



DR Image Viewer System

DR Image Server

Operation Manual

Before using the instrument, be sure to read this manual thoroughly.
Keep the manual where it is easily accessible.

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Before Operation

To ensure correct operation of the DR Image Viewer System, be sure that you fully understand the following points.

Database Size

The size of the database is limited to 4 GB due to the usage of the Microsoft SQL Server 2005 Express Edition.

NOTATION

Notation 1

Button names are indicated by [].

Notation example: Click [OK].

Notation 2

Available options in the taskbar or menu bar are indicated by [], and when options are selected in submenus, the order of selection is indicated by >.

Notation example: Click the commands from the taskbar in the following order.
[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [System Administrator]

Notation 3

For check boxes, indicates a checked option, and indicates an unchecked option.

Notation example: To give DR Image Viewer usage privilege to the computer, check Viewer Operation Privilege.

Notation 4

For radio buttons, indicates a selected option, and indicates an unselected option.

Notation example: When On is selected, the read images are also stored in the backup folder.

Notation 5

If an operating procedure or description continues from an odd-numbered page to an even-numbered page, "Continued on the following page>>" is written at the bottom right of the odd-numbered page.

Notation 6

If a detailed explanation for the operation or setting is available on another page, the notation (→ page number) is used to refer to this page.

However, if the information is provided in the DR Image Viewer Operation Manual, please refer to the separate DR Image Viewer Operation Manual.

Notation example: The current group ID setting can also be checked at the Group tab of the DR Image Viewer (→ DR Image Viewer Operation Manual).

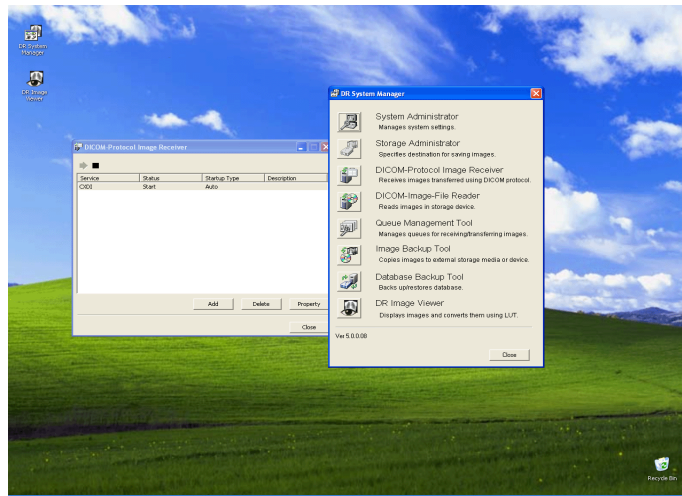
1. Introduction

1.1 What is the DR Image Viewer System?

The DR Image Viewer System is a software package for storing and displaying images captured using a Canon CXDI digital radiography system (simply called “CXDI” below).

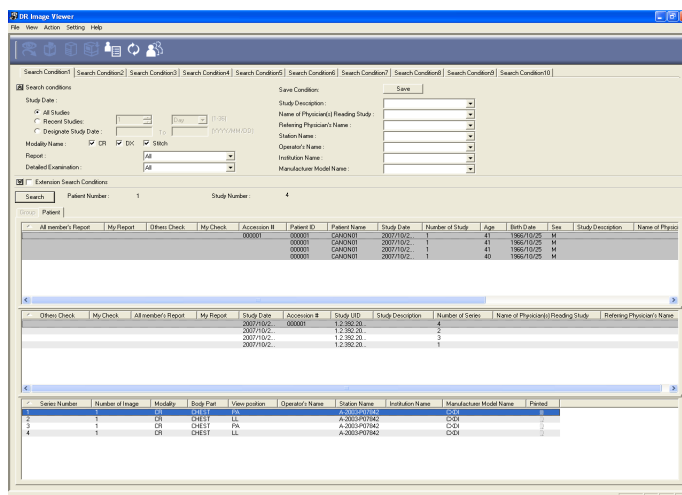
The software package comprises image server and image viewer components. The image server is called the DR Image Server, and the image viewer is called the DR Image Viewer.

The DR Image Server is used for user management and to store images captured with the CXDI.



DR Image Server (DICOM-Protocol Image Receiver)

The DR Image Viewer is used to search for and display images stored on the DR Image Server.



DR Image Viewer (Patient tab)

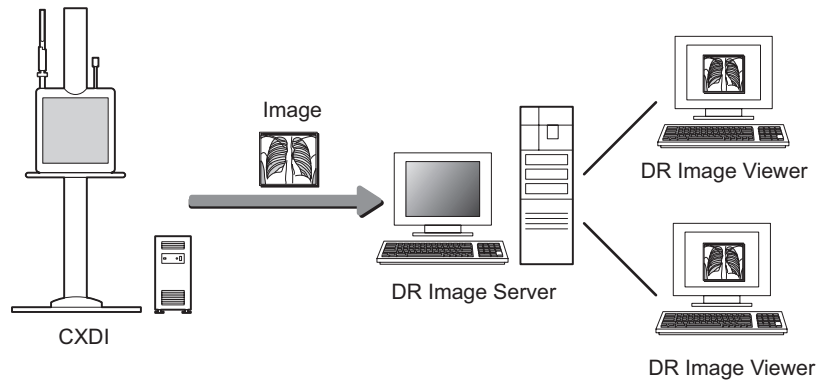
1.2 Using the DR Image Viewer System

This section describes how to store and display captured images.

1.2.1 Receiving images

The DICOM-Protocol Image Receiver (→ 81P.) has a server function and is used to receive and store captured images transferred from the CXDI using the DICOM protocol.

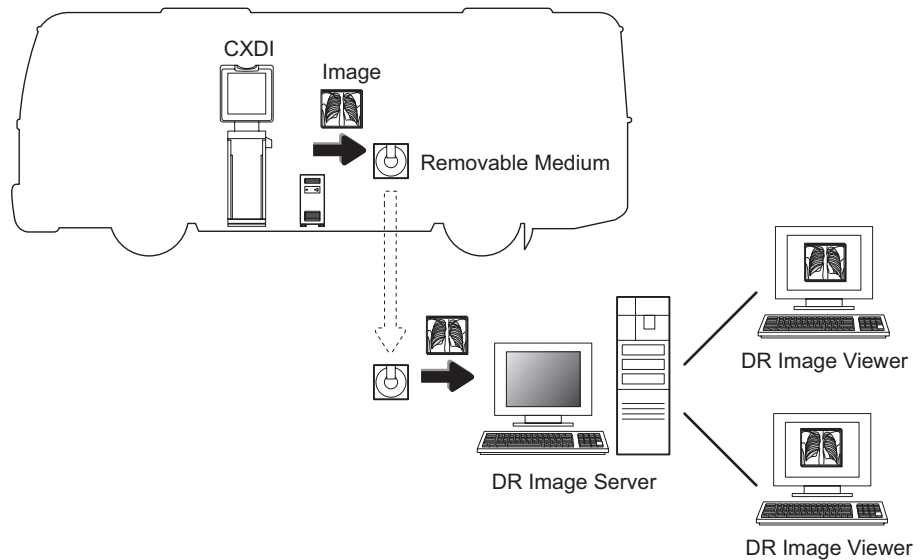
The stored images can be displayed using the DR Image Viewer.



1.2.2 Loading from storage medium

Images that are taken in examination vehicles and saved to magnetic optical discs and other storage medium are read by the DICOM image file reader (→ 94P.) and saved to an online folder.

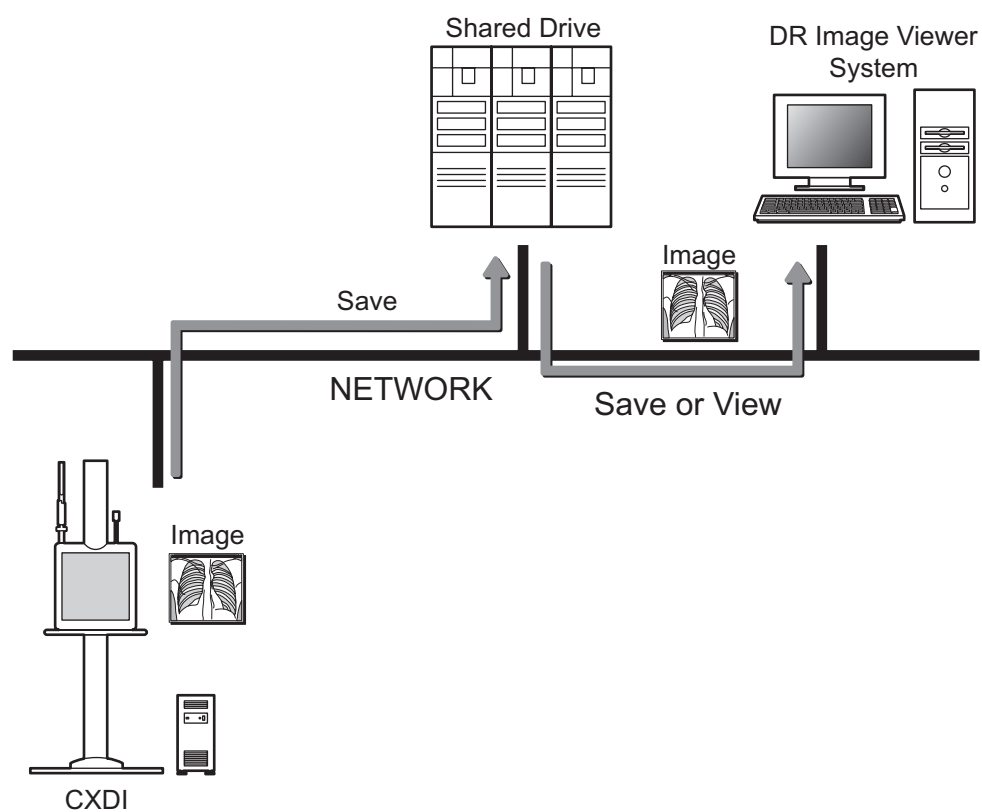
The stored images can be displayed using the DR Image Viewer.



1.2.3 Viewing shared drives

Images in shared drives on a network are read by the DICOM image file reader (→ 94P.) and either the images are saved to an online folder, or the storage location information is registered in the database without saving the image.

In this case, the DR Image Viewer displays either the online folder images or the images in the shared drives.



Online folders

Online folders can only be set for shared folders inside the root folder.

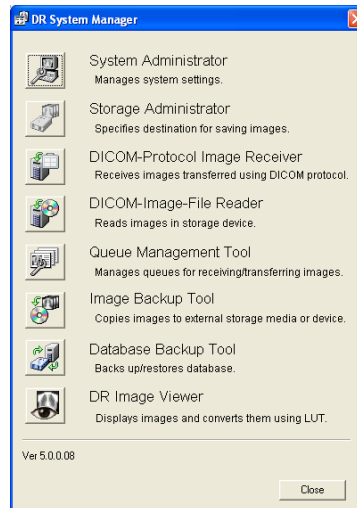
1.3 DR Image Server Components

The DR image server consists of the following software. The software components can be viewed by clicking the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server]

DR System Manager

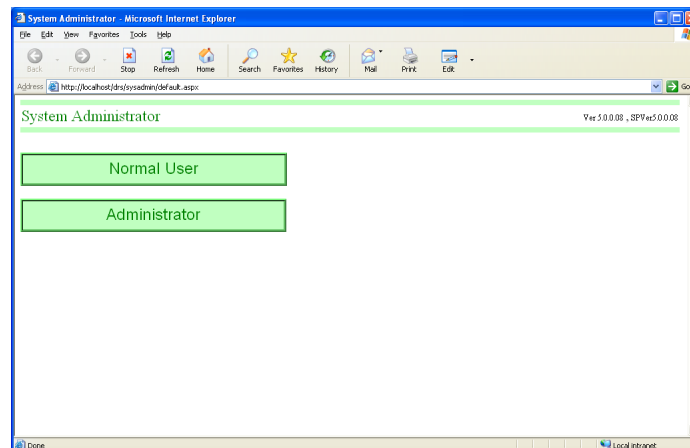
The DR System Manager displays buttons for executing software programs.



DR System Manager

System Administrator

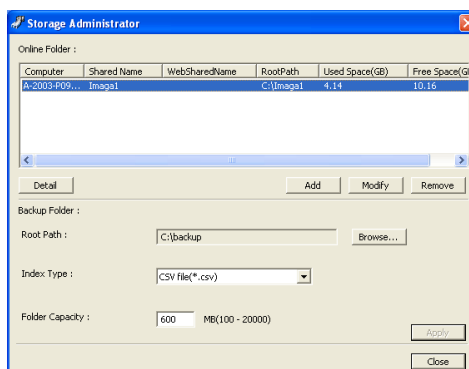
The DR image server functions can be set here.



System Administrator window

Storage Administrator

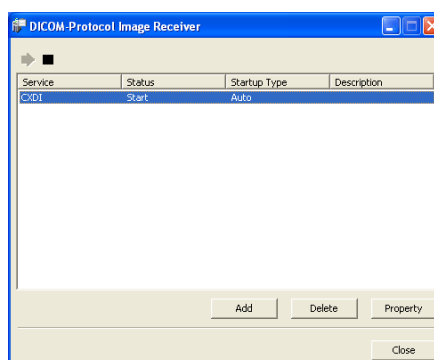
The image storage and backup storage can be set here.



Storage Administrator window

DICOM-Protocol Image Receiver

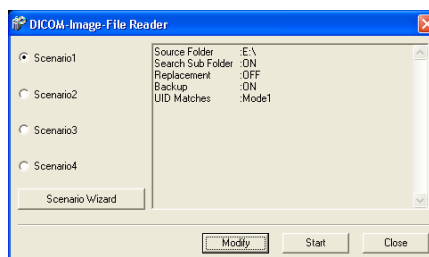
This receiver can receive captured images through a network and the data can be registered in a database.



DICOM-Protocol Image Receiver window

DICOM-Image-File Reader

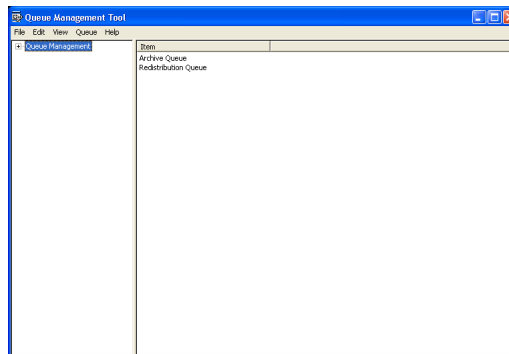
The reader can read captured images from removable media or a shared drive, and the data can be registered in a database.



DICOM-Image-File Reader window

Queue Management Tool

This tool can manage the archive queue and redistribution queue.

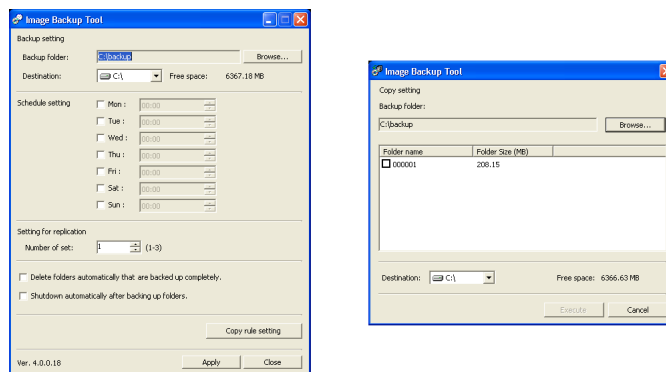


Queue Management Tool window

Image Backup Tool

This tool can copy backed up images to a local device.

It has Auto Image Backup Tool and Manual Image Backup Tool functions.

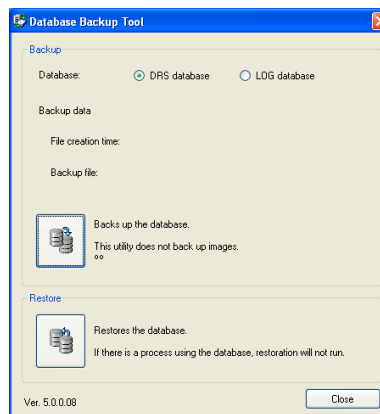


Auto Image Backup Tool window and Manual Image Backup Tool window

Database Backup Tool

This tool is used to back up the database.

Should the database become corrupted, it can be restored from backup files.



Database Backup Tool window

2. Opening DR System Manager

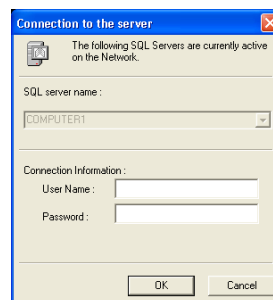
Open a DR System Manager for system management.

The System Manager has a launcher function for easy use of software programs.

1 Open the Connection to the server window.

Either double-click the System Manager icon on the desktop or click the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [DR System Manager]



Connection to the server window

2 Enter the user name and password.

The entered password is indicated by *.



Passwords

Be extremely careful that you do not forget your password or tell it to others.

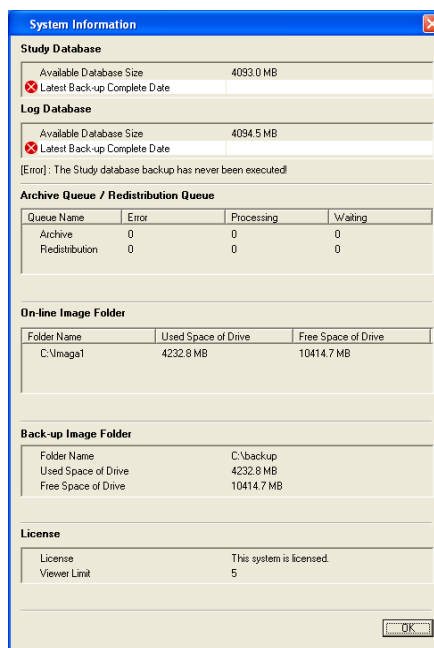
Continued on the following page >>

3 Log into the server.


Click [OK] in the Connection to the server window.

After logging in correctly, the System Information window opens, based on the system setting values (→ 24P.).

When starting the software for the first time, information about the On-line Image Folder and Back-up Image Folder is not displayed.



System Information window

 **When errors occur**

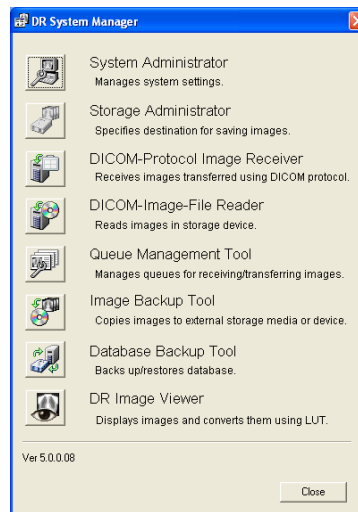
If system information is erroneous, the Warning window opens to display the following message: "Error in system information."

Click [OK] to close the Warning window and read the details in the System Information window.

A flashing icon appears at the item with the error.

4 Open the DR System Manager.

Click [OK] in the System Information window.



DR System Manager

Button name	Relevant chapter and page	Notes
System Administrator	3. System Administrator (→ 11P.)	
Storage Administrator	4. Storage Administrator (→ 71P.)	This option is available only when you log in with administrator privileges.
DICOM-Protocol Image Receiver	5. Receiving Images (DICOM-Protocol Image Receiver) (→ 81P.)	This option is available only for users for whom Archive Privilege (→ 15P.) is checked under User Management. The DICOM-Protocol Image Receiver and DICOM Image File Reader cannot be used while the Storage Administrator is running.
DICOM-Image-File Reader	6. Reading Images (DICOM Image File Reader) (→ 91P.)	
Queue Management Tool	7. Received Image Storage and Management (Queue Management Tool) (→ 111P.)	
Image Backup Tool	8. Copying Images (Image Backup Tool) (→ 119P.)	
Database Backup Tool	9. Database Backup and Restore (→ 125P.)	This option is available only when you log in with administrator privileges.
DR Image Viewer	DR Image Viewer Operation Manual	This option is available only if DR Image Viewer is installed on the computer and for users for whom Viewer Privilege (→ 15P.) is checked under User Management.
[Close]		Closes DR System Manager.

Continued on the following page >>



Auto logout function

If no operation is performed in a set period of time in 3.4.1 System Setting (→ 24P.), the DR System Manager automatically logs out and its window is minimized.

Clicking the DR System Manager button on the taskbar opens the Re-Login window. Log into the DR System Manager again.

3. System Administrator

3.1 Opening and Closing System Administrator

3.1.1 Opening the System Administrator

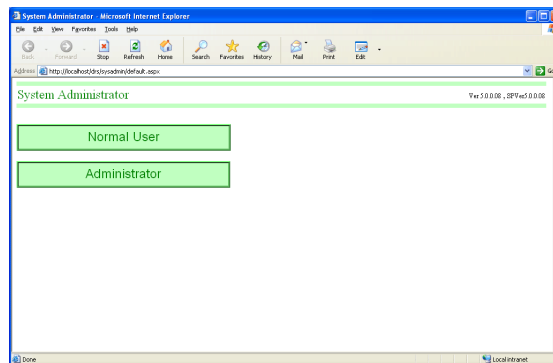
The system administrator is a function for setting the entire system, and it is operated using an Internet browser.

Internet Explorer Version 6.0 and later assures normal operations of the system administrator.

1 Open the System Administrator window.

Click the commands from the taskbar in the following order.

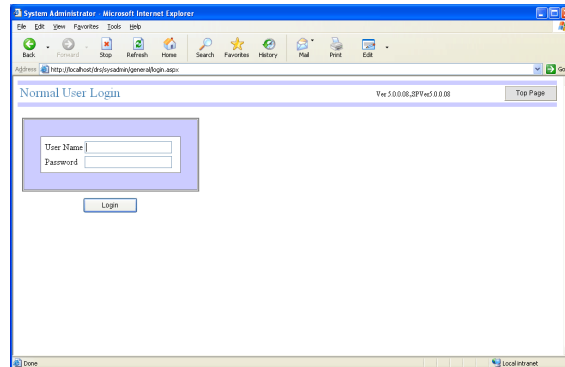
[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [System Administrator]



System Administrator window

2 Set to the Login window.

To log in with normal user privileges, click [Normal User] to open the Normal User Login window. To log in with administrator privileges, click [Administrator] to open the Administrator Login window.



Normal User Login window (when [Normal User] is selected)



Operations from the DR System Manager window

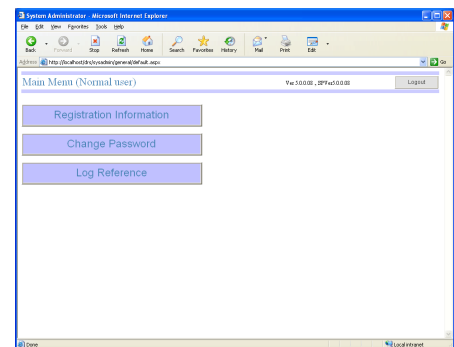
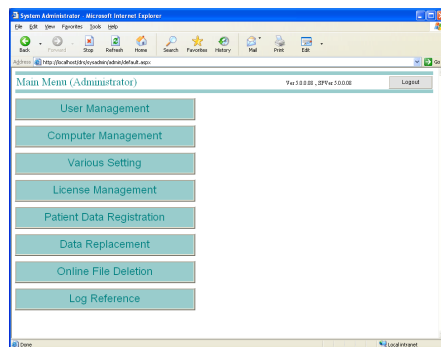
When [System Administrator] in the DR System Manager is clicked, a login window is opened for the privilege selected at the time of login to the DR System Manager.

3 Log in to display the main menu.

Enter the user name and password, and then click [Login].

The main menu varies depending on the login privileges.

For the normal user settings, see 3.10 Normal User Page (→ 65P.).



Administrator (left) and Normal User (right) Main Menus




Timeout

If there are no operations for about 10 minutes after login, performing any single operation displays the Timeout window. In this case, return to the Login page and login again.

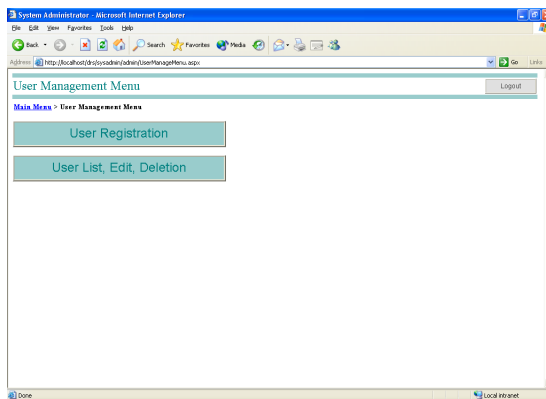
If there are no operations for about 20 minutes, any single operation displays the Session Timeout window. In this case, log out and then log in again.

3.1.2 Closing the System Administrator

To close the System Administrator, either click [File(F)] > [Close(C)] from the menu bar, or click the  in the top right corner of the window to close Internet Explorer.

3.2 User Management

The User Management menu is used to register, edit, and delete users.

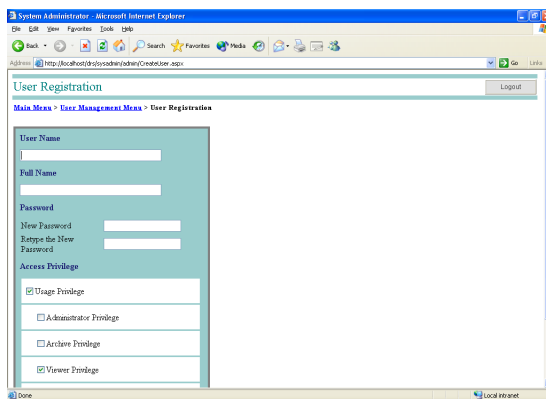


User Management Menu window

3.2.1 User Registration

To register users and set their access privileges:

- 1 Display the User Registration window.
In the Main Menu (Administrator) window, click [User Management] > [User Registration].



