

Package ‘ODMconverter’

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Type Package

Title tools to convert ODM files

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Author Martin Dugas

Maintainer Martin Dugas <dugas@uni-muenster.de>

Depends R (>= 2.13.1)

Imports XML, xlsx

Description Transformation of ODM files into R format, office format, CDA format and vice versa. CDISC ODM format is commonly used in clinical trials. Semantic annotation (such as UMLS, SNOMED or LOINC codes) are transformed accordingly.

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ODMconverter-package *ODMconverter*

Description

Transformation of ODM files into R format, office format, CDA format and vice versa.
 CDISC ODM is very commonly used in clinical trials.
 Semantic annotation (such as UMLS, SNOMED or LOINC codes) are transformed accordingly by those conversion tools.

Author(s)

Martin Dugas
 Maintainer: Martin Dugas <dugas@uni-muenster.de>

References

see functions ODM2office, office2ODM, ODM2R, R2ODM, ODM2CDA, CDA2ODM

CDA2ODM *CDA2ODM*

Description

CDA2ODM transforms a CDA (clinical document architecture) file into ODM format.
 Input: CDA file with CDA header and CDA body (see example from www.elga.gv.at).
 Output: CDISC ODM format (Version 1.3; see example)

Usage

```
CDA2ODM( CDAfile="" )
```

Arguments

CDAfile	Name of CDA file for conversion. If omitted, file.choose()-dialog is started.
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Author(s)

Martin Dugas (dugas@uni-muenster.de)

References

ODM2CDA and CDA2ODM: An approach to convert documentation forms between EDC and EHR systems (manuscript in preparation)

Examples

```
CDA2ODM(CDAfile=file.path(path.package("ODMconverter"),"extdata","CDA_letter_basic.xml"))
```

ODM2CDA

ODM2CDA

Description

ODM2CDA transforms an ODM file into CDA format (clinical document architecture).

Input: CDISC ODM format (Version 1.3; see examples)

Output: CDA file (see example).

Usage

```
ODM2CDA( ODMfile="", withUMLS=T )
```

Arguments

ODMfile	Name of ODM file for conversion. File format: ODM version 1.3, see example. If omitted, file.choose()-dialog is started
withUMLS	Flag indicating whether ODM file contains UMLS codes.

Author(s)

Martin Dugas (dugas@uni-muenster.de)

References

ODM2CDA and CDA2ODM: An approach to convert documentation forms between EDC and EHR systems (manuscript in preparation)

Examples

```
ODM2CDA(ODMfile=file.path(path.package("ODMconverter"),"extdata","ODM-Test_S.0000.xml"))
```

ODM2office

ODM2office

Description

ODM2office transforms an ODM file into office format. Supported formats are csv-files, txt-files (tab-separated) and xlsx-files (Microsoft Excel).

Input: CDISC ODM format (Version 1.3; see examples)

Output: Office file with study header, itemgroups, items and codelists, including semantic annotation (see example).

Usage

```
ODM2office( ODMfile="", filetype="" )
```

Arguments

ODMfile	Name of ODM file for conversion. File format: ODM version 1.3, see example. If omitted, file.choose()-dialog is started
filetype	Office file format for output. Valid formats: csv, txt and xlsx.

Author(s)

Martin Dugas (dugas@uni-muenster.de)

References

Dugas M, Dugas-Breit S. Integrated data management for clinical studies: automatic transformation of data models with semantic annotations for principal investigators, data managers and statisticians. PLoS One. 2014 Feb 28;9(2):e90492

Examples

```
ODM2office(ODMfile=file.path(path.package("ODMconverter"),"extdata","ODM-Test_S.0000.xml"),  
filetype="xlsx")
```

ODM2R

ODM2R

Description

ODM2R transforms ODM file into source code for R data frame "odmdata".

Input: File in CDISC ODM format (Version 1.3; see example)

Output: R source code for data frame "odmdata" with ODM attributes (see example).

Usage

```
ODM2R(ODMfile="")
```

Arguments

ODMfile	Name of ODM file for conversion. File format: ODM version 1.3, see example. If omitted, file.choose()-dialog is started
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Author(s)

Martin Dugas (dugas@uni-muenster.de)

References

Dugas M, Dugas-Breit S. Integrated data management for clinical studies: automatic transformation of data models with semantic annotations for principal investigators, data managers and statisticians. PLoS One. 2014 Feb 28;9(2):e90492

Examples

```
ODM2R(ODMfile=file.path(path.package("ODMconverter"), "extdata", "ODM-Test_S.0000.xml"))
```

office2ODM

office2ODM

Description

office2ODM transforms an office file into ODM format. Supported formats are csv-files, txt-files (tab-separated) and xlsx-files (Microsoft Excel).

Input: Office file with study header, itemgroups, items and codelists, including semantic annotation (see example). Output: CDISC ODM format (Version 1.3; see example)

Usage

```
office2ODM( officefile="" )
```

Arguments

`officefile` Name of office file for conversion.
File format: csv, txt (tab-separated) or xlsx (Microsoft excel), see example. If omitted, `file.choose()`-dialog is started

Author(s)

Martin Dugas (dugas@uni-muenster.de)

References

Dugas M, Dugas-Breit S. Integrated data management for clinical studies: automatic transformation of data models with semantic annotations for principal investigators, data managers and statisticians. PLoS One. 2014 Feb 28;9(2):e90492

Examples

```
office2ODM(officefile=file.path(path.package("ODMconverter"), "extdata", "ODM-Test.xlsx"))
```

R2ODM

R2ODM

Description

R2ODM transforms R data frame "odmdata" into ODM file.
Input: R data frame with ODM attributes (see example).
Output: File in CDISC ODM format (Version 1.3; see example)

Usage

```
R2ODM(odmdata)
```

Arguments

`odmdata` R data frame for conversion (see example).

Author(s)

Martin Dugas (dugas@uni-muenster.de)

References

Dugas M, Dugas-Breit S. Integrated data management for clinical studies: automatic transformation of data models with semantic annotations for principal investigators, data managers and statisticians. PLoS One. 2014 Feb 28;9(2):e90492

Examples

```
## Not run: source(file.path(path.package("ODMconverter"), "extdata", "ODM-Test_S.0000.xml.R"))
R2ODM(odmdata)
## End(Not run)
```

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