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title: 'Sympa::Internals(3)'

## release: '6.2.72'

# NAME

Sympa::Internals - Sympa internals

# DESCRIPTION

Below is the list of Sympa internal modules. To know details of each module, run:

```
man Sympa::ModuleName
```

## Modules

- [Sympa](#) Future base class of Sympa functional objects
- [Sympa::Aliases](#) Base class for alias management
- [Sympa::Aliases::CheckSMTP](#) Alias management: Check addresses using SMTP
- [Sympa::Aliases::External](#) Alias management: Updating aliases by external program
- [Sympa::Aliases::Template](#) Alias management: Aliases file based on template
- [Sympa::Archive](#) Archives of Sympa
- [Sympa::CLI](#) Base class of Sympa CLI modules
- [Sympa::CommandDef](#) Definition of mail commands
- [Sympa::ConfDef](#) Definition of site and robot configuration parameters
- [Sympa::Config](#) List configuration
- [Sympa::Config::Schema](#) Definition of configuration parameters
- [Sympa::Config\\_XML](#) TBD
- [Sympa::Constants](#) Definition of constants
- [Sympa::Crash](#) Show traceback on critical error
- [Sympa::Database](#) Handling databases
- [Sympa::DatabaseDescription](#) Definition of core database structure
- [Sympa::DatabaseDriver](#) Base class of database drivers for Sympa
- [Sympa::DatabaseDriver::CSV](#) Database driver for CSV
- [Sympa::DatabaseDriver::LDAP](#) Database driver for LDAP search operation
- [Sympa::DatabaseDriver::MySQL](#) Database driver for MySQL / MariaDB
- [Sympa::DatabaseDriver::ODBC](#) Database driver for ODBC
- [Sympa::DatabaseDriver::Oracle](#) Database driver for Oracle Database
- [Sympa::DatabaseDriver::Oracle::St](#) Correcting behavior of DBD::Oracle
- [Sympa::DatabaseDriver::PostgreSQL](#) Database driver for PostgreSQL
- [Sympa::DatabaseDriver::SQLite](#) Database driver for SQLite
- [Sympa::DatabaseManager](#) Managing schema of Sympa core database
- [Sympa::DataSource](#) Base class of Sympa data source subclasses
- [Sympa::DataSource::File](#) Data source based on local file
- [Sympa::DataSource::LDAP](#) Data source based on LDAP search operation
- [Sympa::DataSource::LDAP2](#) Data source based on LDAP with two-level search operations

- [Sympa::DataSource::List](#) Data source based on a list at local machine
- [Sympa::DataSource::RemoteDump](#) Data source based on a user dump at remote host
- [Sympa::DataSource::RemoteFile](#) Data source based on a file at remote host
- [Sympa::DataSource::SQL](#) Data source based on SQL query
- [Sympa::Family](#) List families
- [Sympa::HTML::FormatText](#) TBD
- [Sympa::HTMLDecorator](#) Decorating HTML texts
- [Sympa::HTMLSanitizer](#) Sanitize HTML contents
- [Sympa::Language](#) Handling languages and locales
- [Sympa::List](#) Mailing list
- [Sympa::List::Config](#) List configuration
- [Sympa::List::Users](#) List users
- [Sympa::ListDef](#) Definition of list configuration parameters
- [Sympa::ListOpt](#) Definition of list configuration parameter values
- [Sympa::LockedFile](#) Filehandle with locking
- [Sympa::Log](#) Logging facility of Sympa
- [Sympa::Mailer](#) Store messages to sendmail
- [Sympa::Message](#) Mail message embedding for internal use in Sympa
- [Sympa::Message::Plugin](#) process hooks
- [Sympa::Message::Plugin::FixEncoding](#) Example module for message hook to correct charset and encoding of messages
- [Sympa::Message::Template](#) Mail message generated from template
- [Sympa::Process](#) Process of Sympa
- [Sympa::Regexp](#)s Definition of regular expressions
- [Sympa::Request](#) Requests for operation
- [Sympa::Request::Collection](#) Collection of requests
- [Sympa::Request::Handler](#) Base class of request handler classes
- [Sympa::Request::Message](#) Command message as spool of requests
- [Sympa::Robot](#) TBD
- [Sympa::Scenario](#) Authorization scenarios
- [Sympa::Spindle](#) Base class of subclasses to define Sympa workflows
- [Sympa::Spindle::AuthorizeMessage](#) Workflow to authorize messages bound for lists
- [Sympa::Spindle::AuthorizeRequest](#) Workflow to authorize requests in command messages
- [Sympa::Spindle::DispatchRequest](#) Workflow to dispatch requests
- [Sympa::Spindle::DistributeMessage](#) Workflow to distribute messages to list members
- [Sympa::Spindle::DoCommand](#) Workflow to handle command messages
- [Sympa::Spindle::DoForward](#) Workflow to forward messages to administrators
- [Sympa::Spindle::DoMessage](#) Workflow to handle messages bound for lists
- [Sympa::Spindle::ProcessArchive](#) Workflow of archive storage
- [Sympa::Spindle::ProcessAuth](#) Workflow of request confirmation
- [Sympa::Spindle::ProcessAutomatic](#) Workflow of automatic list creation
- [Sympa::Spindle::ProcessBounce](#) Workflow of bounce processing
- [Sympa::Spindle::ProcessDigest](#) Workflow of digest sending
- [Sympa::Spindle::ProcessHeld](#) Workflow of message confirmation
- [Sympa::Spindle::ProcessIncoming](#) Workflow of processing incoming messages
- [Sympa::Spindle::ProcessMessage](#) Workflow of command processing
- [Sympa::Spindle::ProcessModeration](#) Workflow of message moderation
- [Sympa::Spindle::ProcessOutgoing](#) Workflow of message distribution
- [Sympa::Spindle::ProcessRequest](#) Workflow of request processing
- [Sympa::Spindle::ProcessTask](#) Workflow of task processing
- [Sympa::Spindle::ProcessTemplate](#) Workflow of template sending

