

# Package ‘RJDPprocessor’

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**Type** Package

**Title** RJDPprocessor

**Version** 0.1.4

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**Description** The rjdverse libraries are the officially recommended R software for seasonal adjustment in the European Central Bank and Statistical System.

The RJDPprocessor library integrates the rjdverse packages into a fully R-based production pipeline, ready to be used and easily extendable by methodologists.

It offers the capability to manage the entire seasonal adjustment process: acquisition, processing, storage, automation, and not just seasonal adjustment of the data.

Processing of multiple time series is possible by storing their specifications in JSON files, and interoperability with other JDemetra+ software is guaranteed because RJDPprocessor can read workspaces and is able to produce them as an output.

RJDPprocessor also provides functions to manage workspaces, such as splitting a workspace containing multiple time series into individual single-series workspaces, which are suitable for storing in databases with single time series records. Functions to merge workspaces are also available.

**License** EUPL

**Encoding** UTF-8

**LazyData** true

**Imports** RJDemetra (>= 0.2.5),  
rjson (>= 0.2.21)

**Suggests** rjd3providers (>= 3.2.3),  
readxl (>= 1.4.3),  
roxygen2 (>= 7.2.3)

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.3

**Collate** import\_and\_interface\_definition.R  
Data\_reader\_csv.R  
Data\_reader\_csv\_istat\_format.R  
Data\_reader\_ext\_reg\_tsplus.R  
Data\_reader\_ext\_reg\_xlsx.R  
Data\_reader\_ext\_reg\_csv.R  
Data\_reader\_xlsx.R  
Data\_reader\_list.R  
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Extended\_tramoseats\_spec.R  
JD\_JSON.R  
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Data_reader_csv	<i>Constructor (R-like) of the Data_reader object</i>
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Description

This function creates a Data\_reader object capable of reading data from CSV files and returning it using the read\_data() function.

Usage

```
Data_reader_csv(input_source = NA, ...)
```

Arguments

input\_source     A string with file name (also with path).

Value

The Data\_reader\_csv object

Examples

```
input_data_file_name <- "CSV-FAS/grezzi_trim_FAS.csv"
input_data_reader <- Data_reader_csv(input_source = input_data_file_name)
#input_data_reader@read_data() # uncomment and replace AT with its symbol
```

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Data_reader_list	<i>Constructor (R-like) of the Data_reader object</i>
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### Description

This function creates a Data\_reader object capable of reading data from a list and returning it using the read\_data() function.

### Usage

```
Data_reader_list(input_source = NA, ...)
```

### Arguments

input\_source     A string with file name (also with path).

### Value

The Data\_reader\_csv object

### Examples

```
FATEXP_10_list <- list("series_name"="FATEXP_10", "dates"=c("2005-01-01","2005-02-01","2005-03-01"), "values"=
C_DEFL_list <- list("series_name"="C_DEFL", "dates"=c("2001-01-01","2001-02-01","2001-03-01"), "values"=
# ...
input_data_list <- list(FATEXP_10_list, C_DEFL_list)
input_data_reader <- Data_reader_list(input_source = input_data_list)
#input_data_reader@read_data() # uncomment and replace AT with its symbol
```

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read_data,Data_reader_csv-method	<i>Get the data from a Data_reader_csv</i>
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### Description

This function returns the data from the input\_source of the object.

### Usage

```
## S4 method for signature 'Data_reader_csv'
read_data(object, ...)
```

### Value

data in form of numeric matrix, with rownames = dates (in string format, YYYY-MM-DD) and colnames = time series names (string)

### Examples

```
input_data_file_name <- "CSV-FAS/grezzi_trim_FAS.csv"
input_data_reader <- Data_reader_csv(input_source = input_data_file_name)
#input_data_reader@read_data() # uncomment and replace AT with its symbol
```

---

```
read_data,Data_reader_list-method
```

*Get the data from a Data\_reader\_list*

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### Description

This function returns the data from the input\_source of the object.

### Usage

```
## S4 method for signature 'Data_reader_list'
read_data(object, ...)
```

### Value

data in form of numeric matrix, with rownames = dates (in string format, YYYY-MM-DD) and colnames = time series names (string)

### Examples

```
FATEXP_10_list <- list("series_name"="FATEXP_10", "dates"=c("2005-01-01","2005-02-01","2005-03-01"), "values"=
C_DEFL_list <- list("series_name"="C_DEFL", "dates"=c("2001-01-01","2001-02-01","2001-03-01"), "values"=
#...
input_data_list <- list(FATEXP_10_list, C_DEFL_list)
input_data_reader <- Data_reader_list(input_source = input_data_list)
#input_data_reader$read_data() # uncomment and replace AT with its symbol
```

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RJDPProcessor

*RJDPProcessor*


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### Description

A fully RJDemetra-based production pipeline for official statistics.

### Details

RJDPProcessor

The RJDPProcessor library integrates the rjdverse packages into a fully R-based production pipeline, ready to be used and easily extendable by methodologists. It offers the capability to manage the entire seasonal adjustment process: acquisition, processing, storage, automation, and not just seasonal adjustment of the data. Processing of multiple time series is possible by storing their specifications in JSON files, and interoperability with other JDemetra+ software is guaranteed because RJDPProcessor can read workspaces and is able to produce them as an output. RJDPProcessor also provides functions to manage workspaces, such as splitting a workspace containing multiple time series into individual single-series workspaces, which are suitable for storing in databases with single time series records. Functions to merge workspaces are also available.

### Author(s)

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