
django-mailbox Documentation

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How many times have you had to consume some sort of POP3, IMAP, or local mailbox for incoming content, or had to otherwise construct an application driven by e-mail? One too many times, I'm sure.

This small Django application will allow you to specify mailboxes that you would like consumed for incoming content; the e-mail will be stored, and you can process it at will (or, if you're in a hurry, by subscribing to a signal).

The Django-mailbox retrieves the e-mail messages by eg. IMAP, POP and then erases them to not download again the next time. Django-mailbox is not a typical mail program, and is a development library that makes it easy to process email messages in Django. A mailbox in that case plays the role of a message queue that needs to be processed. Messages processed from the queue are removed from the queue.

Contents:

Installation

1. You can either install from pip:

```
pip install django-mailbox
```

or checkout and install the source from the [github repository](#):

```
git clone https://github.com/coddingtonbear/django-mailbox.git
cd django-mailbox
python setup.py install
```

2. After you have installed the package, add `django_mailbox` to the `INSTALLED_APPS` setting in your project's `settings.py` file.
3. From your project folder, run `python manage.py migrate django_mailbox` to create the required database tables.
4. Head to your project's Django Admin and create a mailbox to consume.

Note: Once you have entered a mailbox to consume, you can easily verify that you have properly configured your mailbox by either:

- From the Django Admin, using the 'Get New Mail' action from the action dropdown on the Mailbox changelist (http://yourproject.com/admin/django_mailbox/mailbox/).
- *Or* from a shell opened to your project's directory, using the `getmail` management command by running:

```
python manage.py getmail
```

Supported Mailbox Types

Django Mailbox supports polling both common internet mailboxes like POP3 and IMAP as well as local file-based mailboxes.

Table 1: ‘Protocol’ Options

Mailbox Type	‘Protocol’://	Notes
POP3	pop3:// /	Can also specify SSL with <code>pop3+ssl://</code>
IMAP	imap:// /	Can also specify SSL with <code>imap+ssl://</code> or STARTTLS with <code>imap+tls</code> ; additional configuration is also possible; see <i>POP3 and IMAP Mailboxes</i> for details.
Gmail IMAP	gmail+ssl:// /	Uses OAuth authentication for Gmail’s IMAP transport. See <i>Specifying an archive folder</i> for details.
Maildir	maildir:// /	
Mbox	mbox:// /	
Babyl	babyl:// /	
MH	mh://	
MMDF	mmdf:// /	
Piped Mail	<i>empty</i>	See <i>Receiving mail directly from Exim4 or Postfix via a pipe</i>

Warning: Unless you are using IMAP’s ‘Archive’ feature, this will delete any messages it can find in the inbox you specify; do not use an e-mail inbox that you would like to share between applications.

2.1 POP3 and IMAP Mailboxes

Mailbox URIs are in the normal URI format:

```
protocol://username:password@domain
```

Basic IMAP Example: `imap://username:password@server`

Basic POP3 Example: `pop3://username:password@server`

Most mailboxes these days are SSL-enabled; if yours use plain SSL add `+ssl` to the protocol section of your URI, but for STARTTLS add `+tls`. Also, if your username or password include any non-ascii characters, they should be URL-encoded (for example, if your username includes an `@`, it should be changed to `%40` in your URI).

For a verbose example, if you have an account named `youremailaddress@gmail.com` with a password of `1234` on GMail, which uses a IMAP server of `imap.gmail.com` (requiring SSL) and you would like to fetch new emails from folder named `Myfolder` and archive them after processing into a folder named `Archived`, you would enter the following as your URI:

```
imap+ssl://youremailaddress%40gmail.com:1234@imap.gmail.com?archive=Archived&
↳ folder=Myfolder
```

2.1.1 Additional IMAP Mailbox Features

If you are using an IMAP Mailbox, you have two additional configuration options that you can set by appending parameters to the end of your mailbox URI.

