

Please take note that this work is still ongoing. The documentation should grow in a near future. 😊

Internals

In this chapter, we will provide extensive information on what Sympa looks like “under the hood”. We hope this documentation will be particularly helpful to developers.

Focus on the main Sympa modules

This chapter describes these modules (or a part of them):

- [src/mail.pm](#): low level of email sending;
- [src/List.pm](#): list processing and informations about structure and access to list configuration parameters;
- [src/sympa.pl](#): the main script, for messages and mail commands processing;
- [src/Commands.pm](#): mail commands processing;
- [wwsympa/wwsympa.fcgi](#): web interface;
- [src/report.pm](#): notification and error reports about requested services (email and web);
- [src/tools.pm](#): various tools;
- [src/Message.pm](#): message object used to encapsule a message received.
- [wwsympa/SympaSession.pm](#): session object use to manage user context with a single cookie and a session table

Sympa modules sorted by directory

This section presents all the files used in the Sympa engine. The files described are those contained in the sources, consequently:

1. you will not find the files generated at compilation time,
2. the files are not located in the same directory as you will find them in the compiled application.

Failing a better alternative, we present them as they appear in the `src` directory from the source distribution.

"/" : Sympas sources root directory

These scripts are run at installation time. They perform the operations necessary to the correct install and runtime of Sympa.

- [check_perl_modules.pl](#) : This script checks installed and required Perl modules. It also does the required installations.
- [important_changes.pl](#) : This script prints important changes in Sympa since last install. It is based on the NEWS ***** entries.

- [set_symlinks.pl](#) : This script sets symbolic links at installation time.
- [subst.pl](#) : This script replaces --VAR-- occurrences at installation time.

"/doc/"

-  [parse_tex.pl](#)

"/po/"

-  [check_locales.pl](#)
-  [xgettext.pl](#)

"/soap/"

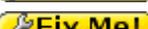
-  [sympa_soap_client.pl](#)
-  [sympasoap.pm](#)
-  [sympa_soap_server.fcgi](#)
-  [SympaTransport.pm](#)

"/src/"

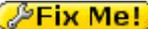
-  [admin.pm](#)
-  [alias_manager.pl](#)
-  [aliaswrapper.c](#)
-  [Archive.pm](#)
-  [bouncequeue.c](#)
-  [CAS.pm](#)
- [Commands.pm](#)
-  [Config_XML.pm](#)
-  [Conf.pm](#)
-  [Datasource.pm](#)
-  [Family.pm](#)
-  [familyqueue.c](#)
-  [Fetch.pm](#)
-  [Language.pm](#)
-  [Ldap.pm](#)
- [List.pm](#)
-  [Lock.pm](#)
-  [Log.pm](#)
- [mail.pm](#)
- [Message.pm](#)
-  [parser.pl](#)
-  [PlainDigest.pm](#)
-  [queue.c](#)
- [report.pm](#)
-  [SQLSource.pm](#)
- [sympa.pl](#)

-  [sympa_wizard.pl](#)
-  [task_manager.pl](#)
-  [Task.pm](#)
-  [time_utils.pl](#)
- [tools.pl](#)
-  [tt2.pl](#)
-  [Upgrade.pm](#)
-  [Version.pm](#)
-  [virtualwrapper.c](#)

"/src/etc/script/"

-  [arc2webarc.pl](#)
-  [arcrepair.pl](#)
-  [crypt_passwd.pl](#)
-  [find_missing_messages.pl](#)
-  [init_comment.pl](#)
-  [ldap_alias_manager.pl](#)
-  [mod2html.pl](#)
-  [mysql_alias_manager.pl](#)
-  [p12topem.pl](#)
-  [testldap.pl](#)
-  [testlogs.pl](#)
-  [tpl2tt2.pl](#)

"/wvsympa/"

-  [archived.pl](#)
-  [Auth.pm](#)
-  [bounced.pl](#)
-  [bounce-lib.pl](#)
-  [cookielib.pm](#)
-  [Marc.pm](#)
-  [SharedDocument.pm](#)
-  [wvlib.pm](#)
- [wvsympa.fcgi](#)
-  [wvsympa_sudo_wrapper.pl](#)

"/wvsympa/Marc/"

-  [Search.pm](#)

Database

Work in progress. All the tables are described already though.