- [Sympa::Spindle::ResendArchive](#) Workflow of resending messages in archive
- [Sympa::Spindle::ToArchive](#) Process to store messages into archiving spool
- [Sympa::Spindle::ToAuth](#) Process to store requests into request spool to wait for moderation
- [Sympa::Spindle::ToAuthOwner](#) Process to store requests into request spool to wait for moderation
- [Sympa::Spindle::ToDigest](#) Process to store messages into digest spool
- [Sympa::Spindle::ToEditor](#) Process to forward messages to list editors
- [Sympa::Spindle::ToHeld](#) Process to store messages into held spool to wait for confirmation
- [Sympa::Spindle::ToList](#) Process to distribute messages to list members
- [Sympa::Spindle::ToListmaster](#) Process to store messages into spool on memory for listmaster notification
- [Sympa::Spindle::ToMailer](#) Process to store messages into sendmail component
- [Sympa::Spindle::ToModeration](#) Process to store messages into held spool to wait for moderation
- [Sympa::Spindle::ToOutgoing](#) Process to store messages into outgoing spool
- [Sympa::Spindle::TransformDigestFinal](#) Process to transform digest messages - final stage
- [Sympa::Spindle::TransformIncoming](#) Process to transform messages - first stage
- [Sympa::Spindle::TransformOutgoing](#) Process to transform messages - second stage
- [Sympa::Spool](#) Base class of spool classes
- [Sympa::Spool::Archive](#) Spool for messages waiting for archiving
- [Sympa::Spool::Auth](#) Spool for held requests waiting for moderation
- [Sympa::Spool::Automatic](#) Spool for incoming messages in automatic spool
- [Sympa::Spool::Bounce](#) Spool for incoming bounce messages
- [Sympa::Spool::Digest](#) Spool for messages waiting for digest sending
- [Sympa::Spool::Digest::Collection](#) Collection of digest spools
- [Sympa::Spool::Held](#) Spool for held messages waiting for confirmation
- [Sympa::Spool::Incoming](#) Spool for incoming messages
- [Sympa::Spool::Listmaster](#) Spool on memory for listmaster notification
- [Sympa::Spool::Moderation](#) Spool for held messages waiting for moderation
- [Sympa::Spool::Outgoing](#) Spool for outgoing messages
- [Sympa::Spool::Task](#) Spool for tasks
- [Sympa::Spool::Topic](#) Message topic
- [Sympa::Task](#) Tasks of Sympa
- [Sympa::Template](#) Template parser
- [Sympa::Ticket](#) One-time ticket for authorization
- [Sympa::Tools::Data](#) Functions related to data structures
- [Sympa::Tools::DKIM](#) TBD
- [Sympa::Tools::Domains](#) Domains-related functions
- [Sympa::Tools::File](#) File-related functions
- [Sympa::Tools::Password](#) TBD
- [Sympa::Tools::SMIME](#) Tools for S/MIME messages and X.509 certificates
- [Sympa::Tools::Text](#) Text-related functions
- [Sympa::Tools::Time](#) Time-related functions
- [Sympa::Tracking](#) Spool for message tracking
- [Sympa::Upgrade](#) TBD
- [Sympa::User](#) All Users Identified by Sympa
- [Sympa::WWW::Auth](#) TBD
- [Sympa::WWW::FastCGI](#) CGI Interface for FastCGI of Sympa
- [Sympa::WWW::Marc](#) TBD
- [Sympa::WWW::Marc::Search](#) Search archives of Sympa
- [Sympa::WWW::Session](#) Web session
- [Sympa::WWW::SharedDocument](#) Shared document repository and its nodes

- [Sympa::WWW::SOAP](#) TBD
- [Sympa::WWW::SOAP::Transport](#) TBD
- [Sympa::WWW::Tools](#) TBD

## Workflow

See [Sympa::Internals::Workflow](#).

## SEE ALSO

[sympa\\_toc\(1\)](#).

*Sympa Administration Manual.* <https://www.sympa.community/manual/>.

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