
python-sparkpost Documentation

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Message Systems

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The super-mega-official Python package for using the SparkPost API.

Installation

Install from PyPI using pip:

```
$ pip install sparkpost
```

Authorization

Go to [API & SMTP](#) in the SparkPost app and create an API key. We recommend using the `SPARKPOST_API_KEY` environment variable:

```
from sparkpost import SparkPost
sp = SparkPost() # uses environment variable
```

Alternatively, you can pass the API key to the SparkPost class:

```
from sparkpost import SparkPost
sp = SparkPost('YOUR API KEY')
```

Resources

The following resources are available in python-sparkpost:

3.1 Metrics

3.1.1 Retrieve a list of campaigns

```
from sparkpost import SparkPost

sp = SparkPost()

sp.metrics.campaigns.list()
```

3.1.2 Retrieve a list of domains

```
from sparkpost import SparkPost

sp = SparkPost()

sp.metrics.domains.list()
```

3.1.3 Additional documentation

See the [SparkPost Metrics API Reference](#).

3.2 Recipient Lists

Let's use the underlying `recipient_lists` API to create a recipient list:

```
from sparkpost import SparkPost

sp = SparkPost()

response = sp.recipient_lists.create(
    id='UNIQUE_TEST_ID',
```

```
name='Test Recipient list',
recipients=[
    {
        'address': {
            'email': 'test1@test.com'
        }
    },
    {
        'address': {
            'email': 'test2@test.com'
        }
    },
    {
        'address': {
            'email': 'test3@test.com'
        }
    }
]
)

print response
# outputs {u'total_accepted_recipients': 3, u'id': u'UNIQUE_TEST_ID', u'total_rejected_recipients': 0}
```

3.2.1 Retrieve a recipient list

```
from sparkpost import SparkPost

sp = SparkPost()

sp.recipient_lists.get('my-list-id')
```

3.2.2 List all recipient lists

```
from sparkpost import SparkPost

sp = SparkPost()

sp.recipient_lists.list()
```

3.2.3 API reference

sparkpost.recipient_lists

3.2.4 Further examples

See the python-sparkpost recipient_lists examples.

3.2.5 Additional documentation

See the SparkPost Recipient Lists API Reference.

3.3 Suppression List

Let's use the underlying `suppression_list` API to create a suppression entry:

```
from sparkpost import SparkPost

sp = SparkPost()

response = sp.suppression_list.create({
    "email": "test@test.com"
    "transactional": False,
    "non_transactional": True,
    "description": "User requested to not receive any non-transactional emails."
})

print response
# outputs {u'message': u'Recipient successfully created'}
```

3.3.1 Get a suppression entry

```
from sparkpost import SparkPost

sp = SparkPost()

sp.suppression_list.get('test@test.com')
```

3.3.2 List suppression entries

```
from sparkpost import SparkPost

sp = SparkPost()

sp.suppression_list.list()
```

3.3.3 API reference

`sparkpost.suppression_list`

3.3.4 Further examples

See the `python-sparkpost suppression_list` examples.

3.3.5 Additional documentation

See the `SparkPost Suppression List API Reference`.

3.4 Templates

Let's use the underlying `templates` API to create a template:

```
from sparkpost import SparkPost

sp = SparkPost()

response = sp.templates.create(
    id='TEST_ID',
    name='Test Template',
    from_email='test@test.com',
    subject='Test email template!',
    html='<b>This is a test email template!</b>'
)

print response
# outputs {u'id': u'TEST_ID'}
```

3.4.1 Retrieve a template

```
from sparkpost import SparkPost

sp = SparkPost()

sp.templates.get('my-template-id')
```

3.4.2 List all templates

```
from sparkpost import SparkPost

sp = SparkPost()

sp.templates.list()
```

3.4.3 API reference

`sparkpost.templates`

3.4.4 Further examples

See the `python-sparkpost` templates examples.

3.4.5 Additional documentation

See the `SparkPost Templates API Reference`.

