

dicom_rename_tool

User's Guide

Version 1.0

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The University of Freiburg is not in the position to provide any support in relation with this software. Therefore the program is delivered only on a 'as it is' basis.

Nevertheless the developers of the software are open to comments and suggestions for improvements.

The software is not intended to be used as a tool to achieve information for clinical diagnosis.

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Up dates of this manual will be found on www.MRDAC.com .

Introduction

Exporting MR-Data from an Siemens MR-System running under Numaris4 results in a CD containing the individual Dicom files. However the naming of this files is somehow 'cryptic' and does not allow any conclusion about the content (patient name, study or image number).

The dicom_rename_tool is as small utility to rename such dicom files using the header information included in each file.

The generated files will be named like

```
<patient name>_<series #>_<image #>.dcm .
```

The tool is tested for Siemens DICOM Files acquired with Siemens MR-Systems running Numaris4. There is no reason why it should not work with DICOM files of other sources however it is not tested.

The tool is tested with matlab 6.5 R13 running on a Windows NT PC. There is no reason why it should not run on other platforms including Linux and Unix with the same matlab release however it is not tested.

Matlab is a product of The MathWorks, Inc. [<http://www.mathworks.com/>] and NOT part of this tool and has to be purchased separately.

Software Installation procedure

Extract the zip file.

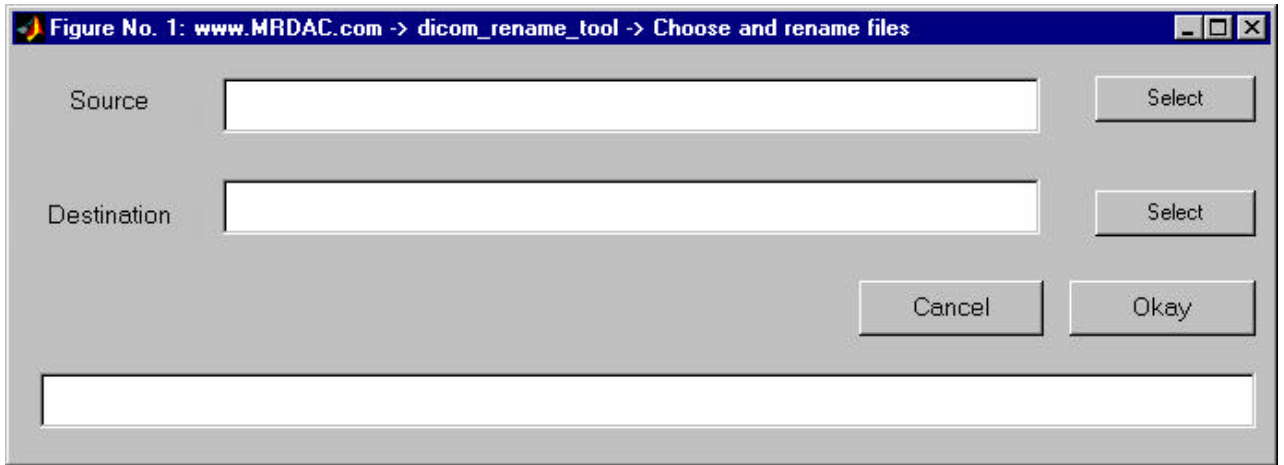
Copy all files to a directory which is included in your matlab search path or include the path (including all subdirectories) where the dicom_renam_tool files are located to your matlab search path.

Starting dicom_rename_tool

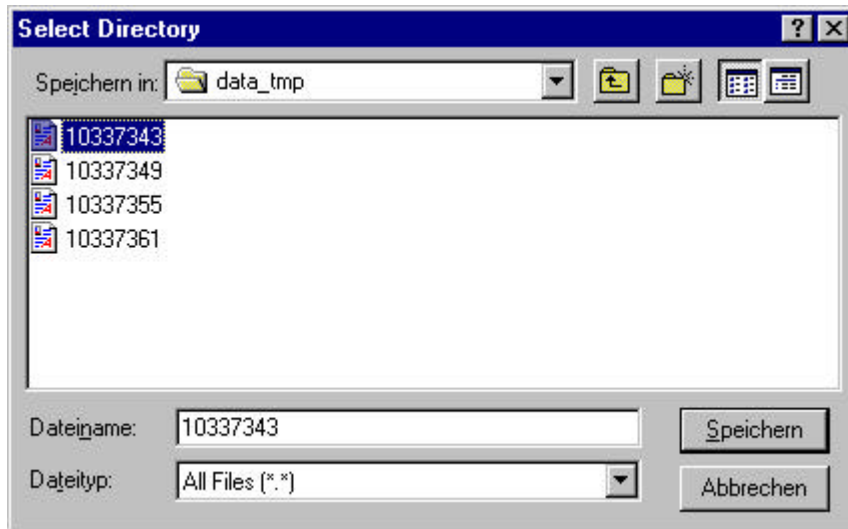
In your matlab command window just type

```
>> dicom_rename_tool
```

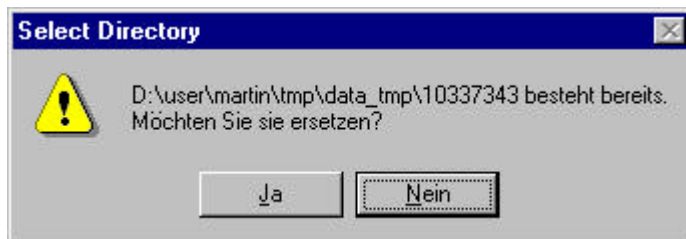
The following window will appear.



