Digitally signed by Belan Irina
Date: 2024.06.05 15:04:20 EEST
Reason: MoldSign Signature
Location: Moldova

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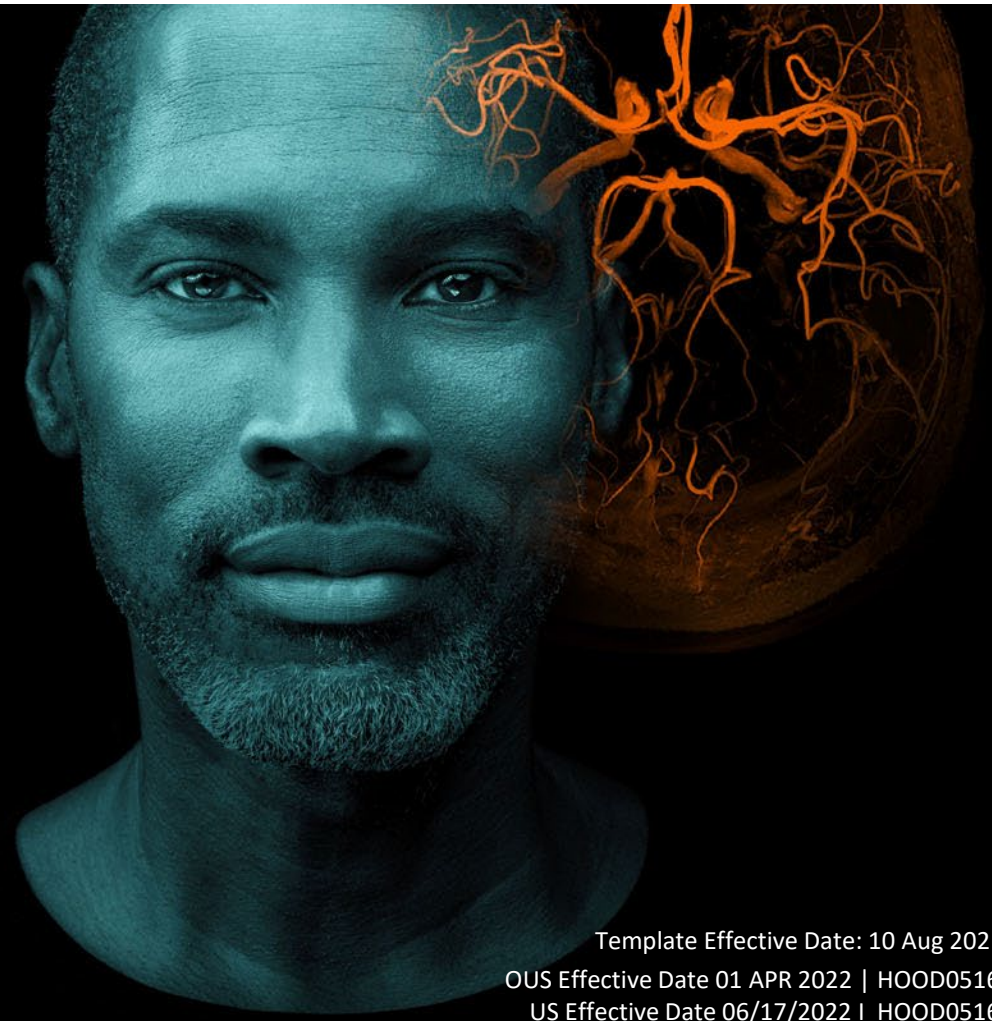
Postprocessing Job Aid

ARTIS one VA1x



Template Effective Date: 10 Aug 2021 | HILS 2223
OUS Effective Date 01 APR 2022 | HOOD05162003265211
US Effective Date 06/17/2022 I HOOD05162003283804
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Postprocessing
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Postprocessing
Postprocessing Task Card

(1) Postprocessing main menu
(2) Control area
(3) Patient information area
(4) Image review controls
(5) Subtask cards
(6) Quick access area
(7) Status area with system messages and status icons
(8) Image area

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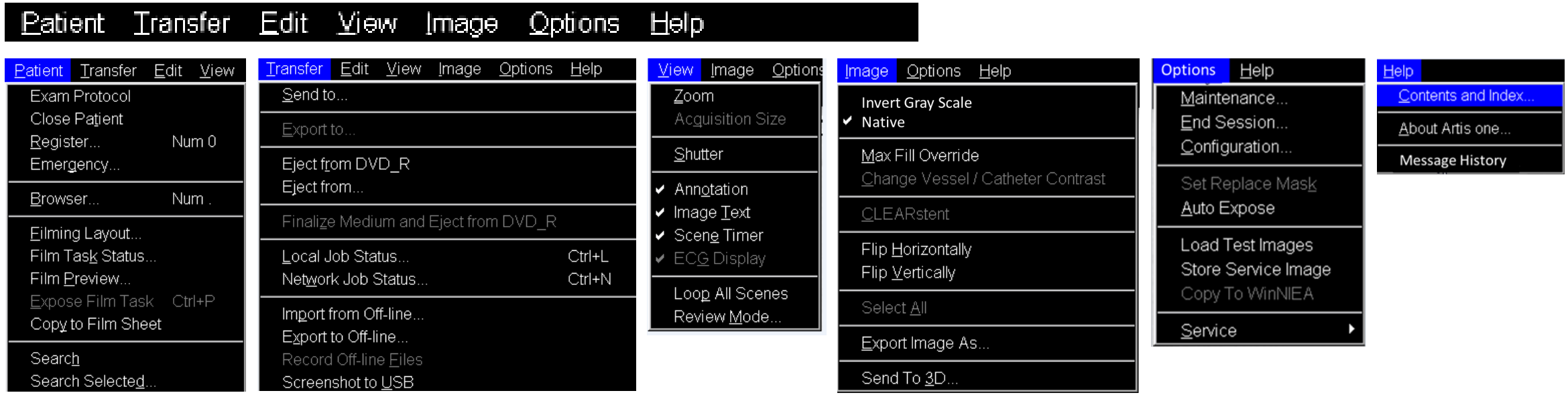
Postprocessing

