

DBSWIN DICOM



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Manual

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 **DÜRR
DENTAL**

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Inhalt



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Important Information

1. Warnings and Symbols

The following designations or symbols are used for particularly important instructions in the Installation and Operating Instructions:



Information and/or mandatory regulations or prohibitions for the prevention of personal injury or substantial property damage



Special information regarding the economical use of the appliance and other information

2. Notes

The following information regarding the Dürr Dental DICOM software is a supplement to the DBSWIN manual 2100-725-91/. . The DBSWIN manual containing important information, such as e.g. general operation of the DBSWIN, influence on the computer systems, minimum computer system requirements etc., must always be observed.

The DBSWIN manual can be ordered under order no. 2100-725-91/. or on the Internet under www.duerr.de.

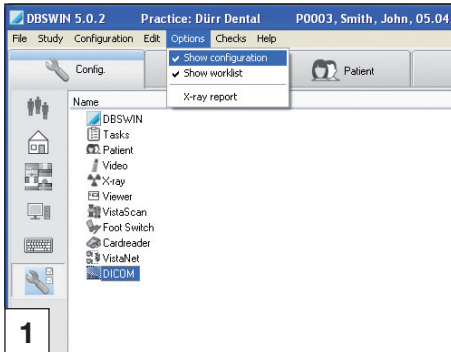


Installation

DICOM is installed with DBSWIN. The individual modules (DICOM Starter and Print) must be activated by our support. Additional costs will incur for this service.

3. Settings

- Open DBSWIN.
- Select "Options/Show Configuration".
- The "Config." tab is selected automatically.
- Select the "Modules" field.
- Double click on the "DICOM" entry.



3.1 "General" tab

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DICOM Configuration

General

DICOM Partners

DICOM Printers

DICOM Services

Station

AE Title

MODALITY1

Name

vmware-f715f568

Location

Anonymizing

Anonymous's name

Anonymous

☐ Send anonym only

Communication

Max. PDU Size

32768

Timeouts (Sec.)

Long

400

Normal

10

Quick

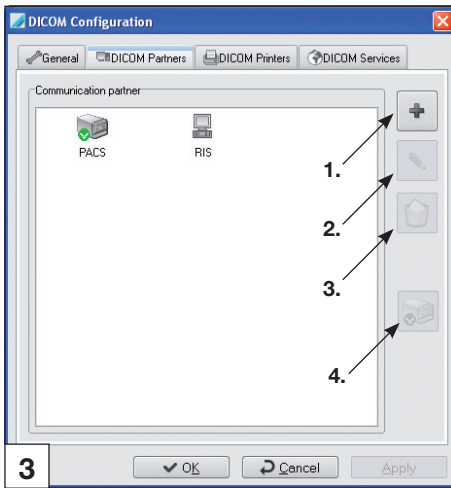
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OK

Cancel

Apply

"AE Title"	<p>DICOM Application Entity Title of DBSWIN.</p> <p>The DICOM Application Entity Title is a designation that identifies the local DBSWIN application on the network. It must be unique throughout the network.</p> <p>As default, the AE Title is set to "DBSWIN_<computer_name>", whereby <computer_name> corresponds with the computer name set under Windows. Application:</p> <ul style="list-style-type: none">•As search criteria for downloading the worklist from a DICOM Worklist Server. See chapter "5.6 Query tasks".•Must be set if Storage Commitment is activated for a DICOM storage partner. See chapter "3.5 "Storage" tab".
"Name"	<p>Name of the workstation.</p> <p>Is set to the computer name set for Windows as default.</p> <p>Application:</p> <ul style="list-style-type: none">•Is added as DICOM attribute "Station Name (0008,1010)" for all images taken on this station.
"City"	<p>Description of the location of the workstation.</p> <p>Application:</p> <ul style="list-style-type: none">•Is added as DICOM attribute "Performed Location (0040,0243)" for all MPPS objects created on this station.
"Name of the anonymous patient"	<p>String replacing the actual name of the patient in the anonymous export of DICOM images.</p>
"Max. PDU size"	<p>Maximum size of a data block when transmitting data via DICOM.</p>
"Timeout Long"	<p>Timeout for checking the network connection after a transmission error has occurred.</p>
"Timeout Normal"	<p>Timeout for establishing a new connection.</p>
"Timeout Short"	<p>Timeout for checking the network connection when sending data.</p>



3.2 "DICOM Partners" tab

The DICOM communication can only be performed between the known workstations (DICOM partner). All configured DICOM partners are listed in the "DICOM partners" tab.

1. Opens the dialog window "Communication partner" to set up a new DICOM partner.
2. Opens the dialog window "Communication partner" to edit the properties of the marked DICOM partner.
3. Deletes the marked DICOM partner.
4. Defines the marked DICOM partner as the DICOM archive partner. The icon for the archive partner is supplemented with a green checkmark. The button is only active if "Storage Commitment" has been activated on the "Storage" tab for the marked DICOM partner.

3.3 "Communication Partner" dialog window

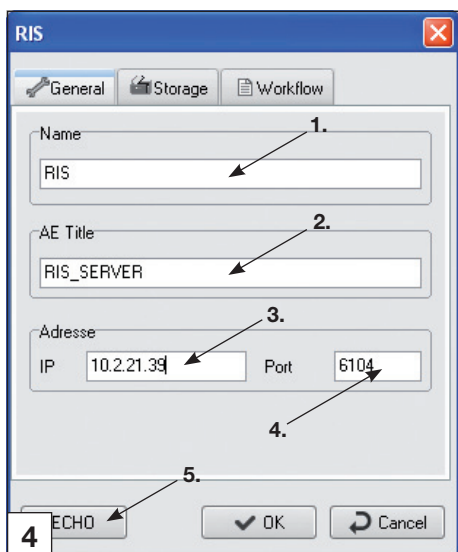
The "Communication Partner" dialog window consists of three sections:

- "General" Defines the network and authentication properties of the DICOM partner.
- "Storage" Defines whether the DICOM partner can be submitted images (DICOM Storage SCP).
- "Workflow" Defines whether the DICOM partner prepares the worklist (DICOM Worklist SCP).

