
realvalidation Documentation

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RealValidation API Reference

1.1 Application Object

```
class realvalidation.RealValidation (workbooks=None, token=None, output='json',
                                     url='https://api.realvalidation.com/rpvWebService/DNCLookup.php',
                                     phone_regex='^\d{10}$', staging=False)
```

RealValidation Application Object

Parameters

- **workbooks** (*list*) – List of workbook paths to validate against RealValidation DNC API
- **token** (*str*) – RealValidation API Token. Defaults to environmental variable `RV_TOKEN`
- **output** (*str*) – RealValidation API Output. Defaults to `json`
- **url** (*str*) – RealValidation API URL. Defaults to `https://api.realvalidation.com/rpvWebService/DNCLookup.php`
- **phone_regex** (*str*) – Regex to use when validating phone numbers. Defaults to `r'^\d{10}$'`
- **staging** (*bool*) – If `True` RealValidation utilizes the Mock API, overrides `url` parameter

lookup_phone (*phone*)

Makes a request to the RealValidation DNC API

Parameters **phone** (*str*) – 10 numerical digits representing a phone number.

Returns Dictionary representing JSON response from RealValidation DNC API.

Return type `dict`

lookup_phone_from_row (*row, phone_column_index*)

Lookup phone from row at index

Parameters

- **row** (*list*) – List of strings containing phone
- **phone_column_index** (*int*) – Index/Position of phone in row list

Returns True/False value whether phone is on dnc or not

Return type `bool`

lookup_phones_from_workbooks ()

Validates Workbooks against RealValidation DNC API

Returns Dictionary with values of `valid` and `invalid` rows

Return type `dict`

1.2 Utilities

`realvalidation.utils.enumerate_phone_column_index_from_row` (*row*)

Enumerates the phone column from a given row. Uses Regexp

Parameters **row** (*list*) – list of cell values from row

Returns phone column index enumerated from row

Return type `int`

`realvalidation.utils.get_cell_values_from_row` (*row*)

Returns string representation of cell values from row in a list

Parameters **row** (*list*) – list of values

Returns string representation of cell values from row in a list

Return type `list`

`realvalidation.utils.is_dnc_json_response_on_dnc` (*response*)

Determines if json response from DNC API is on dnc

Parameters **response** (*dict*) – dictionary response from RealValidation DNC API

Returns True/False value whether response is on DNC or not

Return type `bool`

`realvalidation.utils.is_value_phone_identifier` (*value*)

Returns True/False whether value is [Pp]hone or 10 numerical digits only

Parameters **value** (*str*) – Value to determine if phone identifier

Returns True/False value whether phone is a valid identifier

Return type `bool`

`realvalidation.utils.sanitize_phone` (*phone*, *regex*='`^[^0-9]`')

Uses regex sub to sanitize characters from phone

Parameters

- **phone** (*str*) – Phone string to sanitize
- **regex** (*regex*) – Regex to use to sub characters from string. Defaults to `r' [^0-9] '`

Returns sanitized phone string

Return type `str`

`realvalidation.utils.write_rows_to_workbook` (*rows*, *workbook_path*, *workbook_name*)
Writes row to workbook

Parameters

- **rows** (*list*) – list of rows to write to workbook
- **workbook_path** (*str*) – Path to write workbook to
- **workbook_name** (*str*) – Name of the workbook

1.3 Errors

exception `realvalidation.errors.InvalidJSONResponseError`

Raised when we couldn't decode a JSON response from a RealValidation API Request

exception `realvalidation.errors.InvalidPhoneFormatError`

Raised when a phone string doesn't match `PHONE_REGEX`

exception `realvalidation.errors.InvalidTokenError`

Raised when a token couldn't be enumerated. Tokens can be passed as a parameter when initializing a `RealValidation` object or by setting the `RV_TOKEN` environmental variable before execution.

exception `realvalidation.errors.RealValidationError`

Base class for exceptions in this module.

exception `realvalidation.errors.ResponseCodeNotOkError`

Raised when `RESPONSECODE` in a RealValidation JSON response does not equal `OK`

CHAPTER 2

Basic Usage

```
$ pip install realvalidation
$ export RV_TOKEN=realvalidation_api_token
realvalidation --workbook sample.xlsx
```


CHAPTER 3

Indices and tables

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