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Annex II

of MedDream USER MANUAL (version 8.9.0)

MedDream video viewing and converting functionalities

version 4.7.2

The annex describes the usage of MedDream video viewing and converting functionalities.

See the MedDream USER MANUAL document for general information about the MedDream product, installation requirements, and verification, IT security measures.

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MedDream video viewing and converting functionalities

⚠ **NOTE!** Further in text MedDream video viewing and converting functionalities will be referred to MedDream **VideoStation** or short name **VS.**

The annex describes the usage and configuration of MedDream video viewing and converting functionalities.

See the MedDream USER MANUAL document (https://www.meddream.com/files/meddreamviewer/doc/MedDream-User-Manual.pdf) for more information about MedDream product:

- general information about the MedDream product,
- list of applicable standards,
- warnings regarding residual risks,
- installation requirements and verification,
- IT security measures .

Selecting patient

The user can select the patient from:

- WORKLIST – select the scheduled modality worklist from DICOM worklist server (to set up the worklist server - see 7.1.2 Network settings).
- PATIENT – manually fill/update patient information.
- LOCAL – select from VS existing patients.

Figure 1. Select a patient to record a video

Selecting patient from DICOM modality worklist

Select WORKLIST window in the main menu:

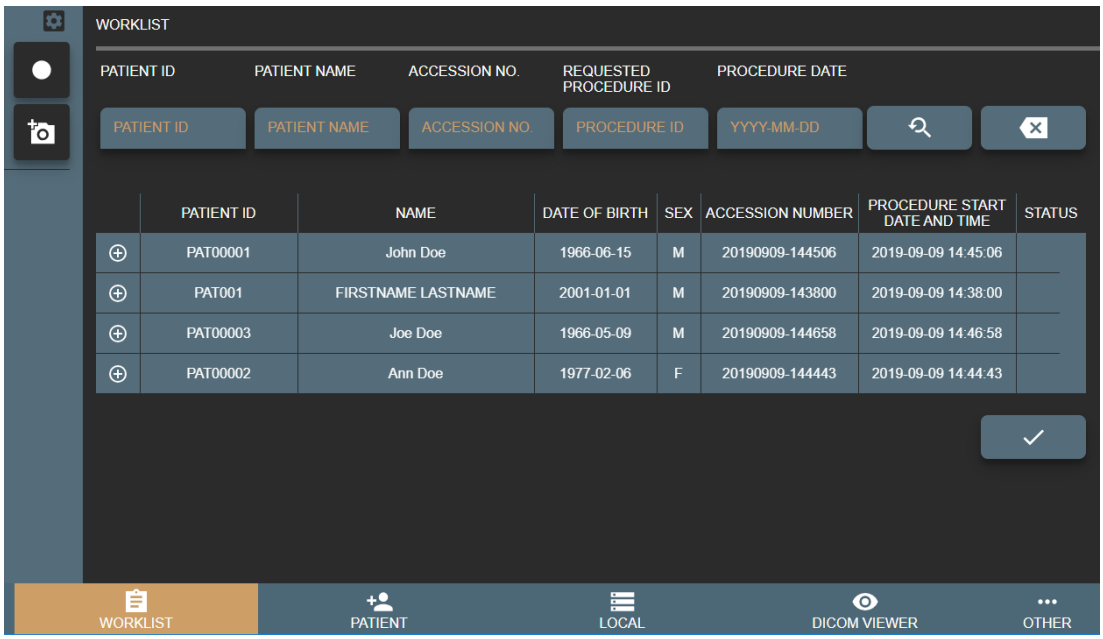

Figure 2. Patient from Worklist

The search can be performed by:

- Patient ID.
- Patient Name.
- Accession Nr.
- Procedure ID – modality worklist scheduled procedure id.
- Procedure Date – modality worklist scheduled procedure start date.

⚠ **NOTE**! To display the correct DICOM modality worklist search result, please see Network settings and adjust the correct worklist character set and wildcard options.

To display more detailed information – press the button ⊕.

Figure 3. Patient information from Worklist

The same information can be accessed via CURRENT STUDY window patient information.

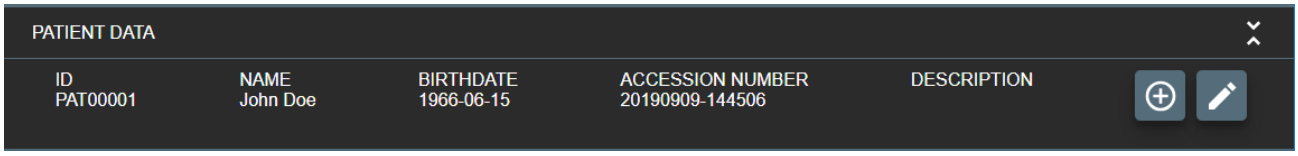

Figure 4. Patient information from the Current study

Select the worklist item with the required patient (which will be highlighted in orange) and press the button ✓. Confirm your action.

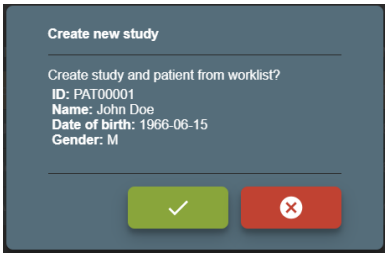

Figure 5. Create a new study from the worklist

Column STATUS can have an icon - 🔗 - which indicates, that the worklist item study has already been created on VS. In this case, by selecting and pressing the button ✓ - the system will open the existing study with the same worklist information.