Specifying the source folder

Although by default, Django Mailbox will consume messages from your 'INBOX' folder, you can specify the folder from which you'd like messages consumed by specifying the `folder` URI query parameter; for example, to instead consume from the folder named 'MyFolder', you could add `?folder=MyFolder` to the end of your URI:

```
imap+ssl://youremailaddress%40gmail.com:1234@imap.gmail.com?folder=MyFolder
```

Specifying an archive folder

Django Mailbox will delete messages immediately after processing them, but you can specify an IMAP folder to which the messages should be copied before the original message is deleted.

To archive email messages, add the archive folder name as a query parameter to the URI. For example, if your mailbox has a folder named `myarchivefolder` that you would like to copy messages to after processing, add `?archive=myarchivefolder` to the end of the URI:

```
imap+ssl://youremailaddress%40gmail.com:1234@imap.gmail.com?archive=myarchivefolder
```

If you want to specifying both folder use `&`:

```
imap+ssl://youremailaddress%40gmail.com:1234@imap.gmail.com?archive=myarchivefolder&
↳ folder=MyFolder
```

2.2 Gmail IMAP with Oauth2 authentication

For added security, Gmail supports using OAuth2 for authentication. To handle the handshake and storing the credentials, use `python-social-auth`.

The Gmail Mailbox is also a regular IMAP mailbox, but the password you specify will be ignored if OAuth2 authentication succeeds. It will fall back to use your specified password as needed.

Build your URI accordingly:

```
gmail+ssl://youremailaddress%40gmail.com:oauth2@imap.gmail.com?archive=Archived
```

2.3 Local File-based Mailboxes

If you happen to want to consume a file-based mailbox like an Maildir, Mbox, Babyl, MH, or MMDF mailbox, you can use this too by entering the appropriate 'protocol' in the URI. If you had a maildir, for example, at `/var/mail/`, you would enter a URI like:

```
maildir:///var/mail
```

Note that there is an additional `/` in the above URI after the protocol; this is important.

Getting incoming mail

3.1 In your code

Mailbox instances have a method named `get_new_mail`; this method will gather new messages from the server.

3.2 Using the Django Admin

From the ‘Mailboxes’ page in the Django Admin, check the box next to each of the mailboxes you’d like to fetch e-mail from, select ‘Get new mail’ from the action selector at the top of the list of mailboxes, then click ‘Go’.

3.3 Using a cron job

You can easily consume incoming mail by running the management command named `getmail` (optionally with an argument of the name of the mailbox you’d like to get the mail for):

```
python manage.py getmail
```

3.4 Receiving mail directly from Exim4 or Postfix via a pipe

Django Mailbox’s `processincomingmessage` management command accepts, via `stdin`, incoming messages. You can configure Postfix or Exim4 to pipe incoming mail to this management command to import messages directly without polling.

You need not configure mailbox settings when piping-in messages, mailbox entries will be automatically created matching the e-mail address to which incoming messages are sent, but if you would like to specify the mailbox name, you may provide a single argument to the `processincomingmessage` command specifying the name of the mailbox you would like it to use (and, if necessary, create).

3.4.1 Receiving Mail from Exim4

To configure Exim4 to receive incoming mail, start by adding a new router configuration to your Exim4 configuration like:

```
django_mailbox:
  debug_print = 'R: django_mailbox for $localpart@$domain'
  driver = accept
  transport = send_to_django_mailbox
  domains = mydomain.com
  local_parts = emailusernameone : emailusernamestwo
```

Make sure that the e-mail addresses you would like handled by Django Mailbox are not handled by another router; you may need to disable some existing routers.

Change the contents of `local_parts` to match a colon-delimited list of usernames for which you would like to receive mail. For example, if one of the e-mail addresses targeted at this machine is `jane@example.com`, the contents of `local_parts` would be, simply `jane`.

Note: If you would like messages addressed to *any* account `@mydomain.com` to be delivered to `django_mailbox`, simply omit the above `local_parts` setting. In the same vein, if you would like messages addressed to any domain or any local domains, you can omit the `domains` setting or set it to `+local_domains` respectively.

