RTmedes[®] 1.0

User guide

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Welcome

Dear customer! This user guide introduces you to RTmedes, a software which helps you get the overview of your DICOM RT data collection. If you miss any information, please have a look at our web page (<u>www.rtmedes.com</u>), where we have collected the answers to frequently asked questions. If you need further assistance, do not hesitate to contact us.

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Intended use

RTmedes is a computer software system providing *overview* of *DICOM* radiotherapy data collection and graphical preview of radiotherapy plans for the purpose of data selection.

Medical

device

RTmedes is a class I medical device according to Medical Devices Directive 93/42/EEC. TatraMed Software s.r.o. is certified according to ISO 13485, Medical devices -- Quality management systems -- Requirements for regulatory purposes.

RTmedes®	CE	i	2016	LOT 1.0.X	
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Quick start

Launching RTmedes

After the installation, RTmedes icon is placed on your desktop and in your Start menu. Use either of them to launch RTmedes.

Choosing

folders

For RTmedes to show any data, you need to set up at least one folder containing RT data. To do that:

- 1. Select & Settings in the bottom toolbar. Folder Setup window appears.
- 2. Click *plus* button to add a new folder.
- 3. Browse to the desired folder
- 4. You can add as many folders as you like. Each folder can be named symbolically, so that you can easily manage them later.
- 5. When done, click *Ok* button.

Viewing

plans

When the system detects DICOM data, it provides plan-oriented information about the data.



The information is shown in a hierarchical manner organized into patient, plan and beam/application setup levels. The information is shown as a text or as an icon; in addition, tooltips are displayed over icons, providing more detailed explanation of the icon meaning.

- On patient level, patient's name and ID are displayed. If plans are available for the patient, the total number of plans is shown, as well as the date of the newest plan. If no plans are available, the date of newest images or structure set is shown.
- Click ⊙ (arrow) next to the patient's name to display patient's plans. On plan level, plan name, plan intent and plan date are shown. The plan icon indicates the plan type; additional icons indicate the plan approval status, dose, structure set, planning images and RT images availability.
- 3. Click ⊙ (arrow) next to a plan to see more details external radiotherapy plans display beam list; brachytherapy plans show application setup information.
- 4. <<<*Other data*>>> contains all image series and structure sets which could not be paired to any of the plans available

Searching

While browsing the data:

- 1. Start typing any text.
- 2. The patient list is automatically filtered by patient's names and patient's IDs containing the text entered.
- 3. To cancel the filter, press Esc or click × (cross icon) in the Search bar.
- 4. Alternatively, you can also use *Search bar* to enter or modify the text.

Ordering the patient list

When you start RTmedes, the list is sorted by the newest plan date. Patients having the most recent plans are at the top of the list. To change the order:

- 1. Select the desired order using Arrange by selection in the top bar.
- 2. To toggle between ascending and descending order, re-select the same criteria in *Arrange by* selection.

Selecting

data

The selection marks the data which you wish to export or preview.

Use check boxes next to patient, plan or individual objects in <<<0ther data>>>.

- 1. Toggle the check box next to a patient to select or unselect all the patient data available.
- 2. Toggle the check box next to a plan to select the plan.
- 3. Toggle the checkbox next to *Select all* in the top bar to select or unselect all available data.

Exporting

data

- 1. Select the data you wish to export.
- 2. Click 𝔤 Export.
- 3. Select a folder to export to.
- 4. The data is exported to the selected folder. For each patient, a separate subfolder is created using the patient's name and the export date and time.

Previewing images, plans and doses

A preview of a plan, its dose distribution, or just an image series, can be shown.

- Select the plan or the image series under <<<Other data>>> which you would like to see. Note that only a single plan or a single series can be selected.
- 2. Click ☑ Open.
- 3. An image viewing window appears, showing an image from the plan or series selected.
- 4. Croll in the image series using the mouse wheel, or using the toolbar at the bottom of the image.

- 5. O Adjust window level and window width by moving the mouse while the left mouse button is pressed down.
- 6. Ctrl+ Adjust zoom using the mouse wheel while holding Ctrl key.
- 8. Ctrl+^{2x} ⁽¹⁾ Double click the left mouse button while holding Ctrl key to reset the view.
- 9. Click -• *Dose* to select whether to show the dose information.
- 10. The mouse over the image to see the dose information and the dose isoline through the mouse point.
- 11. Click \times *Close* to finish working with the preview.

Installation

Web-based installation

The easiest way to install RTmedes is via the web-based installation. Please navigate to *Download* section of <u>rtmedes.com</u> web page, and select *Online installer*. When asked, allow the computer to install the software.

Installing RTmedes via web-based installer ensures that all the necessary prerequisites are installed if needed.

Additionally, if RTmedes is installed in this way, it checks for a newer version on web on later launches if your computer is online. If there is an updated version available, it offers to install the new version.

Manual installation

When it is not possible to install RTmedes in this way, you need to download the standalone install kit and perform the necessary prerequisite installations manually. This can be the case if your computer is offline or behind a proxy server which does not allow direct HTTP connections.

Please navigate to *Download* section of <u>rtmedes.com</u> web page, and select *Stand-alone installer*. You are then navigated to a page from which you can download the installation kit which can be deployed on any computer. Prerequisites needed by RTmedes can also be downloaded from the same page.

Licenses

Licensing model

RTmedes requires a valid license to run. When you purchase the license, we will send you an *Activation key*, which you have to enter in the *License* window.

You can obtain a trial key using our web page.

Managing the license

To use the Activation key:

- 1. When RTmedes is launched for the first time, it requests the activation key automatically.
- 2. Alternatively, click ? (*About*) in the bottom bar; then click *License* in the information window.
- 3. Enter the Activation key you received.
- 4. Click *Validate*. RTmedes will check whether the license is valid; if the validation fails, the reason will be displayed in the *License* window.
- 5. Now you can use RTmedes for the period of your license validity.

Offline activation

If the computer is not connected to the internet, is behind a proxy server, or there are other problems when contacting the license server, the system will not be able to validate the license automatically. When this happens, RTmedes will provide an option to activate the license offline:

6542118612	000124575		Validate
nternet conr	ing the license server. ection, your firewall o ter is not connected to	r the license serv	er may be offline.

To activate the license offline:

1. Click on the *click here* link in the error message (see the picture above). This opens window with additional information which is needed for offline activation:

	6542118612000124575
	and your computer ID
	8D8B-F64A-DEA1-BA00
3.	Please enter your computer key from the web page here:

- 2. Visit <u>licensing.rtmedes.com</u> web page and select Activate license.
- 3. Enter the Activation key and Computer ID from the window in the picture above and select Activate license.
- 4. Copy the *Computer key* from the web page and enter it in the offline activation window in RTmedes.
- 5. Click OK.

License expiration

The *About* window always shows the validity period of your current license. At the end of the validity period, you may need to enter a new *Activation key* or to re-activate your current key.

The validity period shown may be shorter than the period for which the license is purchased. In such a case, re-validating the license when the current validity expires is usually enough. If re-validation fails for any reason, please contact us.

3rd party software

RTmedes uses some 3rd party software libraries for its functionality. This is the list of the libraries and accompanying license information.

FO-DICOM v.2.0.2

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Math.NET Spatial v.0.2.0-alpha

Math.NET Numerics v.3.0.2

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