User Registration window

2 Enter the user information.

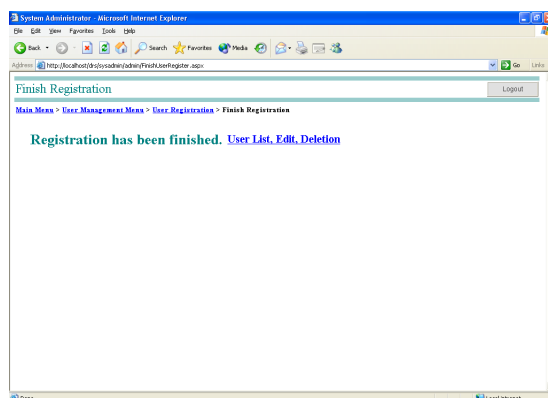
Make the entries for the following fields, or select the options.

Menu		Operation
User Name		Enter a user name for login within 50 characters.
Full Name		Enter the user's full name (maximum 65 characters) as it will appear in the Worklist (All Reports) display in the DR Image Viewer.
Password	New Password	Enter a new password using at least 6 characters and no more than 20 characters.
	Retype the New Password	Enter the same characters entered as the New Password.
Access Privilege	Usage Privilege	Check this item to enable the setting of the functions below. If this is not checked, neither one can be used.
	Administrator Privilege	Check this item to enable login to the System Administrator with administrator privileges. You can also use the Storage Administrator (→ 71P.) and the Database Backup tool (→ 125P.).
	Archive Privilege	Check this item to enable use of the DICOM-Protocol Image Receiver (→ 85P.), DICOM Image File Reader (→ 91P.), and Queue Management Tool (→ 111P.).
	Viewer Privilege	Check this item to enable to use the DR image viewer. If this is not checked, reporting privilege cannot be used.
	Reporting Privilege	Check this item to enable report input using the DR Image Viewer.

3 Register the user.

Click [Register].

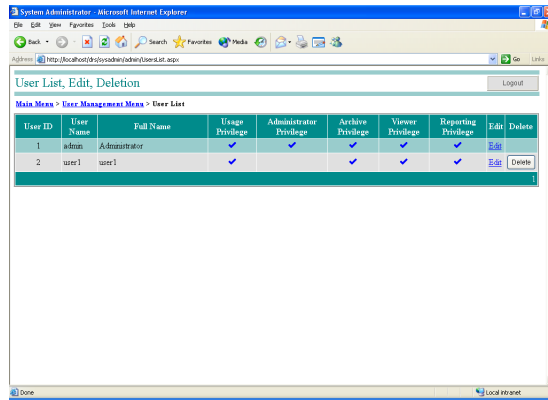
User registration is completed once the message "Registration has been finished" is displayed.



Display of Finish Registration message

Continued on the following page >>

- 4 Confirm the settings.
Click User List, Edit, Deletion, and check that the user is registered.

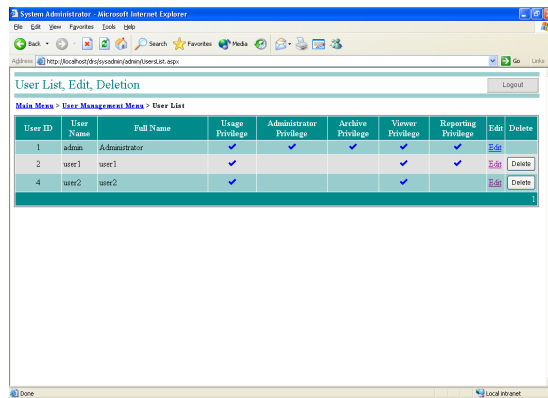


User List, Edit, Deletion window

3.2.2 Deleting user information

The user information can be deleted.

- 1 Display the User List, Edit, Deletion window.
In the Main Menu (Administrator) window, click [User Management] > [User List, Edit, Deletion].



User List, Edit, Deletion window

- 2 Delete the user.
Click [Delete] for the user to be deleted.
The message “Are you sure you delete user?” is displayed. Click [OK].
The user information is removed from the user list.



User that cannot be deleted

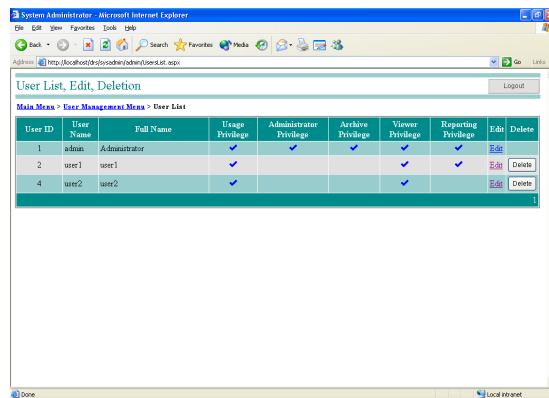
The following users cannot be deleted.

- A user that was initially registered.
- Users that have been given Usage Privilege.
- Users that have a report.
- Users that have selected "Detail Examination".

3.2.3 Editing user information

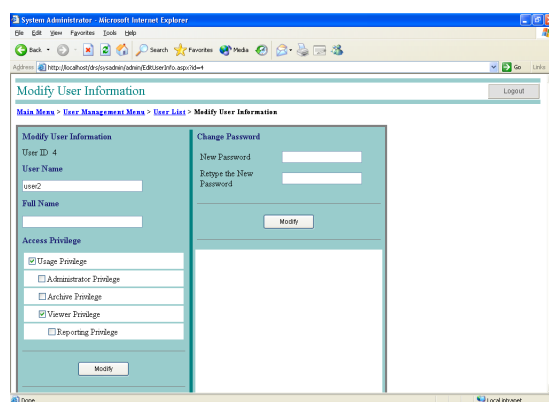
User information can be edited.

- 1 Display the User List, Edit, Deletion window.
In the Main Menu (Administrator) window, click [User Management] > [User List, Edit, Deletion].



User List, Edit, Deletion window

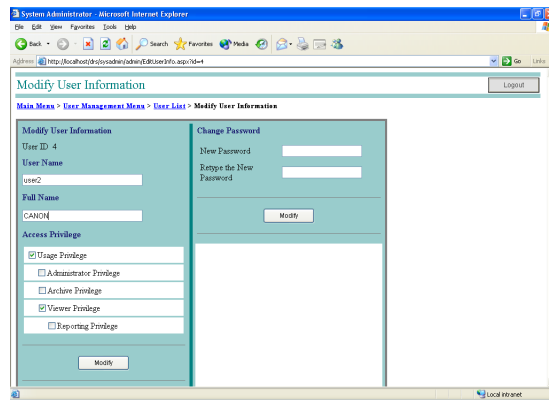
- 2 Display the Modify User Information window.
Click Edit for the user whose information you want to modify.



Modify User Information window

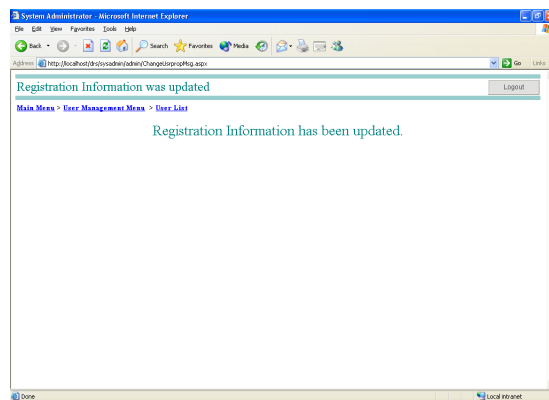
Continued on the following page >>

3 Edit the user information or password.



4 Change the User Information or Password.

To change the user information, click [Modify] on the user information side. To change the password, click [Modify] on the password side. The user information or password is modified once the message “Registration information has been updated” or “Password has been changed” is displayed.



Display of Change Complete message

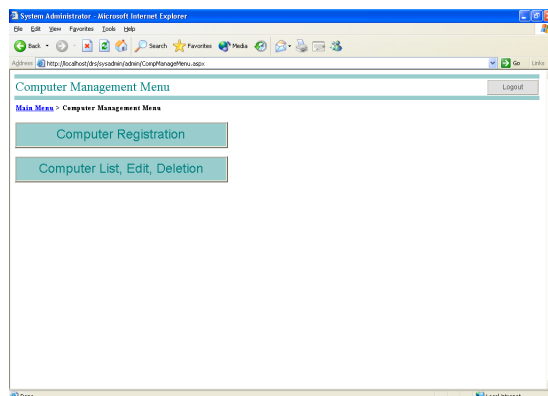


Administrator Privilege and User Privilege

If [Modify] is clicked when the check mark for the Administrator Privilege or Usage Privilege is removed from a current login user, the user is automatically logged out. Be aware that Administrator login is not possible when a user has no Administrator Privilege, and login itself is not possible when a user has no Usage Privilege.

3.3 Computer Management

The Computer Management Menu is used to register, edit, and delete computers that connect to the DR Image Server and DR Image Viewer.

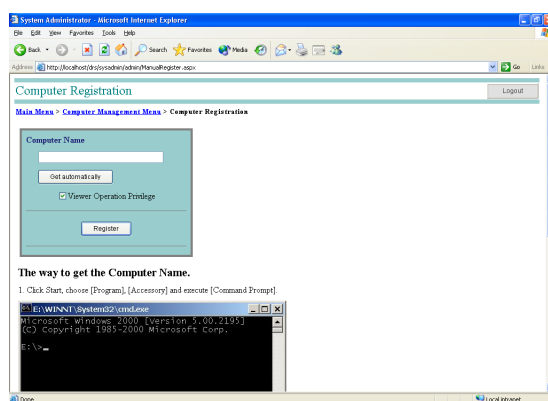


Computer Management Menu window

3.3.1 Computer Registration

To set the computer that can be connected to the server:

- 1 Display the Computer Registration window.
In the Main Menu (Administrator) window, click [Computer Management] > [Computer Registration].



Computer Registration window

- 2 Enter the computer name.
To input the currently used computer name automatically, click [Get Automatically].
When [Get Automatically] is not used, enter the computer name directly.

Continued on the following page >>

3 Set the Usage Privileges for the DR Image Viewer.

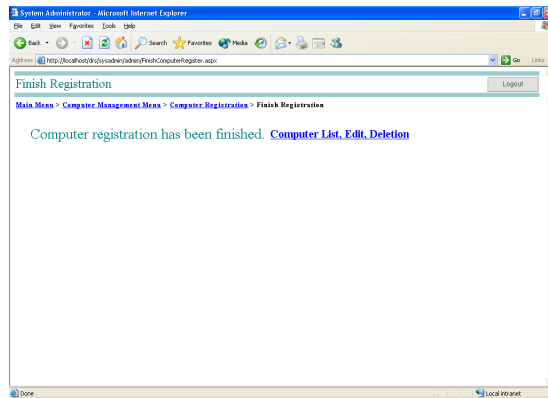
To give DR Image Viewer usage privilege to the computer, check Viewer Operation Privilege.

If this option is unchecked, a connection cannot be made from the DR Image Viewer to the server.

4 Register the computer.

Click [Register].

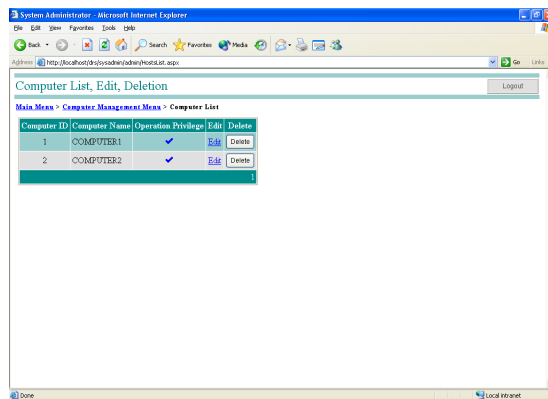
The message “Computer registration has been finished.” is displayed, and the computer registration is completed.



Display of Finish Registration message

5 Confirm the settings.

Click the Computer List, Edit, Deletion to check that the computer is registered.

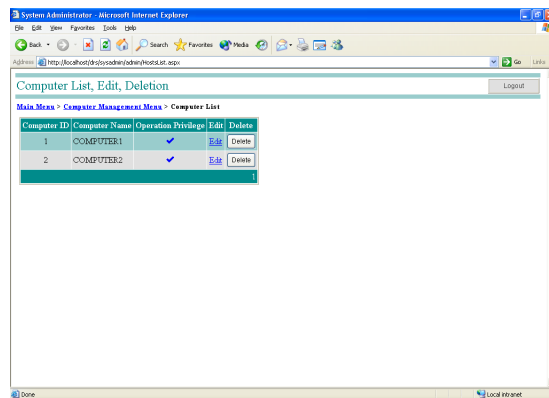


Computer List, Edit, Deletion window

3.3.2 Deleting computers

To delete computer information:

- 1 Display the Computer List, Edit, Deletion window.
In the Main Menu (Administrator) window, click [Computer Management] > [Computer List, Edit, Deletion].



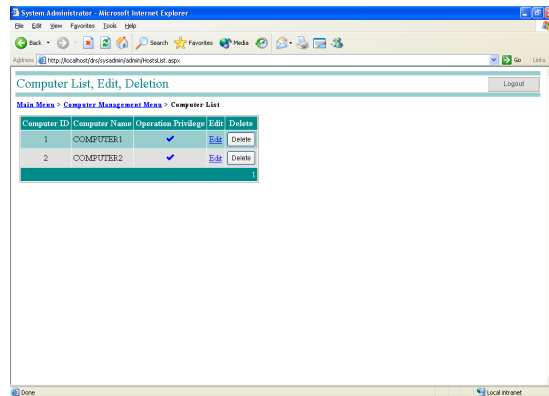
Computer List, Edit, Deletion window

- 2 Delete the computer.
Click [Delete] for the computer to be deleted. A deletion confirmation message is displayed. Click [OK].
The computer information is deleted from the computer list.

3.3.3 Editing computer information

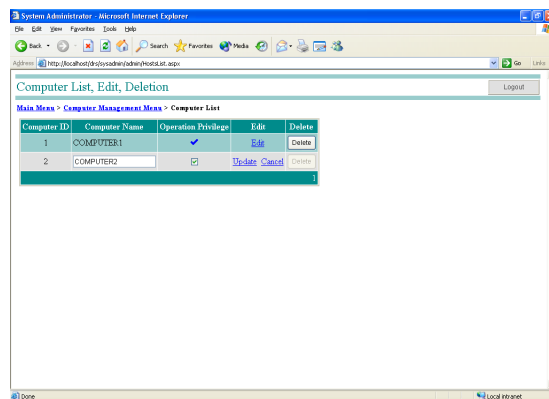
To change the computer name and operation privileges:

- 1 Display the Computer List, Edit, Deletion window.
In the Main Menu (Administrator) window, click [Computer Management] > [Computer List, Edit, Deletion].



Computer List, Edit, Deletion window

- 2 Click Edit for the computer whose settings will be changed.
The Computer Name and Operation Privilege can now be edited.

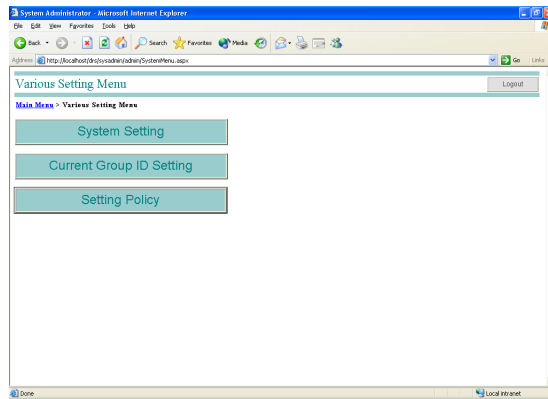


- 3 Edit the computer name.
If you want to change the Computer Name, enter the new computer name in Computer Name.
- 4 Set the Operation Privilege.
Check Operation Privilege to allow connection of the computer to the server.

- 5** Change the settings.
Click Update.
The settings are changed.

3.4 Various Setting

The Various Settings menu is used to set the system, group ID, and setting policy.

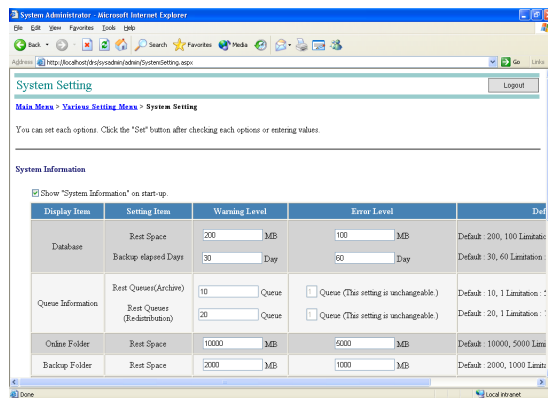


Various Setting Menu window

3.4.1 System Setting

Make settings related to System Information, Auto Logout, Object Save, Date Format and Database.

- 1 Display the System Setting window.
In the Main Menu (Administrator) window, click [Various Setting] > [System Setting].



System Setting window

2 Set System Information.

If Show “System Informtion” on start-up is not checked, system information is not displayed except when an error occurs. When [Return to default value.] is clicked, values of all items are reset to their defaults.

Display Item	Setting Item	Warning Level	Error Level	Default
Database	Rest Space	Set MB.	Set MB.	Default is displayed.
	Backup elapsed Days	Set the number of days.	Set the number of days.	Default is displayed.
Queue Information	Rest Queues (Archive)	Set the number of queues.	Cannot be set.	Default is displayed.
	Rest Queues (Redistribution)	Set the number of queues.	Cannot be set.	Default is displayed.
Online Folder	Rest Space	Set MB.	Set MB.	Default is displayed.
Backup Folder	Rest Space	Set MB.	Set MB.	Default is displayed.
License	Rest Days	Set the number of days.	Set the number of days.	Default is displayed.

3 Set Auto Logout.

To use the auto logout function, check Use “Auto Logout” and set the following items.

Item	Function
Auto Logout Time	If there is no operation of the DR system manager and DR image viewer for the set period of time, the system logs out automatically.
Message Display Time	The message is displayed for the period of time calculated back from the logout time. (Only for the DR Image Viewer)

4 Set Object Save.

Determine whether the object on the DR Image Viewer is to be shared among all users or it is to be stored for each user.

Item	Function
Share the objects by all users.	Owners are not assigned to objects, so they can be manipulated by any user.
Save the objects by each user.	Owners are assigned to objects, so they can only be manipulated by their owners.

Continued on the following page >>

5 Set Date Format.
Select YYYY/MM/DD, MM/DD/YY, or DD/MM/YYYY as the format for displaying dates in the DR Image Viewer.

6 Set the automatic backup of the database.
When backing up the database automatically, check “Enable auto-back up function for the database.”

A backup file of the study database is created every time the user starts up the computer in which Microsoft SQL Server 2005 Express Edition is installed.

The backup filename is automatically assigned as follows.

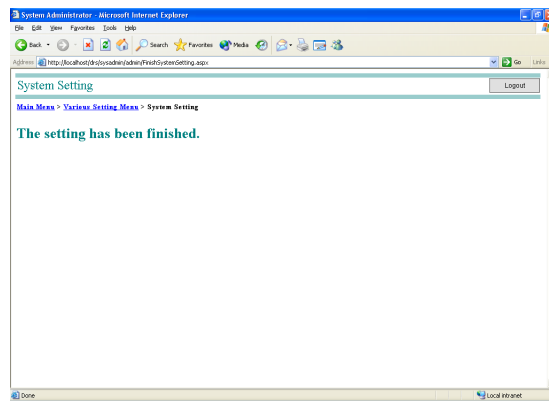
Study database: drs_bak.dat

However, the log database is not backed up automatically.

7 Save the setting.

Click [Setting].

The message “The setting has been finished.” is displayed and the settings are saved.



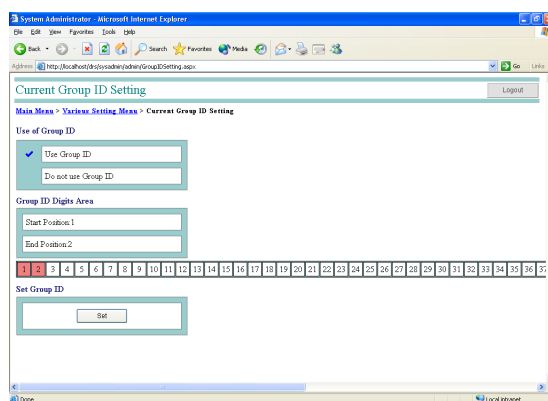
Display of Setting Complete message

3.4.2 Setting the group ID

Note: If the current group ID setting is changed while an operation is in progress, the change will not be applied to the patient information that was registered to the database before change.

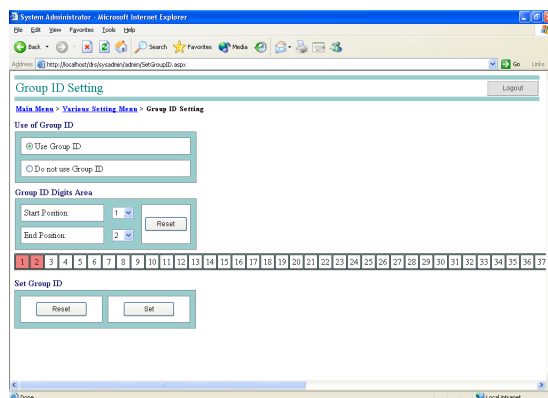
To set the group ID for classifying the patient information in the DR Image Viewer:

- 1 Display the Current Group ID Setting window.
In the Main Menu (Administrator) window, click [Various Setting] > [Current Group ID Setting].



Current Group ID Setting window

- 2 Display the Group ID Setting window.
Click [Set]. A window opens and a warning message "If the digits area for the Group ID is changed, the management for the grouping is modified. This might cause the serious problem in managing the patients." is displayed. Click [OK].

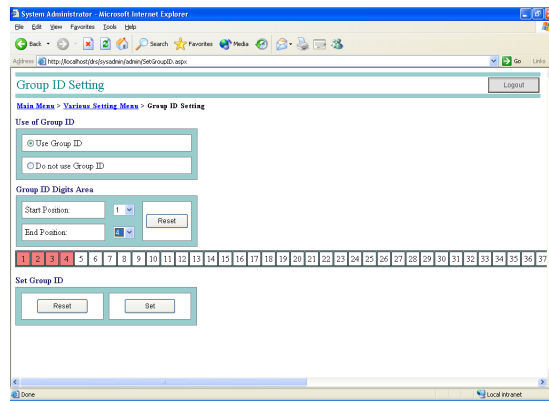


Group ID Setting window

Continued on the following page >>

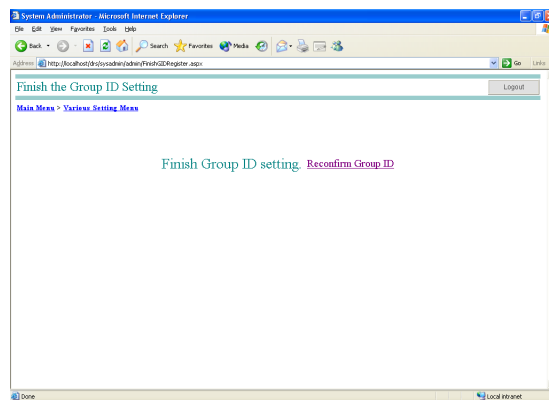
3 Set the group ID.

Select Use Group ID under Use of Group ID, and then click the respective ▼ buttons to select the Start Position and End Position for the Group ID Digits Area. To reset the Start Position and End Position, click [Reset] in the Group ID Digits Area. To reset the Group ID Setting window, click [Reset] in the Set Group ID. In this example, Start Position is set to 1 and End Position is set to 4.



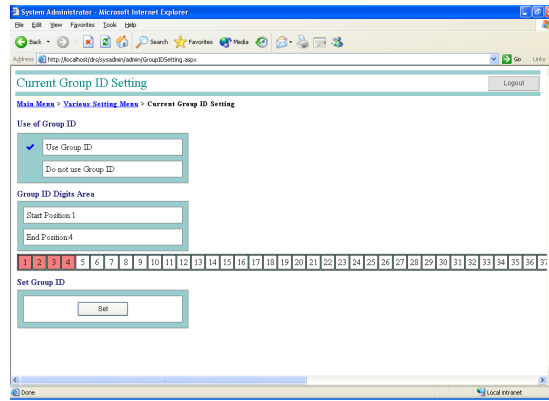
4 Determine the group ID.

Click [Setting]. A window opens and a warning message "If the digits area for the Group ID is changed, the management for the grouping is modified. This might cause the serious problem in managing the patients." is displayed. Click [OK]. The message "Finish Group ID setting" is displayed, and the group ID setting is completed.



Display of Setting Complete message

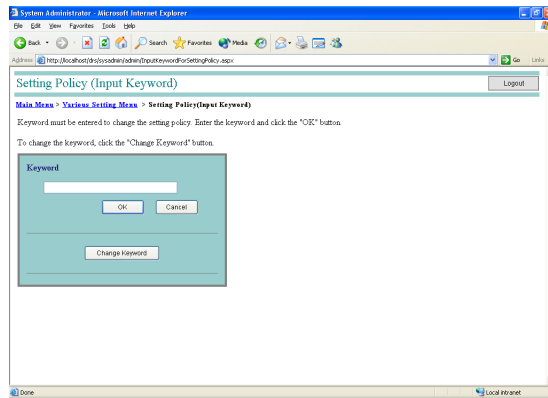
- 5 Confirm the settings.
Click Reconfirm Group ID, and check that the settings have been changed. The current group ID setting can also be checked at the Group tab of the DR Image Viewer (→ DR Image Viewer Operation Manual).



3.4.3 Setting Policy

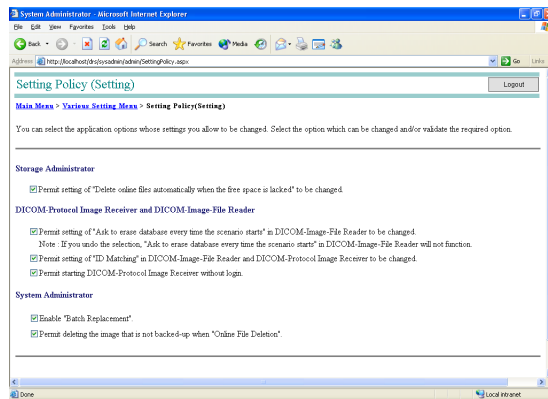
To enable or disable changes to certain software settings:

- 1 Display the Setting Policy (Input Keyword) window.
In the Main Menu (Administrator) window, click [Various Setting] > [Setting policy].