Create new patient

Create a patient by pressing PATIENT button in the main menu:

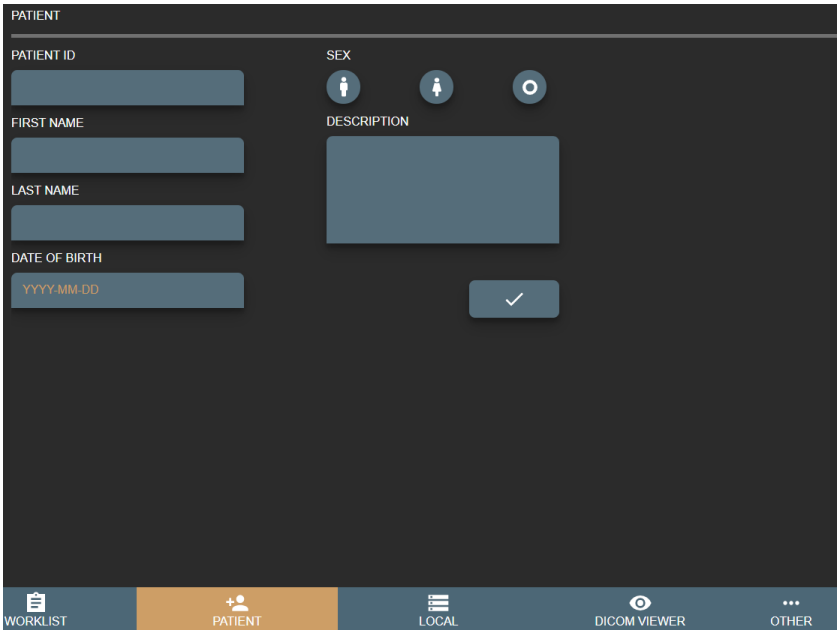

Figure 6. Selecting patient from Worklist

NOTE! It is recommended to look for the existing patient in LOCAL archive, see 1.3 Select patient from local storage.

Fill form fields:

1. Patient ID - max 64 characters, if left empty – will generate automatically from current date and time;
2. First Name – max 64 characters, patient first name;
3. Last Name - max 64 characters, last patient name;
4. Sex – patient sex options of male/female/other;
5. Date of Birth - patient birth date in the format YYYY-MM-DD (e.g. 1985-01-10);
6. Description - max 64 characters for short study description.

NOTE! Please fill all fields correctly to identify patient and avoid editing patient with already existing studies.

In the end, press the button ✓ to create a new study with the patient.

If patient ID already exists but other data is different – VS will open a confirmation window to select one of the options:

- Update existing patient with data? – will update patient data and create a new study,
- Select an existing patient? – will create new study with existing patient,
- Create a new patient? – will create a patient with a new patient ID (will add an extra random number to the added patient ID) and create a new study.

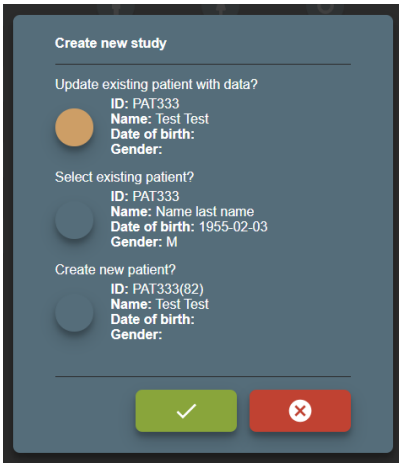

Figure 7. Enter/Select existing patient from the form

Select a patient from the local storage

VS creates patients and studies on local machine that can be accessed by pressing LOCAL button in the main menu.

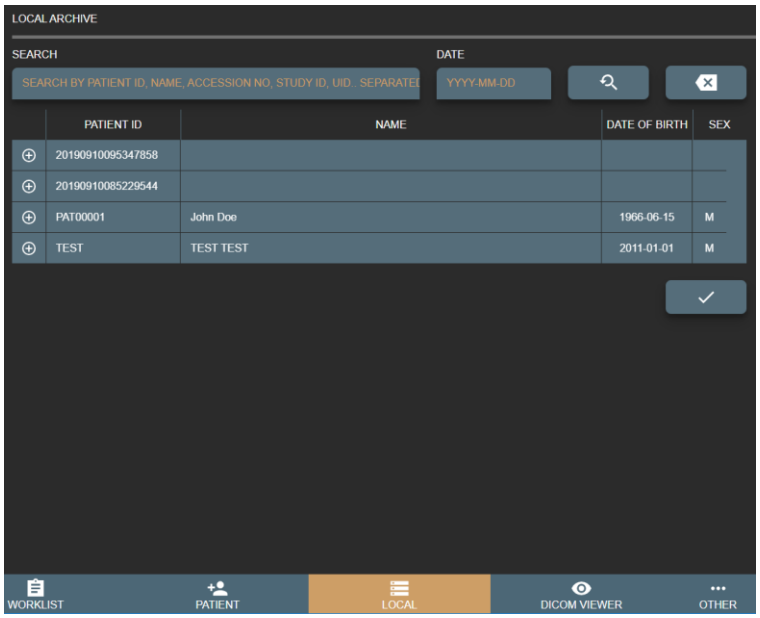

Figure 8. Select patient from the Local archive

The search result is a combination of patients and their studies (patient list, where you can expand and see patient studies). To get the exact patient or study in the search result - fill the search field with patient ID, name, accession number, study description, study ID, or study UID. The DATE field will allow the search of patients studies with the desired study date (see more in section 3. Search for patients and studies).

To create an empty study - select the row with patient information and press the button ✓. Confirm the action.

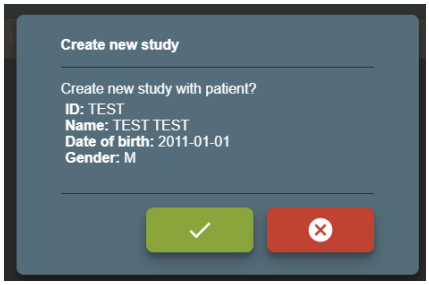

Figure 9. Select patient to create a study

Updating patient data

The user can start the recording process without filling in or selecting the patient in CURRENT STUDY window. It will automatically generate the patient ID from the current date and time. If the study recording is completed or will be closed for today (will review records on another day) - recommended not to forget and update/select the correct patient.

⚠ **NOTE**! Please ensure, that the video recording is not active.

Expand the patient information section by pressing it or the button , and press the edit button .