The supported functions of the DICOM partner are set separately (SCP Store properties and SCP Worklist properties).

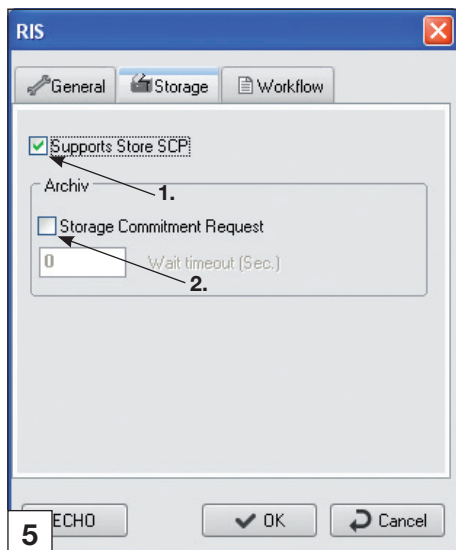
If a DICOM system supports both functionalities, the following cases exist:

- The functionalities are provided via the same IP address and the same port. In this case, it is sufficient to create a single DICOM partner and putting a checkmark under "Storage" as well as under "Workflow".
- The functionalities are provided by the same DICOM system, but under different IP addresses or Ports. In this case, two separate DICOM partners must be set up, one with activated Storage support and one with activated Worklist support.



3.4 "General" tab

1. The identifier for the DICOM partner that is used in DBSWIN.
2. DICOM Application Entity Title, which is set in the DICOM Partner software.
3. IP address of the DICOM partner.
4. IP port, which is set in the DICOM Partner software.
5. Checks whether a connection to the DICOM Partner software can be established with the defined settings. If successful, the background of the address fields turn green.

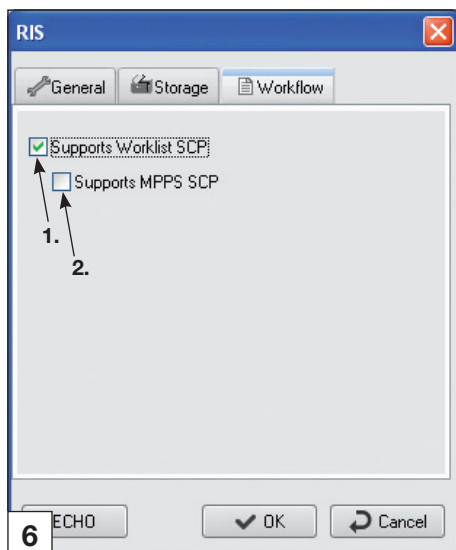


3.5 "Storage" tab

- 1.If images are to be sent to the DICOM Partner, this field must be activated.
- 2.This field must be activated if the DICOM Partner is to be used as an archive and successfully archiving images is to be confirmed explicitly.



The DICOM Partner must support the function "DICOM Storage Commitment SCP" for this.



3.6 "Workflow" tab

- 1.If the worklist is to be downloaded from this DICOM Partner, this field must be activated.

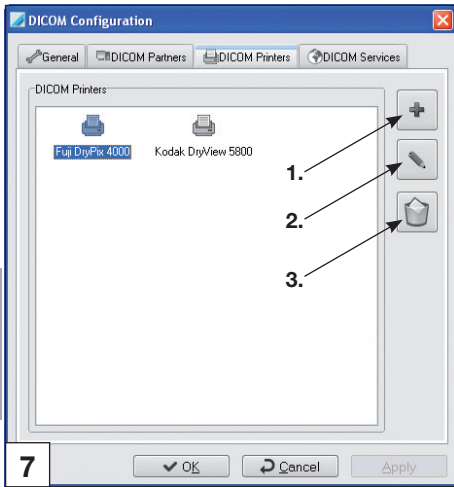


The DICOM Partner must support the function "DICOM Worklist SCP" for this.

- 2 . If the DICOM Partner should be informed of the task execution via DICOM MPPS, this field must be activated.



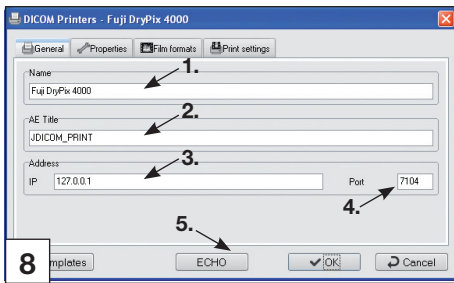
The DICOM Partner must support the function "DICOM MPPS SCP" for this. The MPPS function requires a permanent connection to the DICOM partner.



3.7 "DICOM Printer" tab

1. Opens the dialog window "DICOM Printer" to set up a new DICOM printer.
2. Opens the dialog window „DICOM Printer“ to edit the properties of the marked printer.
3. Deletes the marked DICOM printer.