Postprocessing Task Card: Postprocessing Main Menu

When you move your mouse to the top area of the screen, the **Postprocessing main menu** will be displayed with the following functions:



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Postprocessing
Postprocessing Task Card: Review Modes

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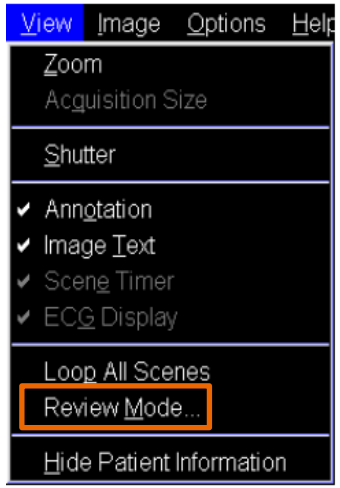
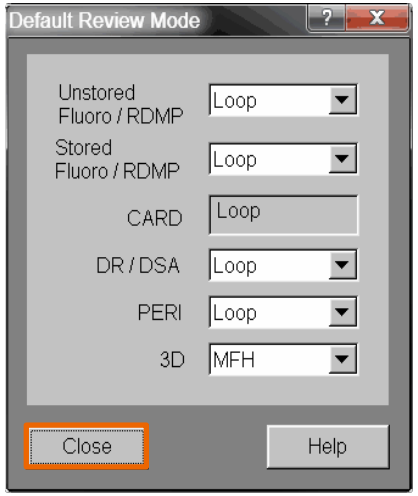
Default Review Mode*

1. In the **Postprocessing** main menu, select **View > Review Mode**. A dialog box opens with the available review modes.
2. Select the required review mode for the available acquisition modes.
3. Confirm your selection by selecting **Close**.





Review Modes for Fluoroscopy/Roadmap

- **LIH** (last image hold): The last fluoroscopic/roadmap image frame is displayed
- **Loop**: A fluoroscopy scene is replayed continuously from the first to the last image frame

Review Modes for Acquisitions

- **MFH** (Max. Fill Hold): Once a scene has been loaded, the maximum fill image is displayed immediately
- **Loop**: An acquisition is replayed continuously
- **Toggle**: The scene is played continuously but, unlike Loop, the review direction is reversed after the last image frame (ping-pong effect)

*Default Review Mode requires the Fluoro Loop license for changing the Review modes for Fluoro/Rdmp.

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Postprocessing

Postprocessing Task Card: Image Review Controls

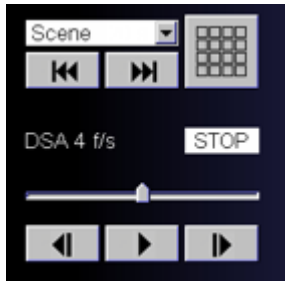
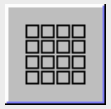
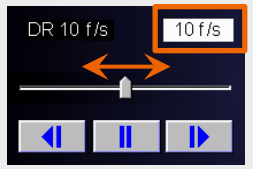


Image Review Controls

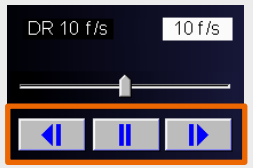


Scene Directory
Opens an overview display of the stored scenes/images/ reference images depending on the current filter selection.

Scene - / Scene +
Ref - / Ref +



Changing the Review Frame Rate



Starting/stopping the Loop
Single Step: A looping scene can be stopped and then reviewed frame by frame forward or backward.

Filter the scene directory:

- **Scene**: Only scenes (multiframes and single acquisitions): acquisitions and stored fluoro, roadmaps
- **Ref. Image**: Only reference images
- **Store Monitor**: Only secondarily stored images
- **+ Ref. Image**: Scenes and reference images
- **+ Store Monitor**: Scenes and stored images (no reference images)
- **SM + Ref. Image**: Stored images and reference images

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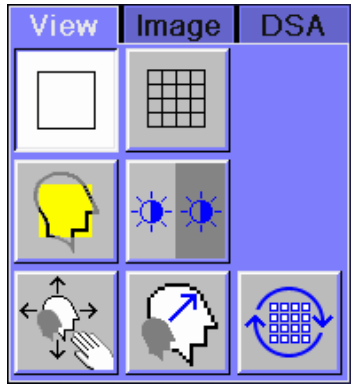
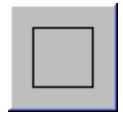
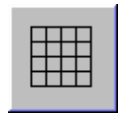
Postprocessing
Postprocessing Task Card: Sub task Cards



