

By clicking "**Next>**" button you reach the fourth step of the GUI wizard where you can specify the following options:

neologica

- **CD/DVD Image Viewer**: DICOMBurner allows putting a DICOM image viewer on every burnt CD/DVD, so you can specify the location of the executable application file:
 - Add an autorunning DICOM viewer on the CD/DVD: a flag specifying if a DICOM Viewer has to be included into CD/DVD during the burning process.
 - LocalEye DICOM Viewer: is a DICOM Viewer developed by NeoLogica and provided with the DICOMBurner application package. For LocalEye Viewer you can select the interface language and the target operating system(s) to run the disk on.
 - Other DICOM Viewer: this option allows you to select any other viewer you like. The "Browse..." button allows an easy selection of the pathname. If the viewer is made of a set of files, you have to check "Include all files contained into the application folder".

CD/D¥D Burner Configuration	×
CD/DVD Image Viewer Add an autorunning DICOM viewer on the CD/DVD C LocalEye DICOM Viewer Language: Italian Target Operating System(s) Windows	
C Other DICOM Viewer Application File Path:	
C:\Programmi\NeoLogica\DICOMBurner v3.1.0\Viewer\Local Browse	
< <u>I</u> ndietro Fine Annulla	

Note: if at the first step of the wizard you set MFDigital for *Backup* usage then this step isn't shown because the image viewer is useless on a backup CD/DVD.

By clicking "Next>" button you reach the fifth step of the GUI wizard where you can specify the following options:

- **Label Selection**: the MFDigital Unit allows you to print the CD/DVD surface, so you have to specify the file pathnames containing the label project.
 - Label File Name: specifies the pathname of the label project (a LBL file describing the object location of every label component including the placeholders, preceded by an underscore, of every text field to be dynamically replaced by DICOMBurner at running time before printing of the media surface).



Note: if the label project contains images, they have to be put in the same folder of the LBL file.

 Dynamic Field Associations: allows setting the associations between a label field and a dynamic field. The "Associate>" and "<Clear" buttons respectively create or delete an association between a listed and selected "CD Label Field" and a "Dynamic Field" of the dropdown containing basic DICOM fields and Custom ones. To set a "Custom DICOM Field" you have to select the "Custom..." item into the dropdown and then the dialog below appears. It allows you to input the exadecimal "Group Number" and the "Element Number" of the DICOM element you desire.

Se	earch for custom I	DICOM field	×
	DICOM Fields		
	Group Number:	0008	
	Element Number:	0005	
	Field Name:	Specific Character Set	1
		ОК	

The Custom DICOM Field Search dialog

CD/DVD Burner Configuration		x
Label Selection Print the label on the pr Label File Name: PRDL	roduced CD or DVD abel_DBv3_Eng\PRDLabel_DBv3_Eng.lblBrowse	
Dynamic Field: Patient ID - (0010, 0 Associate > < Clear	Associations: CD Label field DICOM field PatientID Patient ID - (0010, 0020) PatientName Patient Name - (0010, 0010) StudyDate Study Date - (0008, 0020) StudyDescript Study Description - (0008, 1030) InstitutionName Institution Name - (0008, 0080)	
	< Indietro Fine Annulla	_

Note: if at the first step of the wizard you set MFDigital for *Backup* usage then the label selection step allows you to select a backup label instead of a production one and the dynamic fields aren't of DICOM type:

CD/DVD Burner Configuration				×	
Label Selection					
Dynamic Field: Backup Date Associate >	Associations: CD Label field MediumID BackupDate	Dynamic field Medium ID Backup Date			
< Clear					
		< <u>I</u> ndietro Fine	Annulla	_	

By clicking "Finish" button you save the configuration.