Setting Policy (Input Keyword) window

- 2 Open the Setting Policy (Setting) window.
Enter the Keyword, and then click [OK].

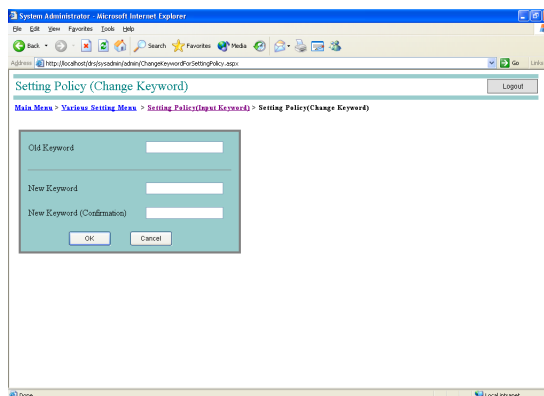


Setting Policy (Setting) window



Initial keyword and changing the keyword

When using Setting Policy for the first time, or when changing the keyword, click [Change Keyword] to set the new keyword in the Setting Policy (Change Keyword) window. In particular, when changing the keyword for the first time, enter “canon” in the Old Keyword.



Be careful not to forget or tell others your keyword as well as the password.

3 Change the settings.

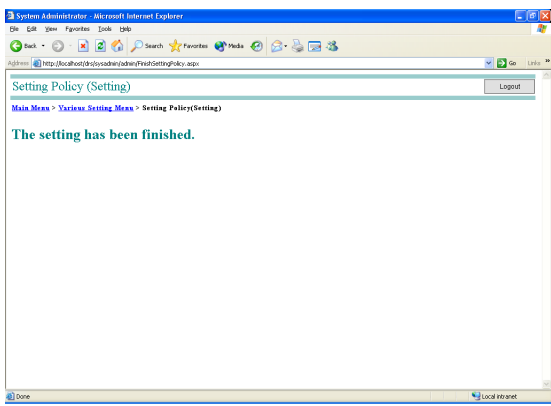
Check the items to be enabled.

Setting item		Description
Storage Administrator	Permit setting of “Delete online files automatically when the free space is lacked” to be changed.	When this option is checked, options for the deletion of online folders can be set (→ 75P.).
DICOM-Protocol Image Receiver and DICOM-Image-File Reader	Permit setting of “Ask to erase database every time the scenario starts” in DICOM-Image-File Reader to be changed.	When this option is checked, options for the deletion of databases can be set (→ 98P.).
	Permit setting of “ID Matching” in DICOM-Image-File Reader and DICOM-Protocol Image Receiver to be changed.	When this option is checked, options for checks when registering patient data to databases (DICOM Image File Reader (→ 101P.) and DICOM Protocol Image Receiver (→ 81P.)) can be set.
	Permit starting DICOM-Protocol Image Receiver without login.	When this option is checked, the window for connecting to the server does not open when the DICOM Protocol Image Receiver is opened (→ 82P.).

Continued on the following page >>

Setting item		Description
System Administrator	Enable "Batch Replacement".	When this option is checked, the database correction function (→ 53P.) can be set.
	Permit deleting image that is not backed-up when "Online File Deletion."	When this option is checked, online files that have not been backed up can be deleted (→ 57P.).

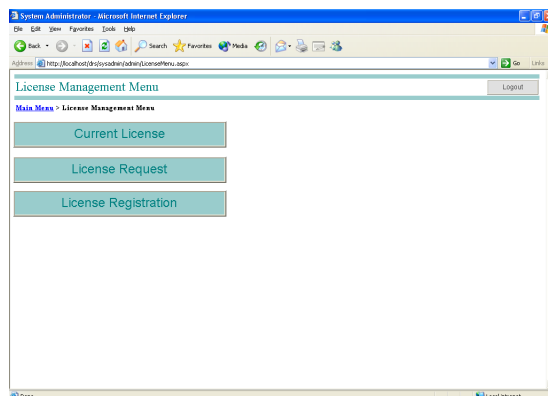
- 4** Save the setting.
 Click [Setting].
 "The setting has been finished." is displayed and the settings are saved.



Display of Setting Complete message

3.5 License Management

Registration of licenses allows a larger number of computers to be connected to a server simultaneously and enables optional functions.

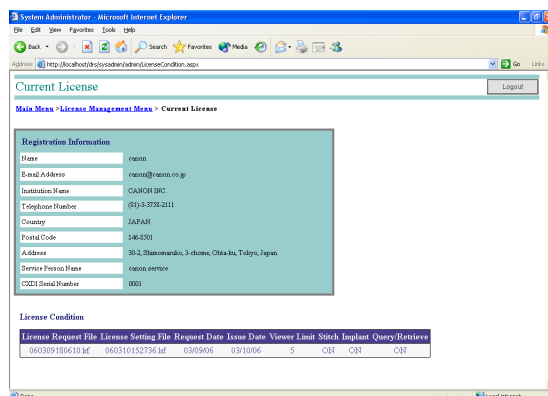


License Management Menu window

3.5.1 Current License

To check the currently registered license:

- 1 Display the Current License window.
In the Main Menu (Administrator) window, click [License Management] > [Current License].
The Current License window is displayed, and the current license status can be verified.

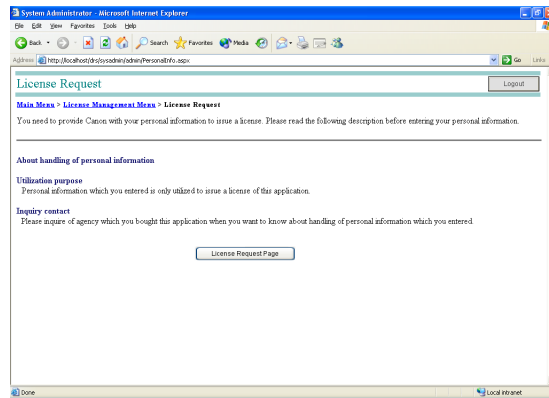


Current License window

3.5.2 License Request

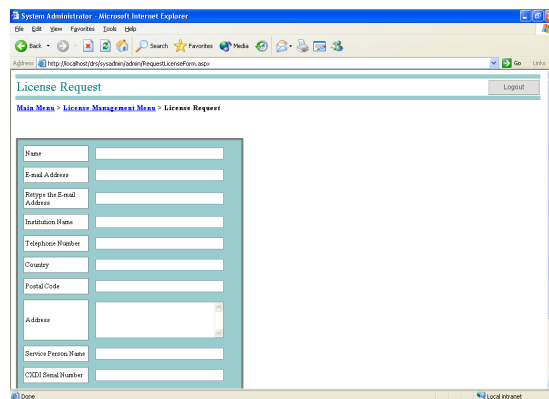
To create and save the license request file:

- 1 Display the License Request window.
In the Main Menu (Administrator) window, click [License Management] > [License Request].



License Request window

- 2 Confirm handling of personal information.
After confirmation is completed, click [License Request Page].



License Request window (Entry Window)

- 3 Enter the information.
Enter information in all fields.
The CXDI Serial Number, however, is not a mandatory field.

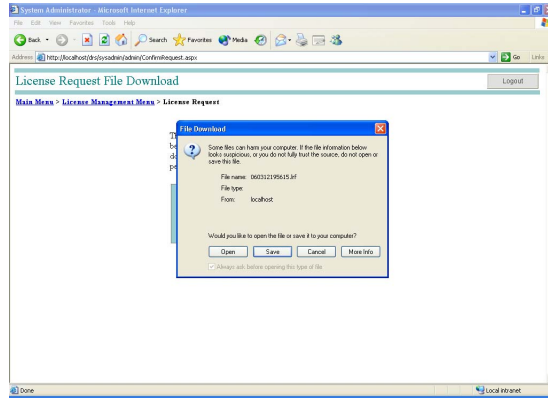
- 4** Confirm the entered contents.
Click [Confirm].
The Input Reconfirmation window is displayed.

Input Reconfirmation window

- 5** Display the License Request File Download window.
Click [Create the License Request File].

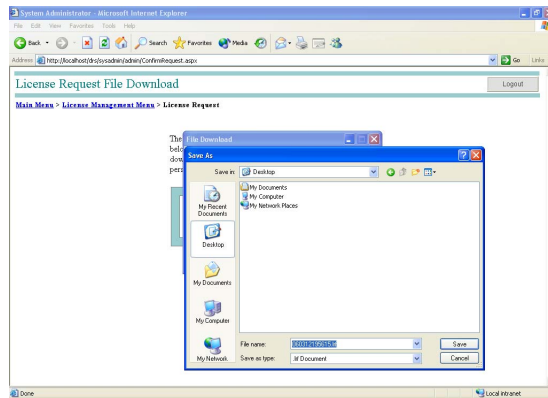
License Request File Download window

- 6 Download the license request file.
Click [Download the License Request File].
The License Request File Download window is opened. Click [Save].
The download of the license request file starts.



File Download dialog

- 7 Specify the storage location, and then save.
In the Save As window, specify the folder where the file will be saved, and then click [Save].
Saving of the license request file starts.



Save As dialog

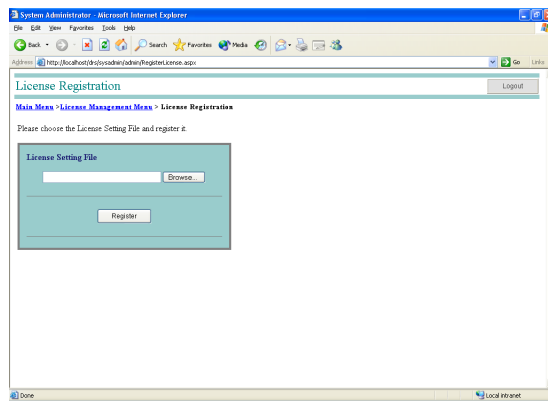
3.5.3 License registration procedure

Note: After a license is registered, the operating privilege settings for the computer may be disabled.

In this case, check the operating privileges by referring to section 3.3.3 Editing computer information (→ 22P.).

Once the saved license request file is sent to the distributor or Canon representative where you made the purchase, a license setting file is sent in return. The license setting file is used to register the license.

- 1 Display the License Registration window.
In the Main Menu (Administrator) window, click [License Management] > [License Registration].

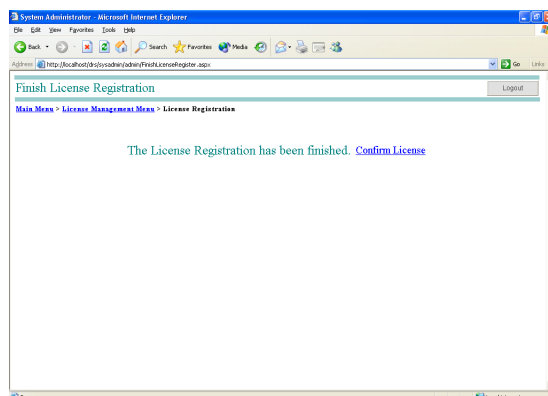


License Registration window

- 2 Select the license setting file.
Click [Browse...] to open the Choose file window, and then select the file.

3 Register the license.

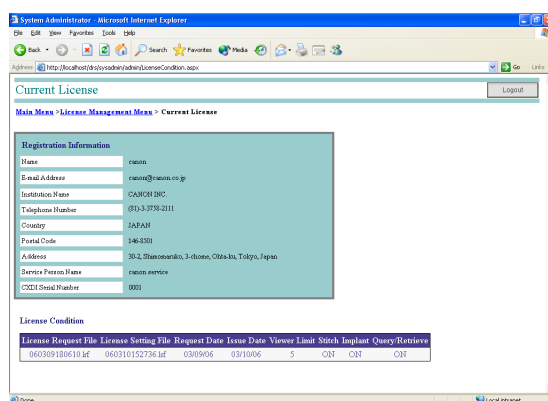
Click [Register]. After the license is registered, the message “The License Registration has been finished” is displayed.



Display of License Registration Complete message

4 Confirm the settings.

Click Confirm License, and then check the details of the registered license.



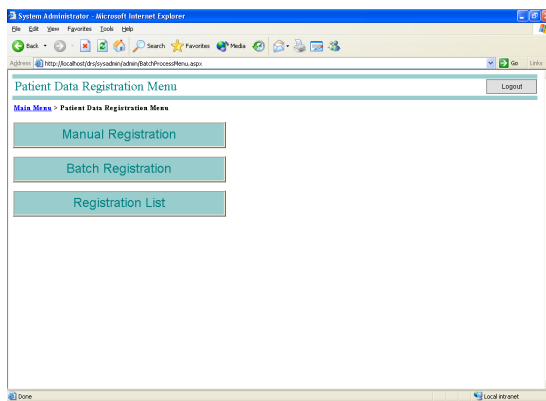
Current License window

3.6 Patient Data Registration

To register patient data for new patients who are not registered in the database:

Manual registration - To register patient data manually, select [Manual Registration].

Batch registration - To load a patient data setting file to register it in a single operation, select [Batch Registration].

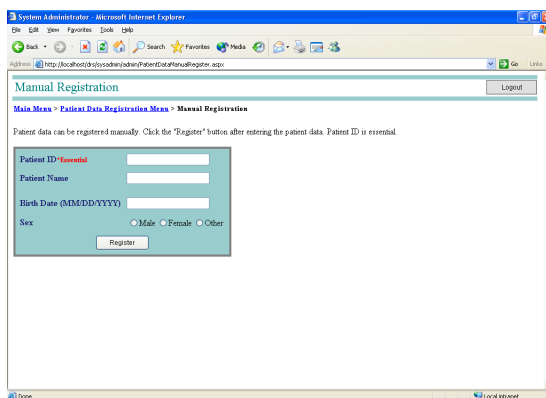


Patient Data Registration Menu window

3.6.1 Manual Registration

To register patient data manually:

- 1 Display the Manual Registration window.
In the Main Menu (Administrator) window, click [Patient data registration] > [Manual Registration].



Manual Registration window

2 Enter the patient data.

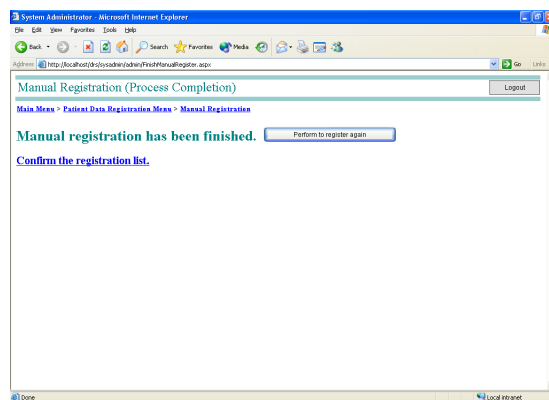
Item	Limitations
Patient ID	Enter a patient ID consisting of no more than 64 alphanumeric characters. This item is required.
Birth Date	Input the date according to the selected display format.
Sex	Select Male, Female, or Other.

3 Start registration.

Click [Register].

A registration confirmation message is displayed. Click [OK].

After registration is completed, the message "Manual registration has been finished." is displayed.

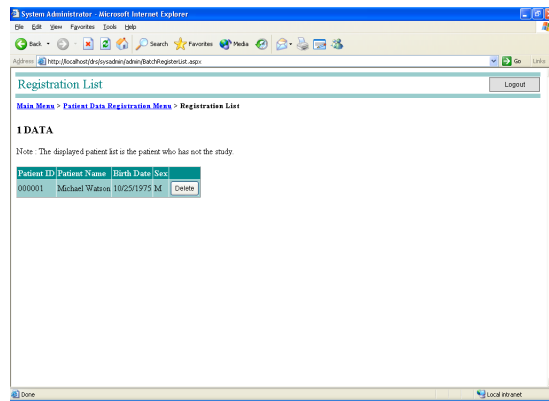


Manual Registraton Complete message

4 Either continue registration or check the registration list.

To continue registering patient data, click [Perform to register again], and then return to step 2.

To check the registration list, click Confirm the registration list, and then check the registered patient data.



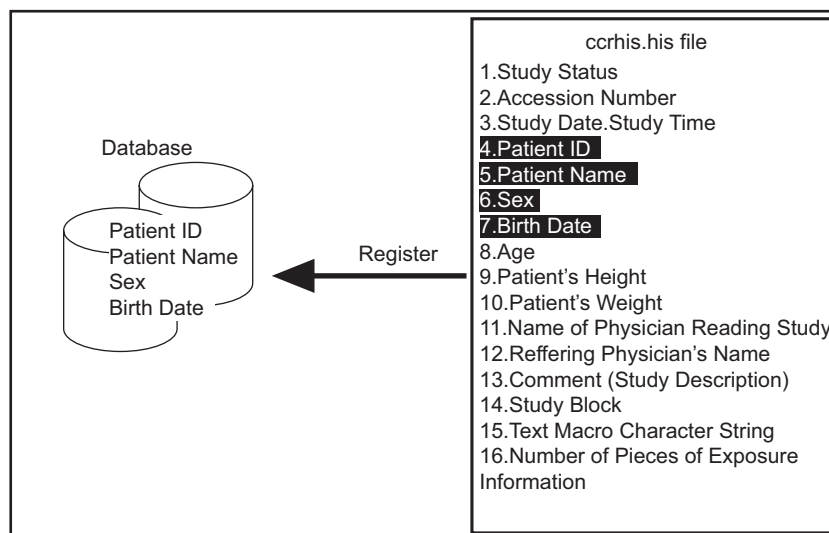
Registration List window

3.6.2 Batch registration

This section describes how to register multiple patients in the database in a single operation by reading a patient data file (ccrhis.his).

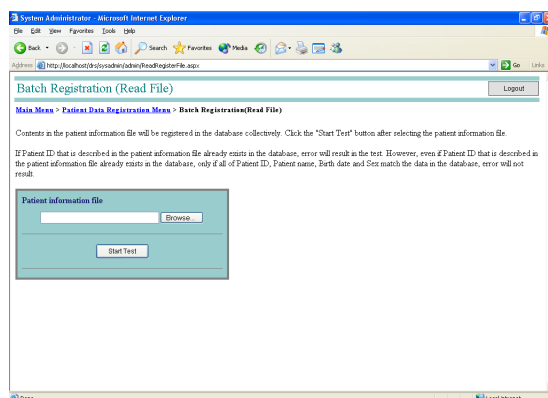
The items that are registered are Patient ID, Patient Name, Sex and Birth Date.

For details the ccrhis.his file, refer to 6.7.3 Editing the ccrhis.his file (→ 110P.).



1 Display the Batch Registration (Read File) window.

In the Main Menu (Administrator) window, click [Patient data registration] > [Batch Registration].



Batch Registration (Read File) window

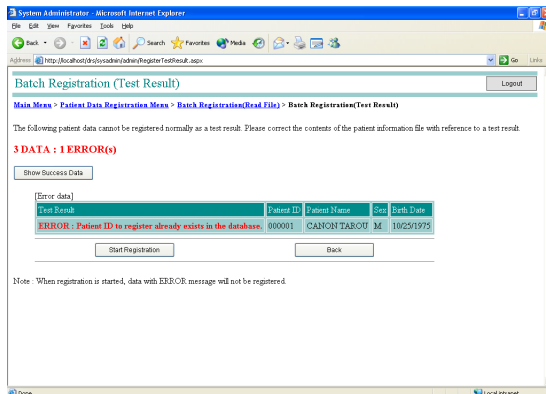
2 Select the patient information file.

Click [Browse...] to open the Choose file window, and then select the patient data file.

3 Start the test.

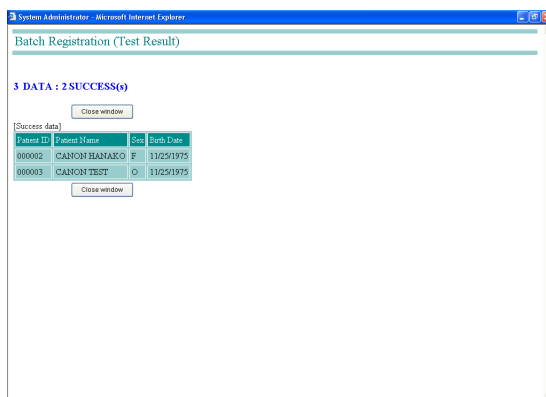
Click [Start Test].

- 4 Check the test results.
The Batch Registration (Test Result) window opens, and the test results are displayed. Check the Error data in this window.

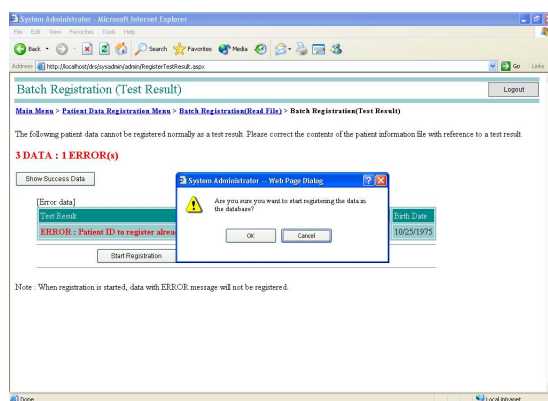


Batch Registration (Test Result) window

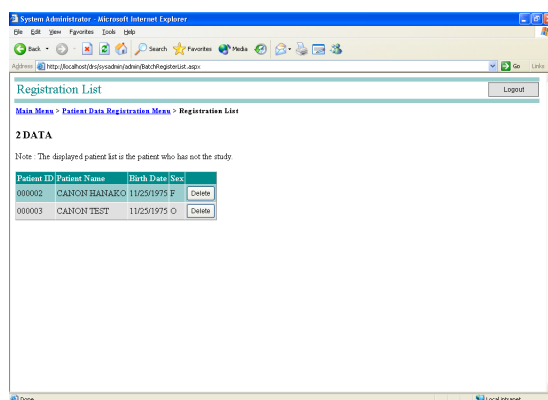
- 5 Check the Success data.
Click [Show Success Data] to display the Batch Registration (Test Result) window, and then check the Success data.
After checking the data, click [Close window].



- 6** Start registration.
- Click [Start Registration]. A window opens and the message “Are you sure you want to start registering the data in the database?” is displayed. Click [OK].
- After registration is completed, the message “Batch registration has been finished.” is displayed.



- 7** Check the registration list.
- Click Confirm the registration list, and then check the registered patient data.

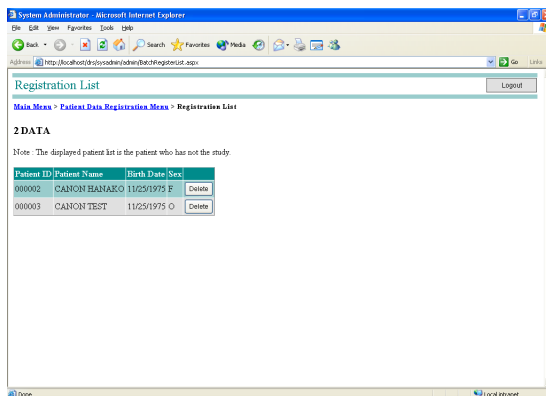


Registration List window

3.6.3 Deleting patient data entered using batch registration

It is possible to display a list of patients registered in the database and to delete multiple patients in a single operation.

- 1 Display the Registration List window.
In the Main Menu (Administrator) window, click [Patient Data Registration] > [Registration List].



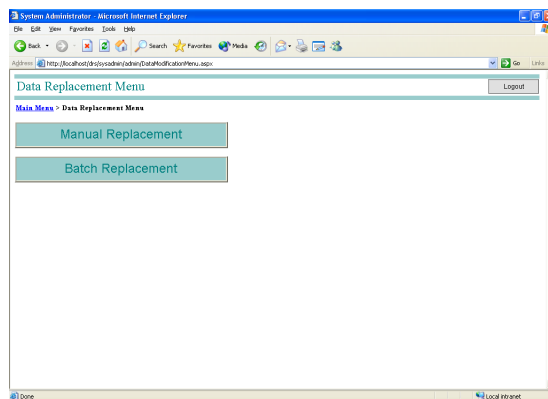
Registration List window

- 2 Select the patient data.
Click [Delete] on the right of the unnecessary patient data.
A window opens and the message “Are you sure you want to start registering the data in the database?” is displayed.
- 3 Delete the patient data.
Click [OK].

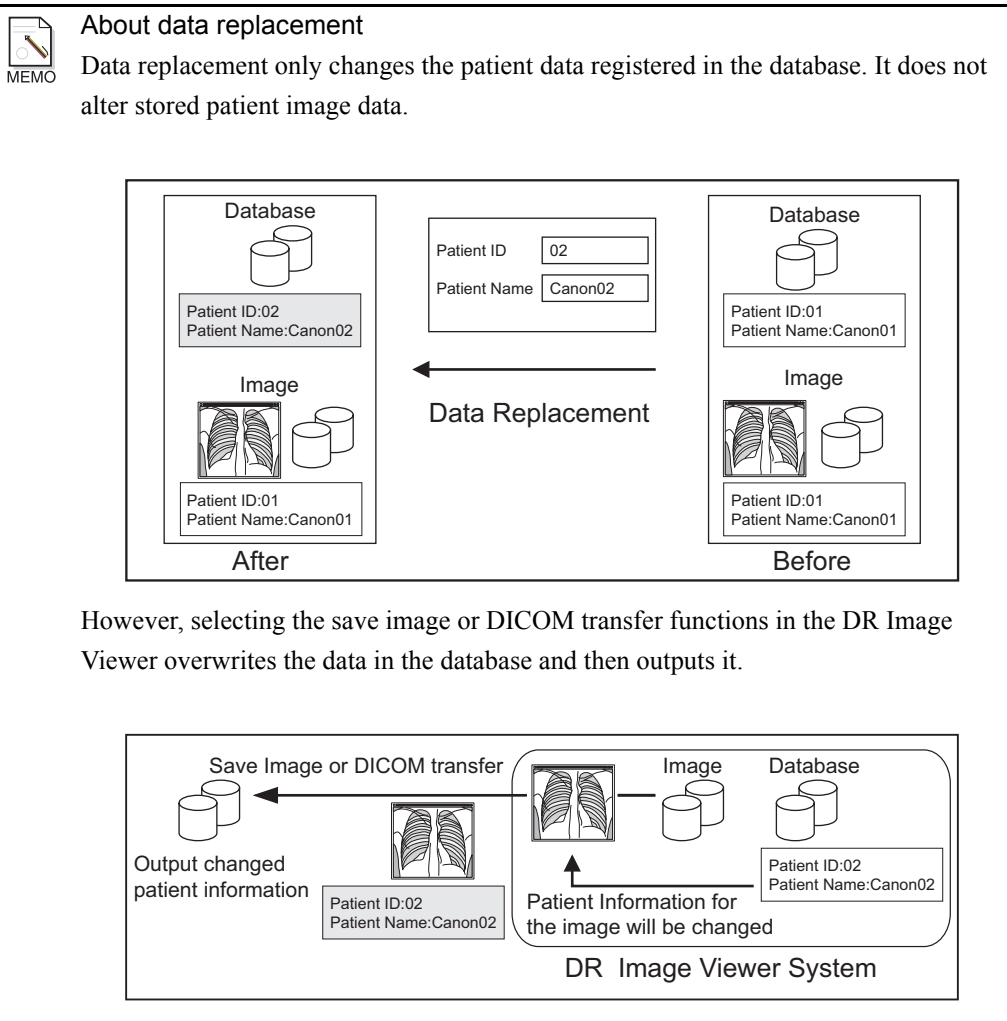
3.7 Data Replacement

To replace the patient data registered in the database:

To replace data for one patient at a time, select [Manual Replacement]. To replace data for multiple patients in a single operation, select [Batch Replacement] (→ 53P.).