View Sub task Card

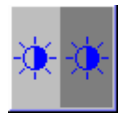


Full-screen



Scene Overview

Shutter



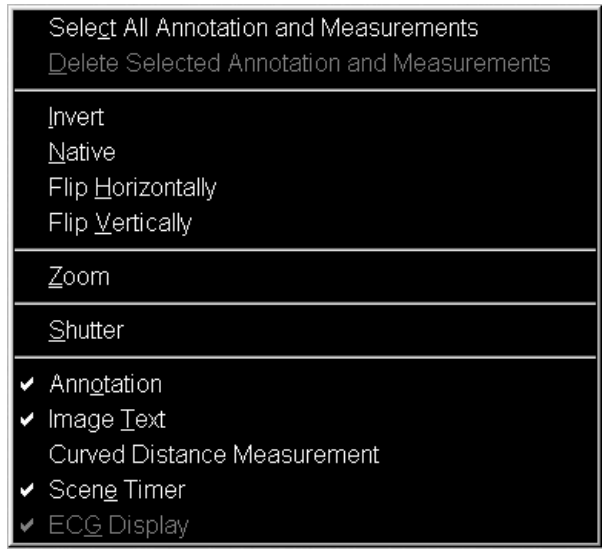
Invert Gray Scale

Zooming/Panning

Zoom to Acquisition Size

Looping through All Scenes

Main Menu



Context Menu

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Postprocessing

Postprocessing Task Card: Sub task Cards

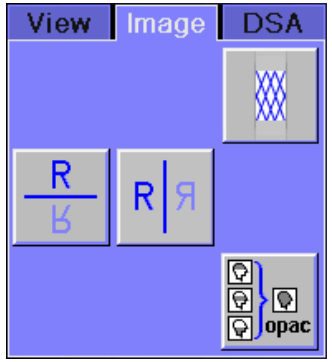
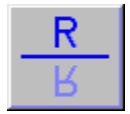


Image Sub task Card

CLEARStent *

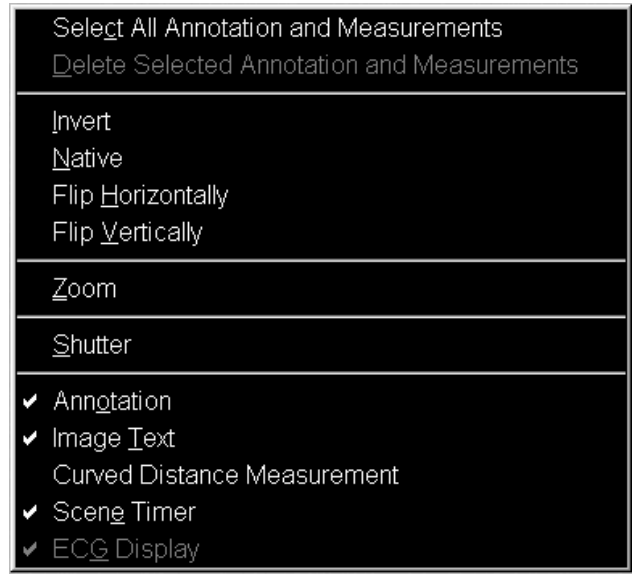


Flip Horizontally

Flip Vertically

Opacification

Main Menu



Context Menu

* CLEARStent is an option

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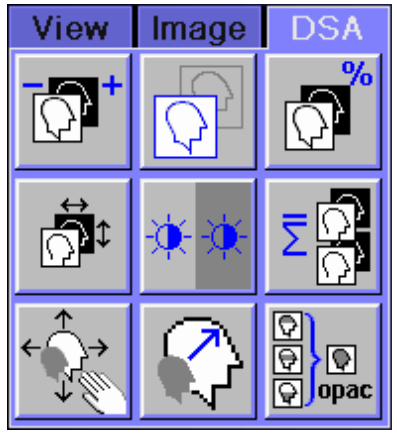
Postprocessing

Postprocessing Task Card: Sub task Cards



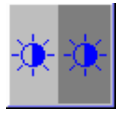
DSA Sub task Card*

Move Mask

Native/Subtracted

Anatomical Background

Pixelshift



Invert Gray Scale

Averaging Mask/ Fill Image

Zooming/Panning

Zoom to Acquisition Size

Opacification

*The DSA subtask card is an option.

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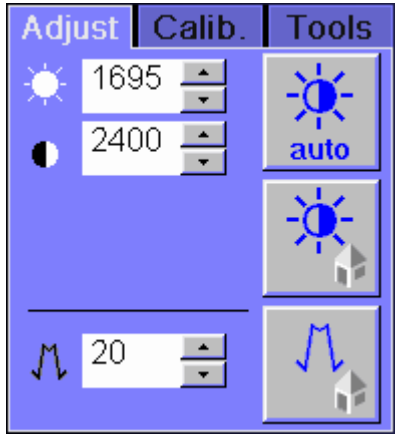
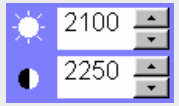
Postprocessing

Postprocessing Task Card: Sub task Cards



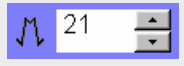
Adjust Sub task Card



Windowing
Set brightness and contrast

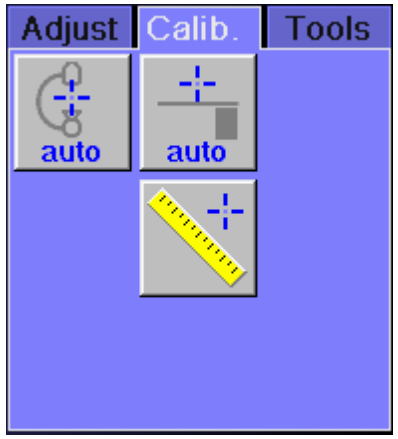
Auto Window

Window Home



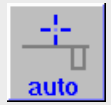
Edge Enhancement

Edge Enhancement Home



Calibration Subtask Card

Auto ISO Calibration
Isocenter calibration is automatically preselected by the system for image angle 50° ... 130°.



Auto TOD Calibration
TOD calibration is automatically preselected by the system for image angle 0° ... 50° or 130° ... 180°.

Manual Distance Calibration
Once the distance line has been drawn by moving and marking with the mouse pointer, the length of the distance line is entered, and calibration is applied.