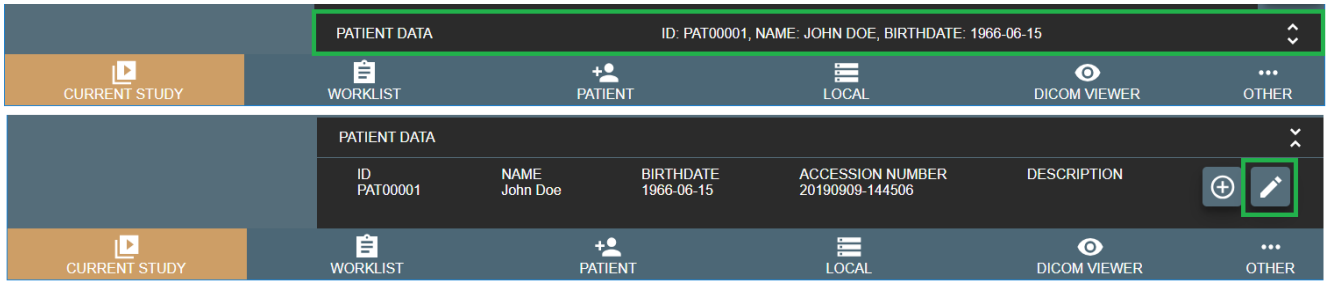

Figure 10. Expanding patient date information and possibility to update patient data

Will appear dialog with options, how to update or replace patient data:

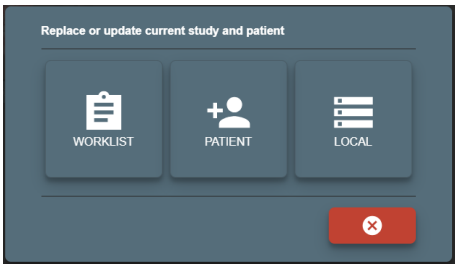

Figure 11. Updating patient data

The user can select from where to take patient data: WORKLIST, PATIENT, or LOCAL

WORKLIST – will open WORKLIST window to select and replace patient and update study data from the remote worklist server. After selecting – will ask to confirm patient replacement:

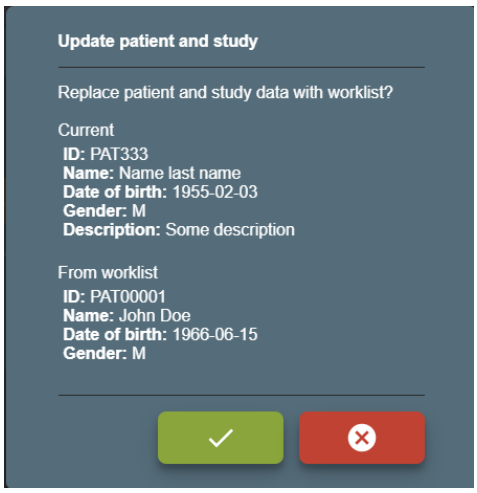

Figure 12. Confirming patient updates from the worklist

PATIENT – will open PATIENT window to manually update patient form.

If the updated patient is a different patient with the same patient ID – will open a confirmation window:

- Update existing patient with data?
- Select an existing patient?
- Create a new patient?

⚠ **NOTE**! See more details in section 1.1 Selecting patient from DICOM modality worklist.

If the study and patient were created from a worklist – changing patient data will lose worklist information (will generate new study UID).

After changes – will ask to confirm:

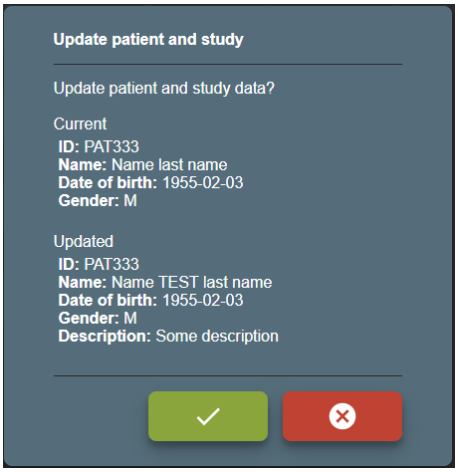

Figure 13. Confirming patient updates from the form

LOCAL – will open LOCAL window to select the patient from the local archive.

If the study and patient were created from a worklist – changing the patient, will lose worklist information (will generate a new study UID). After the change – will ask to confirm:

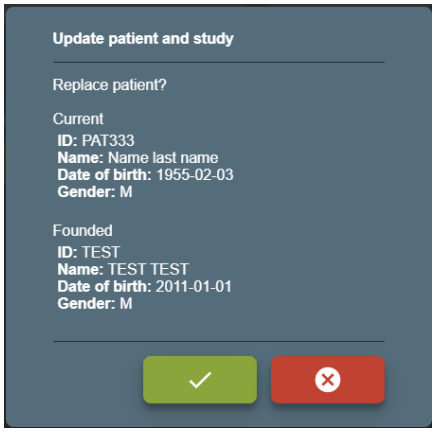

Figure 14. Confirming that patient update from local storage

Recording study

A new study can be recorded by pressing CURRENT STUDY button in the main menu. If the user selects patient or just starts recording by pressing the pedals - will open CURRENT STUDY window.

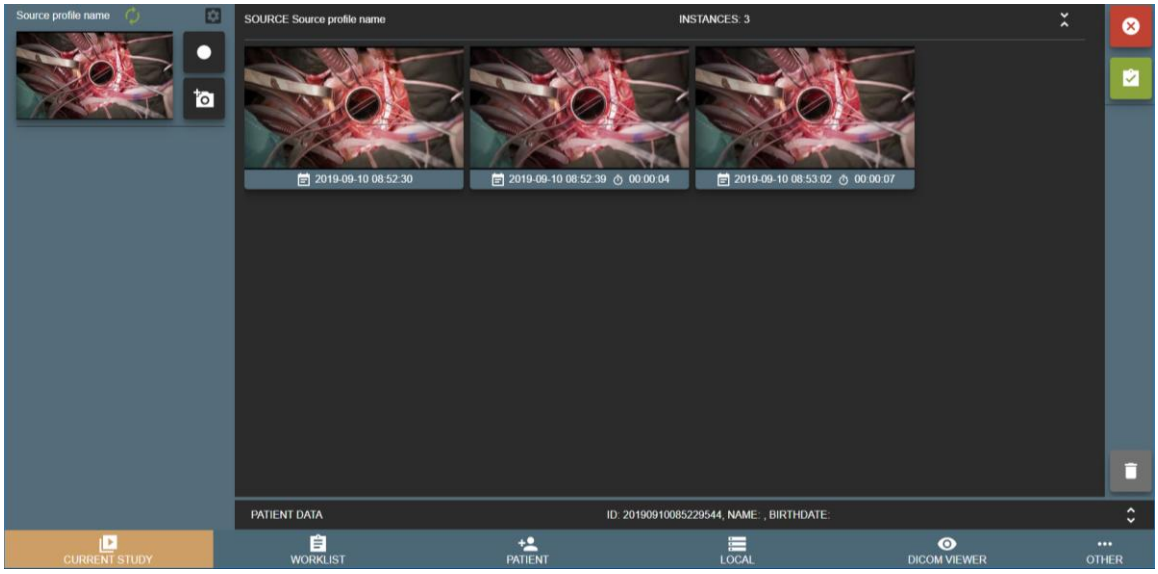

Figure 15. Recording study

The left side of VS software is reserved for multiple input signals streaming windows (max 4 sources for 1920x1080 current design) and the right side is for study records.

