

NAME

Mail::Box::Net – handle folders which are stored remote.

INHERITANCE

```
Mail::Box::Net
  is a Mail::Box
  is a Mail::Reporter
```

```
Mail::Box::Net is extended by
  Mail::Box::IMAP4
  Mail::Box::POP3
```

SYNOPSIS

```
# Do not instantiate this object directly
```

DESCRIPTION

At the moment, this object is extended by

- Mail::Box::POP3
Implements the POP3 protocol.
- Mail::Box::IMAP4
Implements the IMAP4 protocol.

Extends “DESCRIPTION” in Mail::Box.

OVERLOADED

Extends “OVERLOADED” in Mail::Box.

overload: “”

Inherited, see “OVERLOADED” in Mail::Box

overload: @{}

Inherited, see “OVERLOADED” in Mail::Box

overload: **cmp**

Inherited, see “OVERLOADED” in Mail::Box

METHODS

Extends “METHODS” in Mail::Box.

Constructors

Extends “Constructors” in Mail::Box.

Mail::Box::Net->**new**(%options)

-Option	--Defined in	--Default
access	Mail::Box	'r'
body_delayed_type	Mail::Box	Mail::Message::Body::Delayed
body_type	Mail::Box	Mail::Message::Body::Lines
coerce_options	Mail::Box	[]
create	Mail::Box	<false>
extract	Mail::Box	10240
field_type	Mail::Box	undef
fix_headers	Mail::Box	<false>
folder	Mail::Box	'/'
folderdir	Mail::Box	<network location>
head_delayed_type	Mail::Box	Mail::Message::Head::Delayed
head_type	Mail::Box	Mail::Message::Head::Complete
keep_dups	Mail::Box	<false>
lock_file	Mail::Box	undef
lock_timeout	Mail::Box	1 hour

lock_type	Mail::Box	'NONE'
lock_wait	Mail::Box	10 seconds
locker	Mail::Box	undef
log	Mail::Reporter	'WARNINGS'
manager	Mail::Box	undef
message_type	Mail::Box	<folder-class>::Message
multipart_type	Mail::Box	Mail::Message::Body::Multipart
password		undef
remove_when_empty	Mail::Box	<false>
save_on_exit	Mail::Box	<true>
server_name		undef
server_port		undef
trace	Mail::Reporter	'WARNINGS'
trusted	Mail::Box	<false>
username		undef

access => MODE
 body_delayed_type => CLASS
 body_type => CLASS|CODE
 coerce_options => ARRAY
 create => BOOLEAN
 extract => INTEGER | CODE | METHOD | 'LAZY' | 'ALWAYS'
 field_type => CLASS
 fix_headers => BOOLEAN
 folder => FOLDERNAME
 folderdir => DIRECTORY
 head_delayed_type => CLASS
 head_type => CLASS
 keep_dups => BOOLEAN
 lock_file => FILENAME
 lock_timeout => SECONDS
 lock_type => CLASS|STRING|ARRAY
 lock_wait => SECONDS
 locker => OBJECT
 log => LEVEL
 manager => MANAGER
 message_type => CLASS
 multipart_type => CLASS
 password => STRING
 The password which is required to contact the remote server.
 remove_when_empty => BOOLEAN
 save_on_exit => BOOLEAN
 server_name => HOSTNAME
 The name of the host which contains the remote mail server.
 server_port => INTEGER
 Port number in use by the server application.
 trace => LEVEL
 trusted => BOOLEAN
 username => STRING
 The username which is to be used for the remote server.

The folder

Extends “The folder” in Mail::Box.

`$obj->addMessage($message, %options)`

Inherited, see “The folder” in Mail::Box

`$obj->addMessages(@messages)`

Inherited, see “The folder” in Mail::Box

`Mail::Box::Net->appendMessages(%options)`

Inherited, see “The folder” in Mail::Box

`$obj->close(%options)`

Inherited, see “The folder” in Mail::Box

`$obj->copyTo($folder, %options)`

Inherited, see “The folder” in Mail::Box

`$obj->delete(%options)`

Inherited, see “The folder” in Mail::Box

`$obj->folderdir([$directory])`

Inherited, see “The folder” in Mail::Box

`$obj->name()`

Inherited, see “The folder” in Mail::Box

`$obj->organization()`

Inherited, see “The folder” in Mail::Box

`$obj->size()`

Inherited, see “The folder” in Mail::Box

`$obj->type()`

Inherited, see “The folder” in Mail::Box

`$obj->update(%options)`

Inherited, see “The folder” in Mail::Box

`$obj->url()`

Inherited, see “The folder” in Mail::Box

Folder flags

Extends “Folder flags” in Mail::Box.

`$obj->access()`

Inherited, see “Folder flags” in Mail::Box

`$obj->isModified()`

Inherited, see “Folder flags” in Mail::Box

`$obj->modified([BOOLEAN])`

Inherited, see “Folder flags” in Mail::Box

`$obj->writable()`

Inherited, see “Folder flags” in Mail::Box

The messages

Extends “The messages” in Mail::Box.