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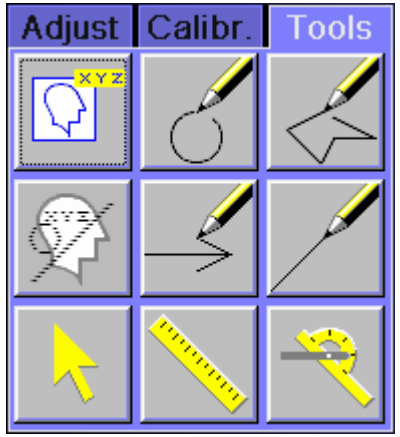
Postprocessing
Postprocessing Task Card: Sub task Cards



Tools Sub task Card

Annotation: Enter text in the image

Drawing Circle

Drawing Polygon

Hide Annotations and Measurements

Drawing Arrow

Drawing Line

Pointer: Point out certain image details on the screen

Distance: The distance between two points of a straight distance line or along a curve

Angle: Angle measurement by drawing two lines

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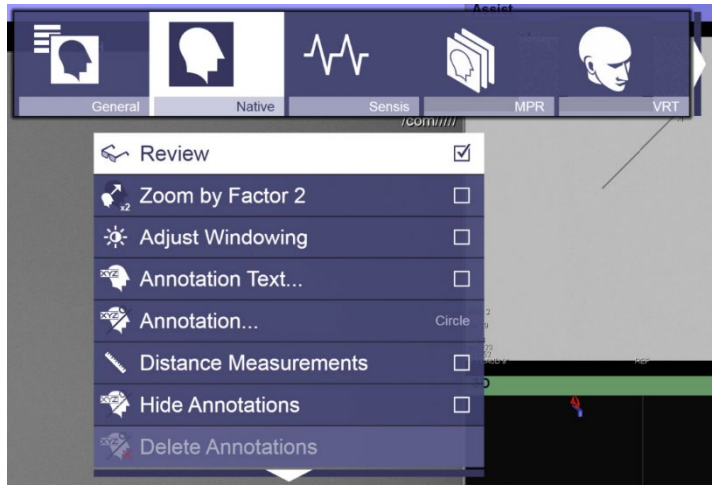
Postprocessing
Postprocessing Onscreen Menu

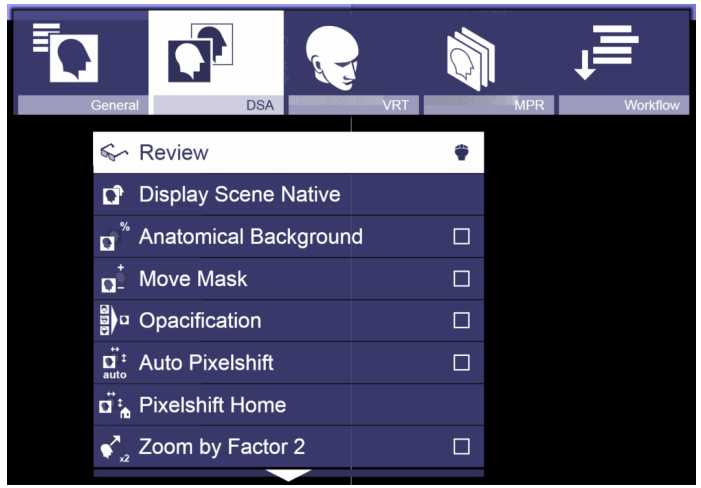
The **Postprocessing Onscreen Menu** contains the functions depending on the Onscreen Menu configuration.

General Menu



Native Menu

The **Native** menu contains functions for manipulations of scenes that were acquired nonsubtracted.*



DSA Menu (Optional)

The **DSA** menu contains functions for manipulations of scenes that were acquired subtracted.*

*Depending on the image type loaded the system automatically provides either the Native or the DSA menu (optional function).

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Postprocessing
Changing/Correcting Patient Data

1. Select **Edit** > **Correct** in the main menu of the **Postprocessing** task card.
   – or –
   Press the **Patient Browser (Num .)** key on the symbol keypad.

Patient Browser (Num .) Key

The **Patient Browser** window opens. Select the patient requiring the modification. Corrections depend on the selected level in the **Patient Browser**: **Patient - Study - Series - Instance.** Studies that include only one scene should be corrected on the **Instance** level. Only data that refers to the selected level can be modified. To modify the name of the series (scene name), for example, the **Series** level must be selected.

2. Select **Edit** > **Correct** in the menu of the **Patient**

Please note: It is **not** possible to correct or rearrange patient data for the following cases:

- Specific data of special objects, for example, patient position in the **Exam Protocol SR**
- Protected data
- Data of HIS/RIS patients
- Data of the current examination patient during radiation
- Data on external media