VS software is designed to record every input signal into separate series. Series description will be input signal source profile name – to identify device input for every series. For other situations, the input signal stream window is reloaded or the study is opened to continue recording – this will cause to creation of another separate series for every input source signal.

- To take a snapshot/photo - press the button (can take a snapshot while recording).
- To start recording - press the start button and the button becomes red , and will blink , indicating that the recording started.

- To stop recording - press the recording button and the button becomes .

Images thumbnails can be seen after the snapshot is done and display just the date and time under the thumbnail (Figure 19). The video thumbnail can be seen just after the video is done and adds video duration under the thumbnail (Figure 18).

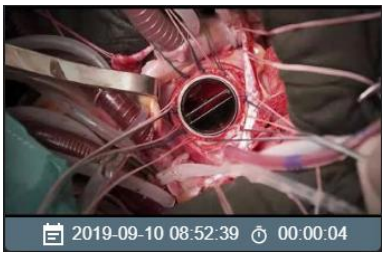

Figure 16. Recorded video

Figure 17. Recorded image

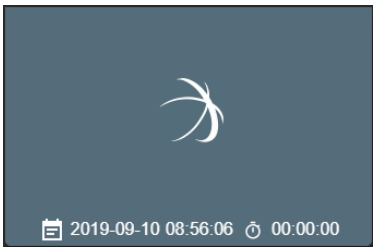

Figure 18. Recording video

NOTE! To record multiple signal inputs with pedals, do not forget to change the source profile ENABLE RECORDING KEYS option in Recording settings. To set pedal keys – see General settings.

During recording, the user can expand the input signal streaming window by pressing on the window. To minimize – press again on the window.

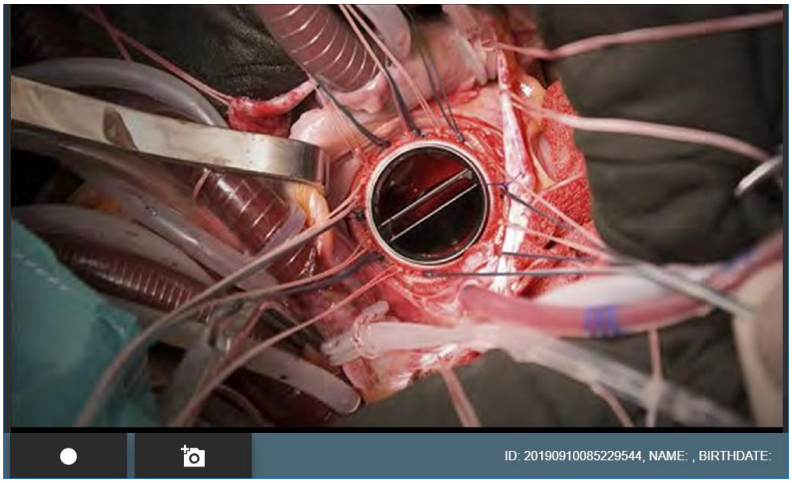

Figure 19. Maximized recording window

To expand the video or image - press on the recorded video or image thumbnail. To minimize – press on button in the bottom right corner.

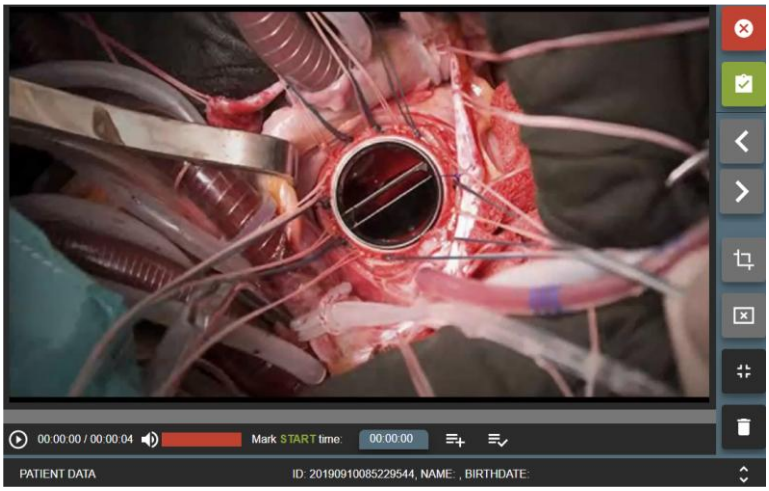

Figure 20. Maximized video

Images or completed videos can be deleted by pressing the button and confirming the delete action.

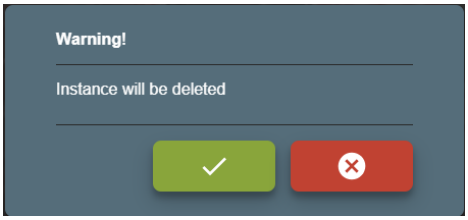

Figure 21. Deleting selected image/video

To delete multiple images or videos – press (to select) on the thumbnail bottom (date and time bar) and press the button .

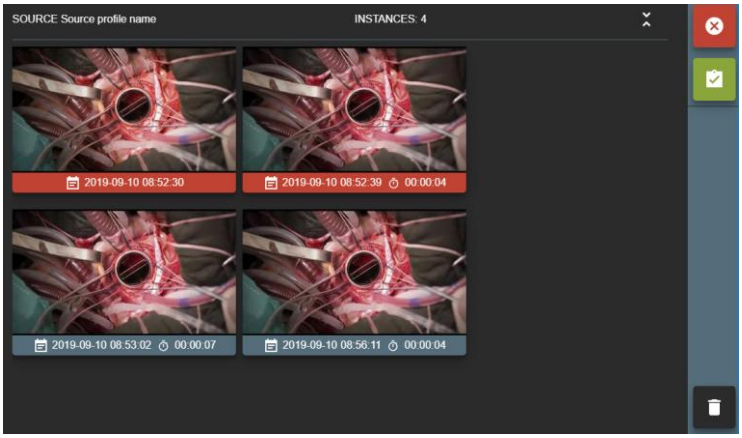

Figure 22. Selected multiple image/video

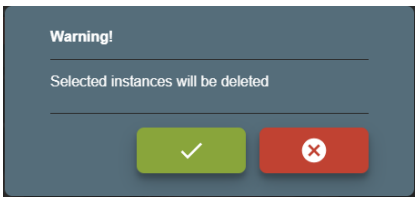

Figure 23. Delete multiple image/video

Saving recorded study.