Next, a new transport configuration to your Exim4 configuration:

```
send_to_django_mailbox:
  driver = pipe
  command = /path/to/your/environments/python /path/to/your/projects/manage.py_
↳processincomingmessage
  user = www-data
  group = www-data
  return_path_add
  delivery_date_add
```

Like your router configuration, transport configuration should be altered to match your environment. First, modify the `command` setting such that it points at the proper python executable (if you're using a virtual environment, you'll want to direct that at the python executable in your virtual environment) and project `manage.py` script. Additionally, you'll need to set `user` and `group` such that they match a reasonable user and group (on Ubuntu, `www-data` suffices for both).

3.4.2 Receiving mail from Postfix

Although I have not personally tried using Postfix for this, Postfix is capable of delivering new mail to a script using `pipe`. Please consult the [Postfix documentation for pipe](#) here. You may want to consult the above Exim4 configuration for tips.

Subscribing to the incoming mail signal

To subscribe to the incoming mail signal, following this lead:

```
from django_mailbox.signals import message_received
from django.dispatch import receiver

@receiver(message_received)
def dance_jig(sender, message, **args):
    print "I just recieved a message titled %s from a mailbox named %s" % (message.
↪subject, message.mailbox.name, )
```

Warning: As with all django signals, this should be loaded either in an app's `models.py` or somewhere else loaded early on. If you do not load it early enough, the signal may be fired before your signal handler's registration is processed!

Here we describe the development process overview. It's in F.A.Q. format to make it simple.

5.1 How to file a ticket?

Just go to <https://github.com/coddingtonbear/django-mailbox> and create new one.

5.2 How do I get involved?

It's simple! If you want to fix a bug, extend documentation or whatever you think is appropriate for the project and involves changes, just fork the project on github (<https://github.com/coddingtonbear/django-mailbox>), create a separate branch, hack on it, publish changes at your fork and create a pull request.

5.3 Why my issue/pull request was closed?

We usually put an explanation while we close issue or PR. It might be for various reasons, i.e. there were no reply for over a month after our last comment, there were no tests for the changes etc.

5.4 How to do a new release?

To enroll a new release you should perform the following task:

- Ensure the file `CHANGELOG.rst` reflects all important changes.
- Ensure the file `CHANGELOG.rst` includes a new version identifier and current release date.
- Execute `bumpversion patch` (or accordingly - see [Semantic Versioning 2.0](#)) to reflect changes in codebase.

- Commit changes to the codebase, e.g. `git commit -m "Release 1.4.8" -a`.
- Tag a new release, e.g. `git tag "1.4.8"`.
- Push new tag to repo - `git push origin --tags`.
- Push a new release to PyPI - `python setup.py sdist bdist_wheel upload`.

5.5 How to add support for a new Django version?

Changes are only necessary for new minor or major Django versions.

To add support for a new version perform the following task:

- Ensure that `tox.ini` file reflects support for new Django release.
- Verify in tox that the code is executed correctly on all versions of the Python interpreter.
- Ensure that `.travis.yml` file reflects support for new Django release. Note the excluded versions of the Python interpreter.
- Verify by pushing changes on a separate branch to see if the changes in TravisCI are correct.
- Proceed to the standard procedure for a new package release (see [How to do a new release?](#)).

A [spreadsheet with generator](#) is available that can assist this process.

6.1 Class Documentation

6.1.1 Mailbox

class `django_mailbox.models.Mailbox` (*id, name, uri, from_email, active, last_polling*)

Parameters

- **id** (*AutoField*) – Id
- **name** (*CharField*) – Name
- **uri** (*CharField*) – Example: `imap+ssl://myusername:mypassword@someserver` Internet transports include ‘imap’ and ‘pop3’; common local file transports include ‘maildir’, ‘mbox’, and less commonly ‘babyl’, ‘mh’, and ‘mmdf’. Be sure to urlencode your username and password should they contain illegal characters (like @, :, etc).
- **from_email** (*CharField*) – Example: `MailBot <mailbot@yourdomain.com>` ‘From’ header to set for outgoing email. If you do not use this e-mail inbox for outgoing mail, this setting is unnecessary. If you send e-mail without setting this, your ‘From’ header will be set to match the setting `DEFAULT_FROM_EMAIL`.
- **active** (*BooleanField*) – Check this e-mail inbox for new e-mail messages during polling cycles. This checkbox does not have an effect upon whether mail is collected here when this mailbox receives mail from a pipe, and does not affect whether e-mail messages can be dispatched from this mailbox.
- **last_polling** (*DateTimeField*) – The time of last successful polling for messages. It is blank for new mailboxes and is not set for mailboxes that only receive messages via a pipe.