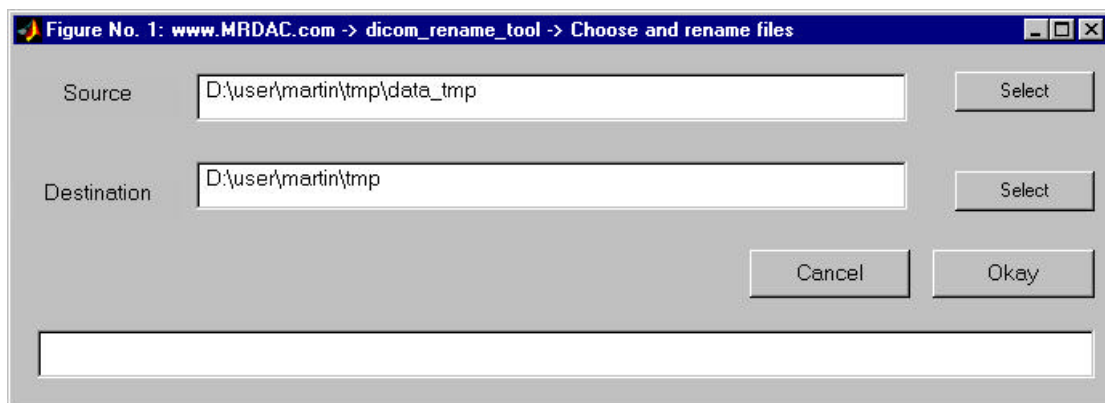
First you have to select a source directory by hitting the select button in the first line. A file selection directory will pop up. Go to the directory where your dicom files are located. You may have to change the filetype (= Dateityp) in the gui to 'All Files (*.*)' to see the .dcm files. Select any dicom file in this directory. Only the path of the directory will be passed to the tool, since ALL dicom files in this directory will be renamed.



Just hit 'Yes' (= 'Ja') in the next window.

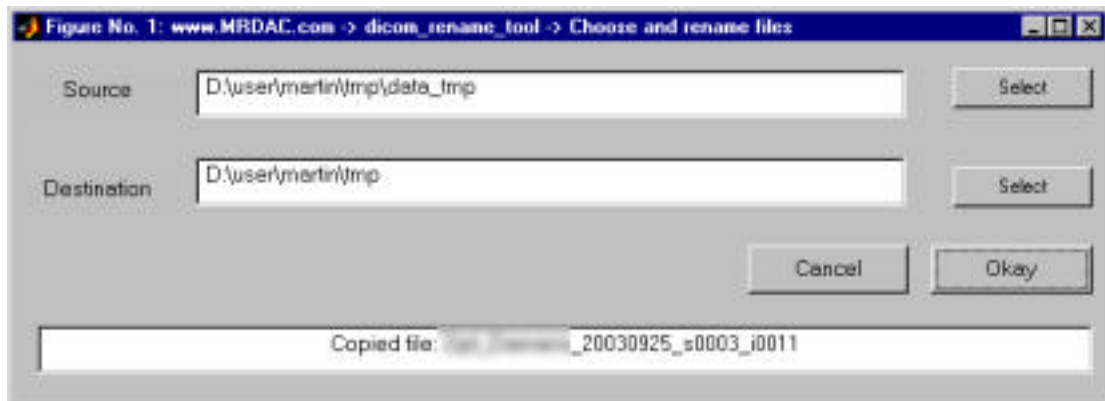


Do the same to select a destination path.



Start the renaming procedure with the 'Okay' button.

During the renaming process the name of the actual file is displayed in the status line at the bottom of the tool.



After processing all files the window disappears.

The renamed files will look like this:

```

↑..[.]
  volunteer_name_20030925_s0004_i0011 dcm 561.992 25.09.2003 16:40
  volunteer_name_20030925_s0004_i0012 dcm 561.996 25.09.2003 16:40
  volunteer_name_20030925_s0004_i0013 dcm 562.002 25.09.2003 16:40
  volunteer_name_20030925_s0004_i0014 dcm 561.998 25.09.2003 16:40

```

The tool can handle series and image numbers up to 9999, which should be enough even for large fMRI data sets.

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