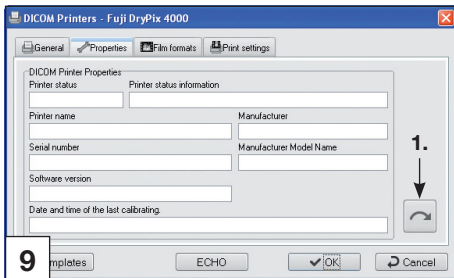
Double click on a printer to display or edit the properties of the printer.



3.8 Dialog window „DICOM Printer“ „General“ tab

The name, ID (application entity title) and network address of the DICOM printer can be specified on this page.

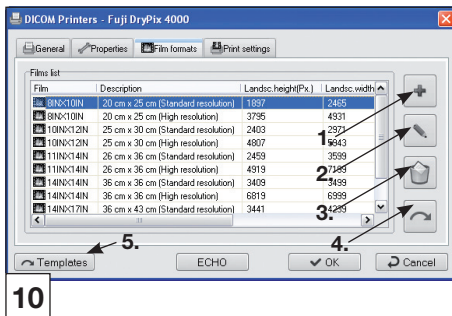
1. The identifier for the DICOM printer that is used in DBSWIN.
2. DICOM Application Entity Title that is set in the DICOM printer.
3. IP address of the DICOM printer.
4. IP port that is set in the DICOM printer.
5. Checks whether a connection to the DICOM printer can be established with the defined settings. If successful, the background of the address fields turn green.



„Properties“ tab

The properties of the DICOM printer can be specified either manually, or can be retrieved from the printer (only if the printer supports this function).

1. Retrieves the properties from the DICOM printer.
The DICOM printer must support the function "DICOM Printer Configuration Retrieval SCP" for this.



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„Film formats“ tab

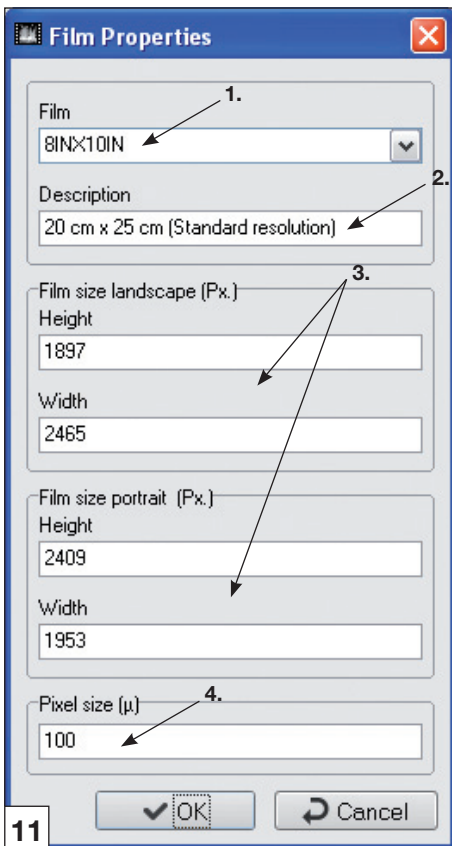
1. Opens the dialog window „Film Properties“ to set up a new film format.
2. Opens the dialog window „Film Properties“ to edit the properties of the marked film format.
3. Deletes the marked film format.
4. Retrieves the supported film formats from the DICOM printer.



The DICOM printer must support the function „DICOM Printer Configuration Retrieval SCP“ for this.

5. Opens a list of film format presets for various DICOM printer model types.

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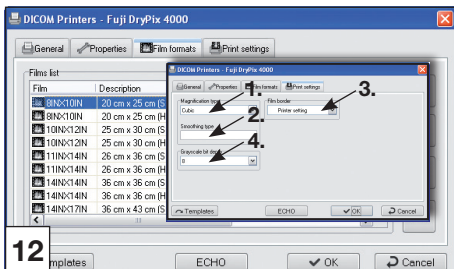
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Dialog window „Film Properties“

The properties of a film format can be specified in this dialog window.

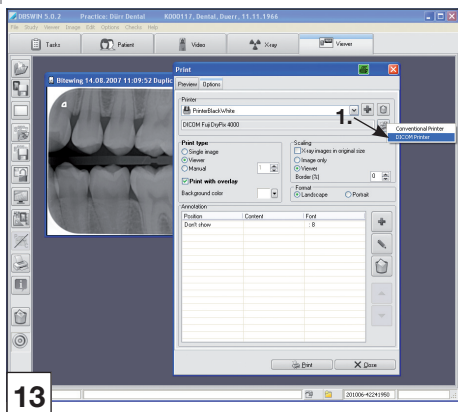
Important: The specified values must conform to the film formats that are supported by the DICOM printer. The supported film formats are specified in the DICOM Conformance Statement or in the manual of the DICOM printer. Wrong film format configurations may cause print operations to fail or produce undesired results.

1. Name of the film format.
The specified name must match the name of a film format supported by the DICOM printer. The list of supported film formats is described in the DICOM Conformance Statement of the printer.
2. Description of the film format (optional).
3. Film size in pixels.
The values must conform to the values that are specified the printer's DICOM Conformance Statement for the given format.
4. Pixel size of the DICOM printer in μm .
The value must match the pixel size specified in the printer's DICOM Conformance Statement for the given format.



