Package: microinverterdata (via r-universe)

November 22, 2026

Type Package

Title Collect your Microinverter Data

Version 0.4.0.9000

Description Collect and normalize local microinverter energy and power production data through off-cloud API requests. Currently supports 'APSystems', 'Enphase', and 'Fronius' microinverters.

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BugReports https://github.com/CamembR/microinverterdata/issues

URL https://camembr.github.io/microinverterdata/, https://github.com/CamembR/microinverterdata

Encoding UTF-8

LazyData true

Depends R (>= 4.1.0)

Imports cli, dplyr, glue, httr2 (>= 1.0.0), purrr, rlang, tidyr, units

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Suggests httptest2, knitr, lubridate, pins, rmarkdown, tibble, tsibble, imputeTS, testthat (>= 3.0.0)

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`get_alarm` *Get inverter device alarms*

Description

Get inverter device alarms

Usage

```
get_alarm(device_ip, model = "APSystems")
```

Arguments

`device_ip`	list or vector of devices IP address
`model`	the inverter device model. Currently only "APSystems" is supported.

Value

a dataframe with one row of device information per ‘device_id‘ answering the query.

Examples

```
## Not run:
get_alarm(c("192.168.0.12", "192.168.0.230"))

## End(Not run)
```

get_device_info *Get inverter device information*

Description

Get inverter device information

Usage

```
get_device_info(device_ip, model = "APSystems")
```

Arguments

device_ip	list or vector of devices IP address
model	the inverter device model. Currently only "APSystems" is supported.

Value

a data-frame with one row of device information per ‘device_id‘ answering the query.

Examples

```
## Not run:
get_device_info(c("192.168.0.12", "192.168.0.230"))

## End(Not run)
```

get_output_data *Get inverter output data*

Description

Get inverter output data

Usage

```
get_output_data(device_ip, model = "APSystems", ...)
```

Arguments

device_ip	list or vector of devices IP address
model	the inverter device model. Currently only "APSystems" "Enphase-Envoy", "Enphase-Energy" and "Fronius" are supported.
...	additional parameters passed to the inverter if needed.

Value

a dataframe with one row of device output power and energy per ‘device_id‘ / ‘inverter‘ combination.

Examples

```
## Not run:
get_output_data(c("192.168.0.12", "192.168.0.230"))

## End(Not run)
```

`query_ap_device` *AP System single device query*

Description

AP System single device query

Usage

```
query_ap_device(device_ip, query)
```

Arguments

`device_ip`	IP address or name of the device
`query`	the API query string

Value

a data-frame with a ‘device_id‘ column and the ‘$data‘ turned into as many columns as expected

See Also

Other device queries: `query_ap_devices()`, `query_enphaseenergy_device()`, `query_enphaseenvoy_device()`, `query_fronius_device()`, `query_fronius_devices()`

Examples

```
## Not run:
query_ap_device(device_ip = "192.168.0.234", query = "getDeviceInfo")

## End(Not run)
```

query_ap_devices *AP System multi-device query*

Description

AP System multi-device query

Usage

```
query_ap_devices(device_ip, query)
```

Arguments

device_ip	list or vector of each device IP address or name
query	the API query string

Value

a data-frame with a ‘device_id‘ column and the ‘$Body$Data‘ turned into as many columns as expected

See Also

Other device queries: query_ap_device(), query_enphaseenergy_device(), query_enphaseenvoy_device(), query_fronius_device(), query_fronius_devices()

Examples

```
## Not run:
query_ap_devices(device_ip = c("192.168.0.234", "192.168.0.235"),
                 query = "getDeviceInfo"
                 )

## End(Not run)
```

query_enphaseenergy_device *Enphase Energy single device query*

Description

as a port of https://github.com/sarnau/EnphaseEnergy/blob/main/enphaseStreamMeter.py

Usage

```
query_enphaseenergy_device(
  device_ip = "enphase.local",
  query,
  username = Sys.getenv("ENPHASE_USERNAME"),
  password = Sys.getenv("ENPHASE_PASSWORD")
)
```

Arguments

device_ip	IP address or name of the device
query	the API query string
username	the username needed to authenticate to the inverter. Defaults to the 'ENPHASE_USERNAME' environment variable.
password	the password needed to authenticate to the inverter. Defaults to the 'ENPHASE_PASSWORD' environment variable.

