Package: definecore (via r-universe)

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Title Generate CDISC Define-XML from Metacore Objects

Version 0.1.1

Description Generates CDISC Define-XML documents (versions 2.0 and 2.1) from metacore metadata objects. Maps dataset, variable, codelist, and derivation information into an ODM-based Define-XML structure suitable for further review and regulatory use. Integrates with the pharmaverse metacore ecosystem.

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URL https://github.com/shekharchalwadigrepo-hub/definecore

BugReports https://github.com/shekharchalwadigrepo-hub/definecore/issues

Depends R (>= 4.1.0)

Imports metacore, xml2, dplyr, rlang, cli, glue, magrittr

Suggests testthat (>= 3.0.0), knitr, rmarkdown

Encoding UTF-8

RoxygenNote 7.3.2

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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Repository https://cran.r-universe.dev

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`write_define_xml` *Write Define-XML from a metacore object*

Description

Generates a CDISC Define-XML (version 2.0 or 2.1) document from a `metacore` metadata object. The output is an ODM-based XML file containing dataset (ItemGroupDef), variable (ItemDef), codelist, and derivation (MethodDef) metadata suitable as a starting point for regulatory submissions.

Usage

```
write_define_xml(
  meta,
  file,
  define_version = c("2.1", "2.0"),
  study_oid = NULL,
  study_name = "STUDY",
  study_description = "Study Description",
  protocol_name = study_name,
  standard_name = NULL,
  standard_version = NULL,
  file_oid = NULL,
  origin_default = "Derived",
  quiet = FALSE
)
```

Arguments

`meta`	A `metacore` object (R6 class).
`file`	Character string. Path to the output `define.xml` file.
`define_version`	Character. `"2.0"` or `"2.1"`. Default `"2.1"`.
`study_oid`	Character. ODM Study OID. Default generated.
`study_name`	Character. Study name for GlobalVariables.
`study_description`	Character. Study description.
`protocol_name`	Character. Protocol name. Defaults to `study_name`.
`standard_name`	Character. Name of the content standard (e.g., `"SDTM-IG"`, `"ADaM-IG"`). Used for Define-XML 2.1 `def:Standard`.
`standard_version`	Character. Version of the content standard.
`file_oid`	Character. ODM FileOID. Default generated.
`origin_default`	Character. Default origin if missing (e.g., `"Derived"`).
`quiet`	Logical. Suppress messages. Default `FALSE`.

Value

Invisibly returns the path to the written file.

Examples

```
library(metacore)
load(metacore_example("pilot_ADaM.rda"))  # loads object named 'metacore'
tmp <- tempfile(fileext = ".xml")
write_define_xml(metacore, tmp, study_name = "CDISCPILOT01")
unlink(tmp)
```

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