„Print settings“ tab

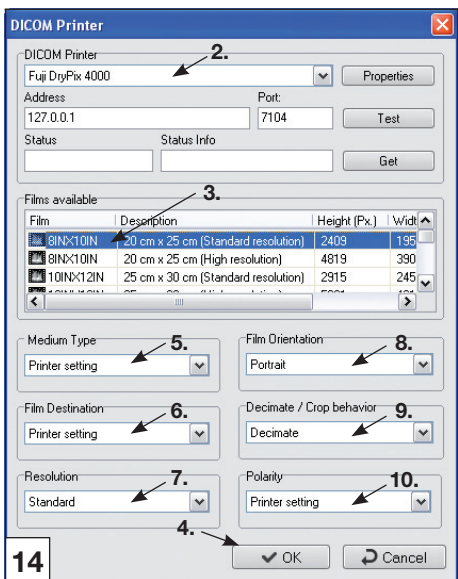
1. Magnification type.
2. Smoothing type for magnification type „Cubic“.
The printer's DICOM Conformance Statement contains a list and description of the supported smoothing types.
3. Color of the film border to be printed: „White“, „Black“ or „Printer setting“.
4. Color resolution: „8“ for 256, „12“ for 4096 or „16“ for 65536 grayscale values.



3.9 Printing on a DICOM Printer

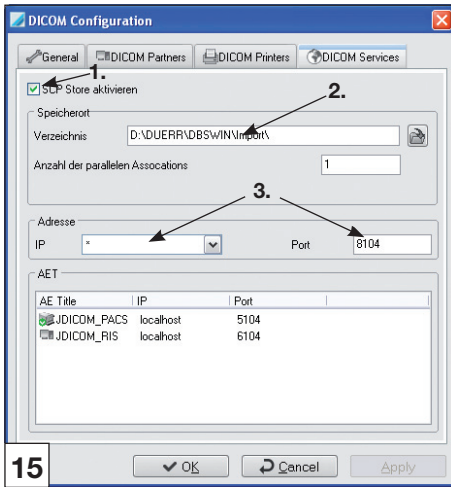
The printing of images and the creation of print profiles is described in the DBSWIN manual. To print images on a DICOM printer, the DICOM printer must first be selected in the „Print“ dialog of DBSWIN.

1. Select menu item „DICOM Printer“.
A dialog window appears where the DICOM printer can be selected and DICOM specific print settings can be changed.
2. Select the DICOM printer.
3. Select a film format.
4. Applies the settings.



Optionally:

5. Select a medium type, or use the printer's default type („Printer setting“).
6. Select a film destination, or use the printer's default destination („Printer setting“).
7. Select resolution „Standard“, „High“ or „Printer setting“ for the printer's default resolution.
8. Select film orientation „Landscape“ or „Portrait“.
9. Specify what to do if an image is larger than the printable area on the film:
„Decimate“: scale down images to make them fit.
„Crop“: keep size but crop images.
„1:1“: Abort printing and show an error message.
„Printer setting“: Use the printer's default.
10. Select „Negative“ to invert the grayscale values, „Positive“ to leave them unchanged, or „Printer setting“ to use the printer's default for the polarity.



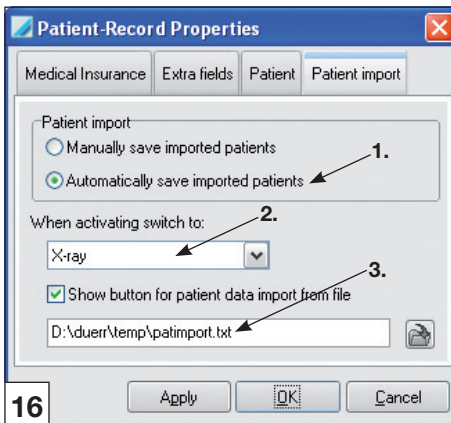
3.11 "DICOM Services" tab

The SCP Store service must be activated in order to allow DBSWIN to read back self-created DICOM images from the DICOM archive. The images transmitted back are buffered temporarily in the storage location directory. The number of connections should be set to 1.

1. This field must be activated if DICOM archiving is to be used with Storage Commitment.
2. Folder or directory, in which the received images should be stored temporarily.
3. IP address and port, at which DBSWIN can be reached. These settings must be configured with the DICOM archive partner (together with the AE title of the "General" tab) so that DBSWIN can read back images from the archive.



"*" means that DBSWIN can be reached under all IP addresses of the local computer.



3.12 Configuring the patient interface

The task management of DBSWIN requires that the patient import interface of DBSWIN is activated. This can be set under "Config/Modules/Patient/Patient import".

1. This field must be activated if use the task management of DBSWIN.
2. Select the tab to which DBSWIN should switch automatically when a task is activated.
3. Path to the file that is used for the patient import.



4. Sending and archiving images

Images can be sent to another DICOM system or archived on a DICOM image archiving system (PACS) using the export function of DBSWIN.

4.1 Sending images via the viewer

To send an image to another DICOM system, it must be configured under "Config./Modules/DICOM/DICOM Partner" and a checkmark must be set under "Supports Store SCP". Setting up a DICOM communication partner is explained in detail in chapter 3.2.



Drag & Drop or via menu function

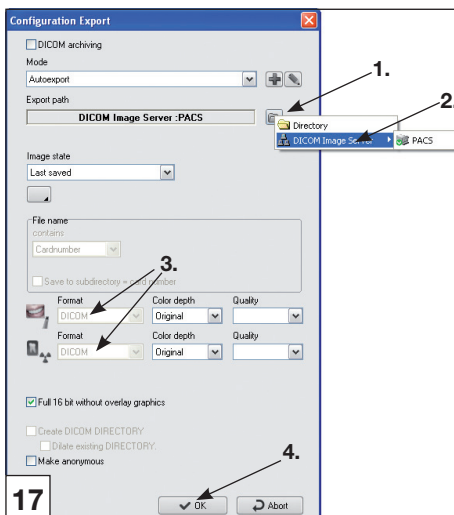
To send an image, hold the left mouse button down and drag the image from the viewer or from the image selection box onto the drop area of the toolbar. A window in which a predefined export mode can be selected is opened or the export settings can be made manually.