Then recording is completed (bad images or video was deleted or video trimmed) and patient data is correct – press the save button and confirm the action to complete the study.

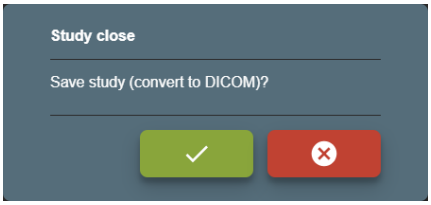

Figure 24. Close study and complete

The user will be redirected to TASKS window and can see information about saved and sent study: files will be converted to DICOM format. After the study is completed (converted to DICOM) – will try to send it to hospital PACS (requires to set up remote DICOM archive in Network settings).

⚠ **NOTE!** During conversion to DICOM – the user will not be able to open this study. The user can stop the task and roll back to the image and video. After the rollback task is completed – can open the study for editing in CURRENT STUDY window.

⚠ **NOTE!** After the conversion is complete – can open the study in DICOM VIEWER window.

If the user press the close button and confirms the action - the study will be closed (no conversion to DICOM). This is not recommended action, but in quick situations, where need to start a new patient recording and a previous study requires review/edit – press the button and confirm the study closed.

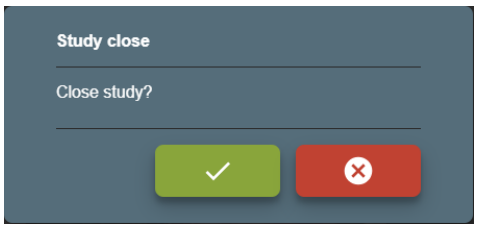

Figure 25. Close study

Search for patients and studies

Open the search by pressing LOCAL button in the main menu. The search result will be a patients list with studies (expand patient record by pressing the button and see studies). To get the exact patient or study in the search result, you can fill the search field with patient ID, name, accession number, study description, study ID, and study UID. DATE field will allow the search of patients studies with the desired study date. Search can be made by exact, partial word fragment or by several criteria separated by space.

Figure 26. Searching patient in Local storages

Indication icons on select patient and his studies.

There are multiple icons indicating the status of the study and other processes:

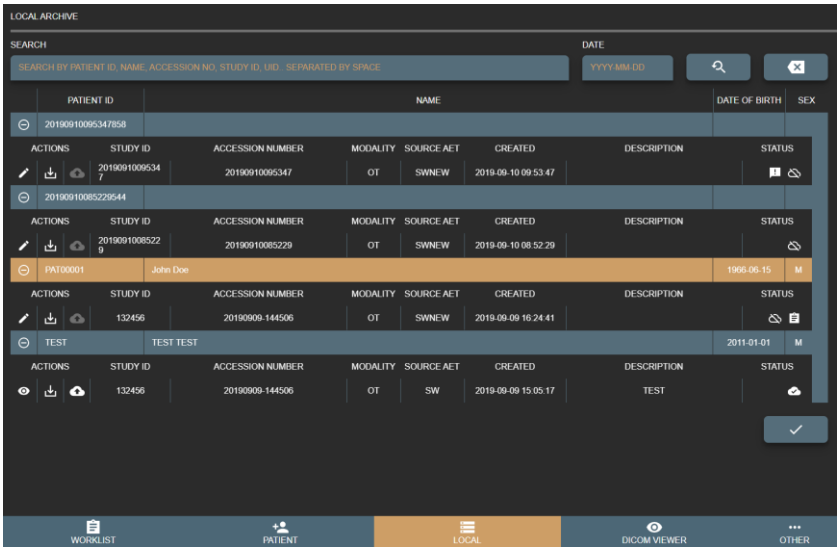

Figure 27. Patient study list

Button to open not saved (not converted to DICOM format) study in CURRENT STUDY window for more changes.

Button to open already saved (converted to DICOM format) study in DICOM VIEWER window.

Button to export the study to a local or external drive.

Button to forward the study to hospital PACS (requires to set up remote DICOM archive in Network settings).

A new study in the list, not reviewed.

The study is not stored in hospital PACS.

The study is stored in hospital PACS.

Study and patient information are selected from the scheduled modality worklist.

Trim video

This function is to cut good video parts and combine them into new shorter video file. For example, if the video recording started before the patient comes into the operating room or finished when the operating room starts cleaning after surgery – the user can remove these video parts. Can edit the completed video and return to the original as many times as you like. If the video trim is completed and saved - will override original video.

The main idea is to select desired scenes/video chunks of time (make a time list) and combine them into one video.

To trim the video, follow the steps below:

- Press on selected video thumbnail and open video.
- Manually select in the progress bar or write the start time of the video and press the button :

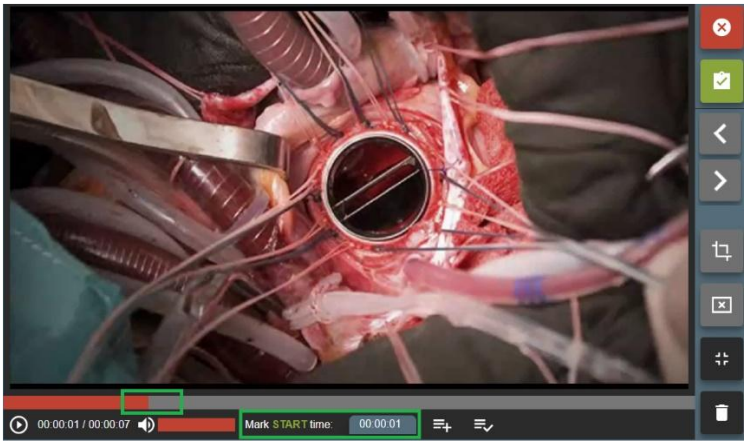

Figure 28. Trim start time

- Then select in the progress bar or write the end time of the video and press :