12.10 Automatic CD/DVD Production Configuration

The "Automatic CD/DVD Production Configuration" tab allows setting up the parameters to manage the automatic burning processes. A description of each configuration parameter available in this dialog box is now provided:

- Automatic CD/DVD Production Options: to enable this functionality you have to check the "Enable Automatic CD/DVD Production".
- **Production unit**: specifies the unit to be used as default for automatic production.
 - CD/DVD default unit name: the name of the default unit for automatic production
- Unit selection rules: this section allows setting up some unit selection rules to forward a production job through a production unit based on the Calling AE Title, Modality and Referring Physician of the current store request. In order to add a new unit selection rule, the "Add" button must be pressed: the "Add Unit Selection Rule" dialog appears, which allows specifying the values of the parameters composing the new unit selection rule:



Add Unit Selection Ru	e		×
Unit Selection Rule			
If the DICOM store	request has the following attributes:		
Calling AE Title:	*	🛛 🔽 Any	
Modality:	त 🔹	🗌 Any	
Referring Physician:	Anon*	🗌 🗖 Any	
then forward the pr	oduction job to the following unit:		
Output Unit:	RMG_CD_PRD1	j	
	OK Cancel		

Each Unit Selection Rule is composed of the following parameters:

- Calling AE Title: the Calling AE Title of the association. The user may either specify a specific Calling AE Title, a Calling AE Title present in the DICOMBurner database or select the "Any" option if this rule should match any Calling AE Title.
- **Modality**: the Modality performing the store request. Even in this case, the "**Any**" option and a list of known modalities are provided.
- Referring Physician: the Referring Physician for the present exam. Even in this case, the "Any" option and a list of known Referring Physicians are provided.
- **Output Unit**: the output unit for the current rule. It can be chosen among the available units.

To modify or remove a selected rule the buttons **Modify** and **Remove** are provided. Since the rules are applied following a top-down order the buttons **Move Up** and **Move Down** enable you to move the rules up and down in the list.

- When/What to burn: specifies when the automatic burn process has to start and what it has to burn.
 - Inactivity Timeout: this timeout is expressed in seconds and it is reset every time new data is received from the SCUs. When it expires the burning process starts.
 - Burn ...: specifies the type of burning process to start after inactivity timeout expiration.
 - How to split files: specifies how the DICOM files has to be divided into the produced CD/DVD:
 - one CD/DVD per patient
 - o one CD/DVD per study
 - no splitting (a CD/DVD can contains DICOM files belonging to more than one patient or study)

The following picture shows a snapshot of the "Automatic CD/DVD Production Configuration" tab:



急 DICOM Confi	guration		DICOM Device	es Configuration
🗐 Log Configuration 📄	🗌 📄 File Stor	age Configuratio	n 🔰 📳 CD/D'	/D Burner Configurati
Automatic CD/DVI) Production	Configuration	🛛 🔝 Automa	tic Backup Configurati
comatic CD/DVD Product Enable Automatic CD/ Production unit CD/DVD default unit na	ion Options DVD Production ame:	n PRM_CD_PRD_DE	F	
Jnit selection rules				
🔗 Calling AE Title	Modality	Ref Physician	Ouput Unit	Add
JDICOM1	CR	*	PRM_CD_P	Modify
				Remove
				Move Lip
•				Move Down
When / What to burn? -				
Inactivity Timeout:	5	seconds		
Burn:	Per Callin	a AF		
	C Global	ig ne		
How to split files:	• One CD/	DVD per patient		
	O One CD/	DVD per study		
	💛 No splitti	ng		

The Automatic CD/DVD Production Configuration tab

12.11 Automatic Backup Configuration

The "Automatic Backup Configuration" tab allows setting up the parameters to manage the automatic backup processes (for DICOM files storage and database content). A description of each configuration parameter available in this dialog box is now provided:

- Automatic Backup Options: allows to enable/disable and set parameter related to the automatic backup of DICOM files storage and database.
 - DICOM files backup:
 - **Backup unit**: specifies the unit to be used as default for automatic backup of DICOM files.
 - CD/DVD unit name: the name of the default unit for automatic backup
 - When/What to backup: specifies when the automatic backup process has to start and what it has to backup.