As an alternative, multiple images can be exported simultaneously by first marking the images on the viewer or in the image selection box and then selecting menu item "File/Export (Save as ...)" or dragging the images onto the drop area of the tool bar with the Ctrl-button pressed.



Under "Config/Modules/Viewer/Export/Email/Export options", a suitable export mode can be created, which is available to all users.

Image export and the management of export modes is described in detail in the DBSWIN manual (Order No.: 2100-725-91/30).



4.2 Export settings

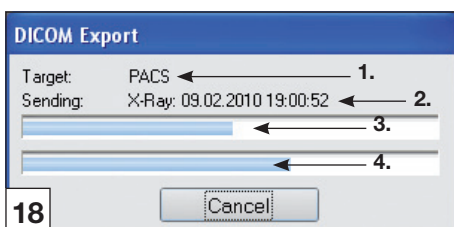
1. Click on the button next to the "Export path".
2. Select the DICOM partner that is to receive the images under menu item "DICOM Image Server".



Only those DICOM partners that have "Storage" functionalities activated in the configuration are listed in the sub-menu.

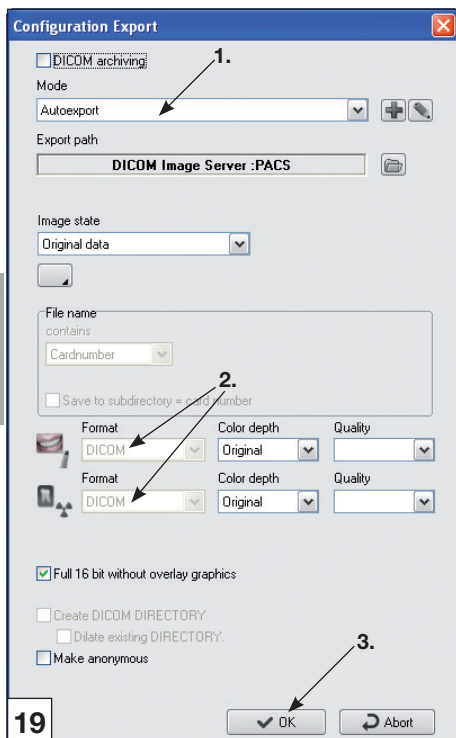
3. Select "DICOM" as the "Format" for video and X-ray images.
4. Start the export process with "OK".

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A dialog window appears showing the progress of the export procedure.

1. Name of the DICOM partner receiving the images.
2. Type, creation date and time of the currently exported image.
3. Progress display for the entire export procedure.
4. Progress display for exporting the current image.



4.3 Automatic transmission of new images taken

If new images are to be sent to a DICOM partner (e.g. to the image archiving system) immediately after saving in the X-ray- or video module, the autoexport functionality of DBSWIN has to be set up.

Configuration of the Autoexport Mode

Configuring "Autoexport" mode is done under "Config/Modules/Viewer/Export/Export options".

1. Select the "Autoexport" mode.
2. Make the desired export settings. "DICOM" must be selected for "Format".
3. Save the configuration with "OK".

Configuration of the X-ray Module

In order to activate the automatic transmission of images in the X-ray module, a checkmark must be made under "Config/Modules/X-ray" on the "Settings" tab for "Auto-export images".

Configuration of the Video Module

To activate automatic sending of images in the video module, a checkmark must be set under "Config/Modules/Video" on the "Settings" tab for "Auto-export images".

4.4 Display of archived images

A list of all images which have been sent to the DICOM archive partner and have been reported as being archived successfully (Storage Commitment) can be loaded via menu item "Viewer/DICOM Archiving/Show all images that are archived and committed in PACS".

4.5 Freeing Storage Space for Archived Images

Storage space for images that have been exported successfully to a DICOM image archiving system (Storage partner with activated Storage Commitment) can be freed on the local machine with menu item "Viewer/DICOM Archiving/Local-ly delete all images archived in PACS".

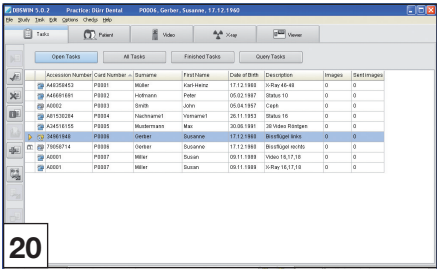


Only the pixel data is deleted. The images and the related image information can still be seen in the image selection box of the viewer.

If such an image is opened on the viewer, DBSWIN then transfers the pixel data automatically from the image archive system back to the local system.



The storage space can only be freed for images that have been exported with image state "Original".



5. Worklist

If the DICOM Starter License is enabled, the DICOM Worklist functionality is available in DBSWIN. Local tasks and tasks from a DICOM Worklist Server can be managed under the "Tasks" tab.

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5.1 Task status

The task symbol shows the status of the task:

RIS task	Local task	Status	Description
		Planned	The task has not been started.
		Active	The current task. Newly created images are assigned to this task.
		In Process	The task has been started but is not active.
		Completed	The task was marked as successfully completed.
		Cancelled	The task was marked as not successfully completed.

An arrow in the symbol means that the task is managed centrally on the DICOM Worklist Server (RIS). There is no arrow for tasks that have been created locally in DBSWIN.

The symbols in the left-hand column have the following meanings:

	The task is currently active.
	The task belongs to the currently registered patient.

5.2 Task Actions

The following actions can be performed using the buttons in the toolbar:



Begins/activates the marked task.

