NAME

Mail::Message::TransferEnc − message transfer encoder/decoder

INHERITANCE

```
 Mail::Message::TransferEnc
   is a Mail::Reporter

 Mail::Message::TransferEnc is extended by
   Mail::Message::TransferEnc::Base64
   Mail::Message::TransferEnc::Binary
   Mail::Message::TransferEnc::EightBit
   Mail::Message::TransferEnc::QuotedPrint
   Mail::Message::TransferEnc::SevenBit
```

SYNOPSIS

```
 my Mail::Message $msg = ...;
 my $decoded = $msg−>decoded;
 my $encoded = $msg−>encode(transfer => 'base64');
```

DESCRIPTION

This class is the base for various encoders and decoders, which are used during transport of the message. These packages, and all which are derived, are invoked by the message's **Mail::Message::decoded()** and **Mail::Message::encode()** methods:

```
 my $message = $folder−>message(3);
 my $decoded_body = $message−>decoded;
 my $encoded_body = $message−>encode(transfer => 'base64');
```

The following coders/decoders are currently available:

- Mail::Message::TransferEnc::Base64

  `base64` for binary information.

- Mail::Message::TransferEnc::SevenBit

  `7bit` for plain old ASCII characters only.

- Mail::Message::TransferEnc::EightBit

  `8bit` for extended character set data, not encoded.

- Mail::Message::TransferEnc::QuotedPrint

  `quoted−printable` encdoded extended character set data.

Extends "DESCRIPTION" in Mail::Reporter.

METHODS

Extends "METHODS" in Mail::Reporter.

Constructors

Extends "Constructors" in Mail::Reporter.

Mail::Message::TransferEnc−>**new**(%options)
  Inherited, see "Constructors" in Mail::Reporter

The Encoder

Mail::Message::TransferEnc−>**addTransferEncoder**($type, `$class`)
  Adds one new encoder to the list known by the Mail::Box suite. The `$type` is found in the message's header in the `Content−Transfer−Encoding` field.

`$obj`−>**create**($type, `%options`)
  Create a new coder/decoder based on the required type.

$obj−>**name**()
The name of the encoder. Case is not significant.

Encoding

$obj−>**check**($body, %options)
Check whether the body is correctly encoded. If so, the body reference is returned with the checked flag set. Otherwise, a new object is created and returned.

```
 −Option     −−Default
  result_type  <type of source body>
```

result_type => CLASS
The type of the body to be produced, when the checker decides to return modified data.

$obj−>**decode**($body, %options)
Use the encoder to decode the content of $body. A new body is returned.

```
 −Option     −−Default
  result_type  <type of source body>
```

result_type => CLASS
The type of the body to be produced, when the decoder decides to return modified data.

$obj−>**encode**($body, %options)
Use the encoder to encode the content of $body.

```
 −Option     −−Default
  result_type  <type of source body>
```

result_type => CLASS
The type of the body to be produced, when the decoder decides to return modified data.

Error handling

Extends ‘‘Error handling’’ in Mail::Reporter.

$obj−>**AUTOLOAD**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**addReport**($object)
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**defaultTrace**([$level]|[$loglevel, $tracelevel]|[$level, $callback])
Mail::Message::TransferEnc−>**defaultTrace**([$level]|[$loglevel, $tracelevel]|[$level, $callback])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**errors**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**log**([$level, [$strings]])
Mail::Message::TransferEnc−>**log**([$level, [$strings]])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**logPriority**($level)
Mail::Message::TransferEnc−>**logPriority**($level)
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**logSettings**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**notImplemented**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**report**([$level])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

`$obj->`**reportAll**([$level])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

`$obj->`**trace**([$level])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

`$obj->`**warnings**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

Cleanup

Extends ‘‘Cleanup’’ in Mail::Reporter.

`$obj->`**DESTROY**()
Inherited, see ‘‘Cleanup’’ in Mail::Reporter

DIAGNOSTICS

Error: Decoder for transfer encoding `$type` does not work: $@
Compiling the required transfer encoding resulted in errors, which means that the decoder can not be used.

Warning: No decoder for transfer encoding `$type`.
A decoder for the specified type of transfer encoding is not implemented.

Error: Package `$package` does not implement `$method`.
Fatal error: the specific package (or one of its superclasses) does not implement this method where it should. This message means that some other related classes do implement this method however the class at hand does not. Probably you should investigate this and probably inform the author of the package.

SEE ALSO

This module is part of Mail-Message distribution version 3.012, built on February 11, 2022. Website: *http://perl.overmeer.net/CPAN/*

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