exception `DoesNotExist`

exception `MultipleObjectsReturned`

active

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

active_mailboxes = <django_mailbox.models.ActiveMailboxManager object>

archive

Returns (if specified) the folder to archive messages to.

folder

Returns (if specified) the folder to fetch mail from.

from_email

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

get_connection()

Returns the transport instance for this mailbox.

These will always be instances of *django_mailbox.transports.base.EmailTransport*.

get_new_mail(condition=None)

Connect to this transport and fetch new messages.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

last_polling

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

location

Returns the location (domain and path) of messages.

messages

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

name

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = <django_mailbox.models.MailboxManager object>

password

Returns the password to use for fetching messages.

port

Returns the port to use for fetching messages.

process_incoming_message(message)

Process a message incoming to this mailbox.

record_outgoing_message (*message*)

Record an outgoing message associated with this mailbox.

type

Returns the ‘transport’ name for this mailbox.

uri

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

use_ssl

Returns whether or not this mailbox’s connection uses SSL.

use_tls

Returns whether or not this mailbox’s connection uses STARTTLS.

username

Returns the username to use for fetching messages.

6.1.2 Message

```
class django_mailbox.models.Message (id, mailbox, subject, message_id, in_reply_to,
                                     from_header, to_header, outgoing, body, encoded,
                                     processed, read, eml)
```

Parameters

- **id** (*AutoField*) – Id
- **mailbox_id** (*ForeignKey to Mailbox*) – Mailbox
- **subject** (*CharField*) – Subject
- **message_id** (*CharField*) – Message id
- **in_reply_to_id** (*ForeignKey to Message*) – In reply to
- **from_header** (*CharField*) – From header
- **to_header** (*TextField*) – To header
- **outgoing** (*BooleanField*) – Outgoing
- **body** (*TextField*) – Body
- **encoded** (*BooleanField*) – True if the e-mail body is Base64 encoded
- **processed** (*DateTimeField*) – Processed
- **read** (*DateTimeField*) – Read
- **eml** (*FileField*) – Original full content of message

exception DoesNotExist

exception MultipleObjectsReturned

address

Property allowing one to get the relevant address(es).

In earlier versions of this library, the model had an *address* field storing the e-mail address from which a message was received. During later refactorings, it became clear that perhaps storing sent messages would also be useful, so the address field was replaced with two separate fields.

attachments

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

body

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

delete (*args, **kwargs)

Delete this message and all stored attachments.

eml

The descriptor for the file attribute on the model instance. Return a `FieldFile` when accessed so you can write code like:

```
>>> from myapp.models import MyModel
>>> instance = MyModel.objects.get(pk=1)
>>> instance.file.size
```

Assign a file object on assignment so you can do:

```
>>> with open('/path/to/hello.world') as f:
...     instance.file = File(f)
```

encoded

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

from_address

Returns the address (as a list) from which this message was received

Note: This was once (and probably should be) a string rather than a list, but in a pull request received long, long ago it was changed; presumably to make the interface identical to that of `to_addresses`.

from_header

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

get_body ()

Returns the *body* field of this record.

This will automatically base64-decode the message contents if they are encoded as such.

get_email_object ()

Returns an *email.message.EmailMessage* instance representing the contents of this message and all attachments.

See [[email.message.EmailMessage](#)] for more information as to what methods and properties are available on *email.message.EmailMessage* instances.

Note: Depending upon the storage methods in use (specifically – whether `DJANGO_MAILBOX_STORE_ORIGINAL_MESSAGE` is set to `True`, this may either create a “re-hydrated” message using stored attachments, or read the message contents stored on-disk.