- **Frequency**: specifies the frequency of the backup operation selected between "Week by week" or "Day by day".
- Day: specifies the day of the week in which the backup is launched (available only for "Week by week" backup)
- **Time**: specifies the time of the day in which the backup is launched
- Backup ...: specifies which DICOM files has to be backed-up
 - All files
 - Non backed-up
- Database backup:
- Where/When to backup: specifies where the database backup file has to be stored and when the process will start.
 - Destination folder: by pressing the "Browse..." button, a folder dialog appears allowing the user to specify the folder where the database backup file has to be stored (we recommend to backup the database on a removable media).
 - **Frequency**: specifies the frequency of the backup operation selected between "Week by week" or "Day by day".
 - Day: specifies the day of the week in which the backup is launched (available only for "Week by week" backup)
 - Time: specifies the time of the day in which the backup is launched

The following picture shows a snapshot of the "Automatic Backup Configuration" tab:



DICOM CON	ifiguration DICOM Devices Configuration
Configuration	🛛 📑 File Storage Configuration 🔹 🔚 CD/DVD Burner Configuration
🚰 Automatic CD/DVD	Production Configuration 🔗 Automatic Backup Configuratio
tomatic Backup Option:	s
Enable Automatic Ba	ckup (Images)
Backup unit	
CD/DVD unit name:	PRM_CD_BKP
When / What to backu	p?
Frequency:	Week by week
Day:	Monday
Time:	0.00.00
Backup:	C All files Non backed-up
	rkun (Database)
Enable Automatic Ba	
Enable Automatic Ba Where / When to back	up?
Enable Automatic Ba Where / When to back Destination folder:	C:\temp
 Enable Automatic Ba Where / When to back Destination folder: Frequency: 	C:\temp Browse
Enable Automatic Ba Where / When to back Destination folder: Frequency: Day:	C:\temp Browse
 Enable Automatic Ba Where / When to back Destination folder: Frequency: Day: Time: 	C:\temp Browse
 Enable Automatic Ba Where / When to back Destination folder: Frequency: Day: Time: 	C:\temp Browse

The Automatic Backup Configuration tab

13 Registration and Administration

13.1 Registration & Administration dialog box

The "**Registration & Administration**" dialog box appears when the DICOMBurner user selects the "**Registration & Administration**" menu item from the DICOMBurner tray pop-up menu. It shows the kind of license activated for the current copy of DICOMBurner.

The following picture shows a snapshot of the "Registration & Administration" dialog box:



legistration				
icense type:	Registered Full License			
Main MAC Address:	00-0F-B5-26-E0-46			
5w Serial Number:	00001			
Registration key:	EFBW-ZZOS-P3NY-IGS0_00000077			
Options:	Burn by local writer Rimage CD/DVD Production Unit MFDigital CD/DVD Production Unit Backup / Restore Query / Retrieve Send			
Enter / change registration keys				
Administration				
Request admin password for configuration				
Change admin password				

The Registration & Administration dialog box

Through the "Enter/change registration keys..." button, the user may enter new registration keys for the current copy of DICOMBurner, or change the current registration keys. This operation is protected by an *administration password*. The default administration password for DICOMBurner is "*db_2005*".

Er	Enter / change registration keys				
	Register				
	Enter or modify the registration keys:				
	Main MAC Address: \$				
	Software Serial Number:	00001			
	Registration key:	EFBW-ZZOS-P3NY-IGS0_000000			
	Register	Cancel			

The administration password may be changed by the user by pressing the "**Change admin password...**" button; the "**Change administration password**" dialog (shown in the following picture) will appear.

Change administration password 🛛 🛛 🗙				
Passwords Old admin password: New admin password: Confirm new password:				
ок	Cancel			

The DICOMBurner administrator (i.e., a person who knows the DICOMBurner administration password) may also choose to protect the DICOMBurner configuration section with the administration password: if the "**Request admin password for configuration**" option is enabled, then the user will be asked for the administration password when the "**Settings**" button of the main toolbar is pressed. This is a kind of protection against possible "misuses" of the DICOMBurner configuration interface.