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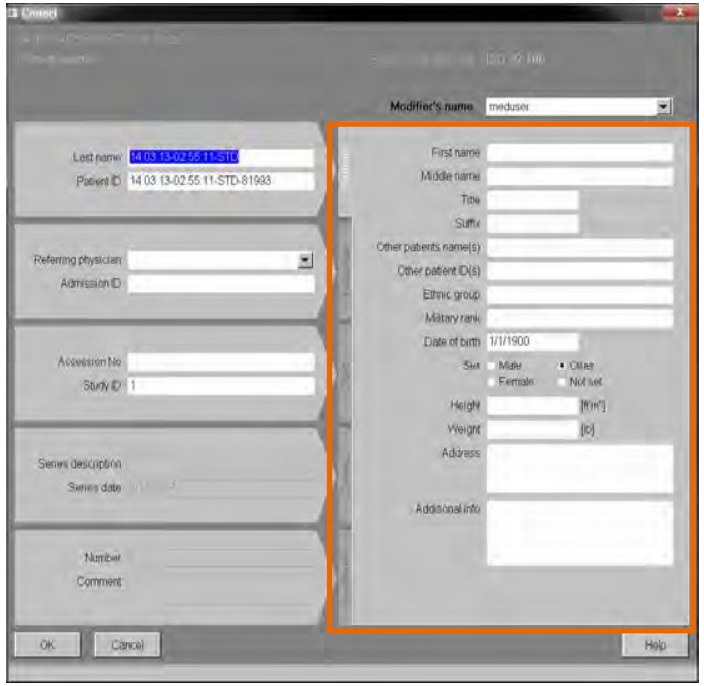
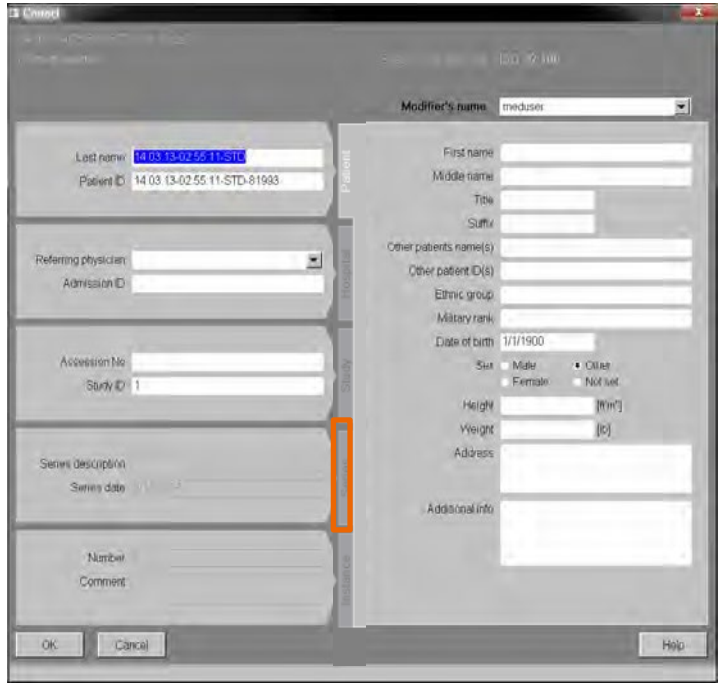
Postprocessing
Changing/Correcting Patient Data continued

3. The **Correct** window opens. Select the **Patient** sub task card and enter the correct patient data. If necessary, change other data.



4. To correct the patient position, select the **Series** sub task card and select the correct position from the drop-down list.



5. After correcting the patient data, enter your name under **Modifier's name** or select your name from the selection list and select **OK.**

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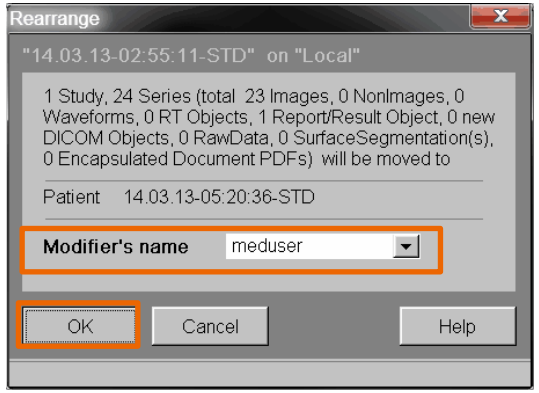
Postprocessing
Rearrange Series/Scenes/Images

1. Call up the **Patient Browser** by pressing the **Patient Browser (Num .)** key on the symbol keypad.

   Patient Browser (Num .) Key
2. Select the series/scenes (images).
3. Drag and drop: Drag the selected data to the target position and release the mouse button.

   – or –

   Cut and paste: Click this icon or call up **Edit** > **Cut** in the menu of the **Patient Browser**.
4. Click the target position.
5. Click this icon or call up **Edit** > **Paste** in the menu of the **Patient Browser**.
6. The **Rearrange** dialog box will be displayed.
7. Enter your name under **Modifier's name** or select your name from the selection list.
8. Confirm by clicking **OK**.



Please note: Rearrange is **not** possible in the following cases:

- Rearranging to the wrong data level
- Rearranging scenes/images to a series acquired with another patient position
- If images were acquired on a different modality (e.g., CT)

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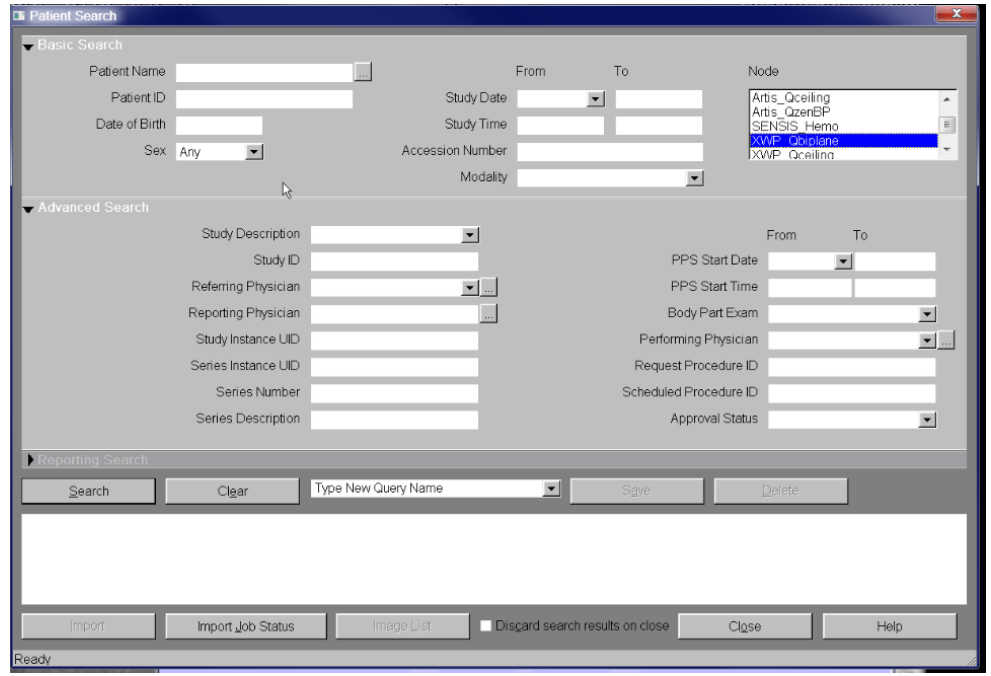
Postprocessing
Patient Search

