Package: naptanr (via r-universe)

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Title Call the 'NaPTAN' API Through R

Version 1.0.1

Description An R wrapper for pulling data from the National Public Transport Access Nodes ('NaPTAN') API (<https://www.api.gov.uk/dft/national-public-transport-access-nodes-naptan-api/#national-public-transport-access-nodes-naptan-api>). This allows users to download 'NaPTAN' transport information, for the full dataset, by ATCO region code, or by name of region.

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Imports httr, data.table

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

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Depends R (>= 2.10)

NeedsCompilation no

Author Tom Westlake [aut], Francesca Bryden [aut, cre], Sara Smith [aut]

Maintainer Francesca Bryden <francesca.bryden@dft.gov.uk>

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`call_naptan` *Call the NaPTAN API for all, or for specified ATCO codes. Returns a data frame of Naptan data.*

Description

Call the NaPTAN API for all, or for specified ATCO codes. Returns a data frame of Naptan data.

Usage

```
call_naptan(atco = NULL)
```

Arguments

`atco`	string or vector of strings. First three digits of ATCO area codes of interest. If provided, will return data for only these ATCO areas. Defaults to NULL. To return a lookup of current valid ATCO codes, use the lookup_atco_codes() function.

Value

Returns a data frame of NaPTAN data containing transport access node information. See NaPTAN data set guidance for more information.

Examples

```
## Not run:
#Return data for all ATCO areas
call_naptan()

#Return data for a single ATCO area
call_naptan(atco = "050")

#Return data for multiple atco codes
call_naptan(atco = c("050", "290"))


## End(Not run)
```

`call_naptan_region` *Call the Naptan API for a partial or full region name. Returns a data frame of Naptan data.*

Description

Call the Naptan API for a partial or full region name. Returns a data frame of Naptan data.

Usage

```
call_naptan_region(region_string)
```

Arguments

`region_string`	string of partial or complete region name. Function uses regex to search for provided string in the names of the regions in Naptan. To see a data frame of current valid atco codes and region names, use the lookup_atco_codes() function.

Value

Returns a data frame of NaPTAN data containing transport access node information. See NaPTAN data set guidance for more information.

Examples

```
#Return data for west yorkshire only
call_naptan_region("west yorkshire")

#Return data for all yorkshire regions
call_naptan_region("yorkshire")
```

`get_atco_codes` *Return a vector of all permitted ATCO region codes in NaPTAN*

Description

Return a vector of all permitted ATCO region codes in NaPTAN

Usage

```
get_atco_codes()
```

`lookup_atco_codes` *Return a lookup table of all permitted ATCO codes and area names for a specified area string and/or country*

Description

Return a lookup table of all permitted ATCO codes and area names for a specified area string and/or country

Usage

```
lookup_atco_codes(area_name = "", country = "")
```

Arguments

`area_name`	string of partial or complete area name. Default is blank, which returns a full lookup table.
`country`	string of country code ("ENG", "SCO", "WAL" or "GB"). Default is blank, which returns a full lookup table.

Value

A data frame containing two columns, "AreaName" a character column containing names of geographic regions and AtcoAreaCode, a character column containing corresponding ATCO codes for these areas.

Examples

```
#Return all ATCO codes
lookup_atco_codes()

#Return Yorkshire ATCO codes
lookup_atco_codes(area_name = "yorkshire")

#Return ATCO codes in Scotland
lookup_atco_codes(country = "SCO")
```

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