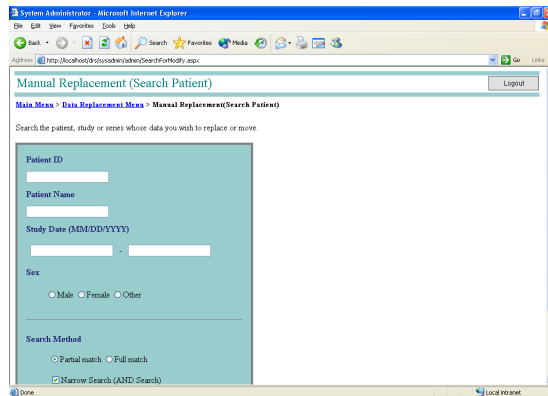
Data Replacement Menu window



3.7.1 Manual Replacement

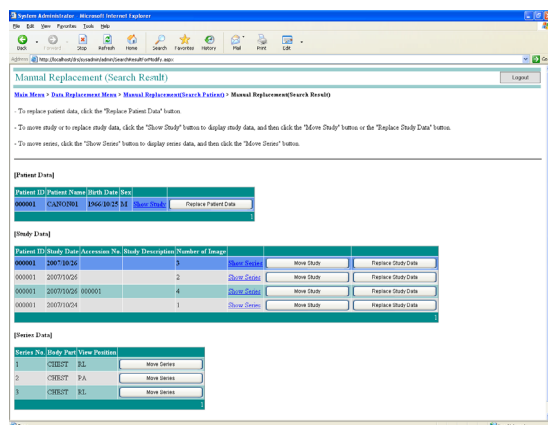
To replace the patient manually:

- 1 Display the Manual Replacement (Search Patient) window.
In the Main Menu (Administrator) window, click [Data replacement] > [Manual Replacement].



Manual Replacement (Search Patient) window

- 2 Enter or select the search conditions.
Enter or select the search conditions.
Partial match and Full match are enabled only when the Patient ID or Patient Name is entered.
- 3 Execute the search.
Click [Search].
The Manual Replacement (Search Result) window opens, and the search results are displayed.



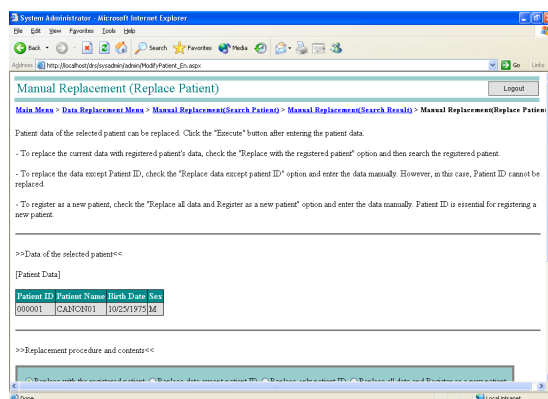
Manual Replacement (Search Result) window

4 Replacement of the patient data.

Refer to Replacement of the patient data, Replacement of the registration location of study data, or Replacement of the registration location of series data, and then replace the patient data.

To replace the patient data

1. Click [Replace Patient Data] for the intended patient under the [Patient Data] column to open the Manual Replacement (Replace Patient) window.



Manual Replacement (Replace Patient) window

2. Enter the changes for the patient data in the Replacement procedure and contents column.

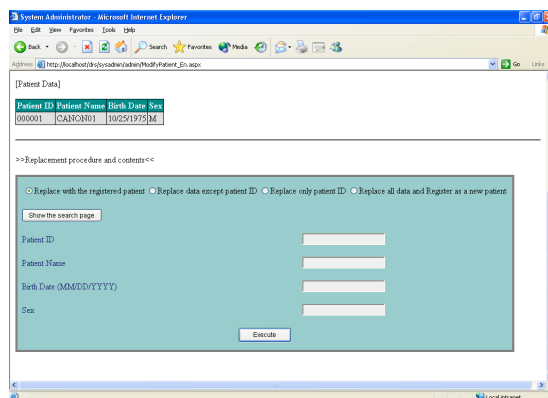
If Replace with the registered patient is selected, click [Show the search page] to open the Manual Replacement (Search Patient) window, and find the patient having the patient data that will be used to make the changes.

It is not possible to enter the patient data directly into the items.

If Replace data except patient ID is selected, enter the items other than the Patient ID.

If Replace only patient ID is selected, enter the Patient ID.

If Replace all data and Register as a new patient is selected, enter the patient data. In this case, be sure to enter the Patient ID.

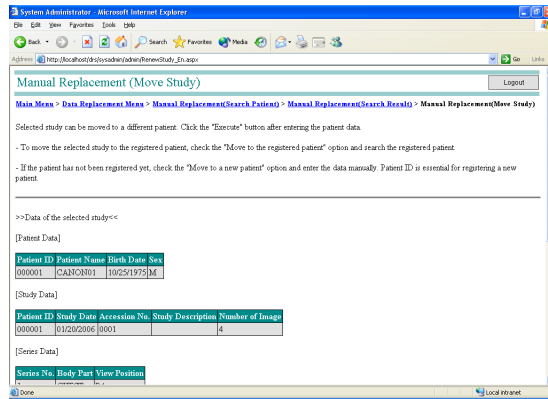


3. Click [Execute] to replace the patient data.

Continued on the following page >>

Replacement of the registration location of study data

1. Click **Show Study** for the intended patient in the [Patient Data] column to display the study data in the [Study Data] column.
2. Click **[Move Study]** for the intended study date in the [Study Data] column to open the Manual Replacement (Move Study) window.

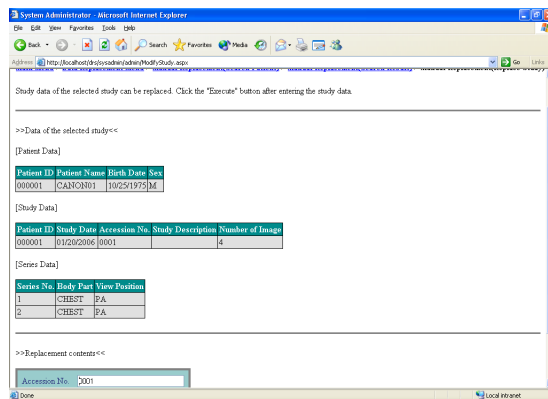


Manual Replacement (Move Study) window

3. Set the patient data at the registration location in the “Movement procedure and contents” column.
When you select Move to the registered study, click **[Show the search page]** to open the Manual Replacement (Search Patient) window and find the patient data that is to be the registration location.
When you select Move to a new study, enter the patient data that is to be the registration location. In this case, be sure to enter the Patient ID.
4. Click **[Execute]** to replace the registration location.

Replacement of the study data

1. Click **Show Study** for the intended patient in the [Patient Data] column to display the study data in the [Study Data] column.
2. Click **[Replace Study Data]** for the intended study date in the [Study Data] column to open the Manual Replacement (Replace Study) window.

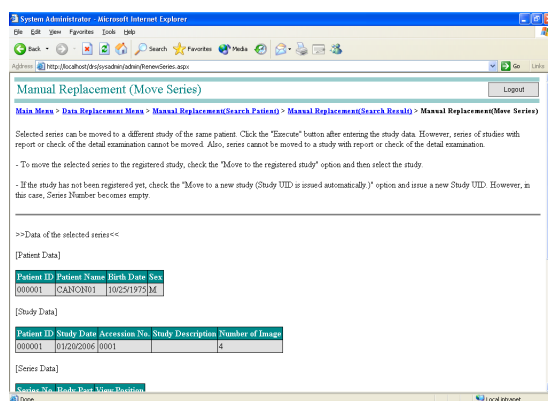


Manual Replacement (Replace Study) window

3. Set the study data in the Replacement contents column.
Enter the Accession No. and Study Description as study data.
4. Click [Execute] to replace the study data.

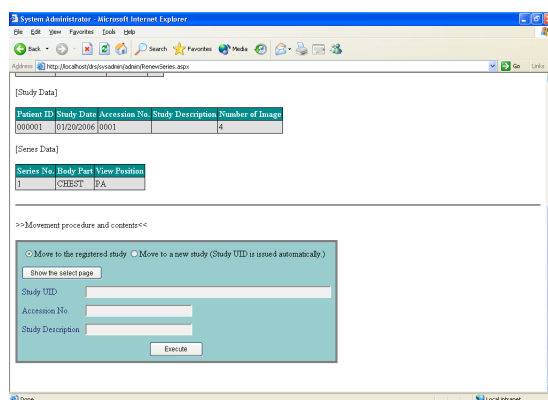
Replacement of the registration location of series data

1. Click **Show Study** for the intended patient in the [Patient Data] column to display the study data in the [Study Data] column.
2. Click **Show Series** for the intended study date in the [Study Data] column.
3. Click [Move Series] for the intended series number in the [Series Data] column to open the Manual Replacement (Move Series) window.



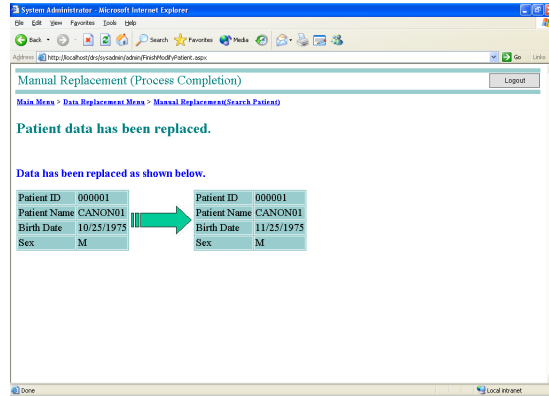
Manual Replacement (Move Series) window

4. Set the study data at the registration location in the Movement procedure and contents column.
If the Move to the registered study is selected, click [Show the select page] to open the Manual Replacement (Select Study) window, and select the study at the registration location.
If Move to a new study (Study UID is issued automatically.) is selected, enter the Accession No. and Study Description.



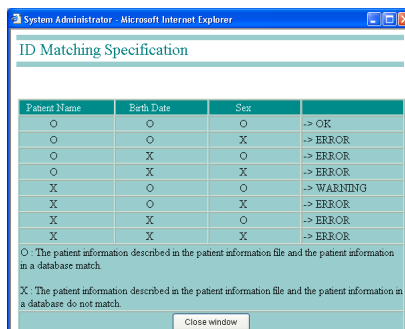
5. Click [Execute] to replace the registration location.

- 5 Check the replaced patient data.
After the registration data is replaced, the message “Patient data has been replaced.” is displayed, and the replaced data is shown.




Display of Patient Data Replacement Complete message

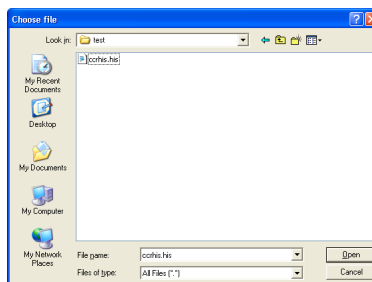
- 2** Verify the replacement conditions.
 Click [ID Matching Specification] to open the ID Matching Specification window, and then verify the replacement conditions of the patient data.
 After verifying the conditions, click [Close window].



ID Matching Specification window

 **Comparison of patient data**
 The Accession No. of the patient data file (→ 110P.) is searched by the Patient ID in the database.
 If the matching Patient ID is found in the database, the patient names, birth dates and sexes of both patient data are compared.
 The full matching patient data in the database is overwritten.

- 3** Select the patient information file.
 Click [Browse...] to open the Choose file window, and then select the file.



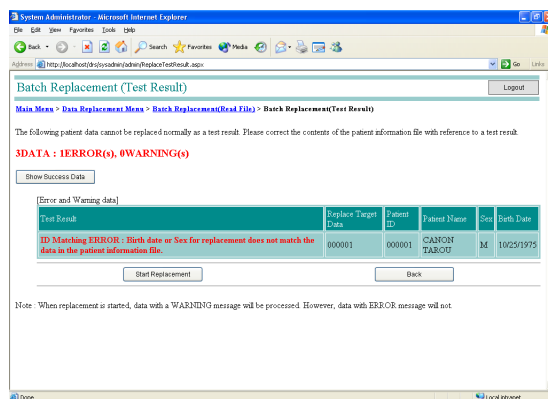
Choose File window

4 Start the test, and check the test results.

Click [Start Test].

The Batch Replacement (Test Result) window displays, and the test results are displayed.

Check the error and warning data in this window.



Batch Replacement (Test Result) window



Error and warning data

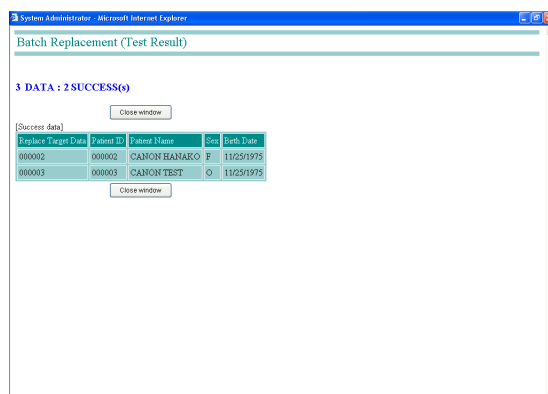
Based on the conditions displayed in the ID Matching Specification window, the patient information in the patient information file is classified into SUCCESS, ERROR, or WARNING.

If patient information indicates an error, correct the patient information file, click [Back], and then redo the procedure from step 2.

5 Check the Success data.

Click [Show Success Data] to open the Batch Replacement (Test Result) window, and then check the Success data.

After checking the data, click [Close window].



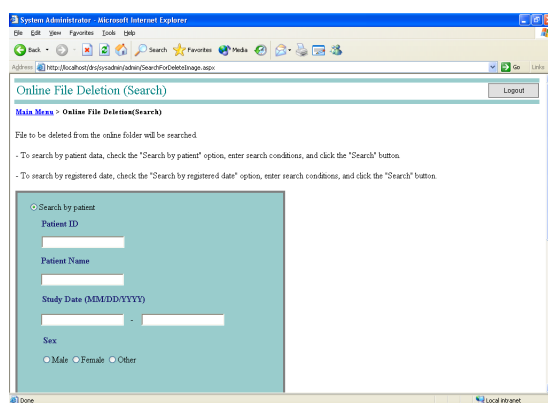
Batch Replacement (Test Result) window

3.8 Deleting Online Files

To delete images from an online folder and delete the image information from the database:

To delete an image that is not backed up, refer to 3.4.3 Setting Policy (→ 30P.) and make sure the Permit deleting image that is not backed-up when “Online File Deletion.” option is checked.

- 1 Display the Online File Deletion (Search) window.
Click [Online File Deletion] in the Main Menu (Administrator) window.



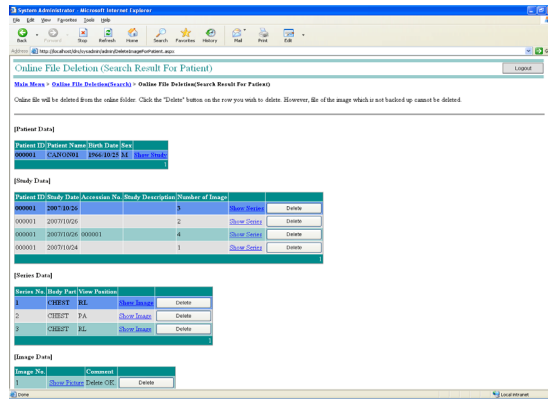
Online File Deletion (Search) window

- 2 Enter or select the search conditions.
Select Search by patient or Search by register date, and enter or select the search conditions.
Partial match and Full match are enabled only when the Patient ID, Patient Name or Study Description is entered.

3 Execute the search.

Click [Search].

When Search by patient is selected in step 2, the Online File Deletion (Search Result For Patient) window opens. When Search by register date is selected, the Online File Deletion (Search Result For Register Date) window opens.



Online File Deletion (Search Result For Patient) window

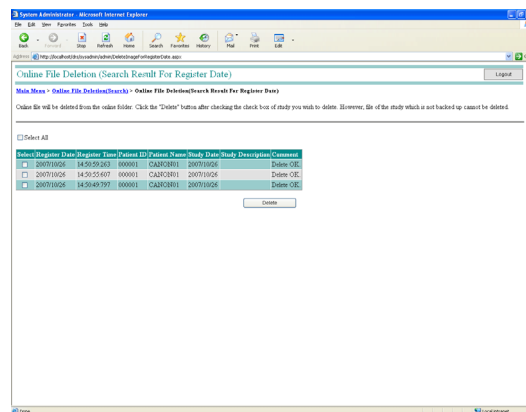


Performing a search by registration date

When searched by register date, a list of relevant studies is displayed.

Check the checkbox of the study to be deleted, or check Select All and click [Delete].

An window appears to show the message “Are you sure you want to delete the online file of the selected study from the online folder?” To delete the file, click [OK].



When searched by registration date

4 Display the search results.

The study information, series information and image information of the patient who meets the search criteria are displayed.

When [Show Picture] is clicked in the [Image Data] column, the image is displayed.

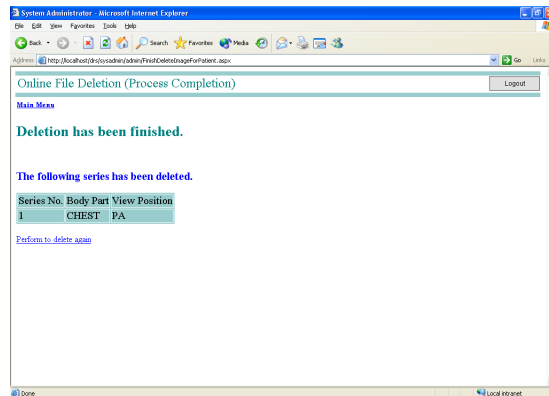
5 Select the images to be deleted.

Images can be deleted by individual study, individual series or individual image.

When deleting images by individual series, click [Delete] for the image to be deleted in the [Series Data] column.

A deletion confirmation message is displayed. Click [OK].

After the image is deleted, the message “Deletion has been finished.” is displayed, and a list of the deleted images is shown.



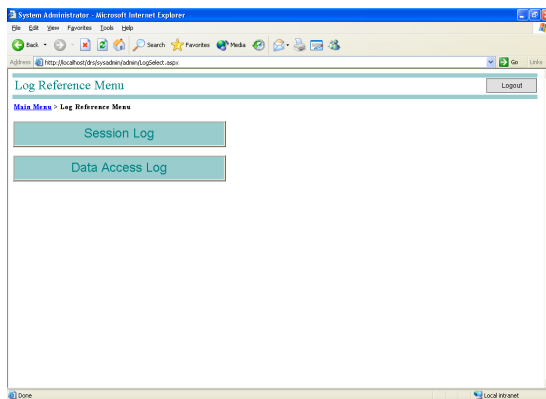
Display of Online File Deletion Complete message

6 To delete other images, return to the search screen.

To delete other images, click [Perform to delete again](#), and redo the procedure from step 2.

3.9 Log Reference

The Log Reference menu is used to view a session logs and data access logs.

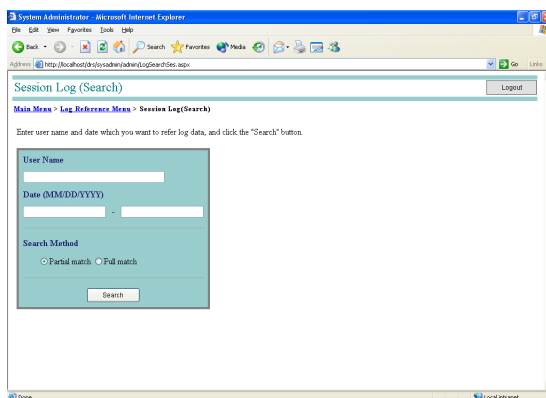


Log Reference Menu window

3.9.1 Session Log

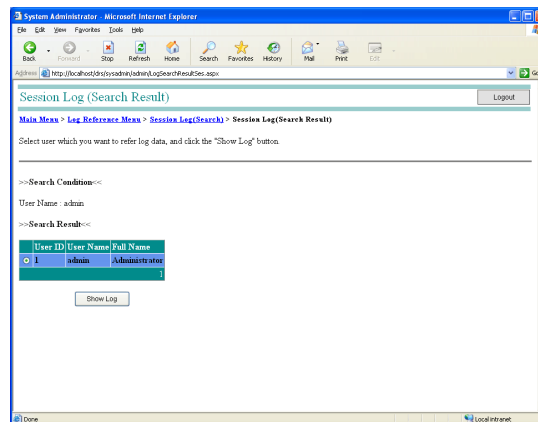
To view session logs:

- 1 Display the Session Log (Search) window.
In the Main Menu (Administrator) window, click [Log Reference] > [Session Log].



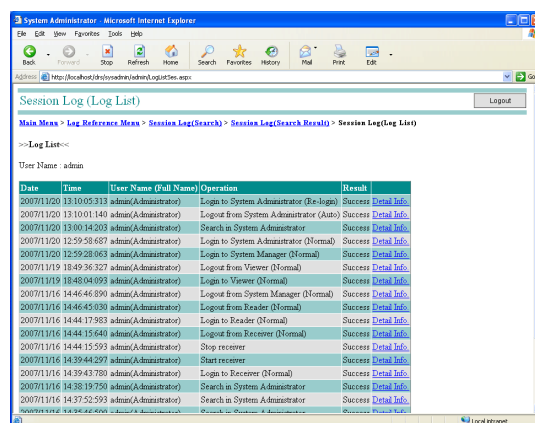
Session Log (Search) window

- 2** Search for a log.
Enter or select search conditions and click [Search].



Session Log (Search Result) window

- 3** Display the log.
Select the list and then click the [Show All Log] or [Show Log].



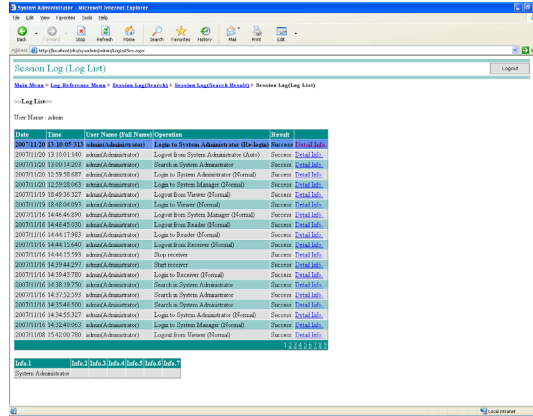
Session Log (Log List) window.



Page selection

To select a page of the list, click the page number at the lower right of the list.

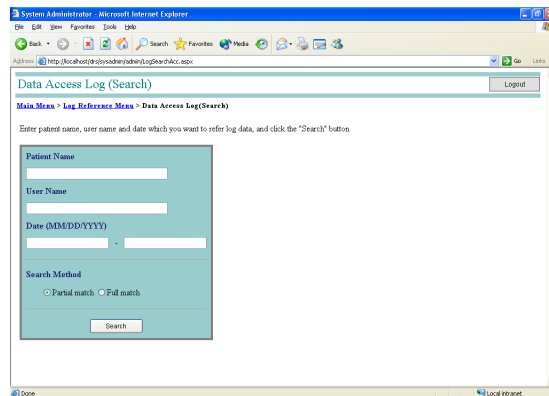
- 4 Display the detail information of the log.
Click the Detail Info of the target log.
Detail information is displayed at the bottom of the window.



3.9.2 Data Access Log

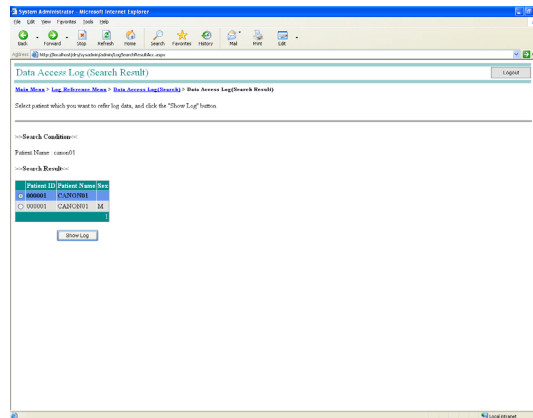
To view data access log(s):

- 1 Display the Data Access Log (Search) window.
In the Main Menu (Administrator) window, click [Log Reference] > [Data Access Log].



Data Access Log (Search) window

- 2 Search for a log.
Enter or select search conditions and click [Search].



Data Access Log (Search Result) window

- 3 Display the log.
Select the list and then click the [Show All Log] or [Show Log].

