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# **gs.form Documentation**

***Release 3.0.0***

**GroupServer.org**

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This package provides a useful way of pushing data to a server by making a `POST` to a form. While originally written for [GroupServer](#), there is nothing specific to GroupServer in this product. Mostly it is a light facade around the `requests` library, which you should use [<http://requests.readthedocs.org>](http://requests.readthedocs.org).

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## gs.form API Reference

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The package exports the following API symbols.

`gs.form.post_multipart` (*netloc*, *selector*, *fields*, *files=None*, *usessl=False*)

Post fields and files to an http host as multipart/form-data.

### Parameters

- **netloc** (*str*) – The netloc (host or host:port).
- **selector** (*str*) – The path to the form that will be posted to.
- **fields** (*list*) – A sequence of (name, value) 2-tuple elements for regular form fields.
- **files** (*list*) – A sequence of (name, filename, value) 3-tuple elements for data to be uploaded as files
- **usessl** (*bool*) – True if TLS should be used to communicate with the server.

**Returns** The reponse-status

**Return type** `gs.form.Response`

**Example** Post three normal form fields (parrot, piranah, and ethyl) and one file (the text file rule.txt, sent as the unwritten form field) to example.com on port 2585, using normal HTTP rather than TLS (the default):

```
fields = [('parrot', 'dead'), ('piranha', 'brother'),
          ('ethyl', 'frog')]
files = [('unwritten', 'rule.txt', 'This is a transgression.')]
r = post_multipart('example.com:2585', '/form.html', fields, files)
status, reason, text = r
```

**class** `gs.form.Response` (*status*, *reason*, *text*)

Response from the server

### **status**

The status code

### **reason**

The short reason for the status

### **text**

The text of the document returned by the server.

## 1.1 Internals

`gs.form.postmultipart.files_to_dict` (*files*)

Turn a list of file-info tuples into a dict for requests.post

**Parameters** **files** (*list*) – A list of 3-tuples (field name, filename, data)

**Returns** A dictionary of files.

**Return type** `dict`

The field names are returned as keys, and the file-data is represented as 2-tuples: filename, file. The data is converted from a string (bytes or Unicode) to either a `io.BytesIO` or `io.StringIO`.



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## Changelog

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### 2.1 3.0.0 (2015-06-12)

- Dealing with 301 redirects, closing [Issue 4162](#)

### 2.2 2.2.1 (2015-04-15)

- Fixing a potential error due to using a [list](#) as a default argument

### 2.3 2.2.0 (2014-05-05)

- Added unit tests.
- Refactored code into smaller modules and functions.
- Added docstrings
- Added Sphinx support
- Added Python 3 support

### 2.4 1.1.1 (2014-01-23)

- Metadata cleanup for the product.
- PEP-8 tidy.
- Switch to Unicode literals.

### 2.5 1.1.0 (2012-08-01)

- Added SSL (TLS) support.

## 2.6 1.0.1 (2012-07-30)

- Support Unicode properly.

## 2.7 1.0.0 (2012-07-16)

- Added `post_multipart` to the module
- Moved the user-interface code to `gs.content.form`
- Renamed this module `gs.form`.

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## Indices and tables

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- `genindex`
- `modindex`
- `search`



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### Resources

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- Documentation: <http://groupserver.rtf.d.org/projects/gsfom/>
- Code repository: <https://github.com/groupserver/gsfom>
- Questions and comments to <http://groupserver.org/groups/development>
- Report bugs at <https://redmine.iopen.net/projects/groupserver>



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