`get_next_by_processed` (*, *field*=<django.db.models.fields.DateTimeField: *processed*>, *is_next*=`True`, ***kwargs*)

`get_previous_by_processed` (*, *field*=<django.db.models.fields.DateTimeField: *processed*>, *is_next*=`False`, ***kwargs*)

html

Returns the message body matching content type ‘text/html’.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

in_reply_to

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

in_reply_to_id

`incoming_messages` = <django_mailbox.models.IncomingMessageManager object>

mailbox

Accessor to the related object on the forward side of a many-to-one or one-to-one (via `ForwardOneToOneDescriptor` subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Child.parent` is a `ForwardManyToOneDescriptor` instance.

mailbox_id

message_id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`objects` = <django.db.models.manager.Manager object>

outgoing

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`outgoing_messages` = <django_mailbox.models.OutgoingMessageManager object>

processed

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

read

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

replies

Accessor to the related objects manager on the reverse side of a many-to-one relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

`Parent.children` is a `ReverseManyToOneDescriptor` instance.

Most of the implementation is delegated to a dynamically defined manager class built by `create_forward_many_to_many_manager()` defined below.

reply (*message*)

Sends a message as a reply to this message instance.

Although Django’s e-mail processing will set both Message-ID and Date upon generating the e-mail message, we will not be able to retrieve that information through normal channels, so we must pre-set it.

set_body (*body*)

Set the *body* field of this record.

This will automatically base64-encode the message contents to circumvent a limitation in earlier versions of Django in which no fields existed for storing arbitrary bytes.

subject

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

text

Returns the message body matching content type ‘text/plain’.

to_addresses

Returns a list of addresses to which this message was sent.

to_header

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

`unread_messages = <django_mailbox.models.UnreadMessageManager object>`

6.1.3 Message Attachment

`class django_mailbox.models.MessageAttachment (id, message, headers, document)`

Parameters

- **id** (*AutoField*) – Id
- **message_id** (*ForeignKey to Message*) – Message
- **headers** (*TextField*) – Headers
- **document** (*FileField*) – Document

exception DoesNotExist

exception MultipleObjectsReturned

delete (*args, **kwargs)
Deletes the attachment.

document

The descriptor for the file attribute on the model instance. Return a FieldFile when accessed so you can write code like:

```
>>> from myapp.models import MyModel
>>> instance = MyModel.objects.get(pk=1)
>>> instance.file.size
```

Assign a file object on assignment so you can do:

```
>>> with open('/path/to/hello.world') as f:
...     instance.file = File(f)
```

get_filename()
Returns the original filename of this attachment.

headers

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

id

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

items()

message

Accessor to the related object on the forward side of a many-to-one or one-to-one (via ForwardOneToOneDescriptor subclass) relation.

In the example:

```
class Child(Model):
    parent = ForeignKey(Parent, related_name='children')
```

Child.parent is a ForwardManyToOneDescriptor instance.

message_id

objects = <django.db.models.manager.Manager object>

6.2 Message Storage Details

First, it may be helpful to know a little bit about how e-mail messages are actually sent across the wire:

Messages are grouped into multiple message payload parts, and should binary attachments exist, they are encoded into text using, generally, base64 or quoted-printable encodings.

Earlier versions of this library would preserve the above text verbatim in the database, but neither of the above encodings are very efficient methods of storing binary data, and databases aren't really ideal for storing large chunks of binary data anyway.

Modern versions of this library (>=2.1) will walk through the original message, write models.MessageAttachment records for each non-text attachment, and alter the message body removing the original payload component, but writing a custom header providing the library enough information to re-build the message in the event that one needs a python email.message.Message object.

The above payload is what would continue to be stored in the database. Although in this constructed example, this reduces the message's size only marginally, in most instances, attached files are much larger than the attachment shown here.

Note: Email message bodies are `base-64` encoded when stored in the database.