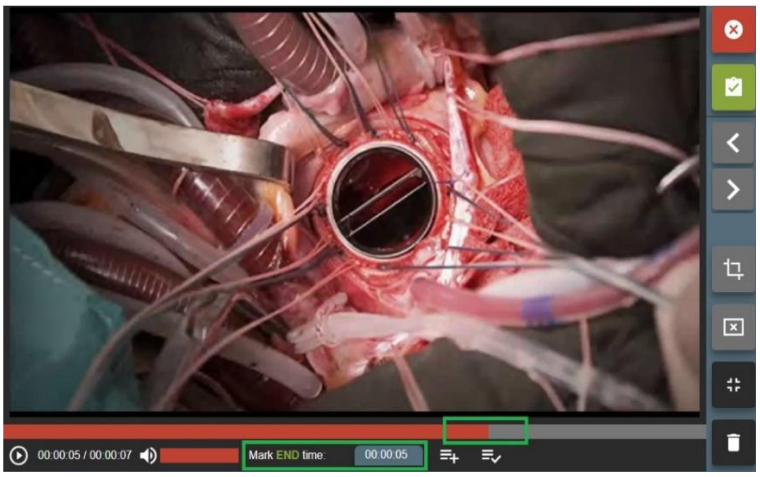

Figure 29. Trim end time

- Will display times of video from where start and where to end video cut in the right upper corner:

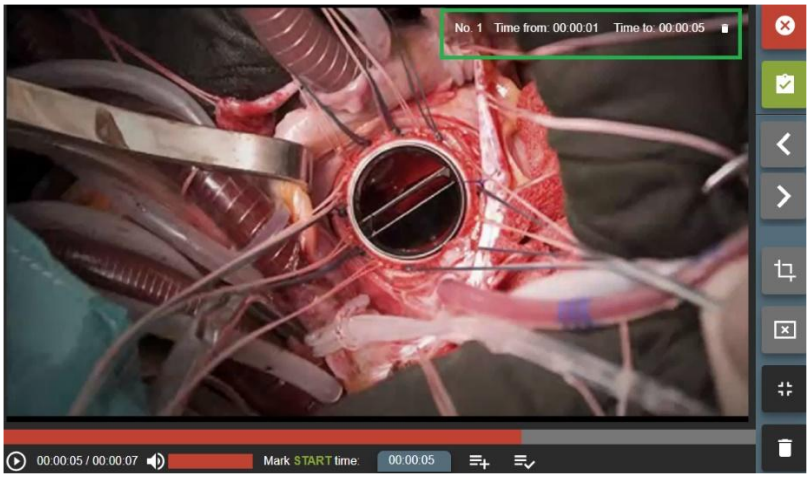

Figure 30. Trim time interval

- Time periods can be updated, deleted, or added more.
- To trim the video – press the button and confirm video time pieces:

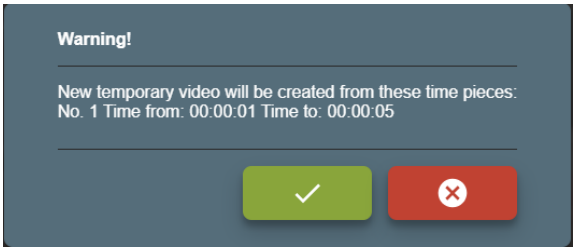

Figure 31. Make trim

After a few seconds (depending on the system load) will combine a new temporary video. You can review the video and see if all has been done correctly. If some parts are missing – press the cancel button to remove the temporary video and go back to the original.

⚠ **NOTE!** The video cut time error is +/- 1s (depending on the video frame rate and frames at a particular time).

- To save a new video and replace the original – press button .

Figure 32. Save or cancel the modified video

DICOM Viewer

VS has integrated DICOM viewer and can view saved (converted to DICOM) or received from hospital PACS studies in DICOM VIEWER window.

Find the patient study from LOCAL window and press the button .

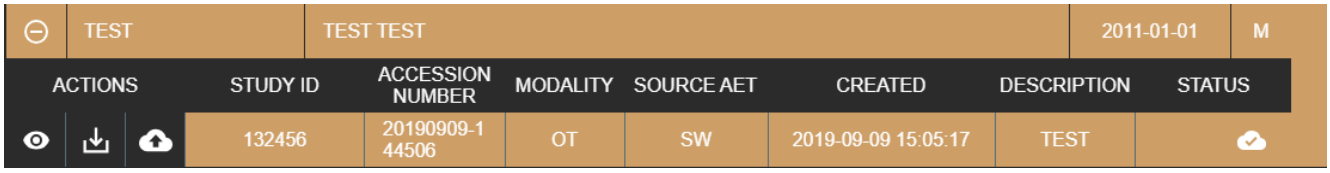

Figure 33. Opening saved study

The study opens in the integrated DICOM VIEWER window.

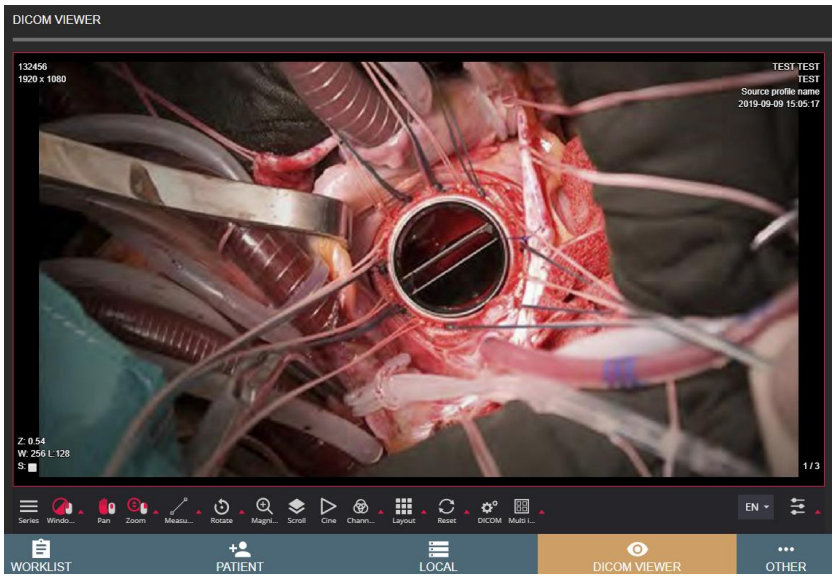

Figure 34. DICOM viewer

Tasks

Tasks represent VS process actions, that can be done in the background.