DBSWIN registers the respective patient and changes automatically to the tab that was defined in the configuration of the patient interface. See chapter "3.12 Configuring the patient interface".

As of this point in time, all newly taken images are assigned to this task. A task can also be activated directly by double clicking on the list entry.



Sets the status of the marked task to "Completed".

Note: How tasks can be completed automatically by DBSWIN is described in chapter "5.9 Configuring the task management".



Sets the status of the marked task to "Cancelled".



Deletes the marked task.

Only tasks with the status "Planned", "Completed" or "Cancelled" can be deleted.



Shows the properties of the marked task in a separate dialog window. See chapter "5.7 Task properties".



Shows the images of the marked task on the viewer.

If the patient belonging to the task is not the registered patient, DBSWIN automatically logs the current patient out and logs in the patient that belong to the task.



Creates a new task. See chapter "5.8 Create new task".



Receives new tasks from the DICOM Worklist Server (RIS).

The update of the worklist occurs in the background. The status bar shows that an update is occurring and the amount of tasks that have been received.



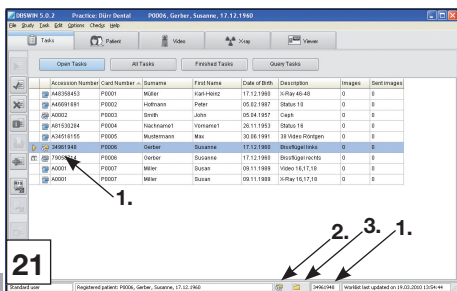
Deletes all finished tasks, i.e. all tasks with the status "Completed" or "Cancelled".

DBSWIN deletes finished tasks automatically after a certain number of days. See chapter "5.9 Configuring task management".



Takes the marked task in the list of open tasks and sets the status to "Planned".

The task actions can also be called up via the context menu or via the main menu "Task".



5.3 Current Task

As soon as a task has been activated, the status bar of DBSWIN shows the symbol for the active task as well as the symbol and the accession number of the respective study.

1. Accession number
2. Symbol for the current task. A click on the symbol shows the properties of the current task. See chapter „5.7 Task properties“.



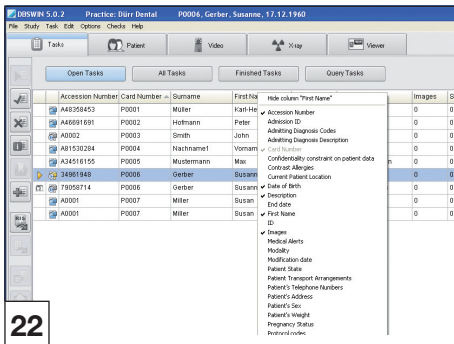
A grey symbol indicates that no task is active.

3. Symbol for the current study. Clicking on the symbol opens the dialog window for switching the current study or the current task. See chapter "6.2 Switching the Study" and "6.5 Switching Tasks“.

5.4 Filters for the workload

Tasks can be shown or hidden based on the task status using the button above the list.

"Open tasks"	Tasks with the status "Completed" or "Cancelled" are hidden.
"All tasks"	All tasks are shown.
"Finished tasks"	Only tasks with the status "Completed" or "Cancelled" are shown.
"Query tasks"	The user can search on any DICOM Worklist Server (RIS) for tasks concerning a certain patient or a certain workstation. The task search is described in chapter "5.6 Searching for tasks".



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5.5 Adapting the list view

Column selection

Clicking with the right mouse key on a column title opens a menu, via which the available columns can be displayed or hidden.

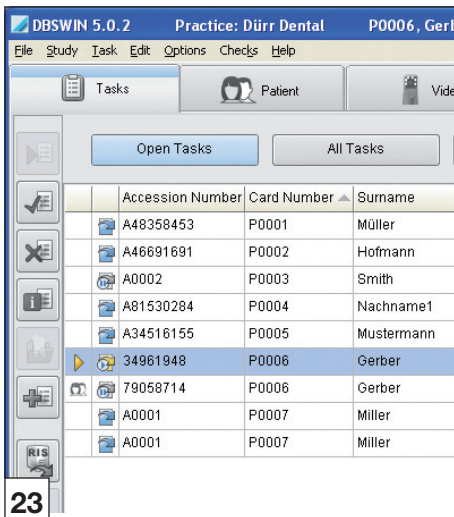
Sorting

Clicking on a column title sorts the list according to this column. A second click on the column reverses the sorting direction.

Column arrangement

In order to change the position, click on the column title and drag it with the left mouse key held down, to the new position and then release the mouse key.

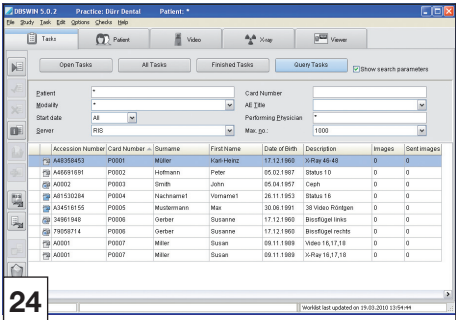
The width of the column can be changed by dragging the separating line between the titles. A double click on a separating line makes the column to the left exactly wide enough so that the title and all values in the column can be seen.