Using the **Patient Search**, you can query and retrieve patient and examination data from workstations and long-term archives that work with other DICOM program systems.



1. Click this icon in the toolbar.
   – or –
   Select **Patient** > **Search...** in the menu of the **Patient Browser**.
   The **Patient Search** window opens.
2. Enter your search criteria and click **Search**.

If you want to search for an existing patient in the Local Database folder in the network:

1. Select a patient in the **Patient Browser**.
2. Select **Patient** > **Search Selected...** in the menu of the **Patient Browser**.
   The **Patient Search** window is displayed.
3. Enter your search criteria and select **Search**.

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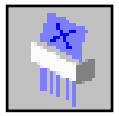
Postprocessing
Manual Deletion of Patient Data

1. Call up the **Patient Browser** by pressing the **Patient Browser (Num .)** key on the symbol keypad.

   Patient Browser (Num .) Key

2. Select the objects to be deleted via a single LMB click.

3. Select **Edit** > **Delete** in the menu of the **Patient Browser** or open the context menu (right mouse button) and select **Delete** there.
   – or –

   Click this icon in the toolbar.

   A dialog box appears in which you must confirm that you really want to delete the data you have selected.

4. Confirm the question with **Yes** to delete the selected patient and examination data.

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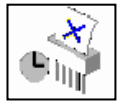
Postprocessing
Automatic Deletion of Patient Data

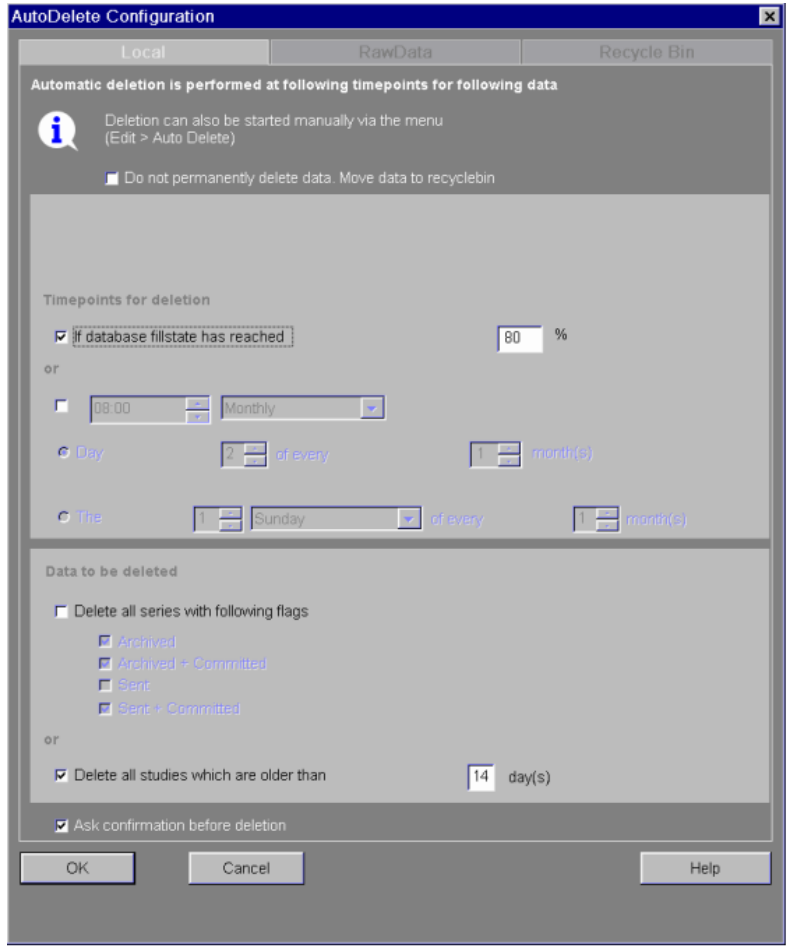
1. Select **Options** > **Configuration...** in the main menu.
2. Double-click the **Auto Delete** icon.



Auto Delete Icon

The **Auto Delete Configuration** window opens.
Select whether the **recycle bin** should be used or not. Select the **Do not permanently delete data. Move data to the recycle bin** check box to change the setting.

3. Select the database (local database or recycle bin) for which automatic deletion shall be configured.
4. Define the **Timepoints for deletion**. Select the options to be used.
5. Define the **Data to be deleted**. Select the rules to be used.
6. Define **Ask confirmation before deletion**. If this option is selected, users are prompted to confirm whether data should be deleted when **Auto Delete** starts.
7. Click **OK** to apply the settings.



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Postprocessing
Archiving/Exporting/Transferring Data

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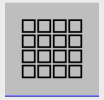
Archive To and Send To

1. Setting a Directory Filter

In the **Postprocessing** task card, select the required display from the drop-down menu.