Date	Time	User Name (Full Name)	Patient ID	Patient Name	Study Data Series No.	Image No.	Operation	Branch	Action	
2007/11/08	15:41:32:50	akasa@akasa.ac.jp	000001	CNS0001	20071026	2	1	View image	Success	Detail Log
2007/11/08	15:41:29:27	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/11/08	15:40:18:27	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/11/01	15:44:35:07	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/11/01	15:44:33:47	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/11/01	14:47:44:57	akasa@akasa.ac.jp	000001	CNS0001	20071026			Input report	Failure	Detail Log
2007/11/01	14:47:33:27	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/10/26	14:01:07:20	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/10/26	09:40:04:37	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/10/26	17:25:23:13	akasa@akasa.ac.jp	000001	CNS0001	20071026			Input report	Failure	Detail Log
2007/10/26	17:25:20:20	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/10/26	17:40:39:27	akasa@akasa.ac.jp	000001	CNS0001	20071024			Input report	Failure	Detail Log
2007/10/26	17:40:38:10	akasa@akasa.ac.jp	000001	CNS0001	20071024	1	1	View image	Success	Detail Log
2007/10/26	17:40:11:27	akasa@akasa.ac.jp	000001	CNS0001	20071026	4	1	View image	Success	Detail Log
2007/10/26	17:40:10:70	akasa@akasa.ac.jp	000001	CNS0001	20071026	3	1	View image	Success	Detail Log
2007/10/26	17:40:10:27	akasa@akasa.ac.jp	000001	CNS0001	20071026	2	1	View image	Success	Detail Log
2007/10/26	17:40:09:47	akasa@akasa.ac.jp	000001	CNS0001	20071026	1	1	View image	Success	Detail Log
2007/10/26	10:09:55:47	akasa@akasa.ac.jp	000001	CNS0001	20071026	4	1	View image	Success	Detail Log
2007/10/26	10:09:57:50	akasa@akasa.ac.jp	000001	CNS0001	20071026	3	1	View image	Success	Detail Log
2007/10/26	10:09:57:34	akasa@akasa.ac.jp	000001	CNS0001	20071026	2	1	View image	Success	Detail Log

Data Access Log (Log List) window

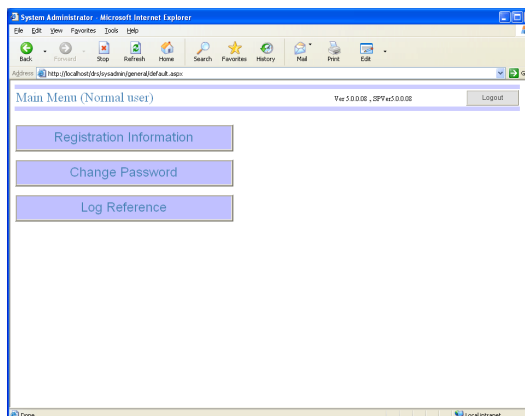


Page selection

To select a page of the list, click the page number at the lower right of the list.

3.10 Normal User Page

Use [Normal User] to start the System Administrator, and then open the Main Menu (Normal User) window.

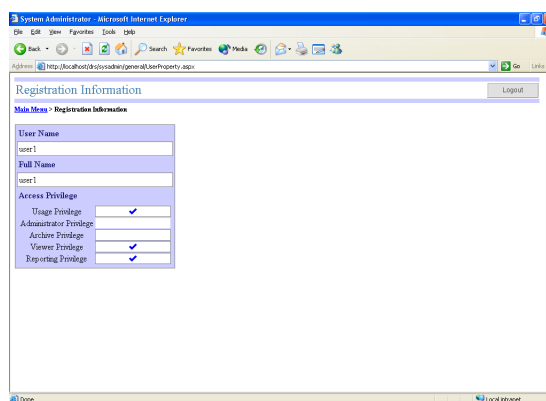


Main Menu (Normal User) window

3.10.1 Registration Information

To verify the registration information of the user who has logged in:

- 1 Display the Registration Information window.
In the Main Menu (Normal User) window, click [Registration Information].
Registered data cannot be changed.

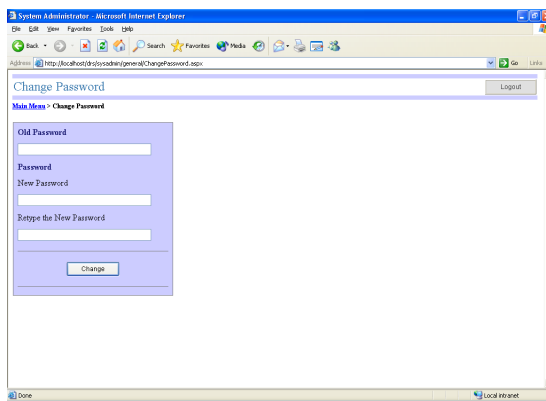


Registration Information window

3.10.2 Changing the password

To change the password:

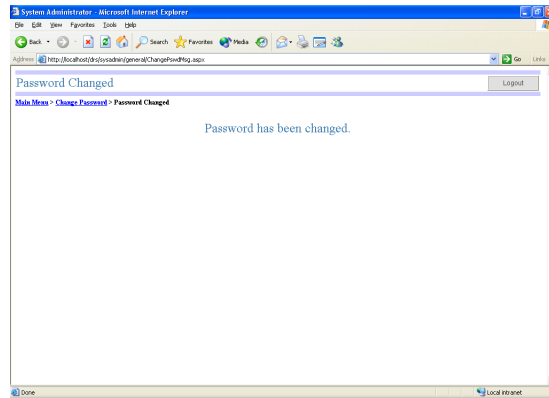
- 1 Display the Change Password window.
In the Main Menu (Normal User) window, click [Change Password].



Change Password window

- 2 Enter the old password.
The entered password is indicated by ● or *.
- 3 Enter the new password.
Enter a new password, and then enter it again for confirmation.
The entered password is indicated by ● or *.

- 4 Change the password.
Click [Change].
The message “Password has been changed” is displayed, and the password change is completed.



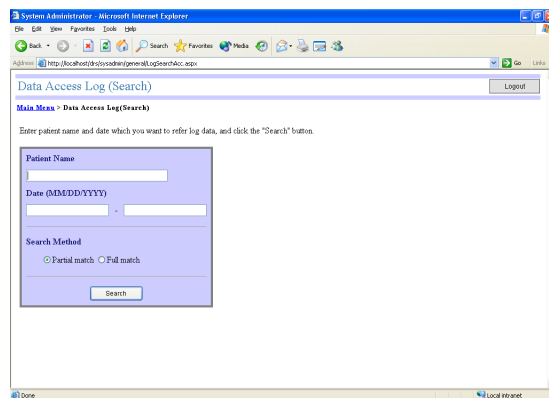
Display of Password Change Complete message

3.10.3 Log Reference

To view data access logs:

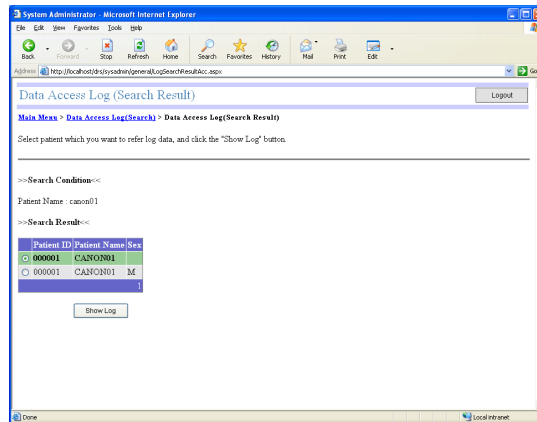
On the pages for normal users, only the logs of the user who has logged in can be viewed.

- 1 Open the Data Access Log (Search) window.
In the Main Menu (Normal User) window, click [Log Reference].



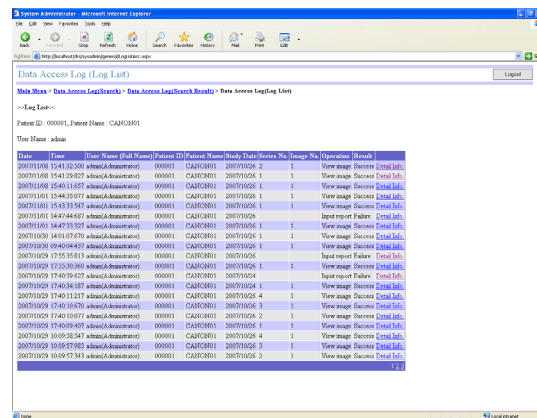
Data Access Log (Search) window

- 2 Search for a log.
Enter or select search conditions and click [Search].



Data Access Log (Search Result) window

- 3 Display the log.
Select the list and then click the [Show All Log] or [Show Log].

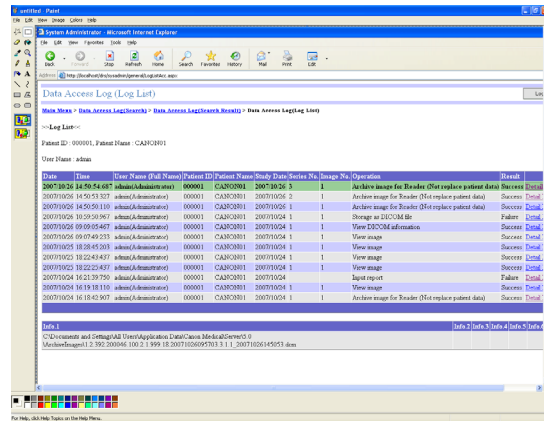


Data Access Log (Log List) window

Page selection

To select a page of the list, click the page number at the lower right of the list.

- 4 Display the detail information of the log.
 Click the Detail Info of the target log.
 Detail information is displayed at the bottom of the window.



Data Access Log (Log List) window

4. Storage Administrator

The Storage Administrator sets the online folder where read or received images are saved and the backup folder where images are backed up.

4.1 Storage Administrator Window

4.1.1 Opening the Storage Administrator window

Note: The Storage Administrator cannot be executed while the DICOM Protocol Image Receiver or DICOM Image File Reader is running.

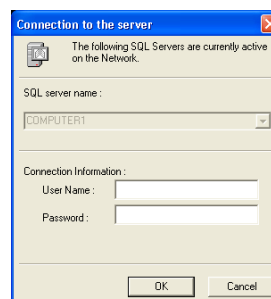
Click [Storage Administrator] in the DR System Manager to open the Storage Administrator window directly.

Note: When using Windows Vista, the administrator's authority is required to start the Storage Administrator.

1 Open the Connection to the server window.

Click the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [Storage Administrator]



Connection to the Server window

2 Enter the user name and password.

The entered password is indicated by *.

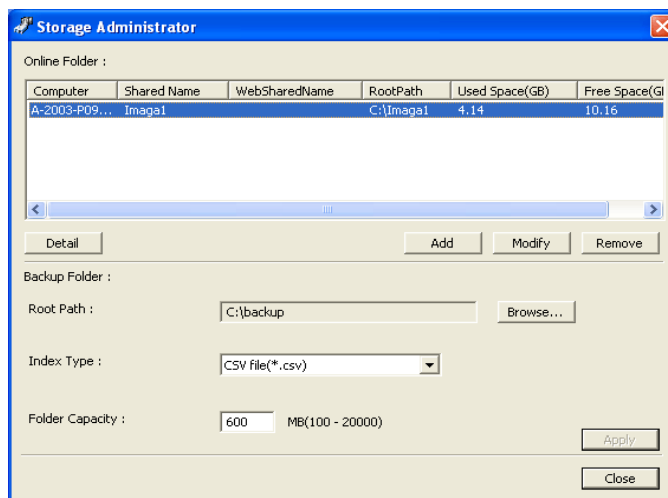


Passwords


Be extremely careful that you do not forget your password or tell it to others.

Continued on the following page >>

- 3 Open the Storage Administrator window.
Click [OK] in the Connection to the server window.



Storage Administrator window

 If the System Information window is open
The System Information window (→ 8P.) may open depending on the System Settings (→ 24P.).
In this case, confirm the information displayed, and then click [OK].

4.1.2 Closing the Storage Administrator window

Click [Close] in the Storage Administrator window.

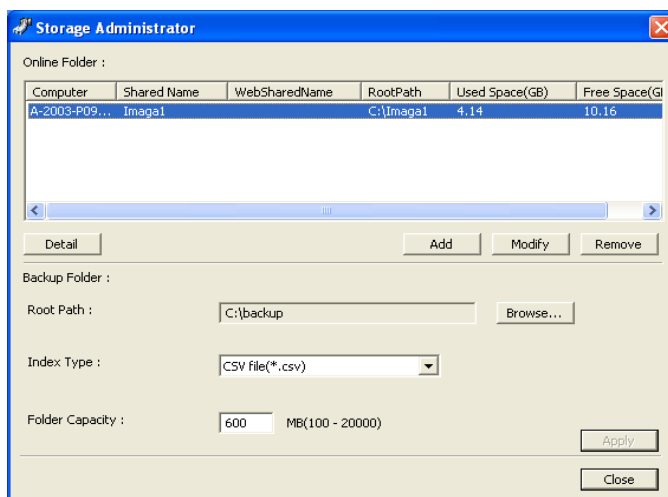
4.2 Setting the online folder

This section describes how to set the folder where images are saved.

Online (→ 91P.) images received over the network or read by the file reader are saved to this folder.

4.2.1 Adding online folders

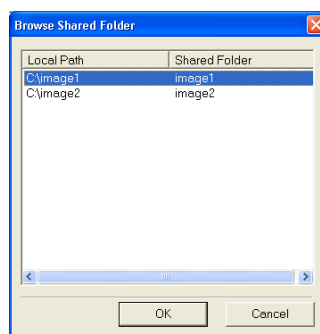
- 1 Open the Storage Administrator window.



Storage Administrator window

- 2 Open the Browse Shared Folder window.
Click [Add].

The local path to the shared folder directly under the root folder of the computer and the shared folder name are displayed.



Browse Shared Folder window



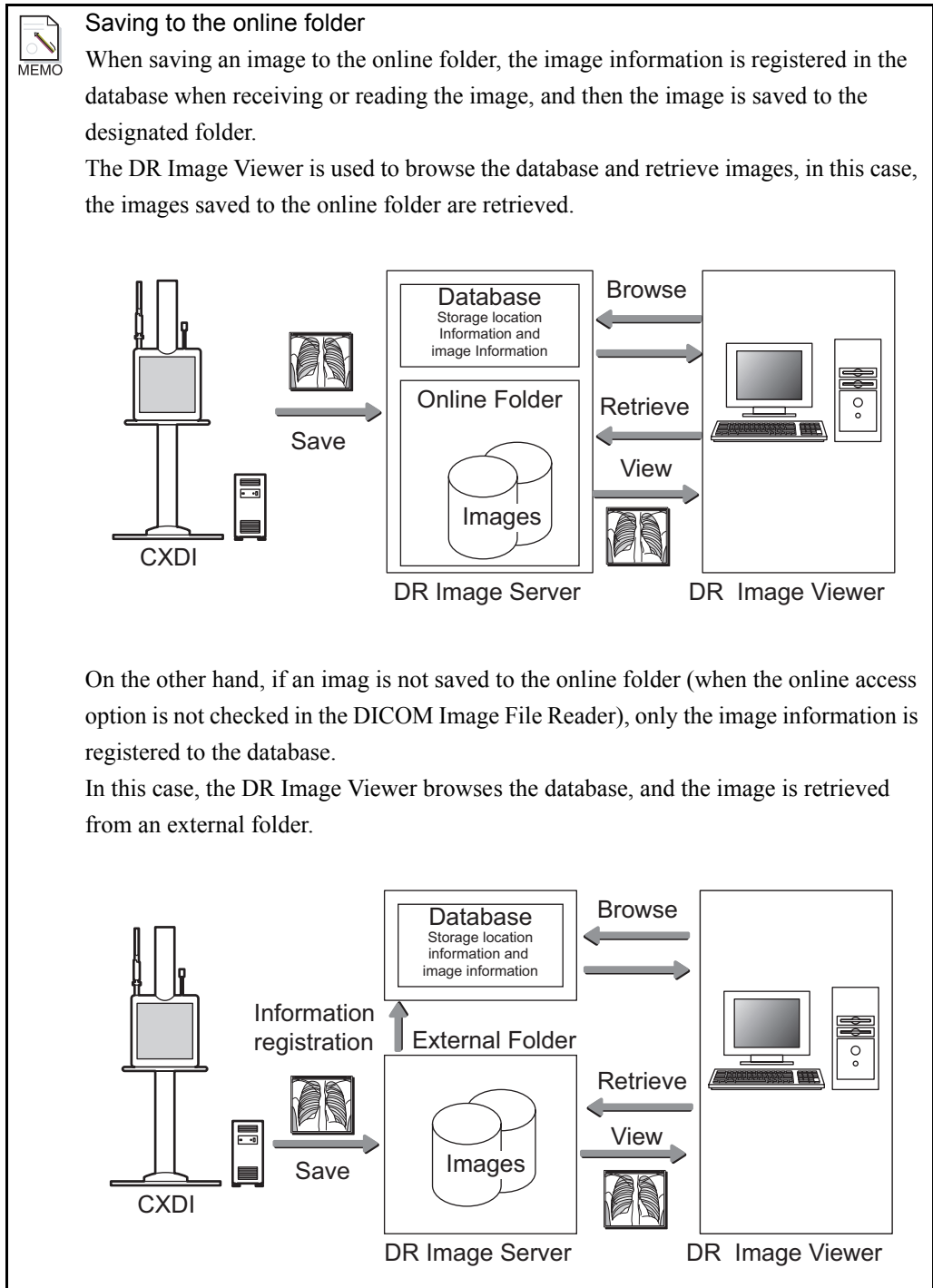
Online folders

Only shared folders directly under the root folder can be set as online folders. To set the shared folder, click [Enable Access] on the Sharing tab in the Properties window, and assign **Read** access right to the required users in **Enable Shared Access**.

For details about the settings, follow the instructions of your network administrator.

Continued on the following page >>

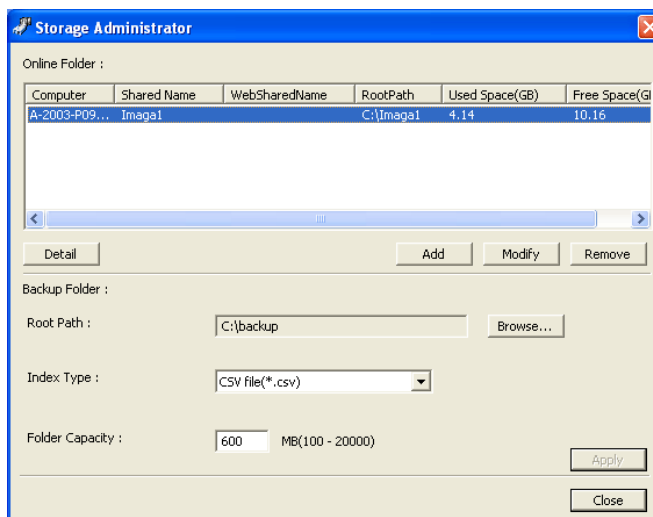
- 3 Select the online folder.
Click the folder to add to the online folders.
- 4 Add the online folder.
Click [OK].
The online folder is added.



4.2.2 Changing online folder settings

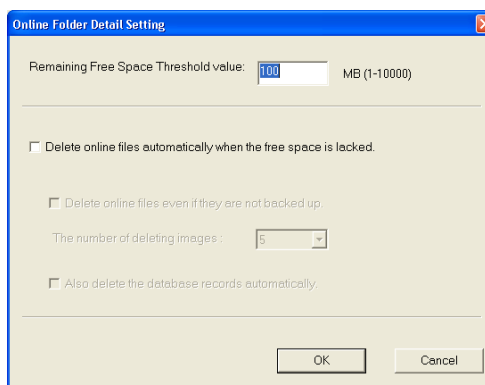
Note: To change the online folder settings, check the System Administrator item on the Setting Policy (→ 31P.) window.

- 1 Open the Storage Administrator window.



Storage Administrator window

- 2 Select the online folder.
Click the online folder where the settings will be changed.
- 3 Open the Online Folder Detail Setting window.
Click [Detail].




Online Folder Detail Setting window

4 Make the online folder advanced settings.

Note: If you do not back up the images to a backup folder (→ 79P.), do not check “Delete online files automatically when the free space is lacked.”

Otherwise, you will be unable to recover deleted images.

In the state immediately after installation, the options except for the Remaining Free Space Threshold value, cannot be set unless the Setting Policy (→ 31P.) is changed.

Display	Function
Remaining Free Space Threshold value	Enter the amount of space in MB units reserved as work space for the computer.
Delete online files automatically when the free space is lacked.	When this option is checked, online files are deleted in order of registration date (the oldest file is deleted first) when images are saved and the amount of free disk space is less than the remaining free space. If the option is unchecked, images cannot be saved when the amount of free disk space becomes less than the remaining free space.
Delete online files even if they are not backed up.	This can be set only when the above setting “Delete online files automatically when the free space is lacked.” is checked. Normally, images saved to the online folder cannot be deleted unless there is a copy in the backup folder. When this option is checked, images that do not have copies in the backup folder can be deleted.
The number of deleting images	This can be set only when the above setting “Delete online files automatically when the free space is lacked.” is checked. This selects the number of images that can be deleted in one operation when deleting the online files. Click  , and then select from 5, 10, and 15.
Also delete the database records automatically.	This can be set only when the above setting “Delete online files automatically when the free space is lacked.” is checked. If this option is checked, deleting an image also deletes the image registration data from the database. If this option is unchecked, the database data will not be deleted even if an image is deleted.

5 Change the settings.

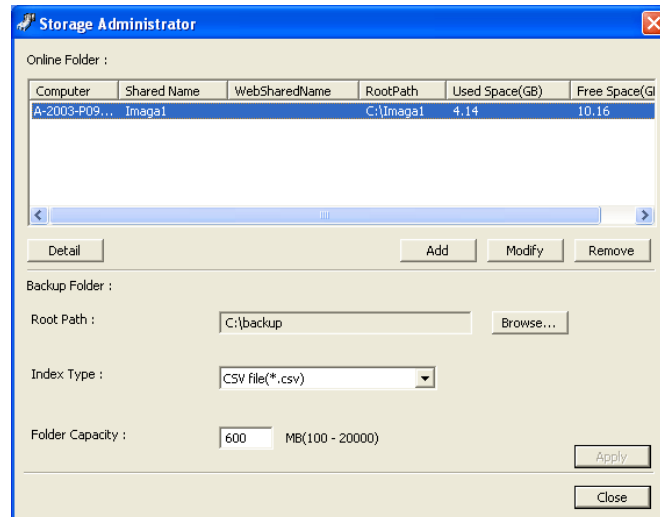
Click [OK].

4.2.3 Changing online folders

To change the online folder currently in use to another folder:

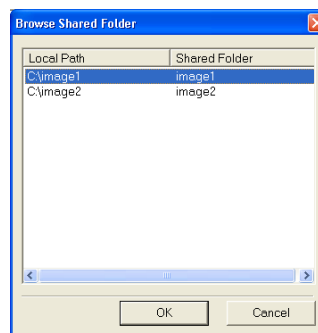
Before proceeding with this operation, delete the shared settings for the online folder currently in use.

- 1 Open the Storage Administrator window.



Storage Administrator window

- 2 Select the online folder.
Click the online folder that you want to change.
- 3 Open the Browse Shared Folder window.
Click [Modify].
The local path to the shared folder directly under the root folder of the computer and the shared folder name are displayed.



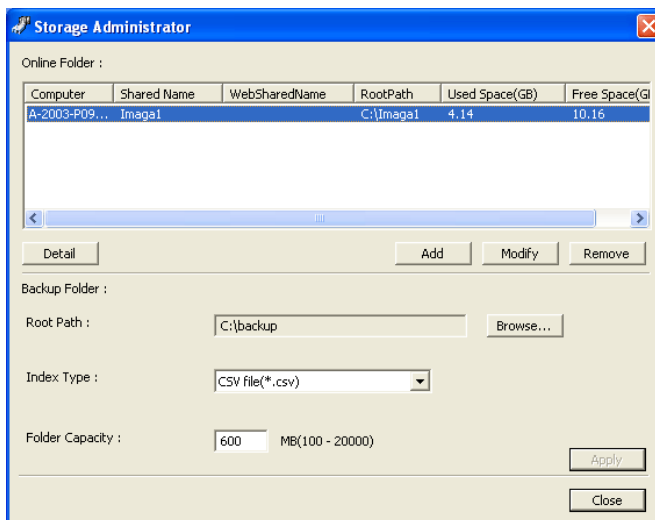
Browse Shared Folder window

- 4 Select the online folder.
Click the folder you wish to use as the new online folder.
- 5 Change the online folder.
Click [OK].
The online folder selected in step 2 is changed to the online folder selected in step 4.

4.2.4 Deleting online folders


To delete the online folder before operation:
The online folder cannot be deleted once an image is saved to it.

- 1 Open the Storage Administrator window.



Storage Administrator window

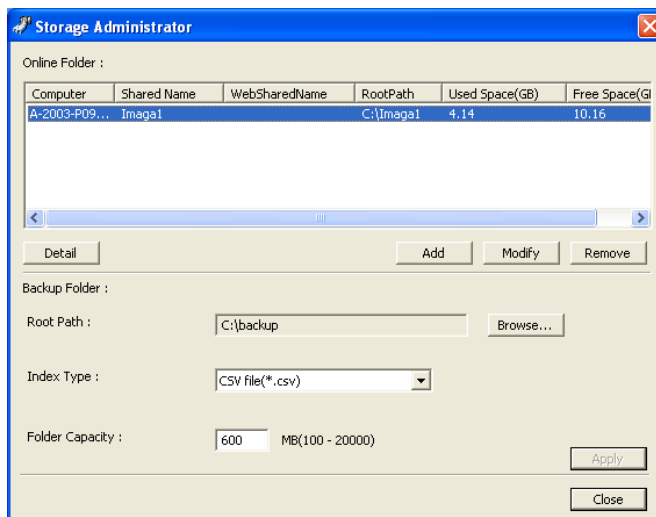
- 2 Select the online folder.
Click the online folder that you want to delete.
- 3 Delete the online folder.
Click [Delete].
The message “This online folder will be removed. Do you want to continue?” is displayed. Click [Yes].