This chapter describes the Sympa database.

Overall organization

The Sympa database contains 5 tables which are :

- [admin_table](#), this table stores a *cache version* of the moderators and owners of lists,
- [user_table](#), this tables registers the users as individual people,
- [subscriber_table](#), this table registers subscribers; it stores couples "(user, list)", thus producing one entry by subscription for each user.
- [logs_table](#): this tables stores the Sympa logs,
- [netidmap_table](#), this table stores informations relative to authentication.

Tables description

We provide here, for each table, a data dictionary and a fields' description.

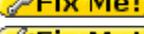
admin_table

This table is just a cache of the informations found in `sympa.conf`, `robot.conf` and lists' config files. It is used to speed up the access to informations regarding administrators. The sources of these informations are the configuration files and *not* this table.

data catalogue

Field	Type	Encoding	Null	Default
 list_admin	varchar(50)	latin1_swedish_ci	No	
 robot_admin	varchar(80)	latin1_swedish_ci	No	
 role_admin	enum('listmaster', 'owner', 'editor')	latin1_swedish_ci	No	
 user_admin	varchar(100)	latin1_swedish_ci	No	
comment_admin	varchar(150)	latin1_swedish_ci	Yes	NULL
date_admin	datetime		No	
include_sources_admin	varchar(50)	latin1_swedish_ci	Yes	NULL
included_admin	int(1)		Yes	NULL
info_admin	varchar(150)	latin1_swedish_ci	Yes	NULL
profile_admin	enum('privileged', 'normal')	latin1_swedish_ci	Yes	NULL
reception_admin	varchar(20)	latin1_swedish_ci	Yes	NULL
subscribed_admin	int(1)		Yes	NULL
update_admin	datetime		Yes	NULL

Fields' description

-  *list_admin*:
-  *robot_admin*:
-  *role_admin*:
-  *user_admin*:
-  *comment_admin*:
-  *date_admin*:

-  *include_sources_admin*:
-  *included_admin*:
-  *info_admin*:
-  *profile_admin*:
-  *reception_admin*:
-  *subscribed_admin*:
-  *update_admin*:

subscriber_table

data catalogue

Field	Type	Encoding	Null	Default
 robot_subscriber	varchar(80)	latin1_swedish_ci	No	
 list_subscriber	varchar(50)	latin1_swedish_ci	No	
 user_subscriber	varchar(100)	latin1_swedish_ci	No	
bounce_address_subscriber	varchar(100)	latin1_swedish_ci	Yes	NULL
bounce_score_subscriber	smallint(6)		Yes	NULL
bounce_subscriber	varchar(35)	latin1_swedish_ci	Yes	NULL
comment_subscriber	varchar(150)	latin1_swedish_ci	Yes	NULL
custom_attribute_subscriber	varchar(500)	latin1_swedish_ci	Yes	NULL
date_subscriber	datetime		No	
include_sources_subscriber	varchar(50)	latin1_swedish_ci	Yes	NULL
included_subscriber	int(1)		Yes	NULL
reception_subscriber	varchar(20)	latin1_swedish_ci	Yes	NULL
subscribed_subscriber	int(1)		Yes	NULL
topics_subscriber	varchar(200)	latin1_swedish_ci	Yes	NULL
update_subscriber	datetime		Yes	NULL
visibility_subscriber	varchar(20)	latin1_swedish_ci	Yes	NULL

Fields' description

- *robot_subscriber*: the virtual host this subscription's list is hosted by.
- *list_subscriber*: the list to which the subscription is done,
- *user_subscriber*: the e-mail address of subscription
-  *bounce_address_subscriber*:
-  *bounce_score_subscriber*:
-  *bounce_subscriber*:
- *comment_subscriber*: Comments about the subscription
- *custom_attribute_subscriber*: the XML fragment containing the user custom attributes for this subscriber
- *date_subscriber*: date the subscription was created
-  *include_sources_subscriber*:
- *included_subscriber*: 1 if user is included
- *reception_subscriber*: the reception mode this user chose for this list
- *subscribed_subscriber*: 1 if user is subscribed
- *topics_subscriber*: the list of topics this subscriber is subscribed to

