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## x Internals: Message.pm

This module provides objects to encapsulate file message in order to prevent it from its alteration for using signatures.

### new()

Creates an object Message and initialize it:

- `msg`: ref(MIME::Entity)
- `altered` *if the message is altered*
- `filename`: the file containing the message
- `size`: the message size
- `sender`: the first email address, in the 'From' field
- `decoded_subject`: the 'Subject' field decoded by MIME::Words::decode\_mimewords
- `subject_charset`: the charset used to encode the 'Subject' field
- `rcpt`: the 'X-Sympa-To' field
- `list`: ref(List) *if it is a message no addressed to Sympa or a listmaster*
- `topic`: the 'X-Sympa-Topic' field.
- *in a 'openssl' context - decrypt message:*
  - `smime_crypted`: 'smime\_crypted' *if it is in a 'openssl' context*
  - `orig_msg`: ref(MIME::Entity) - crypted message
  - `msg`: ref(MIME::Entity) - decrypted message (see `tools::smime_decrypt()`)
  - `msg_as_string`: string - decrypted message (see `tools::smime_decrypt()`)
- *in a 'openssl' context - check signature:*
  - `protected`: 1 *if the message should not be altered*
  - `smime_signed`: 1 *if the message is signed*
  - `smime_subject`: ref(HASH) *if the message is signed* - information on the signer see `tools::smime_parse_cert()`.

### IN:

1. `pkg(+)`: Message
2. `file(+)`: the message file

**OUT:** ref(Message) undef

### dump()

Dump the message object in the file descriptor \$output

### IN:

1. `self(+)`: ref(Message)
2. `output(+)`: file descriptor

**OUT:** '1'

## add\_topic()

Adds the message topic in the Message object (`topic`) and adds the 'X-Sympa-Topic' field in the `ref(MIME::Entity) msg`.

**IN:**

1. `self(+)`: `ref(Message)`
2. `topic(+)`: string splitted by ',' - list of topic

**OUT:** '1'

## get\_topic()

Returns the topic(s) of the message

**IN:** `self(+)`: `ref(Message)`

**OUT:** *if no message topic* | string splitted by ',' *if message topic* N.B.: \*  
(+): required parameter, value must not be empty \*: or" for parameters value

- \$: reference to code parameters or variables
- *condition for parameter*

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