 **Deleting an online folder that is already in use**
If you select an online folder that is already in use and click [Yes], the message “On-line folder cannot be changed because it has already been used” is displayed to indicate that you cannot delete the folder.

4.3 Setting the backup folder

To set a backup folder where copies of images are saved:

- 1 Open the Storage Administrator window.



Storage Administrator window

- 2 Set the backup folder.

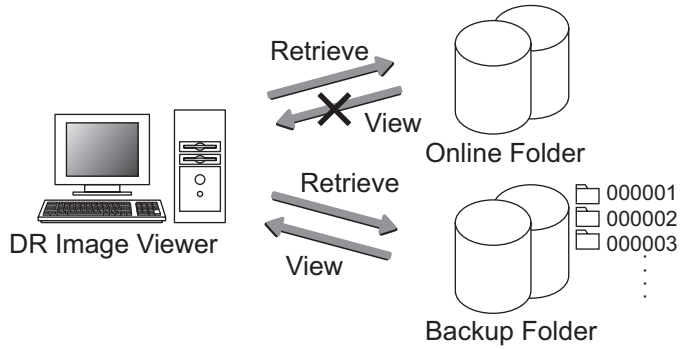
Display	Function
Root Path	This folder stores copies of images saved in the online folder. Click [Browse...] to open the Browse for Folder window, and then set the root path.
Index Type	Click ▾, and then select CSV file (*.csv), HTML file (*.htm), or Microsoft Access (*.mdb) from the format list.
Folder Capacity	Enter the maximum size in MB units based on the size of the media used for backup. Sub-folders are created with the entered value as the maximum storage capacity.

- 3 Save the setting.
Click [Apply].

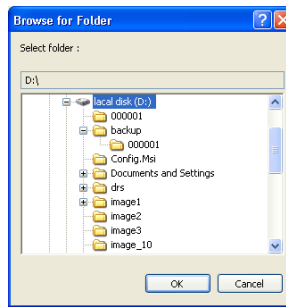


Using the backup folder

The DR Image Viewer can retrieve the image from the backup folder when images cannot be retrieved from the online folder due to an error or other problems. Media number folders (nnnnnn: 6-digit numbers) are automatically created under the backup folder for storing images (see figure below).

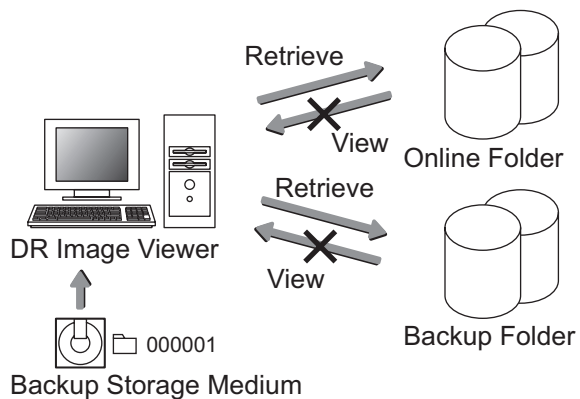


If the image cannot be retrieved from either the online folder or the backup folder, the Browse for Folder window is displayed asking you to specify the folder to browse in. (Only when the backup folder is set.)



Browse for Folder window

In this case, the images can be retrieved if the backup folder was saved to a storage medium.



5. Receiving Images (DICOM-Protocol Image Receiver)

5.1 What is the DICOM-Protocol Image Receiver?

The DICOM-Protocol Image Receiver has a server function for receiving and saving images that are sent by DICOM protocol.

The received images are saved to the online folder set by the Storage Administrator (→ 71P.).

This chapter describes how to set the server functions of the DICOM-Protocol Image Receiver.

Description	Relevant chapter and page
Opening the DICOM-Protocol Image Receiver window	5.2 DICOM-Protocol Image Receiver window (→ 82P.)
Starting and stopping the Receiver Service	5.3 Starting and stopping the Receiver Service (→ 84P.)
Adding and deleting a Receiver	5.4 Adding and deleting a Receiver (→ 85P.)

5.2 DICOM-Protocol Image Receiver window

5.2.1 Opening the DICOM-Protocol Image Receiver window

Note: The DICOM-Protocol Image Receiver can be used only by the user who has checked Archive Privilege in the Access Privilege field (→ 15P.).
The DICOM-Protocol image reception function cannot be executed during execution of the Storage Administrator.

The DICOM Protocol Image Receiver window can be opened directly by clicking [DICOM Protocol Image Receiver] in the DR System Manager.



Registering to Startup Menu

Make the following settings to have the DICOM-Protocol Image Receiver window open automatically when the computer is started.

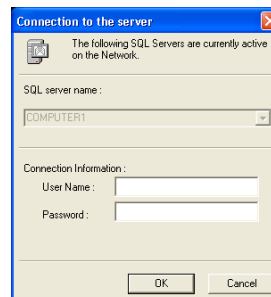
- Under Setting Policy (→ 30P.), check Permit Starting DICOM-Protocol Image Receiver without login.
- Copy the DICOM-Protocol Receiver shortcut from the Start menu to the [Startup] folder.
- Check Archive Privilege for the initially registered user (user name: admin).

1

Open the Connection to the server window.

Click the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [DICOM-Protocol Image Receiver]



Connection to the Server window

2

Enter the user name and password.

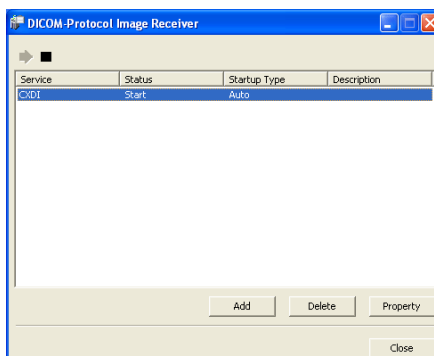
The entered password is indicated by *.



Passwords

Be extremely careful that you do not forget your password or tell it to others.

- 3** Opening the DICOM-Protocol Image Receiver window
Click [OK] in the Connection to the server window.



DICOM-Protocol Image Receiver window



If the System Information window is open

The System Information window (→ 8P.) may open depending on the system settings (→ 24P.).


In this case, confirm the information displayed, and then click [OK].

5.2.2 Closing the DICOM-Protocol Image Receiver window

Click [Close] on the DICOM-Protocol Image Receiver window.

Even when the window is closed, the DICOM-Protocol Image Receiver operation is not terminated.

5.2.3 Quitting the DICOM-Protocol Image Receiver

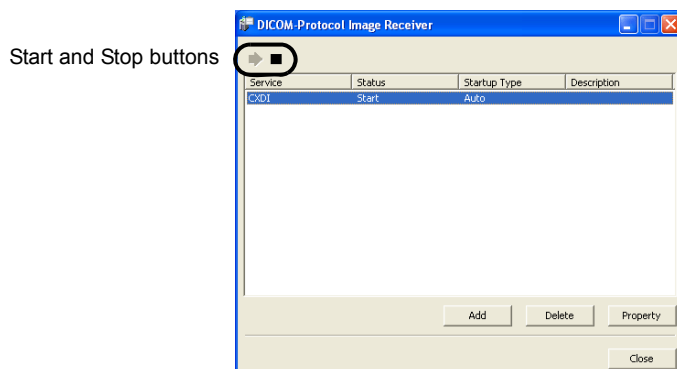
Right-click the DICOM-Protocol Image Receiver icon  displayed on the taskbar, and click [Exit].

If you click [Exit] for a receiver for which the Status is displayed as Start, a window opens displaying the warning “This will close the DICOM-Protocol Image Receiver window and stop all image receivers”.

Click [OK] to stop all receivers.

5.3 Starting and stopping the Receiver Service

Image receiver service is started and stopped by the Start (▶) and Stop (■) button. If you do not wish to display it while the receiver service is in progress, close the DICOM-Protocol Image Receiver window.



DICOM-Protocol Image Receiver window

5.3.1 Starting receiver service

If **Startup Type** is set to **Auto** in the receiver settings, the receiver service starts automatically when the DICOM-Protocol Image Receiver window is opened.

If it is set to **Manual**, click the service name, and then click the Start (▶) button. The **Status** changes to **Start**, and receiver service starts.

5.3.2 Stopping receiver service

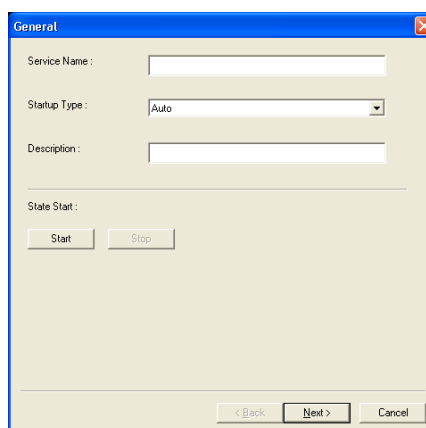
Click the service name, and then click the Stop (■) button. The **Status** changes to **Stop**, and receiver service stops.

5.4 Adding and deleting a Receiver

5.4.1 Adding a Receiver

Note: To set the ID matching and SOP Instance UID matching, check DICOM-Protocol Image Receiver and DICOM-Image-File Reader setting option under setting option under Setting Policy (→ 30P.).

- 1 Open the General window.
Click [Add] in the DICOM-Protocol Image Receiver window.



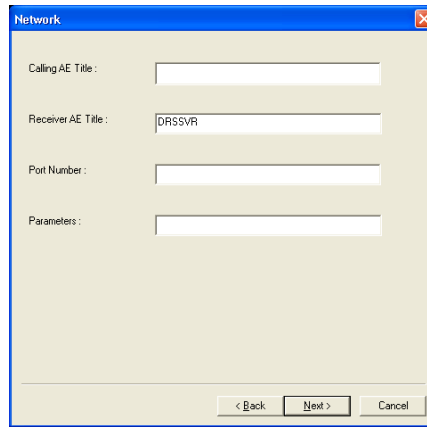
General window

- 2 Set parameters in the General window.
Set parameters and click [Next].

Parameter		Function
Service Name		The Service Name must be no more than 50 characters long.
Startup Type	Auto	Receiver service starts automatically when the DICOM-Protocol Image Receiver window is opened.
	Manual	Receiver service is stopped when the DICOM-Protocol Image Receiver window is opened, and it is started by clicking the Start button (▶).
	Disable	This disables the receiver.
Description		The Description must be no more than 50 characters long.
State Start	Start	The receiver service is started by clicking this button.
	Stop	The receiver service is stopped by clicking this button.

Continued on the following page >>

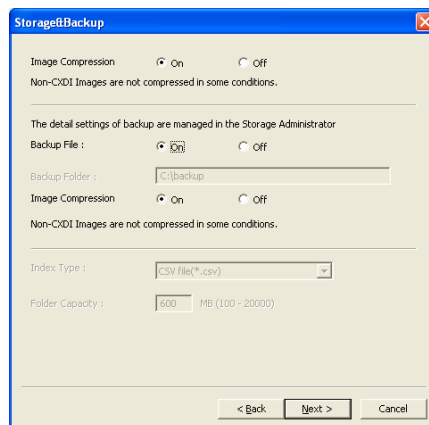
- 3** Set parameters in the Network window.
Set parameters and click [Next].



Network window

Parameter	Function
Calling AE Title	The Calling AE Title must be no more than 16 characters long. If nothing is entered, any calling AE title is received.
Receiver AE Title	The Receiver AE Title must be no more than 16 characters long.
Port Number	The Port Number must be a value between 1 and 65,535.
Parameters	Enter the parameters.

- 4** Set the storage and backup methods.
Set parameters and click [Next].



Storage & Backup window

Parameter	Function
Image Compression	If On is selected, the images to be stored in the online file are compressed.

Parameter	Function
Backup File	When On is selected, the read images are also stored in the backup folder. If images are saved to the backup folder, the images can be viewed in the DR Image Viewer even if they are deleted from the online folder.
Backup Folder	The folder set in 4.3 Setting the backup folder (→ 79P.) is displayed. The backup folder cannot be changed in this window.
Image Compression	When On is selected, the images to be saved in the backup folder are compressed.
Index Type	The settings made in 4.3 Setting the backup folder (→ 79P.) are displayed.
Folder Capacity	The setting cannot be changed in this window.



Backups

When saving images, it is recommended that you save the entire subfolders to more than one storage medium in addition to the backup folder.

For information about backing up images to offline media, see 8. Copying Images (Image Backup Tool) (→ 119P.).



Warning messages

If Off is selected for Image Compression, a window opens and the following message is displayed: “The compression method of this system is lossless compression. The compression can save space on disk.” Click [OK] to close the window.

5 Set parameters in the ID Matching window.

Set parameters and click [Next].

This parameter can be set only when editing is enabled in Setting Policy (→ 30P.).

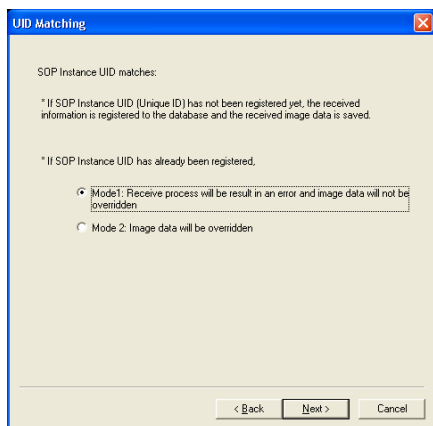
ID Matching window

Parameter	Function
Essential information for registration (Empty value is not permitted)	If the received image is not provided with the checked information, an error is returned to a sender and the image is not stored.
Use additional information other than Patient ID for confirmation ("Checked" is recommended)	If the patient ID of the received image has already been registered in the database, the checked information on the image is compared with the one in the database. The operation after comparison is set in next step.

6 Open the UID Matching window.

Select a mode and click [Next].

This selects the operation when the SOP Instance UID of the received image is already registered in the database, and all of the Additional information to be used for confirmation set in step 5 matches.

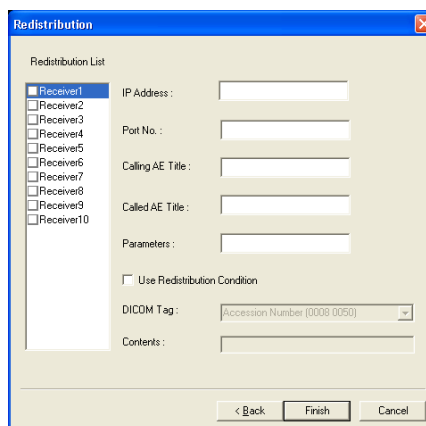


UID Matching window

Mode	Function
Mode 1	An error is returned to a sender, and the image is not overwritten.
Mode 2	The image is overwritten.

7 Set the Redistribution.

Specify these settings if you wish to send received images to a different server. Check the receiver to be used for sending and enter the various parameters. Images can be sent to four receivers at the same time.



Redistribution window

Parameter	Function
IP Address	Enter the IP address of the destination server.
Port No.	Enter a value between 1 and 65,535.
Calling AE Title	The Calling AE Title must be no more than 16 characters long.
Called AE Title	The Called AE Title must be no more than 16 characters long.
Parameter	Enter the parameters.
Use Redistribution Condition	Check this to redistribute only images containing the character string specified as the DICOM tag.
DICOM Tag	Click ▼ and select an item from the dropdown list.
Contents	Enter a character string contained in the DICOM tag. The characters ? (any single character) and * (any character string) may be used as wildcards.



Contents parameter

- The images are searched for character strings that match exactly the character string input for the Contents parameter.
- Inputting * only will match all received images. (This includes images for which the selected DICOM tab value is empty.)
- Inputting *? only will match images for which the DICOM tab value is not empty.

8 Add the receiver.

Click [Finish].

The receiver is added to the DICOM-Protocol Image Receiver window.

5.4.2 Deleting a DICOM-Protocol Image Receiver

- 1** Select the receiver to be deleted.
Click the receiver to delete in the DICOM-Protocol Image Receiver window.
- 2** Delete the receiver.
Click [Delete].
A warning message is displayed. Click [OK].

5.4.3 Changing the DICOM-Protocol Image Receiver settings

Receivers created for Query/Retrieve do not allow their settings to be changed.

- 1** Select the receiver whose settings you want to change.
Click the receiver whose settings you want to change in the DICOM-Protocol Image Receiver window.
- 2** Open the General window.
Click [Property].
- 3** Change the receiver settings.
Refer to 5.4.1 Adding a Receiver (→ 85P.), and change the settings.

6. Reading Images (DICOM Image File Reader)

6.1 What is the DICOM Image File Reader?

The DICOM Image File Reader has functions that can save images stored in a recording medium or on a shared network drive to an online folder or register their information to a database.

Images are read based on the settings in a previously prepared scenario. Up to four scenarios may be prepared.

This section describes the procedure for reading images and shows examples of how to create scenarios (the procedure for saving images to an online folder from a recording medium and for registering information on image data stored on a shared drive to a database).

Description	Relevant chapter and page
Opening the DICOM Image File Reader window	6.2 DICOM-Image-File Reader window (→ 92P.)
Reading images	6.3 Reading captured images (→ 94P.)
Creating a scenario for reading images from a recording medium	6.4 Creating a scenario example 1 (reading from a recording medium) (→ 97P.)
Creating a scenario for reading images from a shared drive	6.5 Creating a scenario example 2 (reading from a shared drive) (→ 103P.)
Modifying a scenario	6.6 Modifying scenarios (→ 107P.)
Editing a file for replacing patient information	6.7.3 Editing the ccrhis.his file (→ 110P.)

6.2 DICOM-Image-File Reader window

6.2.1 Opening the DICOM Image File Reader window

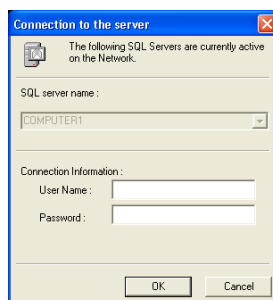
Note: The DICOM Image File Reader can be used only by the user who has checked Archive Privilege in the Access Privilege field (→ 15P).
The DICOM-Image-File Reader cannot be executed during execution of the Storage Administrator.

The DICOM Image File Reader window can be opened directly by clicking [DICOM Image File Reader] in the DR System Manager.

1 Open the Connection to the server window.

Click the commands from the taskbar in the following order.


[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [DICOM-Image-File Reader]



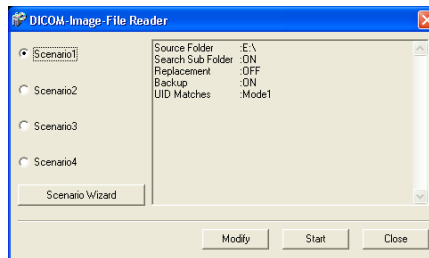
Connection to the Server window

2 Enter the user name and password.

The entered password is indicated by *.

 MEMO	<p>Passwords Be extremely careful that you do not forget your password or tell it to others.</p>
---	---

- 3 Open the DICOM-Image-File Reader window.
Click [OK] in the Connection to the server window.



DICOM-Image-File Reader window



If the System Information window is open

The System Information window (→ 8P.) may open depending on the system settings (→ 24P.).

In this case, confirm the information displayed, and then click [OK].

6.2.2 Closing the DICOM Image File Reader window

Click [Close] in the DICOM Image File Reader window.

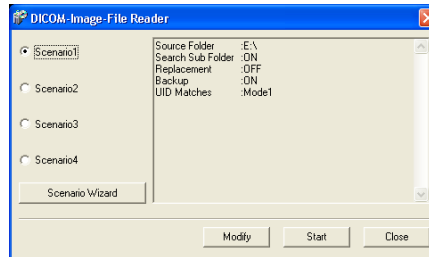
6.3 Reading captured images

Images are read based on the settings in the scenario.

Depending on the settings, steps 3 through 5 may be required to execute the operation.

1 Select the scenario.

Select a scenario from among Scenario 1 to Scenario 4.



DICOM-Image-File Reader window

2 Start the scenario.

Click [Start].

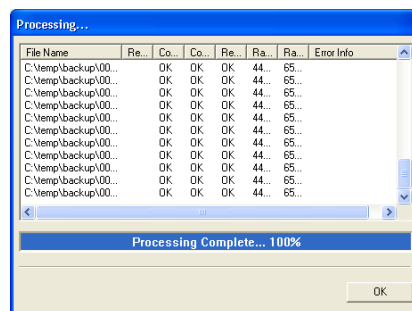
The Processing window opens, and the processing progress is displayed.

(Depending on the settings, the window may be displayed after one or more of steps 3 through 5 has been performed.)

When processing is completed,

“Processing Complete... 100%”

is displayed. Click [OK] to close the window.

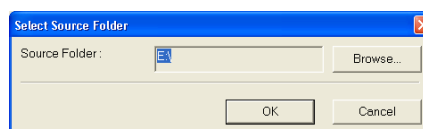


Processing window

3 Select the source folder.

If “Select folder every time the scenario starts” is checked, the Select Source Folder window is displayed.

Select the source folder, and then click [OK].



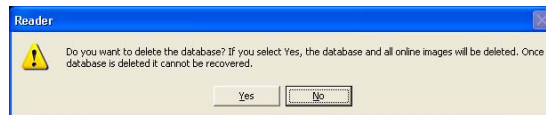
Select Source Folder Window

4 Choose to delete the database.

If “Ask to erase database every time the scenario starts” is checked, a window is displayed with the message

“Do you want to delete the database?” If you select Yes, the database and all online images will be deleted. Once database is deleted it cannot be recovered.” is displayed.

Click [Yes] to delete the database or [No] to cancel without deleting.



Note: Be careful that clicking [Yes] will delete all patient data in the database and all files (including files that are not image files) in the online folder before the scenario starts.

It should be noted that database cannot be restored unless there is a backup folder.

5 Test the replacement operation.

If Replacement is set to On, a window opens displaying the warning

“The test of both replacement and matching result is required for registering images on this setting. Do you want to continue?”

Click [OK]. A window opens, the test is performed, and a list of results is displayed.

You are ready to begin reading images if OK is displayed for all patients under Result. Click [Start].


If Failure is displayed for any patient, modify the patient information file as described in 6.7.3 Editing the ccrhis.his file (→ 110P.).

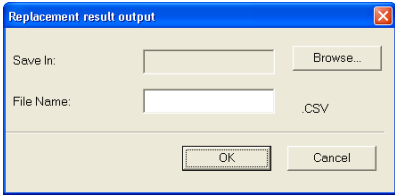
The screenshot shows a window titled 'Replacement and Matching Test Progress' containing a table with the following data:

Result	Replac...	Matching	Detail	Search ...	Patient's ...	Patient ID	Patient's ...	Patient's ...	Patient's ...
OK	OK	OK		000001	CANON ...	000001	19751025	M	023Y
OK	OK	OK		000002	CANON ...	000002	19751125	F	023Y
OK	OK	OK		000003	CANON ...	000003	19751125	O	

At the bottom of the window are three buttons: 'Save', 'Start', and 'Cancel'.

Example of Test Results

 **Storing modified patient information**
Click [Save] to save the modified patient information as a CSV file.
The Replacement result output window appears. Specify the **Save In** location and **File Name**, and then click [OK].



Replacement result output

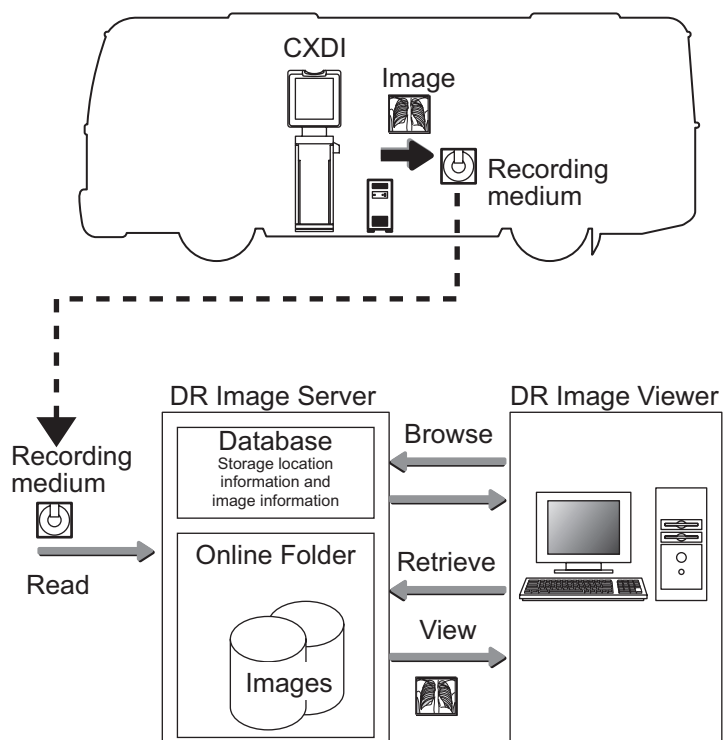
6.4 Creating a scenario example 1 (reading from a recording medium)

6.4.1 Overview

This section describes how to read images from magneto-optical disks and other recording medium and then save them to an online folder without connecting the DR Image Server to the network.

The DR Image Server (DICOM Image File Reader) registers in the database information about the images on the recording medium and then saves the images to the online folder.

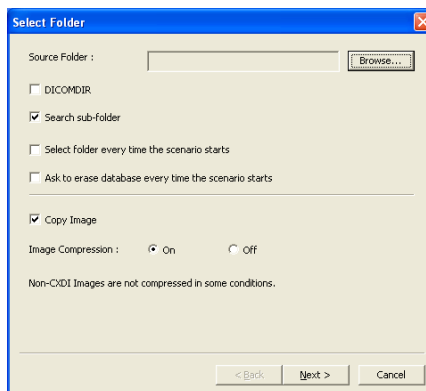
The DR Image Viewer is used to browse the database and to retrieve images saved in the online folder.



6.4.2 Creating a scenario (example using a recording medium)

Note: If making settings in the Select Folder, ID Matching, or SOP Instance UID Matching window, check DICOM-Protocol Image Receiver and DICOM-Image-File Reader under Setting Policy (→ 30P.).

- 1 Open the Select Folder window.
In the DICOM Image File Reader window select a scenario, and then click [Scenario Wizard].



Select Folder window

- 2 Open the Select Folder window.
Set parameters and click [Next].
Be sure to always check Copy Image.