2. Displaying the Scene Directory

In the **PostProc** or **Quant** task card, click the **Scene Directory** icon.



Scene Directory Icon

The system switches to 4 x 4 display mode and displays the representative image of each stored scene.

To select all objects:

Select **Image > Select All** in the main menu.

– or –

Press **Ctrl + A**.

To select the required scenes/images:

Select one of the required images. Press the **Ctrl** key and select the additional scenes/images.

3. Archiving/Sending

Click this icon in the **Patient Browser**.

– or –

Select **Transfer > Send To...** or **Transfer > Archive To**... in the main menu.

You will see this icon at the bottom of the control area.

Data is being sent.

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Postprocessing
Archiving/Exporting/Transferring Data

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Exporting to CD-R/DVD

1. Insert an (empty) CD-R/DVD into the writer.
   The first time you export data to a new medium, the **Enter Label** dialog box is displayed. Enter a **unique** name for the medium.

2. Select this icon in the **Patient Browser**.

   – or –

   Select **Transfer** > **Export To...** in the main menu. A dialog box with the available archiving destinations opens.

3. Select one or more destinations and click **Export/Archive**. The image data will be archived at the selected destinations.

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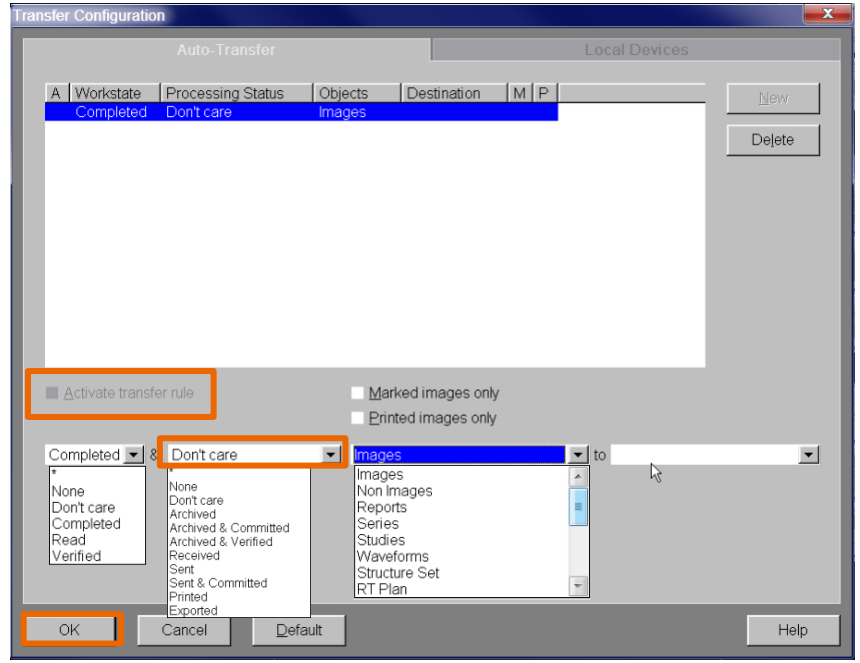
Automatic Sending/Transfer Configuration

You can configure destinations for sending and exporting and set up automatic sending/exporting. Automatic sending should only be set for *syngo* products. To open the automatic sending/transfer configuration panel:

1. Select **Options > Configuration...** in the main menu.
2. Double-click the **Transfer Configuration** button.

Transfer Configuration Button

3. Select **New** to create a new transfer rule.
4. After creating, select **Active transfer rule** to activate your transfer rule.
5. Always select **Don't care** in the second drop-down menu. Otherwise, the transfer rules will not work.
6. Select **OK.**



Please note:

- An auto transfer rule consisting of **Don't care** + **Received** + **Series** or **Studies** will **not** result in an auto transfer. Set **Don't care** + **Received** + **Images** as an auto transfer rule.
- Most cardiac networks and viewing stations only permit processing/viewing with 512^2/8-bit image display.

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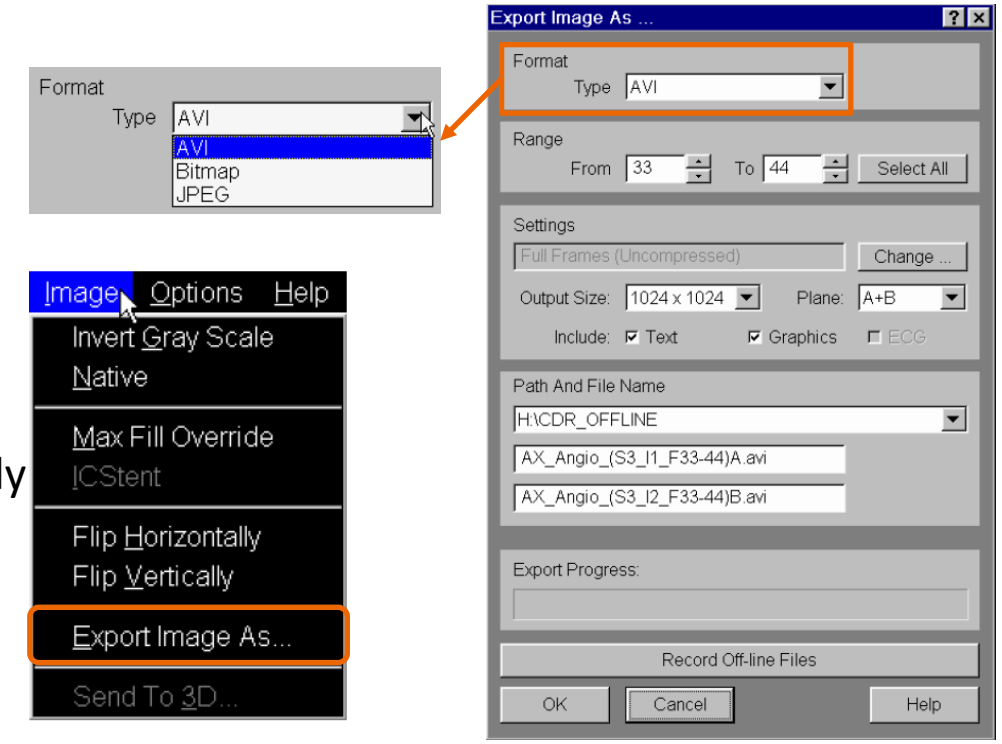
Exporting Scenes/Images

