

Package ‘siera’

March 3, 2025

Type Package

Title Generate Analysis Results Programmes Using ARS Metadata

Version 0.3.0

Maintainer Malan Bosman <malanbos@gmail.com>

Description Analysis Results Standard (ARS), a foundational standard by CDISC (Clinical Data Interchange Standards Consortium), provides a logical data model for metadata describing all components to calculate Analysis Results. <https://www.cdisc.org/standards/foundational/analysis-results-standard>
Using 'siera' package, ARS metadata is ingested (JSON or Excel format), producing programmes to generate Analysis Results Datasets (ARDs).

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.3.2

Imports magrittr, dplyr, tibble, tidyr, jsonlite, stringr

Suggests knitr, rmarkdown

NeedsCompilation no

Author Malan Bosman [aut, cre],
Clymb Clinical [cph, fnd]

Repository CRAN

Date/Publication 2025-03-03 15:10:02 UTC

Contents

ARS_example	2
readARS	2
Index	4

ARS_example	<i>Get path to ARS JSON example</i>
-------------	-------------------------------------

Description

siera comes bundled with some example files in its 'inst/extdata' directory. This function make them easy to access.

Usage

```
ARS_example(path = NULL)
```

Arguments

path Name of file. If 'NULL', the example files will be listed.

Value

A list of example files (if path is NULL), or a file itself if path is used.

Examples

```
ARS_example()
ARS_example("ARS_V1_Common_Safety_Displays.json")
```

readARS	<i>Ingest ARS (Analysis Results Standard) metadata, produce ARD (Analysis Results Dataset) code for each output</i>
---------	---

Description

Ingest JSON or xlsx ARS (Analysis Results Standard) metadata, and meta-programme R scripts that could be run as-is to produce Analysis Results Datasets when ingesting ADaM datasets

Usage

```
readARS(JSON_ARS, output_path = tempdir(), adam_path = tempdir())
```

Arguments

JSON_ARS A JSON file containing ARS metadata for a reporting event
output_path Path to store .R ARD scripts
adam_path Path to folder containing ADaM datasets, to be run in ARD program

Value

R programmes generating ARDs - one for each output specified in the ARS JSON

Examples

```
# path to JSON file containing ARS metadata
json_path <- ARS_example("ARS_V1_Common_Safety_Displays.json")

# output path for R programs
output_dir = tempdir()

# folder containing ADaM datasets
adam_folder = tempdir()

# run function, write to temp directory
readARS(json_path, output_dir, adam_folder)
```

Index

ARS_example, [2](#)

readARS, [2](#)