Services: In the menu “Other ->Settings-> Storage -> Services” the administrator can stop/start services.

VS uses services:

- STUDY TO DICOM SERVICE STATUS – responsible for saving (convert to DICOM) studies, recommended always ensure, that this service is running.
- STUDY TO DICOM ROLLBACK SERVICE STATUS – responsible for converting back DICOM files to image and video format. This service is used to convert back DICOM files because conversion fails or the study needs more changes.
- FORWARD STUDY TO DICOM ARCHIVE SERVICE STATUS - responsible for sending saved studies to remote PACS.
- EXPORT STUDY SERVICE STATUS - responsible for exporting the study to external storage.

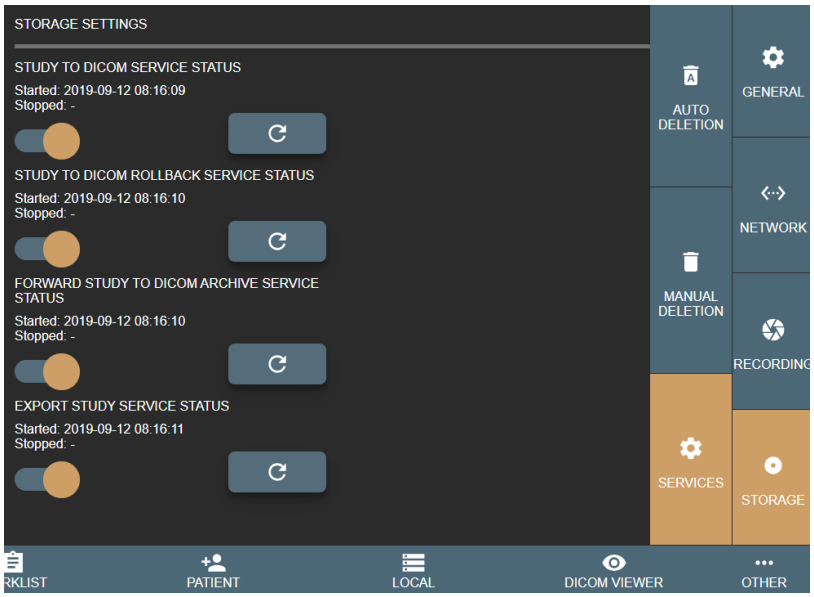

Figure 35. Services settings

See the installation documentation for detailed information about the settings.

Each Service status can be checked by pressing the refresh button .

TASKS: In the menu “Others -> Task” the user/administrator can check each study saving process and find their status. The task list is divided into 3 categories:

- NEW/STARTED – started or pending tasks.
- STOPPED – stopped tasks. The user can try to load again later.
- COMPLETED – successfully finished tasks. All completed tasks without errors, will be deleted after 1 hour.

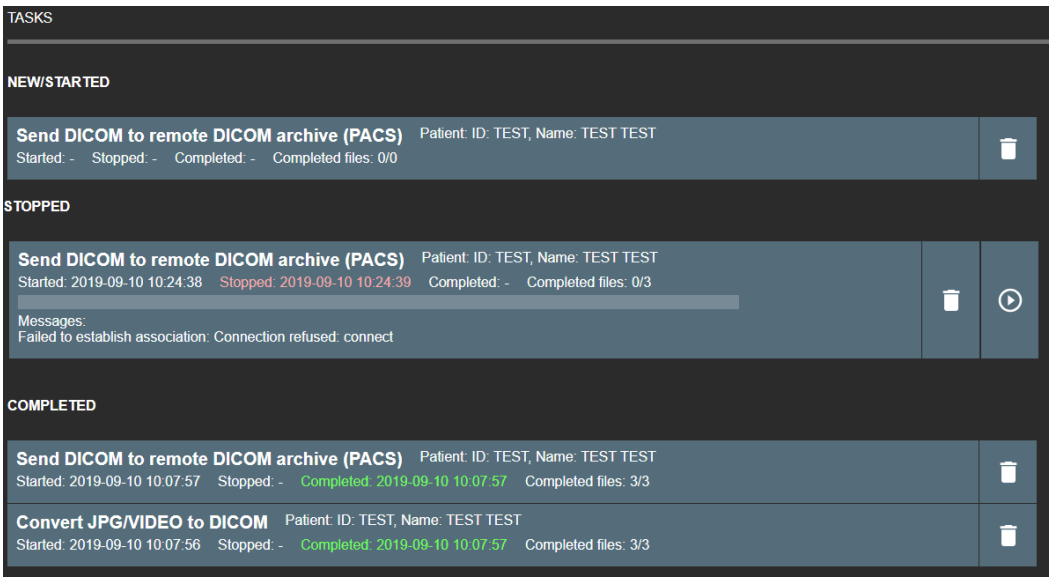

Figure 36. Task list

Buttons explanations:

Try running the task again.

Stop running the task.

Rollback the task. This button will appear on the failed “CONVERT JPG/VIDEO to DICOM” task. Allow the user to return all DICOM files to images or video for more study changes.

Delete task.

Tasks lists are refreshed automatically.

Settings

MedDream Video viewing and converting functionalities may be customized via settings. Customization possibilities:

- Custom video settings.
- Multi languages support: English, Lithuanian, Russian other languages by request.
- Additional foot pedal support.

