

Package ‘rjd3bridge’

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Type Package

Title Bridge Between 'RJDemetra' (V2) and 'rjd3' (V3)

Version 0.1.0

Description Provides bidirectional tools to convert seasonal adjustment models and specifications between 'RJDemetra' ('JDemetra+' v2) and the 'rjd3' ecosystem ('JDemetra+' v3, packages 'rjd3x13' and 'rjd3tramoseats'). Facilitates workflow migration and backward compatibility analysis.

Depends R (>= 4.1.0)

Imports rJava, RJDemetra (>= 0.2.7), rjd3toolkit(>= 3.3.0), rjd3x13 (>= 3.3.0), rjd3tramoseats (>= 3.3.0), rjd3jars (>= 0.0.5)

URL <https://github.com/AQLT/rjd3bridge>,
<https://aqlt.github.io/rjd3bridge/>

BugReports <https://github.com/AQLT/rjd3bridge/issues>

SystemRequirements Java (>= 17)

License EUPL

Encoding UTF-8

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NeedsCompilation no

Author Alain Quartier-la-Tente [aut, cre, cph] (ORCID:
<<https://orcid.org/0000-0001-7890-3857>>)

Maintainer Alain Quartier-la-Tente <alain.quartier@yahoo.fr>

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as_rjd2

*Convert 'rjd3' Objects to 'RJDemetra' (v2) Format***Description**

Converts seasonal adjustment models, outputs, or specifications from the modern 'rjd3' ecosystem ('JDemetra+' v3) back to legacy 'RJDemetra' ('JDemetra+' v2) objects for backward compatibility and legacy reporting workflows.

Usage

```
as_rjd2(x, ...)

## S3 method for class 'JD3_TRAMOSEATS_SPEC'
as_rjd2(x, context = NULL, ...)

## S3 method for class 'JD3_TRAMO_SPEC'
as_rjd2(x, context = NULL, ...)

## S3 method for class 'JD3_TRAMOSEATS_OUTPUT'
as_rjd2(
  x,
  context = NULL,
  specification = c("estimation_spec", "result_spec"),
  ...
)

## S3 method for class 'JD3_TRAMO_OUTPUT'
as_rjd2(
  x,
  context = NULL,
  specification = c("estimation_spec", "result_spec"),
  y = NULL,
  ...
)

## S3 method for class 'JD3_X13_SPEC'
as_rjd2(x, context = NULL, ...)

## S3 method for class 'JD3_REGARIMA_SPEC'
as_rjd2(x, context = NULL, ...)

## S3 method for class 'JD3_X11_SPEC'
as_rjd2(x, context = NULL, ...)

## S3 method for class 'JD3_X13_OUTPUT'
as_rjd2(
```

```

    x,
    context = NULL,
    specification = c("estimation_spec", "result_spec"),
    ...
)

## S3 method for class 'JD3_REGARIMA_OUTPUT'
as_rjd2(
  x,
  context = NULL,
  specification = c("estimation_spec", "result_spec"),
  y = NULL,
  ...
)

```

Arguments

<code>x</code>	An object from the 'rjd3' ecosystem (e.g., from packages <code>rjd3x13</code> or <code>rjd3tramoseats</code>).
<code>...</code>	Additional arguments passed to specific methods.
<code>context</code>	Optional <code>rjd3toolkit::modelling_context()</code> containing user-defined variables.
<code>specification</code>	The specification of the seasonal adjustment model to use for the conversion. Can be "estimation_spec" (the default, specification used to estimate the model), or "result_spec" (the specification used to produce the final results).
<code>y</code>	Input time series data. Needed for <code>as_rjd2.JD3_REGARIMA_OUTPUT()</code> and <code>as_rjd2.JD3_TRAMO_OUTPUT()</code> . If not provided, the default year will by default be equal to 1.

Details

The parameters `ub1` and `ub2` are not translated since it seems to have a different convention between versions.

Value

An equivalent object compatible with the 'RJDemetra' package (v2 structure).

Examples

```

spec_v3 <- rjd3x13::x13_spec()
spec_v2 <- as_rjd2(spec_v3)

# Specify the modelling context with user-defined variables
y <- rjd3toolkit::ABS$X0.2.09.10.M
regs_td <- rjd3toolkit::td(
  s = y,
  groups = c(1, 2, 0, 4, 5, 6, 3),
  contrasts = TRUE
)

```

```

colnames(regs_td) <- c("Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday")
context <- rjd3toolkit::modelling_context(variables = list(regs_td))
spec_v3 <- rjd3tramoseats::tramoseats_spec() |>
  rjd3toolkit::set_tradingdays(
    option = "UserDefined",
    uservariable = c("r.Monday", "r.Tuesday", "r.Wednesday",
                     "r.Thursday", "r.Friday", "r.Saturday"),
    test = "None"
  )
spec_v2 <- as_rjd2(spec_v3, context = context)

# For preprocessing models (RegARIMA or TRAMO),
# the input time series `y` should be provided
# to avoid defaulting the start date of the time series to year 1
model_v3 <- rjd3tramoseats::tramo(y)
as_rjd2(model_v3)
as_rjd2(model_v3, y = y)

```

as_rjd3

*Convert 'RJDemetra' (v2) Objects to 'rjd3' (v3) Format***Description**

Converts seasonal adjustment models, outputs, or specification objects from legacy 'RJDemetra' ('JDemetra+' v2) to the modern 'rjd3' ecosystem (such as packages rjd3x13 or rjd3tramoseats for 'JDemetra+' v3).

Usage

```

as_rjd3(x, new_spec = NULL, ...)

## S3 method for class 'SA_spec'
as_rjd3(x, new_spec = NULL, ...)

## S3 method for class 'regarima'
as_rjd3(x, new_spec = NULL, ...)

## S3 method for class 'SA'
as_rjd3(x, new_spec = NULL, ...)

## S3 method for class 'regarima_spec'
as_rjd3(x, new_spec = NULL, ...)

```

Arguments

x An object from the 'RJDemetra' package (v2, e.g., of class SA, SA_spec).

new_spec	An optional specification object from the 'rjd3' ecosystem (v3) to be used as a base for conversion. If NULL, a default specification will be created based on the type of model being converted.
...	Additional arguments passed to specific methods.

Details

The parameters ub1 and ub2 are not translated since it seems to have a different convention between versions.

Value

An equivalent object compatible with the 'rjd3' ecosystem (v3 structure).

A list with two elements:

- context: An object of class `rjd3toolkit::modelling_context()` containing any user-defined variables.
- result: The converted object in the 'rjd3' format.

Examples

```
# Convert only a specification object
spec_v2 <- RJDemetra::regarima_spec_tramoseats()
spec_v3 <- as_rjd3(spec_v2)
```

```
# Convert a full seasonal adjustment model
y <- RJDemetra::ipi_c_eu[, "FR"]
model_v2 <- RJDemetra::x13(y, spec = "RSA5c")
model_v3 <- as_rjd3(model_v2)
```

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