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1 Conventions and Trademarks

1.1 Typographic conventions

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Key A at the keyboard.</td>
</tr>
<tr>
<td>Ctrl-A</td>
<td>Control key. Hold down Ctrl key and A simultaneously.</td>
</tr>
<tr>
<td>Icon</td>
<td>Icon in toolbar.</td>
</tr>
<tr>
<td>*.mat</td>
<td>Filename extension.</td>
</tr>
<tr>
<td>C:/Program</td>
<td>Folder.</td>
</tr>
<tr>
<td>File</td>
<td>Menu, e.g. File menu.</td>
</tr>
<tr>
<td>File→Save As</td>
<td>Sub menu, e.g. under the File menu the item Save As is found.</td>
</tr>
<tr>
<td>Close</td>
<td>Push/Toggle button in the graphical user interface.</td>
</tr>
<tr>
<td>□ Endocardium</td>
<td>Radiobutton in the graphical user interface.</td>
</tr>
<tr>
<td>□ Single frame</td>
<td>Checkbox in the graphical user interface.</td>
</tr>
</tbody>
</table>

1.2 Trademarks

Below are some of the trademarks used in this manual.

- Segment is a trademark of Medviso AB.
- Segment DICOM Server is a trademark of Medviso AB.
- Sectra PACS is a trademark of Sectra Imtec AB, [http://www.sectra.se](http://www.sectra.se).
- Matlab is a trademark of the Mathworks Inc, [http://www.mathworks.com](http://www.mathworks.com).
2 Requirements

2.1 System requirements

- Operating System: 64-bit Windows 10
- Computer with 8 GB of memory or preferably 16 GB
- Harddisk with at least 5 GB of available space
- Graphics card supporting both DirectX and OpenGL

To access full version of machine learning algorithms in Segment:
- CUDA enabled NVIDIA graphics card

For users with additional modules not included in the free research version:
- Internet connection for software license management

- Systems with two screens is recommended
- Using SSD disk for reading data is recommended

For Mac Segment can be run on virtual machines such as Parallels or using dual booting

2.2 Safety Instructions

The computer where Segment is installed should have

- anti-virus protection installed to protect against cyber attacks
- login to access Segment to ensure that only accredited users use the device
- backup on patient data to ensure no data is lost

In the preferences for Segment the user can activate user login to the device and user logging for the usage of the device.
3 Installation guide

3.1 Installation

To be able to perform the installation you need to have administrator privileges on the machine. The latest Segment version can be downloaded from Medviso AB homepage (http://medviso.com/download2/). You need a password to download the software, which you should have received at the time of purchase. If you have lost the password, please contact sales@medviso.com. Download the Installation file, double click it and follow the instructions in the figures below.

Figure 1: Click on Next.
CHAPTER 3. INSTALLATION GUIDE

Figure 2: Select Add a shortcut to the desktop. Click on Next.

For first time installation, Matlab Compiler Runtime (MCR) needs to be installed according to Figure 3 - 6. For upgrading, continue according to Figure 7.

Figure 3: Click on Next.
3.1. INSTALLATION

Figure 4: Select Yes. Click on Next.

Figure 5: Click on Install.
CHAPTER 3. INSTALLATION GUIDE

Figure 6: Wait for completed process.

For upgrading, only install Segment according to Figure 7 - 8.

Figure 7: Click on Next.
3.1. INSTALLATION

Figure 8: Click on Install.

For both first time installation and upgrading, continue according to Figure 9.

Figure 9: Wait for completed process.
3.2 Add software license code

For new installations you need to add your license code for Segment. Add your license code after installation by starting Segment and select Generate License under the Help menu in Segment. Note that you have to run the software as Administrator to be able to add the license code in Segment. If you have lost the license code, please contact sales@medviso.com.

3.3 Starting Segment

To start the program, double click the file `C:/Program Files/Medviso/Segment/application/Segment.exe`, or your shortcut to it. When starting the software, the image in Figure 11 should be displayed. If it is not displayed, then the software is not correctly installed.

3.4 Uninstallation

To uninstall Segment, remove all files in the folder `C:/Program/Medviso/Segment` or `C:/Program Files/Medviso/Segment`. User preferences are stored in the Application Data and the subfolder Segment under each user account. To uninstall the Matlab Compiler Runtime, use the Windows functionality Install or Remove Programs in the control panel menu.
3.5 Software overview

An overview of Segment is given in Figure 12. To learn more about each tool, hold the mouse over the icon in the software and a help text will be displayed.

3.6 First time running Segment

The first time Segment is started, it runs a setup process which can take a while, so be patient. To complete the setup, set preferences and window positions as described in Sections 3.6.1 and 3.6.2.

3.6.1 Setting preferences

It is recommended to set the preferences of which folders to use to avoid browsing each time you want to load or save a file. It is invoked by using the icon (p). Set Data, Export and CD folders.
Figure 12: Main graphical user interface.
3.6.2 Setting window positions

The position of the main window for Segment can be set by dragging the window to an optional position and size. The size and position will be saved so that next time Segment is launched the same position will be used. In case where one have switched to another monitor, Segment may move outside the screen. In this case you could press Shift-Ctrl-R to reset GUI positions. This is also available under the File menu (a).

3.6.3 PACS connection

Setting up PACS connection and Segment Server usually requires help from your local PACS support, and we recommend that you contact us to setup a telephone / web-based video conference to make this process as smooth as possible. The Database and PACS connection manual and the Sectra PACS plugin manual is found at Medviso AB homepage (http://medviso.com/user-manuals/). The Sectra PACS plugin may require additional Microsoft Visual C++ components that can be downloaded from Medviso AB homepage (http://medviso.com/download2/).

3.7 Trouble shooting

The absolutely most common problem is the failure to not login as a local administrator of the computer. The second most common mistake is not to read the installation instruction provided in this user manual.

To trouble shoot the installation you can see if the Segment installation program actually was successfully started by checking for the existence of .log files. Segment creates a log file during installation, this file is stored in the user folder (i.e Documents and Settings/Username and Application Data and the subfolder Segment). Note that this folder by default is hidden. If you have problems installing Segment, please send this log-file to support@medviso.com together with a description on what problems where encountered.

Possible bottlenecks are (in order of likelihood) lack of RAM memory, CPU speed, and I/O network or disk transfer rates.