# Package: definecore (via r-universe)

November 5, 2026

**Title** Generate CDISC Define-XML from Metacore Objects

**Version** 0.1.0

**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

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

**Config/testthat/edition** 3

**VignetteBuilder** knitr

**Config/pak/sysreqs** libicu-dev libxml2-dev

**Repository** https://shekharchalwadigrepo-hub.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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