

Package ‘R4CDISC’

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Type Package

Title Read CDISC Data Files

Version 0.3

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Depends R (>= 3.0.2), XML

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URL <https://github.com/i-akiya/R4CDISC>

Description

CDISC Dataset-XML and Define-XML are used as file format for clinical trial data and meta-data respectively. This functions supports reading both Dataset-XML and Define-XML.

License LGPL-3

NeedsCompilation no

Repository CRAN

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R4CDISC-package *Read CDISC data files*

Description

R4CDISC package includes functions for reading Dataset-XML and Define-XML files.

Details

Package: R4CDISC
Type: Package
Version: 0.1
Date: 2013-12-31
License: LGL-3

R4CDISC package is provide functions to import Dataset-XML and Define-XML.
It is supported Dataset-XML ver. 1.0 and Define-XML ver. 2.0 in this package.

Author(s)

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Source

R4CDISC package includes example files both of Dataset-XML and Define-XML which were obtained from Dataset-XML 1.0 package on CDISC web site. <http://www.cdisc.org/dataset-xml>

References

CDISC Dataset-XML Specification Version 1.0 (<http://www.cdisc.org/dataset-xml>)
CDISC Define-XML Specification Version 2.0 (<http://www.cdisc.org/define-xml>)

getCT *Extract Controlled Terminology from Define-XML*

Description

The getCT function supports define.xml version 2.0. This function returns controlled terms in define.xml as R list.

Usage

```
getCT(filepath)
```

Arguments

filepath Character string specifying the file path of define.xml.

Author(s)

Ippei Akiya

Examples

```
## Not run:
define <- system.file("extdata", "ADaM",
                      "define2-0-0-example-adam.xml",
                      package="R4CDISC"
                      )
CT <- getCT(define)
ct.1 <- as.data.frame(CT[[1]])
```

getDLMD

Extract dataset level metadata from Define-XML

Description

The getDLMD function supports define.xml version 2.0.

Usage

```
getDLMD(filepath)
```

Arguments

filepath Character string specifying the file path of define.xml.

Author(s)

Ippei Akiya

Examples

```
## Not run:
define <- system.file("extdata", "SDTM",
                      "define2-0-0-example-sdtm(2013-11-09).xml",
                      package="R4CDISC"
                      )
DLMD <- getDLMD(define)
```

getValMD

Extract value level metadata from Define-XML

Description

The getValMD function supports Define-XML version 2.0.

Usage

```
getValMD(filepath)
```

Arguments

filepath Character string specifying the file path of Define-XML.

Author(s)

Ippei Akiya

Examples

```
## Not run:
define <- system.file("extdata", "SDTM",
                      "define2-0-0-example-sdtm(2013-11-09).xml",
                      package="R4CDISC"
                      )
ValMD <- getValMD(define)
```

getVarMD*Extract variable level metadata from Define-XML*

Description

The getVarMD function supports Define-XML version 2.0.

Usage

```
getVarMD(filepath)
```

Arguments

filepath Character string specifying the file path of Define-XML.

Author(s)

Ippei Akiya

Examples

```
## Not run:
define <- system.file("extdata", "ADaM",
                      "define2-0-0-example-adam.xml",
                      package="R4CDISC"
                      )
VarMD <- getVarMD(define)
```

read.dataset.xml *Read a Dataset-XML file as a data frame*

Description

This function returns study data as R dataframe converted from Dataset-XML.

Usage

```
read.dataset.xml(dataset_xml, define_xml)
```

Arguments

dataset_xml Character string specifying the file path of Dataset-XML.
define_xml Character string specifying the file path of Define-XML.

Details

Variable types in returned dataframe are converted based on following rule.

ODM data type	R data type
string	character
integer	integer
float	double
date	character
time	character
datetime	character

Value

This function returns a dataframe.

Author(s)

Ippei Akiya

Examples

```
## Not run:
define <- system.file("extdata", "SDTM",
                      "define2-0-0-example-sdtm(2013-11-09).xml",
                      package="R4CDISC"
                      )
sds <- system.file("extdata", "SDTM",
                  "dm.xml",
                  package="R4CDISC"
                  )

DM <- read.dataset.xml(dataset_xml=sds, define_xml=define)
```

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