Note: Check “Ask to erase database every time the scenario starts” if you wish to rebuild the database after each time data is read.

Parameter	Function
Source Folder	Click [Browse...] to open the Select Folder window, and select the folder or drive where image files are stored. When selecting a folder or a drive having been recorded using the DICOMDIR format, select the folder or drive where DICOMDIR files are stored.
DICOMDIR	Check this option when the read destination has been recorded using the DICOMDIR format.
Search sub-folder	If this option is checked, images in subfolders under the selected folder are also searched. When DICOMDIR is checked, Search sub-folder is unchecked, and no selection is possible.
Select folder every time the scenario starts	If this option is checked, the Select Source Folder window is displayed at the start of the scenario, and the source folder can be changed.
Ask to erase database every time the scenario starts	If this option is checked, a window is displayed for confirming deletion of the database currently being built at the start of the scenario. This parameter can be set only when editing is enabled in Setting Policy (→ 30P.).

Parameter	Function
Copy Image	Be sure to check this option. If this option is checked, image will be saved to the online folder when the image is read. When this option is unchecked, the DR Image Viewer displays the image directly from the recording medium because image has not been saved in the online folder. When DICOMDIR is checked, Copy Image is unchecked, and no selection is possible.
Image Compression	If On is selected, the images to be stored in the online file are compressed.



Warning messages

If Off is selected for Image Compression, a window opens and the following message is displayed:

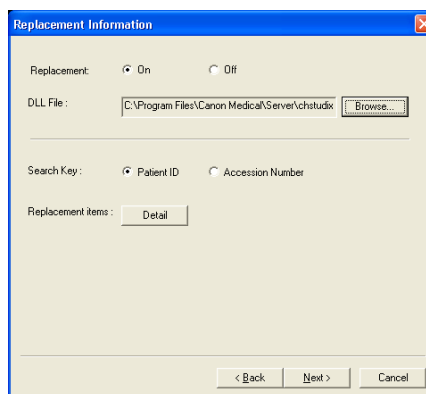
“The compression method of this system is lossless compression. The compression can save space on disk.”

3 Make the settings in the Replacement Information window.

Set parameters and click [Next].

The changes made to patient information associated with the images that have been read, based on parameters set in the Replacement Information window, are described below.

For details, see 6.7 Replacing patient data (→ 108P.).

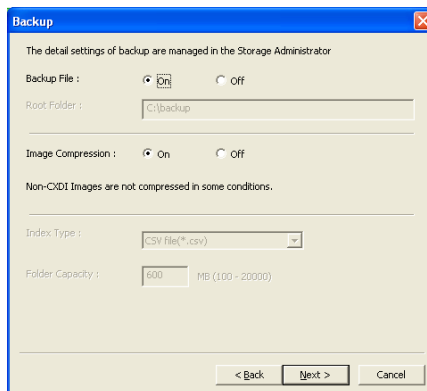


Replacement Information window

Parameter	Function
Replacement	If you select On, make the settings below.
DLL File	Click [Browse...], and then select the chstudix.dll file in the folder where the DR Image Server is installed.
Search Key	Select the Search key for the DICOM header from Patient ID or Access Number.
Replacement items	Click [Detail] to open the Replacement items window, and then check the item to be changed.


Continued on the following page >>

- 4** Set the parameters in the Backup window.
 If a backup folder is already set (→ 79P.), set the parameters, and then click [Next].



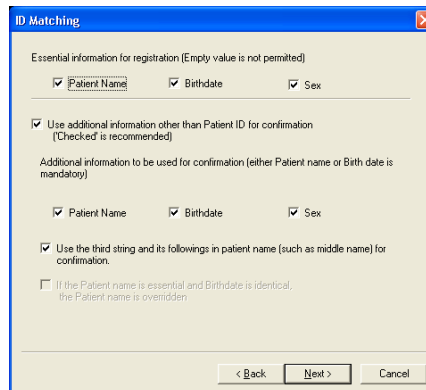
Backup window

Parameter	Function
Backup File	When On is selected, the read images are also stored in the backup folder. If images are saved to the backup folder, the images can be viewed in the DR Image Viewer even if they are deleted from the online folder.
Backup Folder	The folder set in 4.3 Setting the backup folder (→ 79P.) is displayed. The backup folder cannot be changed in this window.
Image Compression	When On is selected, the images stored in the backup folder are compressed.
Index Type	The settings made in 4.3 Setting the backup folder (→ 79P.) are displayed.
Folder Capacity	The setting cannot be changed in this window.



Backups
 When saving images, it is recommended that you save the entire subfolders to more than one storage medium in addition to the backup folder.
 For information about backing up images to offline media, see 8. Copying Images (Image Backup Tool) (→ 119P.).

- 5** Make the settings in the ID Matching window.
Set parameters and click [Next].

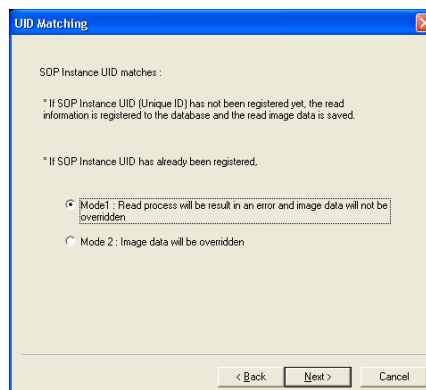


ID Matching window

Parameter	Function
Essential information for registration (Empty value is not permitted)	If the received image is not provided with the checked information, an error is returned to a sender and the image is not stored.
Use additional information other than Patient ID for confirmation ("Checked" is recommended)	If the patient ID of the received image has already been registered in the database, the checked information on the image is compared with the one in the database. The operation after comparison is set in step 6.

- 6** Open the UID Matching window.
Select a mode and click [Next].

This sets the operation when the SOP Instance UID of the received image is already registered in the database, and fully matched Additional information to be used for confirmation set in step 5.

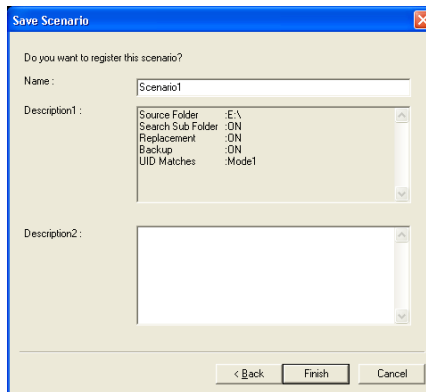


UID Matching window

Continued on the following page >>

Mode	Function
Mode 1	An error is returned, and the image is not overwritten.
Mode 2	The image is overwritten.


7 Make the settings in the Save Scenario window.
Set parameters.



Save Scenario window

Parameter	Function
Name	Enter a scenario name within 20 bytes.
Description 1	Settings of the created scenario are displayed.
Description 2	Enter detailed explanation of the created scenario.

8 Save the scenario.
Click [Finish].
If a scenario is already registered, the warning message is displayed.
Click [OK] to overwrite, and click [Cancel] to not save.



Registering to Startup Menu
To open the Connection to the server window when Windows is started, copy the shortcut for the DICOM-Image-File Reader in the Start menu and paste it under [Startup].
After logging in, the DICOM-Image-File Reader window is opened.

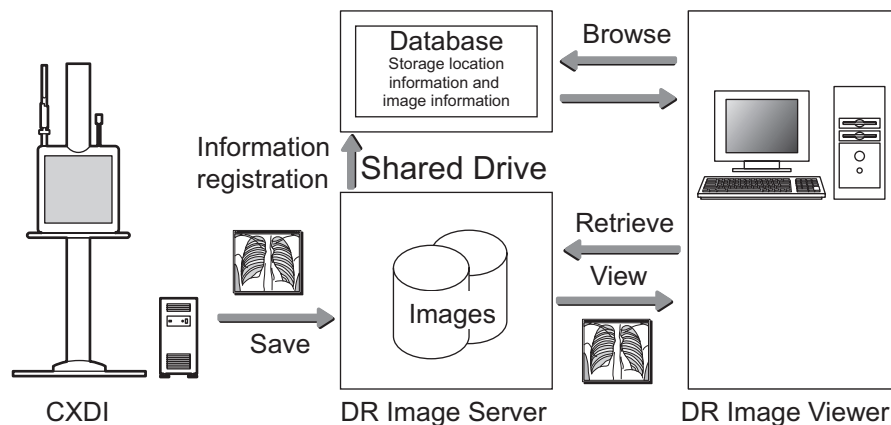
6.5 Creating a scenario example 2 (reading from a shared drive)

6.5.1 Overview

This section describes how to connect the DR Image Server to the network and read the images saved in the shared drive.

The DR Image Server (DICOM-Image-File Reader) registers the information of image data that is stored in the shared drive to the database without saving the images to the online folder.

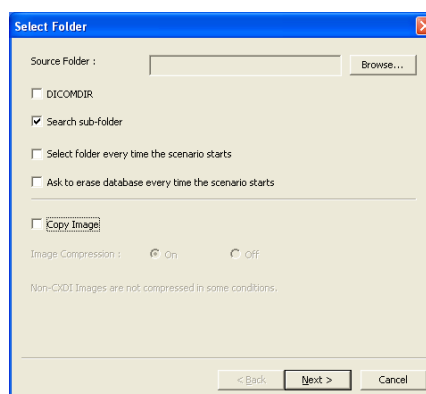
The DR Image Viewer browses the database, and then retrieves and displays images from the shared drive.



6.5.2 Creating a scenario (example using shared folder)

1 Open the Select Folder window.

In the DICOM Image File Reader window select a scenario, and then click [Scenario Wizard].



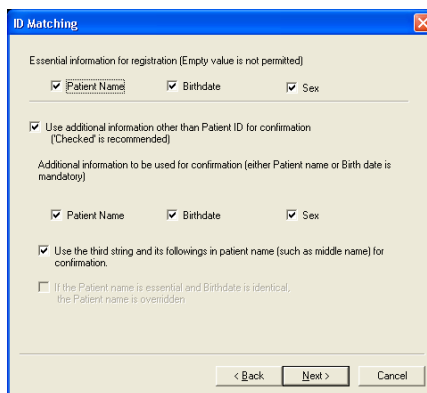
Select Folder window

- 2** Open the Select Folder window.
 Set parameters and click [Next]. Do NOT check Copy Image.

Note: Check “Ask to erase database every time the scenario starts” if you wish to rebuild the database after each time data is read.

Parameter	Function
Source Folder	Click [Browse...] to open the Select Folder window, and then select the shared drive.
DICOMDIR	Do not check this option. If it is checked, Copy Image is automatically checked, and the images will be saved to the online folder when they are read.
Search sub-folder	If this option is checked, images in subfolders under the selected folder are also searched.
Select folder every time the scenario starts	If this option is checked, the Select Source Folder window is displayed at the start of the scenario, and the source folder can be changed.
Ask to erase database every time the scenario starts	If this option is checked, a window is displayed for confirming deletion of the database currently being built at the start of the scenario. This parameter can be set only when Editing is enabled in Setting Policy (→ 30P.).
Copy Image	Do NOT check this option. Image will not be saved to the online folder when the image is read if this option is unchecked. If this option is checked, image will be saved to the online folder when the image is read.
Image Compression	This setting cannot be made unless the Copy Image is checked.

- 3** Make the settings in the ID Matching window.
 Set parameters and click [Next].



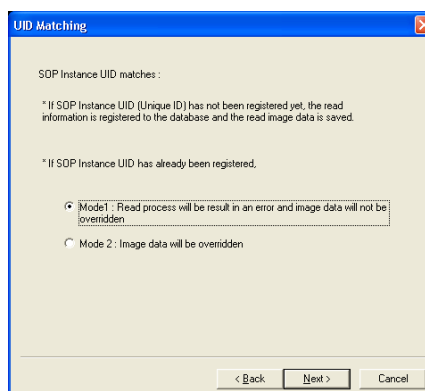
ID Matching window

Parameter	Function
Essential information for registration (Empty value is not permitted)	If the received image is not provided with the checked information, an error is returned to a sender and the image is not stored.
Use additional information other than Patient ID for confirmation ("Checked" is recommended)	If the patient ID of the received image has already been registered in the database, the checked information on the image is compared with the one in the database.

4 Open the UID Matching window.

Select a mode and click [Next].

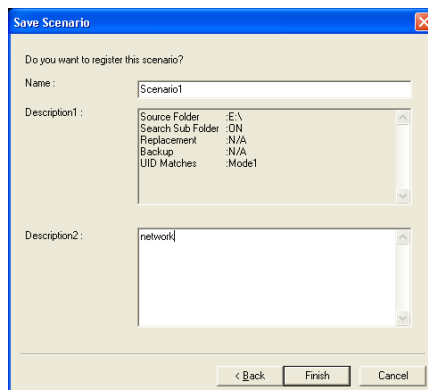
This sets the operation when the SOP Instance UID of the received image is already registered in the database, and fully matched Additional information to be used for confirmation set in step 3.



UID Matching window

Mode	Function
Mode 1	An error is returned, and the image is not overwritten.
Mode 2	The image is overwritten.

- 5** Make the settings in the Save Scenario window.
Set parameters.




Save Scenario window

Parameter	Function
Name	Enter a scenario name within 20 bytes.
Description 1	Settings of the created scenario are displayed.
Description 2	Enter detailed explanation of the created scenario.

- 6** Save the scenario.
Click [Finish].

If a scenario is already registered, the following warning message is displayed:
“A scenario has already been registered under this number. Do you wish to overwrite?” Click [OK] to overwrite, and click [Cancel] to not save.



Registering to Startup Menu
To open the Connection to the server window when Windows is started, copy the shortcut for the DICOM-Image-File Reader in the Start menu and paste it under [Startup].
After logging in, the DICOM-Image-File Reader window is opened.

6.6 Modifying scenarios

This is used to modify registered scenarios.

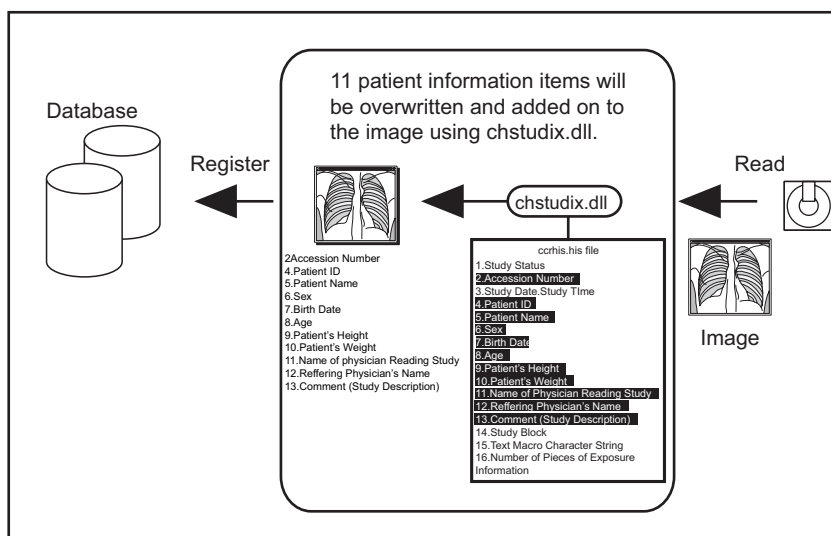
- 1** Select the scenario.
Select the scenario to be modified from among Scenario 1 to Scenario 4 in the DICOM-Image-File Reader window.
- 2** Open the Select Source Folder window.
Click [Modify].
- 3** Modify the scenario.
Modify the scenario by referring to 6.4 Creating a scenario example 1 (reading from a recording medium) (→ 97P.) or 6.5 Creating a scenario example 2 (reading from a shared drive) (→ 103P.).

6.7 Replacing patient data

6.7.1 Changing patient data

To overwrite the patient information associated with images read using the DICOM Image File Reader with information from a previously prepared patient information file (ccrhis.his) and register this image information in the database:

There are 11 items registered in the database by this operation: Accession Number, Patient ID, Patient Name, Sex, Birth Date, Age, Patient's Height, Patient's Weight, Name of Physician Reading Study, Referring Physician's Name, and Comment (Study Description).



6.7.2 Example of using ccrhis.his file

This example shows the case when viewing the ccrhis.his file containing two patients information and modifying the information of the images.

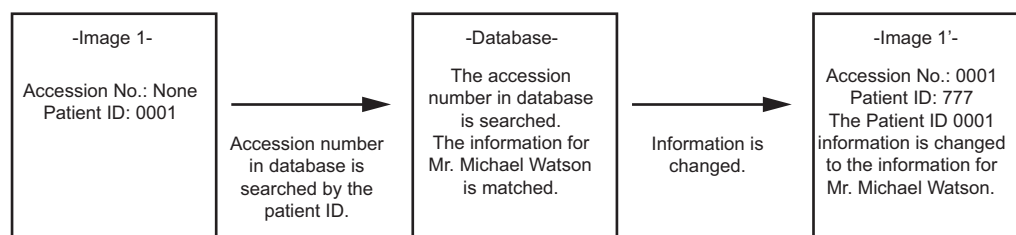


Example 1: When setting patient ID to search key

The image 1 information is changed to the information for Mr. Michael Watson (Image 1').

On the other hand, the image 2 patient information is not changed.

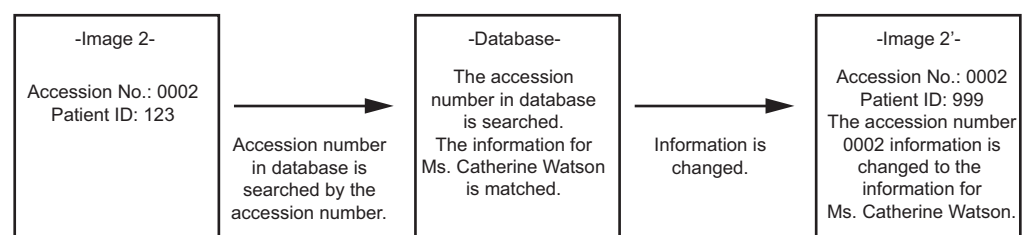
The figure below shows an example when the image 1 patient information is changed.



Example 2: When setting accession number to search key

The image 2 patient information is changed to the information for Ms. Catherine Watson (Image 2'). On the other hand, the image 1 patient information is not changed.

The figure below shows an example when the image 2 patient information is changed.



6.7.3 Editing the ccrhis.his file

A file named ccrhis.his is stored in the folder containing the main DR Image Viewer System program.

The file is written in CSV (Comma Separated Values) format. When it is viewed in a text editor, 16 types of parameters are written separated by commas as shown below.

```
000,0001,20011025,00001,MICHAEL WATSON,M,19751025,26,1.70,63.0,smith,thomas,comment, , ,0
```

Parameter List

Order No.	Name	Value when Blank	DICOM Tag	Value
1	Study Status	000		Always set to 000.
2	Accession Number (search target)	Never blank	(0008,0050)	Character string up to 16 bytes
3	Study Date, Study Time	Image information cannot be overwritten.		
4	Patient ID	No information	(0010,0020)	Character string up to 64 bytes (Maximum 16 bytes when using the DICOM Image File Reader)
5	Patient Name	No information	(0010,0010)	Character string up to 52 bytes
6	Sex	No information	(0010,0040)	Single character of M, F, or O
7	Birth Date	No information	(0010,0030)	Numbers in YYYYMMDD format (YYYY: Year, MM: Month, DD: Day)
8	Age	No information	(0010,1010)	One of nnnY, nnnM, nnnW, nnnD 018Y indicates 18 years old, 004D indicates 4 days after birth.
9	Patient's Height	No information	(0010,1020)	Number to two decimal places. Units are meters. Example: 1.60
10	Patient's Weight	No information	(0010,1030)	Number to one decimal place. Units are kilograms. Example: 62.5
11	Name of Physician Reading Study	No information	(0008,1060)	Character string up to 63 bytes
12	Referring Physician's Name	No information	(0008,0090)	Character string up to 63 bytes
13	Comment	No information	(0008,1030)	Character string up to 52 bytes
14	Study block	Do not write anything here.		
15	Text Macro Character String	Do not write anything here.		
16	Number of Pieces of Exposure Information	0		Always set to 0.



Number of characters in patient ID and patient name

When the DICOM Image File Reader is used to change patient information recorded in the ccrhis.his file, the patient ID may be a maximum of 16 bytes and the patient name a maximum of 52 bytes.

In contrast, when System Administrator is used to perform batch registration or batch replacement of patient information, the patient ID may be a maximum of 64 bytes and the patient name a maximum of 52 bytes.

7. Received Image Storage and Management (Queue Management Tool)

The archive queue (images stored in the online folder or backup folder) and image distribution queue (images stored in the receiver set in the distribution list) when images are received can be managed.

7.1 Queue Management Tool window

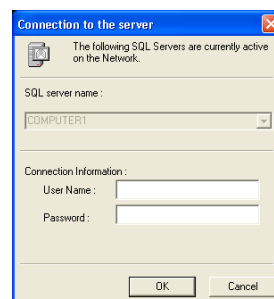
7.1.1 Opening the Queue Management Tool window

Click [Queue Management Tool] in the DR System Manager to open the Queue Management Tool window directly.

1 Open the Connection to the server window.

Click the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [Queue Management Tool]



Connection to the Server window

2 Enter the user name and password.

The entered password is indicated by *.

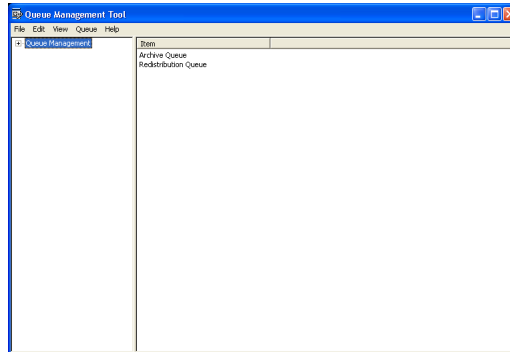


Passwords

Be extremely careful that you do not forget your password or tell it to others.

Continued on the following page >>

- 3 Open the Queue Management Tool window.
Click [OK] in the Connection to the server window.



Queue Management Tool window



MEMO

If the System Information window is open

The System Information window (→ 8P.) may open depending on the system settings (→ 24P.).

In this case, confirm the information displayed, and then click [OK].

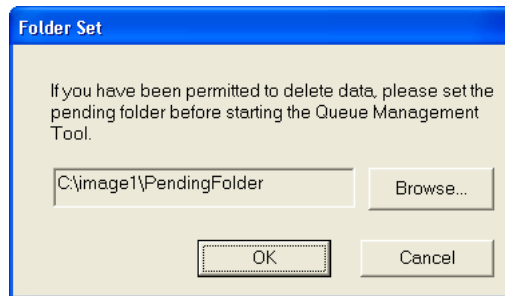


MEMO

Pending Folder

When using the Queue Management Tool, it is necessary to set the pending folder to save the images deleted from the list.

If the pending folder is not set, a Folder Set window opens. Set the pending folder.




Folder Set window

7.1.2 Closing the Queue Management Tool window

To close the Queue Management Tool window, either click

[File] > [Close]

from the menu bar, or click the  in the top right corner of the window.

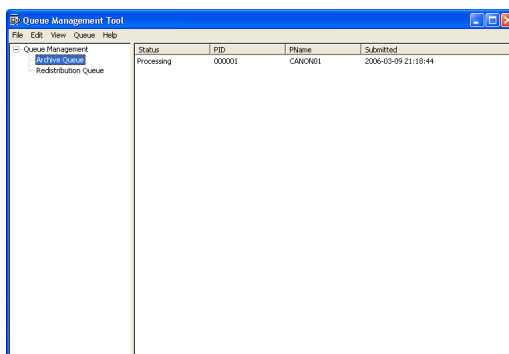
7.2 Managing the Archive Queue

The archive queue can be viewed, re-saved, or deleted.

7.2.1 Viewing the Archive Queue

You can check the archive queue status.

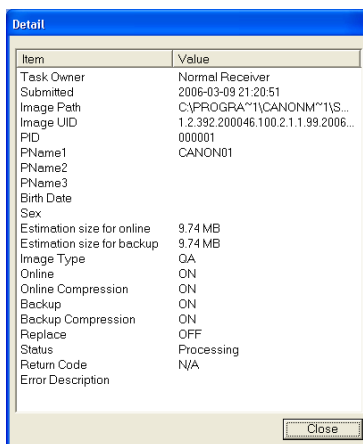
- 1 Display the archive queue status.
Double-click the archive queue in the Item box.
The queue status is displayed in the Status box.



Archive Queue status

Status	Description
Success	Saving succeeded. (This indication disappears in a few seconds.)
Processing	Saving is in process.
Waiting	Waiting for saving.
Error	Error occurred during saving.
Fatal error	Fatal error occurred during saving.

- 2 Display detail on the queue.
Right-click the queue and then click [Property], or click the commands from the menu bar in the following order.
[Queue] > [Property]
The Detail dialog opens to show detailed information.
You can also open the dialogue by double-clicking the queue.



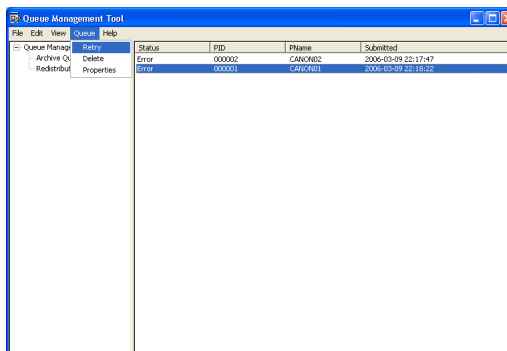
Detail dialog

- 3 Update the list.
To update the list, click the commands from the menu bar in the following order.
[View] > [Refresh]

7.2.2 Re-saving the Archive Queue

The archive queue that failed to be saved can be retried.

- 1 Select the queue to save again.
Click the queue in the list to save again.
- 2 Re-save the queue.
Right-click and then click [Retry], or click the commands from the menu bar in the following order.
[Queue] > [Retry]



Re-saving the Archive queue

7.2.3 Deleting the Archive Queue

The archive queue can be deleted from the list. Note that images are moved to the pending folder.