Although the attachment is no longer preserved in the message body above, and only the `X-Django-Mailbox-Interpolate-Attachment: 1308` header remains in the place of the original attachment, the attachment was stored in a `django_mailbox.MessageAttachment` record:

Field	Value	Description
Primary Key	1308	Uniquely generated for each attachment.
Headers	<code>Content-Type: image/png; name="heart.png"</code> <code>Content-Disposition: attachment; filename="heart.png"</code> <code>Content-Transfer-Encoding: base64</code> <code>X-Attachment-Id: f_hc6mair60</code>	Raw headers from the actual message's payload part.
File	(binary file object)	References a stored-on-disk binary file corresponding with this attachment.

And were one to run the `django_mailbox.Message` instance's `get_email_object` method, the following message will be returned:

Note: Note that although the above is functionally identical to the originally received message, there were changes in the order of headers in rehydrated message components, and whitespace changes are also possible (but not shown above).

6.3 Settings

- `DJANGO_MAILBOX_ADMIN_ENABLED`
 - Default: `True`
 - Type: `boolean`
 - Controls whether mailboxes appear in the Django Admin.
- `DJANGO_MAILBOX_STRIP_UNALLOWED_MIMETYPES`
 - Default: `False`
 - Type: `boolean`
 - Controls whether or not we remove mimetypes not specified in `DJANGO_MAILBOX_PRESERVED_MIMETYPES` from the message prior to storage.
- `DJANGO_MAILBOX_ALLOWED_MIMETYPES`
 - Default: `['text/html', 'text/plain']`
 - Type: `list`

- Should `DJANGO_MAILBOX_STRIP_UNALLOWED_MIMETYPES` be `True`, this is a list of mimetypes that will not be stripped from the message prior to processing attachments. Has no effect unless `DJANGO_MAILBOX_STRIP_UNALLOWED_MIMETYPES` is set to `True`.
- `DJANGO_MAILBOX_TEXT_STORED_MIMETYPES`
 - Default: `['text/html', 'text/plain']`
 - Type: `list`
 - A list of mimetypes that will remain stored in the text body of the message in the database. See *Message Storage Details*.
- `DJANGO_MAILBOX_ALTERED_MESSAGE_HEADER`
 - Default: `X-Django-Mailbox-Altered-Message`
 - Type: `string`
 - Header to add to a message payload part in the event that the message cannot be reproduced accurately. Possible values include:
 - * `Missing`: The message could not be reconstructed because the message payload component (stored outside this database record) could not be found. This will be followed by a semicolon (`;`) and a short, more detailed description of which record was not found.
 - * `Stripped`: The message could not be reconstructed because the message payload component was intentionally stripped from the message body prior to storage. This will be followed by a semicolon (`;`) and a short, more detailed description of why this payload component was stripped.
- `DJANGO_MAILBOX_ATTACHMENT_INTERPOLATION_HEADER`
 - Default: `X-Django-Mailbox-Interpolate-Attachment`
 - Type: `string`
 - Header to add to the temporary ‘dehydrated’ message body in lieu of a non-text message payload component. The value of this header will be used to ‘rehydrate’ the message into a proper e-mail object in the event of a message instance’s `get_email_object` method being called. Value of this field is the primary key of the `django_mailbox.MessageAttachment` instance currently storing this payload component’s contents.
- `DJANGO_MAILBOX_ATTACHMENT_UPLOAD_TO`
 - Default: `mailbox_attachments/%Y/%m/%d/`
 - Type: `string`
 - Attachments will be saved to this location. Specifies the `upload_to` setting for the attachment `FileField`. For more on `FileFields` and `upload_to`, see the [Django docs](#)
- `DJANGO_MAILBOX_MAX_MESSAGE_SIZE`
 - Default: `False`
 - Type: `integer`
 - If this is set, it will be read as a number of bytes. Any messages above that size will not be downloaded. `2000000` is 2 Megabytes.
- `DJANGO_MAILBOX_STORE_ORIGINAL_MESSAGE`
 - Default: `False`
 - Type: `boolean`
 - Controls whether or not we store original messages in `eml` field

CHAPTER 7

Indices and tables

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

Bibliography

[`email.message.EmailMessage`] Python's *email.message.EmailMessage* docs (<https://docs.python.org/3/library/email.message.html>)

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