1. Select **Image** > **Export Image As...** in the main menu of the **PostProc** task card. The **Export Image As** window appears.
2. Select the desired format from the **Type** selection list.
3. Select the range (if applicable).
4. Select planes (if applicable).
5. Set the image matrix.
6. Include or do not include text/graphics/ECG.
7. Define the file for the data. The export location is set automatically when the USB device is plugged in.
8. Start the export by selecting **OK**.



Please note:

Scenes/images can be exported in a common format to a directory on an external USB device. The following image formats are supported:

- AVI format (*.avi): Various video compression codecs are supported.
- Windows Bitmap (*.bmp)
- JPEG format (*.jpg)

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Exporting Image Data to an External USB Device

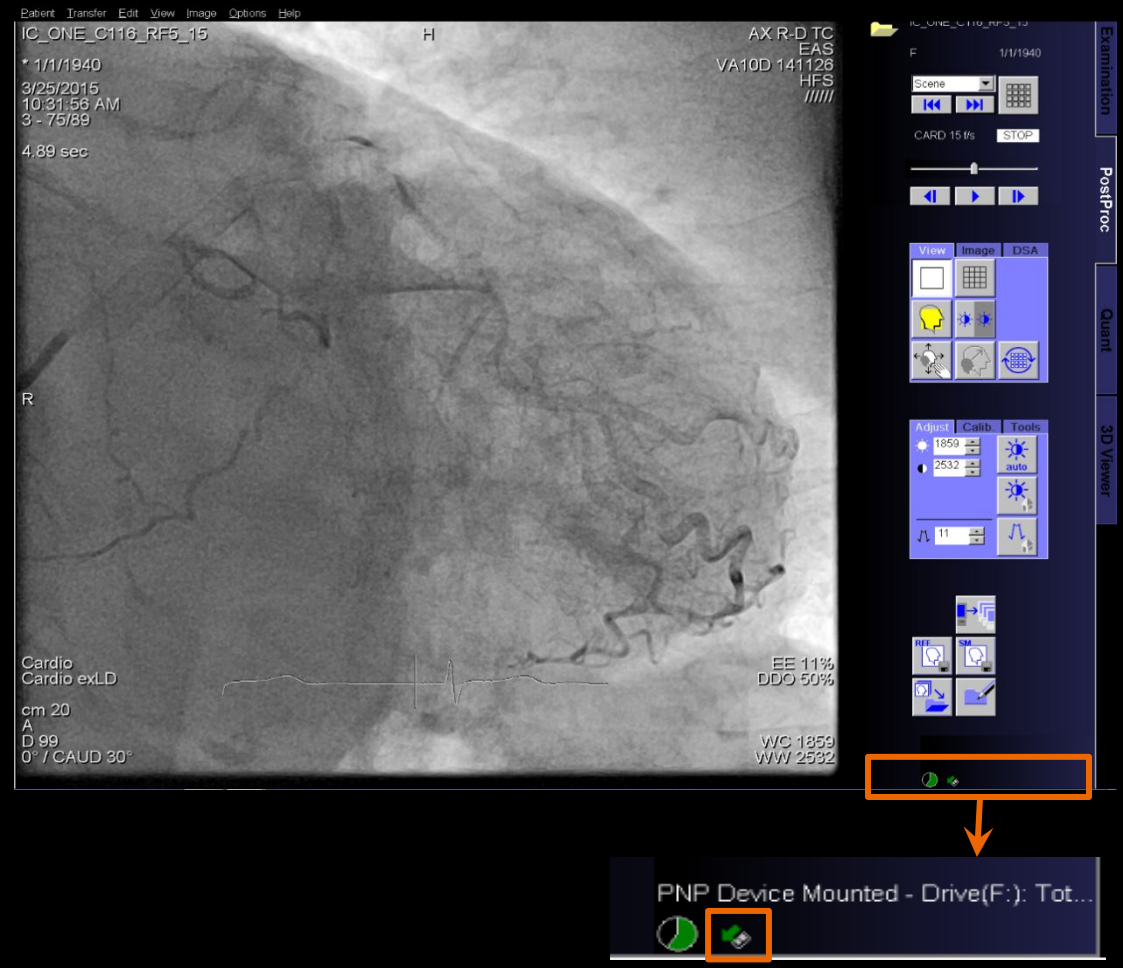
1. Plug the USB device into the USB jack.
2. Wait a moment (until the LED on the drive stops blinking).

Removing the USB Device

4. Single-click the LMB on this icon in the status area.
5. Left-click **Safety Eject PNP Device** to remove your external USB device safely.
6. The USB device can be unplugged following the status message **PNP device can be unplugged** in the status area.

Please note:

If you remove the USB device without deactivating it via the software, this may result in data loss, damage to the operating system and damage to the media. Do **not** immediately unplug a USB device. **Always** use the software functionality for safe removal before unplugging.



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Siemens Healthineers Headquarters
Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Telephone: +49 9131 84-0
siemens-healthineers.com