3.5 Transmissions

Here at SparkPost, our messages are known as transmissions. Let's use the underlying [transmissions API](#) to send a friendly test message:

```
from sparkpost import SparkPost

sp = SparkPost()

response = sp.transmission.send(
    recipients=['someone@somedomain.com'],
    html='<p>Hello world</p>',
    from_email='test@sparkpostbox.com',
    subject='Hello from python-sparkpost',
    track_opens=True,
    track_clicks=True
)

print response
# outputs {u'total_accepted_recipients': 1, u'id': u'47960765679942446', u'total_rejected_recipients': 0}
```

3.5.1 Send a transmission

There are several ways to send a transmission:

- Using inline templates and/or recipients
- Using a stored template
- Using a stored recipient list

Using inline templates and/or recipients

```
from sparkpost import SparkPost

sp = SparkPost()

sp.transmission.send(
    recipients=['someone@somedomain.com'],
    text="Hello world",
    html='<p>Hello world</p>',
    from_email='test@sparkpostbox.com',
    subject='Hello from python-sparkpost',
    track_opens=True,
    track_clicks=True
)
```

Using a stored template

```
from sparkpost import SparkPost

sp = SparkPost()

sp.transmission.send(
```

```
recipients=['someone@somedomain.com'],
template='my-template-id'
)
```

Using a stored recipient list

```
from sparkpost import SparkPost

sp = SparkPost()

sp.transmission.send(
    recipient_list='my-recipient-list',
    template='my-template-id'
)
```

3.5.2 Retrieve a transmission

```
from sparkpost import SparkPost

sp = SparkPost()

sp.transmission.get('my-transmission-id')
```

3.5.3 List all transmissions

```
from sparkpost import SparkPost

sp = SparkPost()

sp.transmission.list()
```

3.5.4 API reference

sparkpost.transmissions

3.5.5 Further examples

See the [python-sparkpost transmissions examples](#).

3.5.6 Additional documentation

See the [SparkPost Transmissions API Reference](#).

API reference

Auto-generated API reference for python-sparkpost:

4.1 API Documentation

A complete API reference to the sparkpost module.

4.1.1 `sparkpost.recipient_lists`

class `sparkpost.recipient_lists.RecipientLists` (*base_uri, api_key*)

RecipientLists class used to create, update, delete, list and get recipient lists. For detailed request and response formats, see the [Recipient Lists API documentation](#).

create (***kwargs*)

Create a recipient list based on the supplied parameters

Parameters

- **id** (*str*) – ID used to reference the recipient list
- **name** (*str*) – Editable display name
- **description** (*str*) – Detailed description of the recipient list
- **attributes** (*dict*) – Arbitrary metadata related to the list
- **recipients** (*list*) – Array of recipient dicts

Returns a dict with the ID, name, and number of accepted and rejected recipients

Raises `SparkPostAPIException` if API call fails

delete (*list_id*)

Delete a recipient list by ID

Parameters **list_id** (*str*) – ID of the recipient list you want to delete

Returns empty dict

Raises `SparkPostAPIException` if recipient list is not found or if recipient list is in use

get (*list_id, show_recipients=None*)

Get a recipient list by ID

Parameters

- **list_id** (*str*) – ID of the recipient list you want to retrieve
- **show_recipients** (*bool*) – If True, returns attributes for all recipients

Returns the requested recipient list if found

Raises `SparkPostAPIException` if recipient list is not found

list ()

Get a list of your recipient lists

Returns list of recipient lists

Raises `SparkPostAPIException` if API call fails

update (*list_id*, ***kwargs*)

Update a recipient list by ID based on the supplied parameters

Parameters

- **list_id** (*str*) – ID of the recipient list you want to update
- **name** (*str*) – Editable display name
- **description** (*str*) – Detailed description of the recipient list
- **attributes** (*dict*) – Arbitrary metadata related to the list
- **recipients** (*list*) – Array of recipient dicts

Returns a dict with the ID, name, and number of accepted and rejected recipients

Raises `SparkPostAPIException` if API call fails

4.1.2 sparkpost.suppression_list

class `sparkpost.suppression_list.SuppressionList` (*base_uri*, *api_key*)

`SuppressionList` class used to search, get and modify suppression status. For detailed request and response formats, see the [Suppression List API documentation](#).

create (*entry*)

Create a suppression list entry.