-  *update_subscriber*:
- *visibility_subscriber*: the visibility preference of this subscriber.

user_table

data catalogue

Field	Type	Encoding	Null	Default
 email_user	varchar(100)	latin1_swedish_ci	No	
attributes_user	text	latin1_swedish_ci	Yes	NULL
cookie_delay_user	int(11)		Yes	NULL
gecos_user	varchar(150)	latin1_swedish_ci	Yes	NULL
lang_user	varchar(10)	latin1_swedish_ci	Yes	NULL
password_user	varchar(40)	latin1_swedish_ci	Yes	NULL

Fields' description

- *email_user*: User's e-mail address
-  *attributes_user*:
-  *cookie_delay_user*:
-  *gecos_user*:
- *lang_user*: User's favourite language
-  *password_user*: User's password.

logs_table

data catalogue

Field	Type	Encoding	Null	Default
 id_logs	bigint(20)		No	
action_logs	varchar(50)	latin1_swedish_ci	No	
client_logs	varchar(100)	latin1_swedish_ci	Yes	NULL
daemon_logs	varchar(10)	latin1_swedish_ci	No	
date_logs	int(11)		No	
error_type_logs	varchar(150)	latin1_swedish_ci	Yes	NULL
list_logs	varchar(50)	latin1_swedish_ci	Yes	NULL
msg_id_logs	varchar(255)	latin1_swedish_ci	Yes	NULL
parameters_logs	varchar(100)	latin1_swedish_ci	Yes	NULL
robot_logs	varchar(80)	latin1_swedish_ci	Yes	NULL
status_logs	varchar(10)	latin1_swedish_ci	No	
target_email_logs	varchar(100)	latin1_swedish_ci	Yes	NULL
user_email_logs	varchar(100)	latin1_swedish_ci	Yes	NULL

Fields' description

- *id_logs*: unique log's identifier.

- *action_logs*: name of the Sympa subroutine which initiated the log
- *client_logs*: IP address of the client machine from which the message was sent.
- *daemon_logs*: name of the Sympa daemon which ran the action
- *date_logs*: date when the action was executed
- *error_type_logs*: name of the error string - if any - issued by the subroutine
- *list_logs*: name of the mailing-list in which context the action was executed
- *msg_id_logs*: identifier of the message which triggered the action.
- *parameters_logs*: List of commas-separated parameters. The amount and type of parameters can differ from an action to another.
- *robot_logs*: name of the robot in which context the action was executed
- *status_logs*: exit status of the action. If it was an error, it is likely that the *error_type_logs* field will contain a description of this error.
- *target_email_logs*: e-mail address (if any) targeted by the message
- *user_email_logs*: e-mail address of the message sender

netidmap_table

data catalogue

Field	Type	Encoding	Null	Default
 netid_netidmap	varchar(100)	latin1_swedish_ci	No	
 robot_netidmap	varchar(80)	latin1_swedish_ci	No	
 serviceid_netidmap	varchar(100)	latin1_swedish_ci	No	
email_netidmap	varchar(100)	latin1_swedish_ci	Yes	NULL

Fields' description

-  *netid_netidmap*:
-  *robot_netidmap*:
-  *serviceid_netidmap*:
-  *email_netidmap*:

session_table

data catalogue

Field	Type	Null	Default
 id_session	varchar(30)	No	
start_date_session	int(11)	No	
date_session	int(11)	No	
data_session	text	Yes	
email_session	varchar(100)	Yes	NULL
hit_session	int(11)	Yes	NULL
remote_addr_session	varchar(60)	Yes	NULL
robot_session	varchar(80)	Yes	NULL

Fields' description

- *id_session*: the identifier of the database record;
- *start_date_session*: the date when the session was created;
-  *date_session*: ;
- *data_session*: parameters attached to this session that don't have a dedicated column in the database;
- *email_session*: the email associated to this session;
- *hit_session*: the number of hit performed during this session. Used to detect crawlers;
- *remote_addr_session*: The IP address of the computer from which the session was created;
- *robot_session*: The virtual host in which the session was created.

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