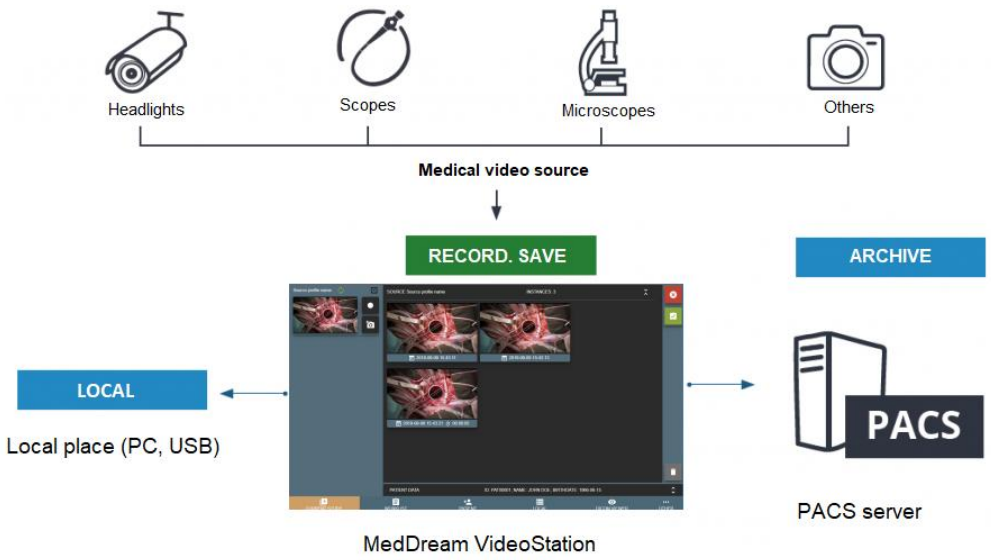

Figure 37. Connection diagram

VS settings are located in OTHER > SETTINGS of the main menu.

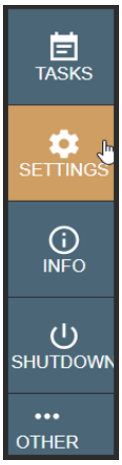

Figure 38. SETTINGS menu item in OTHER expandable menu

Settings are grouped into the following groups: GENERAL, NETWORK, RECORDING and STORAGE.

See the installation documentation for detailed information about the settings.

⚠ **NOTE**! To ensure proper VS operation, the settings should only be modified by the system administrator.

About VS and license

Information about the MedDream video viewing and converting functionalities is displayed on the left side of the License and product info window.

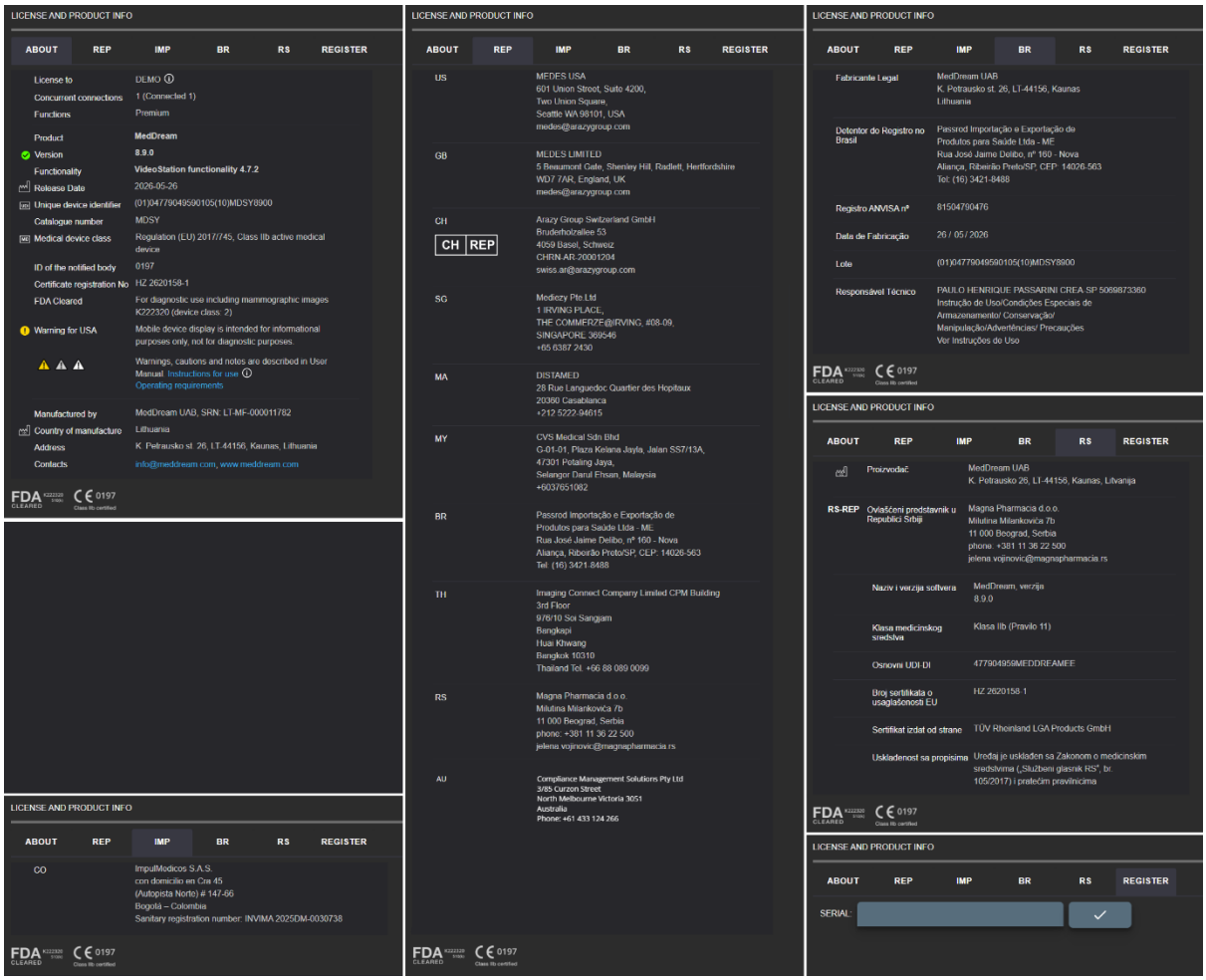

Figure 39. About MedDream video viewing and converting functionalities

To register or update the license, use the license registration form on the right side of the License and product info window:

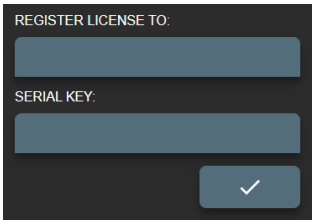

Figure 40. License registration form

- In REGISTER LICENSE TO field enter the organization or end user name.
- In SERIAL KEY field enter the serial key, that you have got from the software provider.

Press the registration button .

⚠ **NOTE!** Registration requires internet access to https://lic.meddream.com.

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