Parameters **status** (*dict/list*) – If dict it is a single entry to create { 'email': 'test@test.com', 'transactional': True, 'non_transactional': True, 'description': 'Test description' }, if list it is multiple entries to create

Returns a dict with a message

Raises `SparkPostAPIException` if API call fails

delete (*email*)

Delete the suppression status for a specific recipient by email

Parameters **email** (*str*) – Email of the recipient whose status you want to remove

Returns TODO

Raises `SparkPostAPIException` if API call fails

get (*email*)

Retrieve a suppression list entry for a specific recipient by email

Parameters **email** (*str*) – Email of the recipient whose status you want to check_status

Returns a suppression list entry

Raises `SparkPostAPIException` if API call fails

list (***kwargs*)

List suppression list entries based on the supplied parameters

Parameters

- **from_date** (*datetime*) – DateTime to start listing
- **to_date** (*datetime*) – DateTime to end listing
- **types** (*list*) – Types of entries to return
- **limit** (*int*) – Maximum number of entries to return

Returns a list of entries

Raises `SparkPostAPIException` if API call fails

update (*entry*)

Update a suppression list entry.

Parameters **status** (*dict/list*) – If dict it is a single entry to update { 'email': 'test@test.com', 'transactional': True, 'non_transactional': True, 'description': 'Test description' }, if list it is multiple entries to update

Returns a dict with a message

Raises `SparkPostAPIException` if API call fails

4.1.3 sparkpost.templates

class `sparkpost.templates.Templates` (*base_uri, api_key*)

Templates class used to create, update, delete, list and get templates. For detailed request and response formats, see the [Templates API documentation](#).

create (***kwargs*)

Create a template based on the supplied parameters

Parameters

- **id** (*str*) – ID used to reference the template
- **name** (*str*) – Editable display name
- **description** (*str*) – Detailed description of the template
- **published** (*bool*) – Defaults to False. Whether the template is a published or draft version
- **track_opens** (*bool*) – Defaults to transmission level setting. Used to track opens of transmission
- **track_clicks** (*bool*) – Defaults to transmission level setting. Used to track clicks of transmission
- **is_transactional** (*bool*) – Defaults to transmission level setting. Distinguishes between transactional and non-transactional messages for unsubscribe and suppression purposes
- **html** (*str*) – HTML part of template

- **text** (*str*) – Text part of template
- **subject** (*str*) – Subject of template
- **from_email** (*str*) – Friendly from of template, domain must be a verified sending domain to your account or template create will fail
- **reply_to** (*str*) – Reply to of template
- **custom_headers** (*dict*) – Used to set any headers associated with template

Returns a *dict* with the ID

Raises `SparkPostAPIException` if template uses an unverified sending domain or there's a syntax error in the content

delete (*template_id*)

Delete a template by ID

Parameters **template_id** (*str*) – ID of the template you want to delete

Returns `TODO`

Raises `SparkPostAPIException` if template is not found or if template is in use

get (*template_id*, *draft=None*)

Get a template by ID

Parameters

- **template_id** (*str*) – ID of the template you want to retrieve
- **draft** (*bool*) – Defaults to `None`. If `True`, returns the most recent draft template. If `False`, returns the most recent published template. If `None`, returns the most recent template version regardless of draft or published.

Returns the requested template if found

Raises `SparkPostAPIException` if template is not found

list ()

Get a list of your templates

Returns list of templates

Raises `SparkPostAPIException` if API call fails

preview (*template_id*, *substitution_data*, *draft=None*)

Get a preview of your template by ID with the provided *substitution_data*

Parameters

- **template_id** (*str*) – ID of the template you want to retrieve
- **substitution_data** (*dict*) – data to be substituted in the template content
- **draft** (*bool*) – Defaults to `None`. If `True`, previews the most recent draft template. If `False`, previews the most recent published template. If `None`, previews the most recent template version regardless of draft or published.

Returns the requested template if found with content expanded using substitution data provided

Raises `SparkPostAPIException` if API call fails

update (*template_id*, ***kwargs*)

Update a template by ID based on the supplied parameters

Parameters

- **template_id** (*str*) – ID of the template you want to retrieve
- **name** (*str*) – Editable display name
- **description** (*str*) – Detailed description of the template
- **published** (*bool*) – Defaults to False. Whether the template is a published or draft version
- **track_opens** (*bool*) – Defaults to transmission level setting. Used to track opens of transmission
- **track_clicks** (*bool*) – Defaults to transmission level setting. Used to track clicks of transmission
- **is_transactional** (*bool*) – Defaults to transmission level setting. Distinguishes between transactional and non-transactional messages for unsubscribe and suppression purposes
- **html** (*str*) – HTML part of template
- **text** (*str*) – Text part of template
- **subject** (*str*) – Subject of template
- **from_email** (*str*) – Friendly from of template, domain must be a verified sending domain to your account or template create will fail
- **reply_to** (*str*) – Reply to of template
- **custom_headers** (*dict*) – Used to set any headers associated with template