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5.6 Searching for tasks



Search criteria	DBSWIN tag	Description
"Patient"	(0010,0010)	Name of the patient The entry must be made in format "Family name^First name, whereby the ^ can be left out if the search is performed for a family name only. Upper and lower case are differentiated between. * stands for an arbitrary character combination. Examples: * searches for all patients. A* finds all patients with the family name starting with A.
"Card Number"	(0010,0020)	ID or card number of the patient. * is interpreted as a single character and not as a placeholder.
"Modality"	(0008,0060)	Modality/type of recording device. * means: All modalities.
"AE Title"	(0040,0001)	Application Entity Title of the station for which the task is planned. An empty field means: All AE titles. * is interpreted as a single character and not as a placeholder.
"Start date"	(0040,0002)	Limits the search to tasks that are planned for a certain date or date interval.
"Performing Physician"	(0040,0006)	Name of the person that is planned to perform the task. The entry must be made in format "Family name^First name, whereby the ^ can be left out if the search is performed for a family name only. * stands for an arbitrary character combination.
"Server"		The Worklist Server (RIS), on which the search for tasks is to be performed.
"Max. no."		Maximum number of tasks to be displayed.



Starts the search.

Use the "Show search parameters" button to show or hide the search criteria.

5.7 Task properties


The properties of the marked task can be displayed by opening a dialog window via the respective button in the toolbar or via menu item "Task/Show task properties"



The properties of locally created tasks (i.e. tasks that have been created with DBSWIN) can also be changed in this dialog window, as long as the task has status "Planned".

5.8 Creating a new task

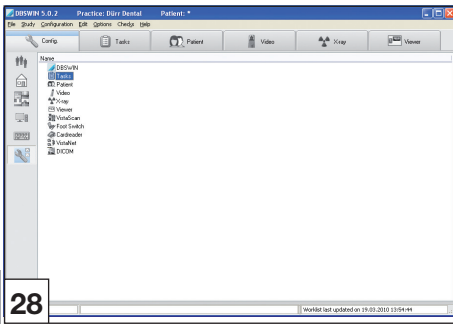


A new task can be created with button  or menu items "Task/New task..." or "Study/New task for current study..."

Entry fields have a light background. Fields that cannot be edited have a dark background. The task is saved with "OK".

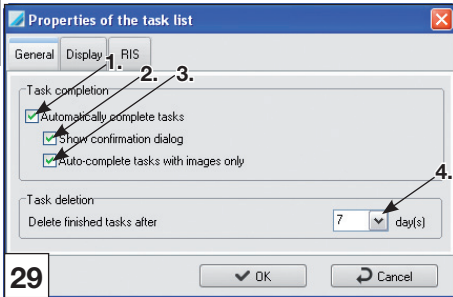


If no entries have been made for mandatory fields, these fields have a red background. See screenshot to the left.



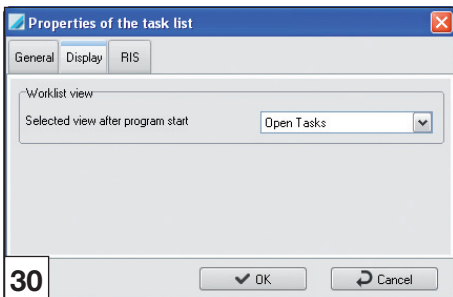
5.9 Configuring the task management

The configuration for task management is done under "Config/Modules/Tasks".



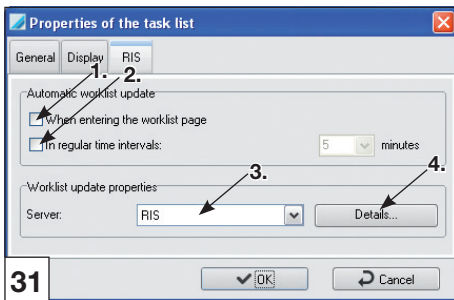
"General" tab

1. If "Automatically complete tasks" is active and all images that have been sent to a DICOM image server (PACS), DBSWIN automatically marks the current task as completed when switching the patient or task. Otherwise, the task takes on a status of "In Process".
2. If "Show confirmation dialog" is active, DBSWIN then closes the current task only after confirmation by the user.
3. If "Auto-complete tasks with images only", then automatic completion only happens for tasks that have at least one image. Otherwise, tasks without images are automatically marked as completed, too.
4. Defines the maximum duration, for which the tasks with status "Completed" or "Cancelled" remain visible in the workload.



"Display" tab

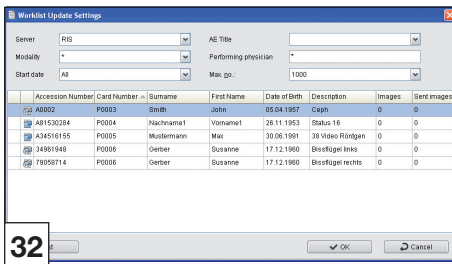
The view that is selected after starting the DBS-WIN program can be defined in the "Display" tab: "Open tasks", "All tasks", "Finished tasks" or "Query tasks".



"RIS" tab

1. If "When entering the worklist page" is active, the worklist is automatically updated as soon as the "Tasks" tab is selected in the main window of DBSWIN.
2. If "In regular intervals" is active, the worklist is updated in regular time intervals.
3. Defines the DICOM Worklist Server (RIS), from which the worklist is downloaded. This server is also used with manual updating by the user.
4. With "Details...", you can define the search criteria for the update.

The individual search criteria is described in detail in the chapter "5.6 Searching for tasks". With the "Test" button, the tasks can be submitted as a test to find out whether the search criteria supplies the desired results.

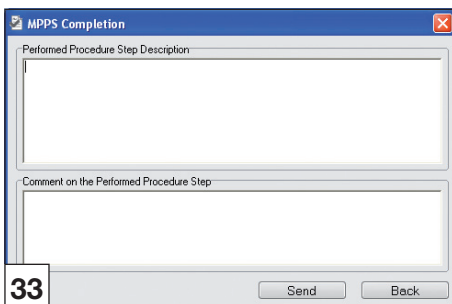


5.10 MPPS


If the worklist has been downloaded from a DICOM partner with activated MPPS support, changes to the task status are reported to the Worklist Server via MPPS.