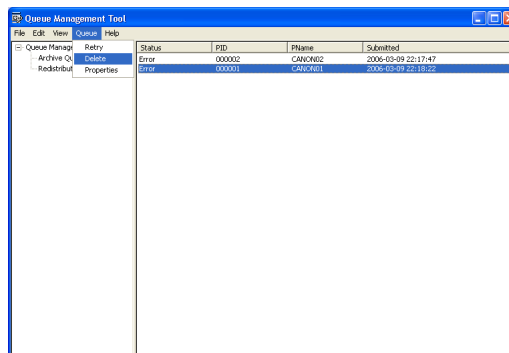
1 Select the queue to be deleted.

In the list, click the queue to be deleted.

2 Delete the queue.

Right-click and then click [Property], or click the commands from the menu bar in the following order.

[Queue] > [Delete]



Deleting the Archive queue

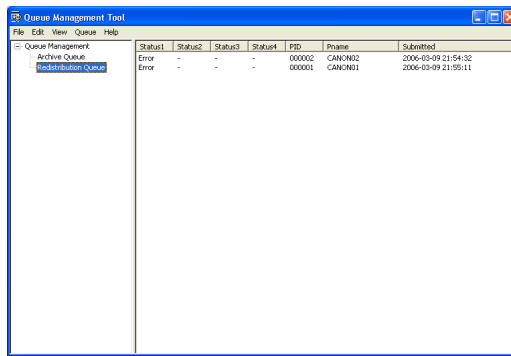
7.3 Managing the Redistribution Queue

The redistribution queue can be viewed, re-transmitted, or deleted.

7.3.1 Viewing the Redistribution Queue

The redistribution queue status can be viewed. For details on the image distribution settings, refer to 5.4.1 Adding a Receiver (→ 85P.).

- 1 Display the redistribution queue status.
 Double-click the redistribution queue in the Item box.
 The queue status is displayed in the Status box.



Redistribution Queue status

Status	Description
Success	Transmission succeeded. (This indication disappears in a few seconds.)
Processing	Transmission is in process.
Waiting	Waiting for transmission.
Fail	Transmission failed.
Service Stop	The image distribution service is stopped. To start the service, click the commands from the menu bar in the following order. [Edit] > [Distribution running] Check that the checkbox of Distribution running is checked.

- 2 Select the queue.
 Click the queue in the list to display detailed information.

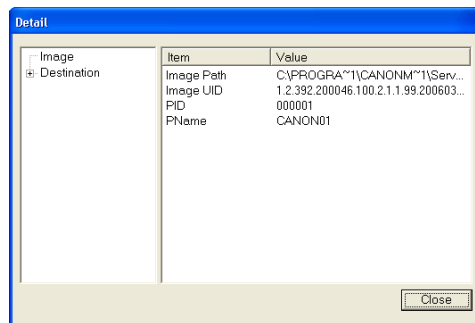
3 Display detailed information about the queue.

Right-click the queue and then click [Property], or click the commands from the menu bar in the following order.

[Menu] > [Queue]

The following dialog opens to show detailed information about the queue.

You can also open the dialogue by double-clicking the queue.



Detail dialog

4 Update the list.

To update the list, click the commands from the menu bar in the following order.

[View] > [Refresh]

7.3.2 Re-transmitting the Redistribution Queue

The redistribution queue that failed to be transmitted can be retried.

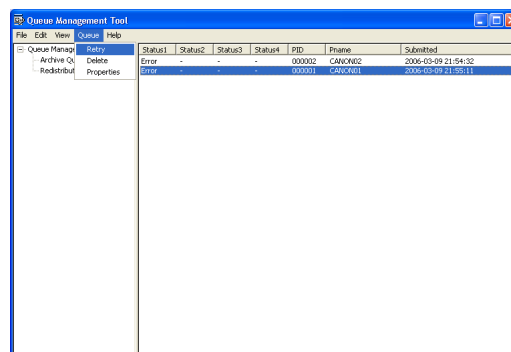
1 Select the queue to be re-transmitted.

In the list, select the queue to be re-transmitted.

2 Re-transmit the queue.

Right-click and then click [Retry], or click the commands from the menu bar in the following order.

[Queue] > [Retry]

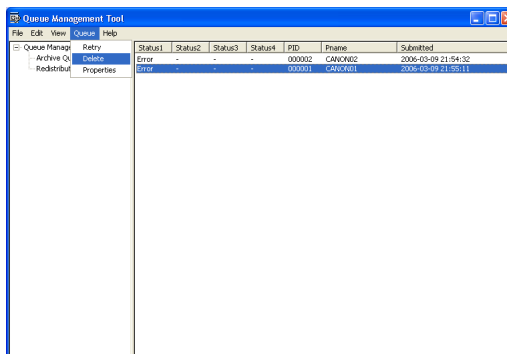


Redistribution Queue Re-transmission

7.3.3 Deleting the Redistribution Queue

Delete the redistribution queue from the list. Note that images are moved to the pending folder.

- 1** Select the queue to be deleted.
In the list, click the queue to be deleted.
- 2** Delete the queue.
Right-click and then click [Delete], or click the commands from the menu bar in the following order:
[Queue] > [Delete]



Deletion of Redistribution queue

7.3.4 Starting and Stopping the Image Distribution Service

To perform redistribution, the image distribution service must be in process. Start and stop of the image distribution service can be set.

- 1** Check whether the image distribution has been started.
Click [Edit] on the menu bar.
If the image distribution service has been started, “Distribution running” is checked. If the service is stopped, it is not checked.
- 2** Change the image distribution setting.
In the status in step 1, clicking “Distribution running” allows you to change the image distribution service setting.

Note: When using this function in a Windows Vista environment, appropriate setting is required at installation procedure.

8. Copying Images (Image Backup Tool)


Images can be copied to an offline medium automatically (automatic backup) or manually (manual backup).

When the computer starts, the Image Backup Tool (automatic backup) starts and its icon is displayed in the information area.

8.1 Backing up Images Automatically

Only folders which have reached their maximum size that has been set at Folder Capacity (→ 79P.) are copied, according to the settings.

8.1.1 Setting automatic backups

- 1 Open the Image Backup Tool.
Double-click the icon  in the Information area on the right of the taskbar.

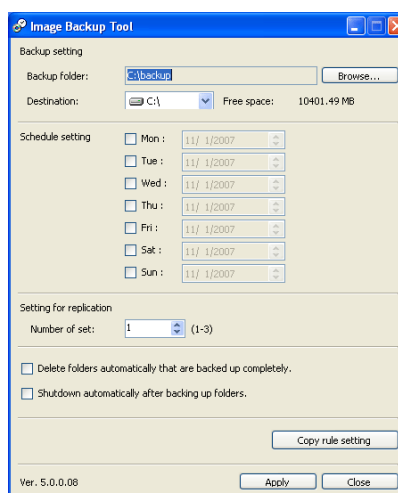


Image Backup Tool window



MEMO

Action to take when the icon is not displayed in the information area

If the icon is not displayed in the information area, click the Image Backup Tool on the DR System Manager, or click the commands from the taskbar in the following order to open the Select Mode window.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [Image Backup Tool]

In the Select Mode window, select Automatic Backup and click [OK].

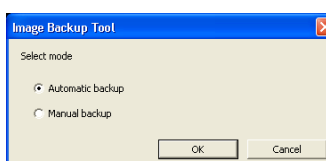


Image Backup Tool window

Continued on the following page >>

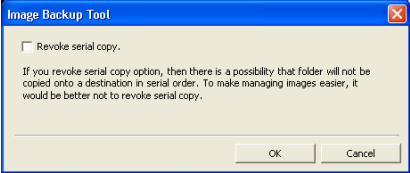
2 Make settings for backup.
Set items.

Item	Description
Backup folder	Click [Browse...] to open the Browse For Folder window and then set the backup folder.
Destination	Click ▼ to set the destination from the dropdown list.

3 Specify the schedule.
Check the days of the week on which backups are to be performed, and then click ▲ or ▼ to set the backup time.

4 Specify the number of backup copies.
Click ▲ or ▼ and set the number of copies within the range from 1 to 3.

5 Enter settings for the remaining items.

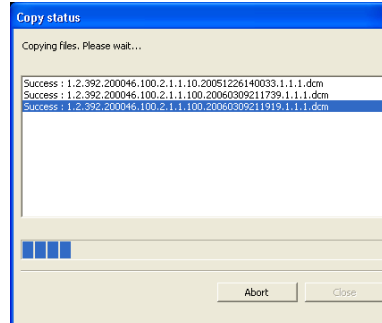
Item	Description
Delete folders automatically that are backed up completely.	When this option is checked, the copy source folder is deleted after the backup completes.
Shutdown automatically after backing up folders.	When this option is checked, the computer shuts down automatically after the backup completes.
Copy rule setting	When this is clicked, a window opens. To allow folders to be copied to the destination in other than serial (folder number) order, check "Revoke serial copy.," and then click [OK] to close the window. 

6 Make the settings to be effective.
To close the window after making the settings effective, click [Apply]. To close the window after making the settings ineffective, click [Close].
When the window is closed, it is displayed as an icon in the information area.

8.1.2 Running automatic backups

To back up images according to the settings:

The Copy Status window is displayed while copying is in progress.



Copy Status window

The window closes automatically when copying finishes.

Also, if “Shutdown automatically after backing up folders” is checked, the computer automatically shuts down after copying finishes.



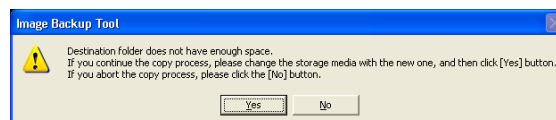
MEMO

If capacity is low on the destination medium

If capacity on the destination medium is insufficient, the following message is displayed:

“Destination folder does not have enough space. If you continue the copy process, please change the storage media with the new one, and then click [Yes] button. If you abort the copy process, click the [No] button.”

Replace the medium and click the [Yes] button.



Insufficient capacity message

If the Insufficient capacity message window appears when “Shutdown automatically after backing up folders.” has been checked, the message “After completing the image copy process, are you sure you shutdown this computer?” is displayed.

To shut down the computer, click [Yes].




MEMO

Restoring the study database

If you restore the study database, the backup folder will contain only numbers created up to the last restore point. As a result, some folders that should be backed up may not be copied to the backup destination. To prevent this, receive or read a new image. This will cause the database information to be updated.

8.2 Backing up Images Manually

The procedure for backing up images manually is explained below.

- 1** Cancel automatic backup.
When the computer starts, the Image Backup Tool (Automatic Backup) starts. Right-click the icon  on the right of the taskbar, and then click [Exit].
- 2** Open the Image Backup Tool.
Click the Image Backup Tool on the DR System Manager or click the commands from the taskbar in the following order.
[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [Image Backup Tool]

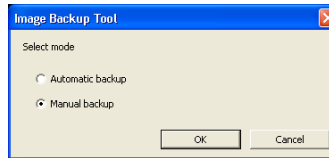


Image Backup Tool window

- 3** Select a mode.
Select Manual Backup and click [OK].
- 4** Select the backup folder.
Click [Browse...] to open the Browse For Folder window and then set the backup folder. A subfolder list appears.

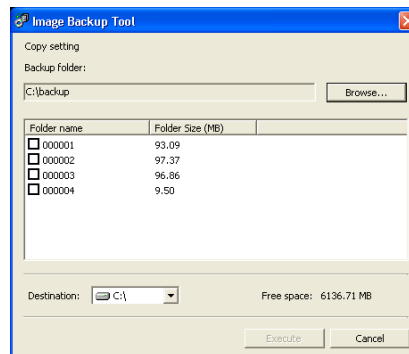

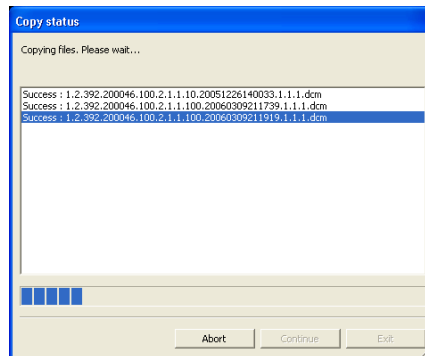


Image Backup Tool window

- 5** Select the subfolders to be backed up.
Check the names of the subfolders to be backed up.
- 6** Specify the destination.
Click  to specify the destination drive.

7 Execute backup.

Click [Execute]. The following window opens to indicate the progress of copying.



Copy status window

8 The backup operation is completed.

When copy is completed, the following message appears:

“Copying images was completed. If you copy another images continuously, please click the Continue button. If not so, please click the Exit button to terminate this program.”

Click [Exit] to terminate the program or click [Continue] to return to Step 4 to backup more images.



MEMO

Enabling Automatic Backup

To enable Automatic Backup after Manual Backup completes, click the Image Backup tool in DR System Manager or click the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [Image Backup Tool]

The Select Mode window opens. Select Automatic Backup and click [OK].

9. Database Backup and Restore

If backups of the database are made, the database can be recovered to the stage where it was last saved in case a problem occurs.

Also, if the database is performing a redundant operation, it may be possible to recover the database at the stage just before the fault occurred.

It is recommended that you make backups on a regular basis.

9.1 Database Backup Tool window

9.1.1 Opening the Database Backup Tool window

To back up or restore a database, you must login with a user name having administrator privileges.

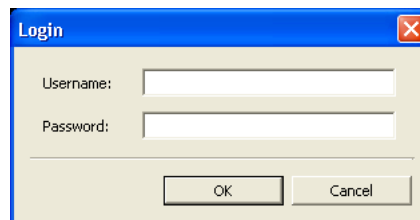
Note: When using Windows Vista, the administrator's authority is required to start the database backup tool.

1 Open the Login window.

Click the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [Database Backup Tool]

The check of the database is started. When the check is completed, the Login window is displayed.



Login window



Opening the Database Backup Tool window from the DR System Manager

Click Database Backup Tool in the DR System Manager to open the Database Backup Tool window directly.

2

Enter the user name and password.

The entered password is indicated by *.

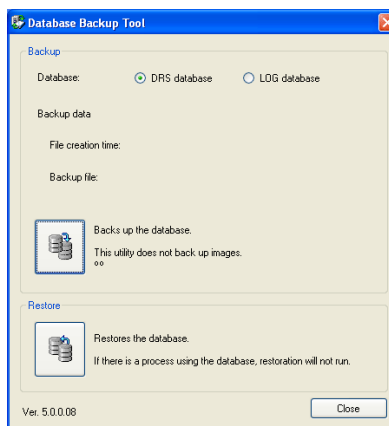


Passwords

Be extremely careful that you do not forget your password or tell it to others.

Continued on the following page >>

- 3 Open the Database Backup Tool window.
Click [OK] in the Login window.



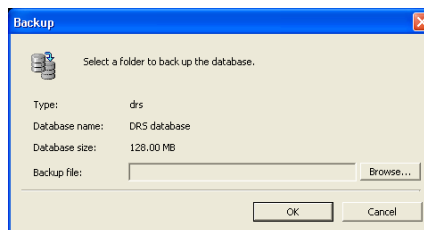
Database Backup Tool window

9.1.2 Closing the Database Backup Tool window

Click [Close] to close the Database Backup Tool window.

9.2 Backing up a database

- 1 Select the database to back up.
In the Database Backup window, select [DRS Database] or [Log Database].
- 2 Open the Backup window.
Click the icon in the Backup column.



Backup window

- 3 Select the folder where the file will be saved.
Click [Browse...] to open the Browse Folder window, and then select the folder where the database will be backed up.



MEMO

Name of backup file

After the Browse Folder window is closed, the destination folder name and backup file name are displayed under **Destination**.

The name of the backup file is set automatically as follows.

Study database: drs-date-time.dat

Log database: logdb-date-time.dat

- 4 Start the backup operation.

Click [OK]. The following message is displayed in the window:

“Backup speed depends on database size and data transfer speed. It may take only a few minutes or over an hour. Timeout is 90 minutes. Do you want to start the backup?” Click [OK].



MEMO

Timeout

If the backup does not complete within 90 minutes after start, an error occurs and no backup file is created.

5 The backup operation is completed.

The following message is displayed if the backup operation is successful:

“The backup is completed. It is recommended to have the backup data copied and saved in a media other than the hard disk, such as CD-R and DVD.”

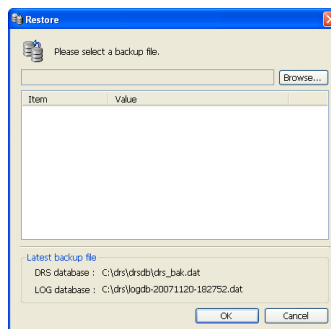
Click [OK].

9.3 Restoring a database

This section describes how to restore a corrupted or other database to its original state using the backup database made in 9.2 Backing up a database (→ 127P.).

1 Open the Restore window.

Click the icon in the Restore column in the Database Backup Tool window.




Restore window

The latest backup information is displayed below the latest backup file.

2 Select the folder where the file is saved.

Click [Browse...] to open the Open window, and then select the backup file.



MEMO

File information display

When a backup file is selected, information about the file is displayed.

3 Start the restore operation.


Click [OK].

An window opens and

“Information registered after the file was backed up may be lost if the backup data file is restored. Do you want to continue?”

appears, click [Yes].

- 4** The restore operation is completed.
If the restore operation is successful, the window opens and displays "Restoration is completed". Click [OK].

	<p>Backups after restoration</p> <p>Once a restoration is completed, be sure to always make a backup before recording the database immediately after restoration.</p> <p>When you continue with operation without making a backup, and then a fault subsequently occurs, you will be unable to restore the database to the point just before the fault.</p>
---	--

10. DICOM Query/Retrieve Setting

Note: A license is required to use DICOM Query/Retrieve.

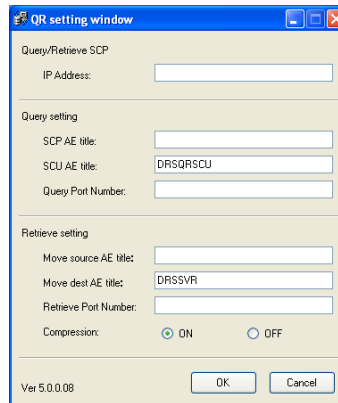
For how to purchase the license, contact the distributor or Canon representative from which you purchased this software.

The DICOM Query/Retrieve is the function for querying (getting) the patient information, study information, and series information from the DR image viewer and retrieving the conforming image. Settings necessary for using the DICOM Query/Retrieve are explained below.

1 Open the QR Setting window.

Click the commands from the taskbar in the following order.

[Start] > [All Programs] > [Canon Medical] > [DR Image Server] > [Query/Retrieve Tool]



QR setting window

2 Set items.

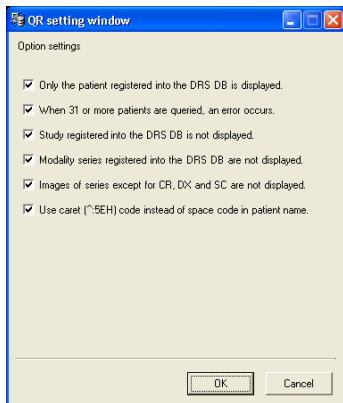
Item		Function
Query/Retrieve SCP	IP Address	Enter the IP address of the server.
Query Setting	SCP AE title	Enter the AE title of the server in 16 characters or less.
	SCU AE title	Enter the AE title of the DR image viewer in 16 characters or less.
	Query Port Number	Enter the port number.

Continued on the following page >>

Item		Function
Retrieve setting	Move source AE title	Enter the AE title of the server in 16 characters or less.
	Move dest AE tile	Enter the AE title of the DR image viewer in 16 characters or less.
	Retrieve Port Number	Enter the port number.
Compression		When compressing images, select On.

3 Display the option settings.

To set optional functions, click [OK] while pressing the Shift key on the keyboard.



QR setting window (Option setting)

4 Set optional function items.

Enter the option settings, and then click [OK] to close the window.

Item	Function
Only the patient registered into the DRS DB is displayed.	When this is checked, the patient information not registered in the DR image viewer system database is not displayed.
When 31 or more patients are queried, an error occurs.	When this is checked, an error message appears if 31 or more patients information matches the search conditions.
Study registered into the DRS DB is not displayed.	When this is checked, the studies registered in the DR image viewer system database are not displayed.
Modality series registered into the DRS DB are not displayed.	When this is checked, the series registered in the DR image viewer system database are not displayed.

Item	Function
Images of series except for CR, DX, and SC are not displayed.	When this is checked, information about the images whose modality value is other than CR, DX, and SC is not displayed. The DR image viewer system does not assure normal display of the images whose modality value is other than CR, DX, and SC.
Use caret (^:5EH) code instead of space code in patient name.	When this is checked, caret code (^:5EH) is used.

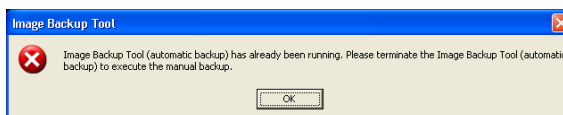
5

Allow the settings to take effect.

Click [OK] to close the QR setting window.

11. Error Messages

An error message will be displayed when some sort of fault occur.
 Check the error message, and then perform the appropriate remedy.



Example of Error Message

11.1 Errors

Message	Cause	Remedy
Master database may be broken.	This is due to a system incompatibility.	Contact the distributor where you purchased this product or Canon representative.
You do not have administrative privileges. Start up System Manager in general user mode.	You logged in with a user name not having administrative privileges when using an option requiring administrative privileges.	Login with a user name that gives administrative privileges.
On-line folder cannot be changed because it has already been used.	You tried to change the online folder where images are saved with the Storage Administrator.	The folder cannot be changed if it contains saved images.
Remaining free space is empty. Reading will be terminated.	The remaining space on the disk has reached the lowest left space that was set by the Storage Administrator.	Either decrease the "Lowest Left space", or delete some images.
There are some programs connecting database. Please restore the database, after restarting this computer.	There is a program that is using the database when an attempt is made to execute restoration using Database Backup Tool.	Terminate the specified program or reboot the program.
There are some programs connecting database. Please restore the database, after terminating below programs.		
Close Storage Administrator window before starting DICOM-Protocol Image Receiver.	You tried to receive DICOM protocol images while making the settings in the Storage Administrator.	Close the Storage Administrator.
Close Storage Administrator window before starting DICOM-Image-File Reader.	You tried to run the DICOM-Image-File Reader during setting of the Storage Administrator.	Close the Storage Administrator.

11.2 Warnings

Message	Cause	Remedy
Database Link Failure!	The system cannot connect to the database.	Check if the SQL Server service is started.
User authentication fails!	The entered user name or password at login was not correct.	Enter the correct user name and password .
The threshold must be some integer between 1 and 1000.	No value was entered for lowest left space when the settings were made for the Storage Administrator.	Enter a value for the “ Lowest Left space ”.
On-line folder is inaccessible. Check on-line folder or network.	The system cannot access the online folder.	Check if online folder sharing and access privileges have been set correctly.
Failed to register database. Try again.	The system failed in registering the settings.	Try again.
Selected receiver will be deleted. Images being transferred or waiting to be transferred may not be able to be received. Are you sure you wish to continue?	You tried to delete a receiver.	To delete the database, click [OK]. To not delete, click [Cancel].
Closing DICOM-Protocol Image Receiver window will stop all the image receivers.	You tried to close the DICOM-Protocol Image Receiver window.	Make sure that it is OK to stop all the receivers before closing the window.
Enter receiver name.	You tried to set another tab without entering the receiver name.	Enter the receiver name.
Enter receiver AE title.	You tried to set another tab without entering the receiver AE title.	Enter the receiver AE title.
Back slash mark “\” and square bracket “[]” cannot be used in receiver name.	You entered a back slash mark “\” or square bracket “[]” in the receiver name.	Do not use a back slash mark “\” or square bracket “[]” in the receiver name.
Receiver name has already been used. Enter a different name.	The receiver name has already been used.	Change the receiver name.
Port number must be between 1 and 65535.	Either a port number was not entered, or 0 was entered.	Enter the number between 1 and 65535.
Port number has already been used. Enter a different number.	The port number is already used by other receiver.	Set a port number that has not been used.
The compression method of this system is lossless compression. The compression can save space on disk.	You selected Off under Image Compression.	The compression can save space on disk.

Message	Cause	Remedy
The capacity number must be some integer between 100 and 20000 do you want to set it again?	You entered a value outside the 100 to 20,000 range for the folder Capacity.	Enter a value in the range of 100 to 20,000.
Do you want to delete the database? If you select Yes, the database and all online images will be deleted. Once database is deleted it cannot be recovered.	In the scenario of the DICOM-Image-File Reader, Ask to erase database every time scenario starts is checked.	To delete the database, click [OK]. To not delete, click [Cancel].
Failed to delete database.	The system cannot connect to the database.	Reboot the computer, and then try again.
If image file is not copied to the database, you may not be able to access to the file depending on setting for access permission of share folder. You need to register share folder in order to access the source folder from viewer on network.	An unshared folder was selected for the image reading folder, and Copy Image is checked.	If you will enable sharing later, click [OK]. To enable sharing immediately, click [Cancel], and then set the folder.
No images in image source folder.	There are no images in the folder set as the image reading folder.	Either copy images to the image reading folder, or change the image reading folder.
Failed to load HIS dll file.	The system was unable to read the selected DLL file.	Check the patient data replacement settings.
Select an image source folder.	You tried to set another tab without selecting the image reading folder.	Set the image reading folder.
Select a DLL file.	Even though the Replacement was set to On in the Fill in Information window, you tried to move to other settings without selecting the DLL file.	Select the DLL file.
Ampersand mark "&" cannot be used in scenario name.	You entered an ampersand mark "&" in the scenario name.	Do not use an ampersand mark "&" in the scenario name.
A scenario has already been registered under this number. Do you wish to overwrite?	A scenario has already been registered to the scenario name selected for saving.	To overwrite, click [OK]. To cancel, click [Cancel].
There is the error information in System Information.	The database has not been backed up, the archive queue or redistribution queue is erroneous, or the remaining folder space is insufficient.	Confirm the cause of the error by observing the System Information window and then take an appropriate action.
Please see error information and cope with it.		

Continued on the following page >>

11.Error Messages

Message	Cause	Remedy
You need to register and start the archive service firstly!	An attempt was made to read an image using the DICOM Image File Reader before starting the archive service.	Reboot the computer or reinstall DR Image Server.

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