Returns TODO

Raises SparkPostAPIException if template is not found

4.1.4 sparkpost.transmissions

class sparkpost.transmissions.**Transmissions** (*base_uri, api_key*)

Transmission class used to send, list and get transmissions. For detailed request and response formats, see the [Transmissions API documentation](#).

get (*transmission_id*)

Get a transmission by ID

Parameters **transmission_id** (*str*) – ID of the transmission you want to retrieve

Returns the requested transmission if found

Raises SparkPostAPIException if transmission is not found

list ()

Get a list of your transmissions

Returns list of transmissions

Raises SparkPostAPIException if API call fails

send (***kwargs*)

Send a transmission based on the supplied parameters

Parameters

- **recipients** (*list/dict*) – If list it is an array of email addresses, if dict `{'address': {'name': 'Name', 'email': 'me'}}`

- **recipient_list** (*str*) – ID of recipient list, if set recipients above will be ignored
- **template** (*str*) – ID of template. If set HTML or text will not be used
- **use_draft_template** (*bool*) – Default to False. Set to true if you want to send a template that is a draft
- **html** (*str*) – HTML part of transmission
- **text** (*str*) – Text part of transmission
- **subject** (*str*) – Subject of transmission
- **from_email** (*str*) – Friendly from of transmission, domain must be a verified sending domain to your account or transmission will fail
- **reply_to** (*str*) – Reply to of transmission
- **description** (*str*) – Description of transmission
- **campaign** (*str*) – Campaign of transmission
- **metatdata** (*dict*) – Any data you want to send along with transmission, used in Web-Hooks
- **substitution_data** (*dict*) – Corresponds to substitutions in html/text content. See [substitutions reference](#).
- **start_time** (*str*) – Delay generation of messages until this datetime. Format YYYY-MM-DDTHH:MM:SS+-HH:MM. Example: '2015-02-11T08:00:00-04:00'.
- **track_opens** (*bool*) – Defaults to True. Used to track opens of transmission
- **track_clicks** (*bool*) – Defaults to True. Used to track clicks of transmission
- **use_sandbox** (*bool*) – Flag must be set to use sandbox domain instead of verified sending domain. Limited to a lifetime of 50 transmissions with this domain
- **transactional** (*bool*) – Whether message is transactional or non-transactional for unsubscribe and suppression purposes
- **skip_suppression** (*bool*) – Whether or not to ignore customer suppression rules, for this transmission only. Only applicable if your configuration supports this parameter. (SparkPost Elite only)
- **custom_headers** (*dict*) – Used to set any headers associated with transmission

Returns a `dict` with the ID and number of accepted and rejected recipients

Raises `SparkPostAPIException` if transmission cannot be sent

Using in Django

Configure Django to use SparkPost email backend

5.1 Django Email Backend

The SparkPost python library comes with an email backend for Django.

5.1.1 Configure Django

To configure Django to use SparkPost, put the following configuration in *settings.py* file.

```
SPARKPOST_API_KEY = 'API_KEY'  
EMAIL_BACKEND = 'sparkpost.django.email_backend.SparkPostEmailBackend'
```

Replace *API_KEY* with an actual API key.

5.1.2 Sending an email

Django is now configured to use the SparkPost email backend. You can now send mail using Django's *send_mail* method:

```
from django.core.mail import send_mail  
  
send_mail(  
    subject='hello from sparkpost',  
    message='Hello Rock stars!',  
    from_email='from@yourdomain.com',  
    recipient_list=['to@friendsdomain.com'],  
    html_message='<p>Hello Rock stars!</p>',  
)
```

5.1.3 Supported version

SparkPost will support all versions of Django that are within extended support period. Refer to [Django Supported_Version](#).

Current supported versions are:

- 1.7

- 1.8
- 1.9b1

5.1.4 Additional documentation

See our [Using SparkPost with Django](#) in support article.

Additional documentation

The underlying SparkPost API is documented at the official [SparkPost API Reference](#).

Contribute

1. Check for open issues or open a fresh issue to start a discussion around a feature idea or a bug.
2. Fork [the repository](#) on GitHub and make your changes in a branch on your fork
3. Write a test which shows that the bug was fixed or that the feature works as expected.
4. Send a pull request. Make sure to add yourself to [AUTHORS](#).

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