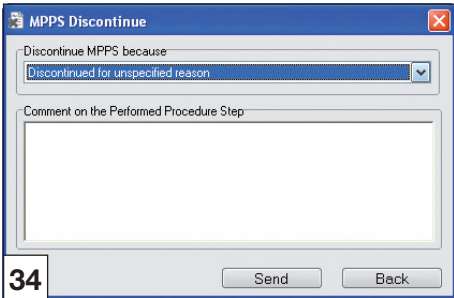
Completing a task

This opens a dialog window, in which a description and comments can be entered for the MPPS.



Important: With MPPS activated, a task can only be completed if all images have previously been sent to a DICOM image server. The columns "Images" and "Sent images" show the same value in this case. If this is not the case, the images can be opened on the viewer

at a later point in time via button  and then exported to the DICOM image server.

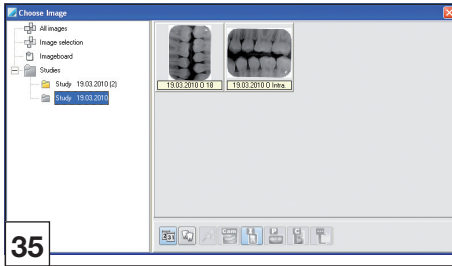


Cancelling a task

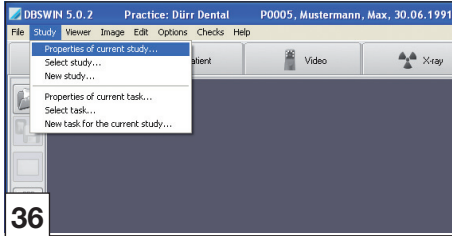
This opens a dialog window, in which reason and comments can be entered for the MPPS.

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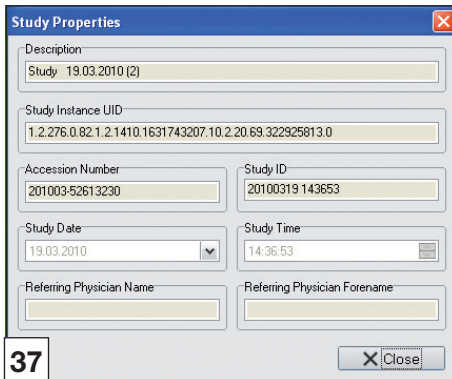
EN
US



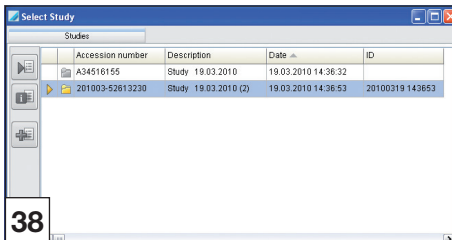
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6. Studies

In DBSWIN, newly taken images are assigned to the current study. The studies for the registered patients are listed in the image selection box of the viewer.

The current study has a yellow symbol.

A double click on the respective study in the tree view opens all images of this study on the viewer. As an alternative, you can drag the study onto a free area of the viewer with the left mouse key held down.

The study can be changed, a new study can be created or a dialog window can be opened for displaying the study properties via the main menu "Study".

6.1 Properties of the current Study




A dialog window in which the study properties are displayed opens via menu item "Study/Properties of the current study...".



The properties of the study can be modified as long as no image has been taken for this study

6.2 Switching the Study

Another study for the registered patient can be selected via menu item "Study/Select Study...".

	Activates the marked study. As of this point in time, all newly taken images are assigned to this study. A study can also be selected directly by double clicking on the list entry.
	Shows the properties of the marked study in a separate dialog window. See chapter "6.1 Properties of the current study".
	Creates a new study. See chapter "6.3 Creating a new study".

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Study Properties

Description

Study 19.03.2010 (3)

Study Instance UID

1.2.276.0.82.1.2.1410.1631743207.10.2.20.69.322926870.0

Accession Number

201003-53670890

Study ID

20100319 145430

Study Date

19.03.2010

Study Time

14:54:30

Referring Physician Name

Referring Physician Forename

OK

Cancel

6.3 Creating a new study

A new study for the registered patient can be created via menu item "Study/New study...".



6.4 Properties of the current task

A dialog window showing the properties of the current task opens via menu item "Study/Properties of current task...".

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Select Task

Tasks

	Accession Number	Description	Start date	Images	Sent images
	A34516155	38 Video Röntgen	04.02.2010 13:03:15	3	3
	201003-52613230	Study 19.03.2010 (2)	19.03.2010 14:19:37	2	2

6.5 Switching Tasks

Another task for the registered patient can be activated via menu item "Study/Select task...".

	Begins/activates the marked task. As of this point in time, all newly taken images are assigned to this task. A task can also be started or activated directly by double clicking on the list entry.
	Sets the status of the marked task to "Completed".
	Sets the status of the marked task to "Cancelled".
	Shows the properties of the marked task in a separate dialog window.
	Shows the images of the marked task on the viewer.
	Creates a new task for the registered patient.

7. Abbreviations used

AE	Application Entity
DICOM	Digital information and communication in medicine
IP	Internet Protocol
MPPS	Modality Performed Procedure Step
PACS	Picture Archiving and Communication System
PDU	Protocol Data Unit
RIS	Radiology Information System
SCP	Service Class Provider
SCU	Service Class User

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