`$obj->current([$number|$message|$message_id])`

Inherited, see “The messages” in Mail::Box

`$obj->find($message_id)`

Inherited, see “The messages” in Mail::Box

`$obj->findFirstLabeled($label, [BOOLEAN, [$msgs]])`

Inherited, see “The messages” in Mail::Box

`$obj->message($index, [$message])`
 Inherited, see “The messages” in Mail::Box

`$obj->messageId($message_id, [$message])`
 Inherited, see “The messages” in Mail::Box

`$obj->messageIds()`
 Inherited, see “The messages” in Mail::Box

`$obj->messages((<'ALL'|$range|'ACTIVE'|'DELETED'|$label| !$label|$filter>))`
 Inherited, see “The messages” in Mail::Box

`$obj->nrMessages(%options)`
 Inherited, see “The messages” in Mail::Box

`$obj->scanForMessages($message, $message_ids, $timespan, $window)`
 Inherited, see “The messages” in Mail::Box

Sub-folders

Extends “Sub-folders” in Mail::Box.

`$obj->listSubFolders(%options)`
 Mail::Box::Net->**listSubFolders**(%options)
 Inherited, see “Sub-folders” in Mail::Box

`$obj->nameOfSubFolder($subname, [$parentname])`
 Mail::Box::Net->**nameOfSubFolder**(\$subname, [\$parentname])
 Inherited, see “Sub-folders” in Mail::Box

`$obj->openRelatedFolder(%options)`
 Inherited, see “Sub-folders” in Mail::Box

`$obj->openSubFolder($subname, %options)`
 Inherited, see “Sub-folders” in Mail::Box

`$obj->topFolderWithMessages()`
 Mail::Box::Net->**topFolderWithMessages**()
 Inherited, see “Sub-folders” in Mail::Box

Internals

Extends “Internals” in Mail::Box.

`$obj->coerce($message, %options)`
 Inherited, see “Internals” in Mail::Box

`$obj->create($folder, %options)`
 Mail::Box::Net->**create**(\$folder, %options)
 Create a new folder on the remote server.

-Option	--Defined in	--Default
folderdir	Mail::Box	undef

folderdir => DIRECTORY

`$obj->determineBodyType($message, $head)`
 Inherited, see “Internals” in Mail::Box

Mail::Box::Net->**foundIn**([\$foldername], %options)
 Inherited, see “Internals” in Mail::Box

`$obj->lineSeparator([<STRING|'CR'|'LF'|'CRLF'>])`
 Inherited, see “Internals” in Mail::Box

`$obj->locker()`
 Inherited, see “Internals” in Mail::Box

`$obj->read(%options)`
 Inherited, see “Internals” in Mail::Box

`$obj->readMessages(%options)`
 Inherited, see “Internals” in Mail::Box

`$obj->storeMessage($message)`
 Inherited, see “Internals” in Mail::Box

`$obj->toBeThreaded($messages)`
 Inherited, see “Internals” in Mail::Box

`$obj->toBeUnthreaded($messages)`
 Inherited, see “Internals” in Mail::Box

`$obj->updateMessages(%options)`
 Inherited, see “Internals” in Mail::Box

`$obj->write(%options)`
 Inherited, see “Internals” in Mail::Box

`$obj->writeMessages(%options)`
 Inherited, see “Internals” in Mail::Box

Other methods

Extends “Other methods” in Mail::Box.

`$obj->timespan2seconds($time)`
 Mail::Box::Net->**timespan2seconds**(\$time)
 Inherited, see “Other methods” in Mail::Box

Error handling

Extends “Error handling” in Mail::Box.

`$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::Box::Net->**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::Box::Net->**log**([\$level, [\$strings]])
 Inherited, see “Error handling” in Mail::Reporter

`$obj->logPriority($level)`
 Mail::Box::Net->**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::Box.

`$obj->DESTROY()`

Inherited, see “Cleanup” in Mail::Box

DETAILS

Extends “DETAILS” in Mail::Box.

DIAGNOSTICS

Warning: Changes not written to read-only folder `$self`.

You have opened the folder read-only —which is the default set by `new(access)`—, made modifications, and now want to close it. Set `close(force)` if you want to overrule the access mode, or close the folder with `close(write)` set to `NEVER`.

Error: Copying failed for one message.

For some reason, for instance disc full, removed by external process, or read-protection, it is impossible to copy one of the messages. Copying will proceed for the other messages.

Error: Destination folder `$name` is not writable.

The folder where the messages are copied to is not opened with write access (see `new(access)`). This has no relation with write permission to the folder which is controlled by your operating system.

Warning: Different messages with id `$msgid`

The message id is discovered more than once within the same folder, but the content of the message seems to be different. This should not be possible: each message must be unique.

Error: Folder `$name` is opened read-only

You can not write to this folder unless you have opened the folder to write or append with `new(access)`, or the `force` option is set true.

Error: Folder `$name` not deleted: not writable.

The folder must be opened with write access via `new(access)`, otherwise removing it will be refused. So, you may have write-access according to the operating system, but that will not automatically mean that this `delete` method permits you to. The reverse remark is valid as well.

Error: Invalid timespan '`$timespan`' specified.

The string does not follow the strict rules of the time span syntax which is permitted as parameter.

Warning: Message-id '`$msgid`' does not contain a domain.

According to the RFCs, message-ids need to contain a unique random part, then an @, and then a domain name. This is made to avoid the creation of two messages with the same id. The warning emerges when the @ is missing from the string.

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.

Error: Unable to create subfolder `$name` of `$folder`.

The copy includes the subfolders, but for some reason it was not possible to copy one of these. Copying will proceed for all other sub-folders.

Error: Writing folder \$name failed

For some reason (you probably got more error messages about this problem) it is impossible to write the folder, although you should because there were changes made.

SEE ALSO

This module is part of Mail-Box distribution version 3.009, built on August 18, 2020. Website: <http://perl.overmeer.net/CPAN/>

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