

Symfony Mailer in Core

The Road Ahead

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Wochenzeitung WOZ

Drupal Camp Ghent 2024

Symfony Mailer in
Core

Lorenz Schori
(znerol)

Who we are

Objectives

Mail Plugin in
Drupal 10.2

Upcomming Mailer
Module

Q&A and
Discussion

Outline

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Upcomming Mailer Module

Q&A and Discussion

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Wochenzeitung WOZ

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- ▶ Swiss weekly newspaper, established in 1981
- ▶ Cooperative society owned by its staff
- ▶ www.woz.ch | @woz@troet.cafe

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Core Conversation at Drupal Developer Days in Vienna, July 2024

- ▶ **Talk:** <https://ddd23.drupalcamp.at/revamp-transactional-email-drupal-core>
- ▶ **Recording:** <https://www.youtube.com/watch?v=nJuBsInz28c>
- ▶ **Slides:** <https://znerol.ch/files/2023-07-revamp-drupal-email.en.pdf>

Objectives for today

- ▶ Experimental Mail Plugin in Drupal 10.2
- ▶ Upcomming Experimental Mailer Module

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Symfony Mailer Component

- ▶ Successor of swiftmailer
`https://symfony.com/doc/current/mailer`
- ▶ Maintained in symfony source tree.
- ▶ Used by Drupal contrib modules `symfony_mailer`,
`symfony_mailer_lite`, `mailgroup_imap` **and** `postoffice`

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Symfony Mailer Dependency in Drupal 10.2

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```
diff --git a/core/composer.json b/core/composer.json
index 47cf2763b3..99b4b860c6 100644
--- a/core/composer.json
+++ b/core/composer.json
@@ -23,6 +23,7 @@
     "symfony/event-dispatcher": "^6.3",
     "symfony/http-foundation": "^6.3",
     "symfony/http-kernel": "^6.3",
+    "symfony/mailer": "^6.3",
     "symfony/mime": "^6.3",
     "symfony/routing": "^6.3",
     "symfony/serializer": "^6.3",
```

Experimental Mail Plugin in Drupal 10.2

- ▶ Drop-in replacement for PHPMail plugin

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Experimental Mail Plugin in Drupal 10.2 (configuration)

```
$config['system.mail']['interface'] = [
  'default' => 'symfony_mailer'
];
$config['system.mail']['mailer_dsn'] = [
  'scheme' => 'smtp',
  'host' => 'smtp.example.com',
  'port' => 25,
  'user' => 'user',
  'password' => 'pass',
  'options' => [],
];
```

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Experimental Mail Plugin in Drupal 10.2 (limitations)

- ▶ Doesn't support HTML mails
- ▶ Doesn't fire the mailer events
- ▶ Doesn't support custom transports

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New mailer module in core

Issue to introduce a new `mailer` module.

- ▶ Add symfony mailer transports to Dependency Injection Container
<https://drupal.org/i/3379794>

Scope of #3379794

- ▶ Mailer as service in DI container
- ▶ Still no (built-in) support for HTML mails
- ▶ Fires mailer events
- ▶ Supports third-party and custom transports
- ▶ Integrates with Symfony Messenger

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SM and #3379794

- ▶ **Symfony Messenger docs:**
`https://symfony.com/doc/current/messenger`
- ▶ **Blog serie by previousnext:** `https://www.previousnext.com.au/blog/symfony-messenger/post-1-introducing-symfony-messenger`

How to #3379794

^ Example modules

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Mailer Event Subscriber Example | ✓ Demonstrates how to use event subscribers to act on emails |
| <input type="checkbox"/> | Mailer Form Example | ✓ An example form to send mails via the mailer module |
| <input type="checkbox"/> | Mailer Transport Decorator Example | ✓ Demonstrates how to decorate the core transport in order to dispatch mails dynamically to alternative transports |
| <input type="checkbox"/> | Mailer Transport Factory Example | ✓ Demonstrates how to register third-party and custom transports |
| <input type="checkbox"/> | Mailer Transport Info Example | ✓ Demonstrates how to extract info about registered transport factories |

► Sandbox with examples:

<https://www.drupal.org/sandbox/znerol/3397645>

Building mails

```
use Symfony\Component\Mime\Email;  
  
$email = new Email();  
$email->subject('Test message')  
->from('test@localhost.localdomain')  
->text('Hello test runner!');
```

Send mails

```
use Symfony\Component\Mailer\MailerInterface;  
  
$mailer = $container->get(MailerInterface::class)  
$mailer->send($email->to('admin@localhost.localdomain'));
```


Subscribe to MessageEvent

```
public function onMessage(MessageEvent $event) {  
    $message = $event->getMessage();  
    if ($message instanceof Email) {  
        $message->addCc(  
            'additional-cc@example.com',  
            'Another Copy <another-cc@example.com>' );  
        $this->logger->info('Added additional cc to message');  
    }  
}
```

Subscribe to SendMessageEvent

```
public function onSendMessage(SentMessageEvent $event) {  
    $message = $event->getMessage();  
    $this->logger->info('Successfully sent message (@id)', [  
        '@id' => $message->getMessageId(),  
    ]);  
}
```

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Subscribe to FailedMessageEvent

```
public function onFailedMessage(FailedMessageEvent $event)  
    $this->logger->error($event->getError());  
}
```

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Register third-party transports

```
composer require symfony/google-mailer
```

services:

```
  mailer.transport_factory.gmail:
```

```
    parent: mailer.transport_factory.abstract
```

```
    class:
```

```
      Symfony\Component\Mailer\Bridge\Google\Transport\GmailTransportFactory
```

```
    tags:
```

```
      - { name: mailer.transport_factory }
```

Custom transports and much more

- ▶ Runtime selection among multiple transports
- ▶ High availability (fallback) and load balancing (roundrobin)

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After #3379794

- ▶ Capture mails in tests: <https://drupal.org/i/3397420>
- ▶ Integrate with theming layer (twig templates, HTML mail)
- ▶ Transport configuration in the admin interface (and hopefully later in the installer)

Questions/Discussion

Wrap-up

- ▶ **Help landing the mailer module patch:**
<https://www.drupal.org/i/3379794>
- ▶ **Subscribe to the meta issue:**
<https://www.drupal.org/i/1803948>
- ▶ **Send a mail (use contact form):** <https://drupal.org/u/znerol>