Value

a data-frame with a 'device_id' column and the '$Body$Data' turned into as many columns as expected

See Also

Other device queries: query_ap_device(), query_ap_devices(), query_enphaseenvoy_device(), query_fronius_device(), query_fronius_devices()

Examples

```
## Not run:
query_enphaseenergy_device(query = "stream/meter")

## End(Not run)
```

---

query_enphaseenvoy_device

Enphase Envoy single device query

Description

as a port of https://github.com/Matthew1471/Enphase-API/blob/main/Documentation/IQ Gateway API/IVP/Meters/Reports/Production.adoc

Usage

```
query_enphaseenvoy_device(
  device_ip = "enphase.local",
  query,
  username = Sys.getenv("ENPHASE_USERNAME"),
  password = Sys.getenv("ENPHASE_PASSWORD")
)
```

Arguments

device_ip	IP address or name of the device
query	the API query string
username	the username needed to authenticate to the inverter. Defaults to the 'ENPHASE_USERNAME' environment variable.
password	the password needed to authenticate to the inverter. Defaults to the 'ENPHASE_PASSWORD' environment variable.

Value

a data-frame with a 'device_id' column and the '$Body$Data' turned into as many columns as expected

See Also

Other device queries: query_ap_device(), query_ap_devices(), query_enphaseenergy_device(), query_fronius_device(), query_fronius_devices()

Examples

```
## Not run:
query_enphaseenvoy_device(query = "reports/production")

## End(Not run)
```

---

query_fronius_device *Fronius single device query*

Description

as a port of https://github.com/friissoren/pyfronius

Usage

```
query_fronius_device(
  device_ip = "fronius.local",
  query,
  username = Sys.getenv("FRONIUS_USERNAME"),
  password = Sys.getenv("FRONIUS_PASSWORD")
)
```

Arguments

device_ip	IP address or name of the device
query	the API query string
username	the username needed to authenticate to the inverter. Defaults to the 'FRONIUS_USERNAME' environment variable.
password	the password needed to authenticate to the inverter. Defaults to the 'FRONIUS_PASSWORD' environment variable.

Value

a data-frame with a 'device_id' column and the '$Body$Data' turned into as many columns as expected

See Also

Other device queries: query_ap_device(), query_ap_devices(), query_enphaseenergy_device(), query_enphaseenvoy_device(), query_fronius_devices()

Examples

```
## Not run:
query_fronius_device(query = "GetInverterRealtimeData.cgi?Scope=System")

## End(Not run)
```

---

query_fronius_devices *Fronius multi-device query*

Description

as a port of https://github.com/friissoren/pyfronius

Usage

```
query_fronius_devices(
  device_ip = c("fronius.local"),
  query,
  username = Sys.getenv("FRONIUS_USERNAME"),
  password = Sys.getenv("FRONIUS_PASSWORD")
)
```

Arguments

device_ip	list or vector of each device IP address or name
query	the API query string
username	the username needed to authenticate to the inverter. Defaults to the 'FRONIUS_USERNAME' environment variable.
password	the password needed to authenticate to the inverter. Defaults to the 'FRONIUS_PASSWORD' environment variable.

Value

a data-frame with a 'device_id' column and the '$Body$Data' turned into as many columns as expected

See Also

Other device queries: query_ap_device(), query_ap_devices(), query_enphaseenergy_device(), query_enphaseenvoy_device(), query_fronius_device()

Examples

```
## Not run:
query_fronius_device(query = "GetInverterRealtimeData.cgi?Scope=System")

## End(Not run)
```

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