

Revamp Transactional Email in Drupal Core

Lorenz Schori (drupal.org/u/znerol)

Drupal Devdays 2026

Self

Objectives

Mail Plugin in
Drupal 10.2

Experimental
Mailer Module in
Drupal 11.4/12
(maybe)

Q&A and
Discussion

Slide deck



<https://znerol.ch/files/2026-04-revamp-transactional-email.en.pdf>

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(znerol)

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(maybe)

Q&A and
Discussion

Outline

Self

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Experimental Mailer Module in Drupal 11.4/12 (maybe)

Q&A and Discussion

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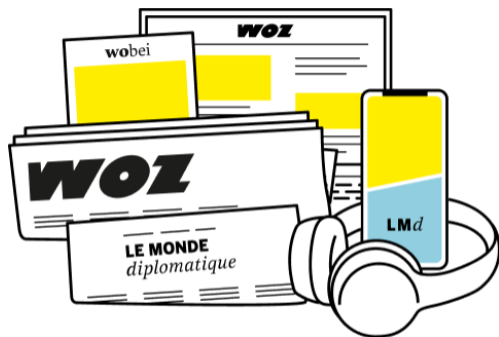
Mail Plugin in
Drupal 10.2

Experimental
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(maybe)

Q&A and
Discussion

Lorenz

Wochenzeitung WOZ



- ▶ 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 2023

- ▶ **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>

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Q&A and
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Drupal Camp Ghent 2024

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Presentation at DrupalCamp in Ghent, May 2024

▶ **Talk:**

`https://www.drupalcamp.be/en/drupalcamp-ghent-2024/session/symfony-mailer-core-road-ahead`

▶ **Recording:** `https://www.youtube.com/watch?v=n49KLmKtpxw`

▶ **Slides:**

`https://znerol.ch/files/2024-05-symfony-mailer-core/2024-05-symfony-mailer-core.en.pdf`

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Q&A and
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Objectives for today

- ▶ Experimental Mail Plugin in Drupal 10.2
- ▶ Experimental Mailer Module in Drupal 11.4/12 (maybe)

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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

```
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",
```

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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' => [],
];
```

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 which introduced the new `mailer` module.

- ▶ Add symfony mailer transports to Dependency Injection Container

<https://drupal.org/i/3379794>

- ▶ Change record: Experimental Symfony Mailer Module

<https://drupal.org/node/3519253>

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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Q&A and
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Experimental module process

Versions

Experimental modules and themes have separate stability from the Drupal core release that contains them. The current experimental modules and themes in core are:

Project	Stability
Field Layout	alpha
Mailer (Drupal 11.3)	alpha
Navigation	beta
Navigation Top Bar	alpha
Package manager	alpha

Experimental modules that do not meet their followup requirements may be removed from core at committer discretion. See the [release cycle overview](#) for current release cycle dates.

► Experimental module process

<https://drupal.org/node/2657056>

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Community effort

- ▶ [meeting] 2025-07-01 core mailer beta planning
<https://www.drupal.org/i/3534261>
- ▶ [meeting] 2025-07-29 core mailer beta planning
<https://www.drupal.org/i/3539315>
- ▶ ...
- ▶ [meeting] 2026-04-15 core mailer dev meeting
<https://www.drupal.org/i/3585552>
- ▶ Next one: May 6th 2026 at 4PM UTC+2 (CEST).

How do we operate?

- ▶ **Use meta issue as the backlog**
<https://www.drupal.org/i/1803948>
- ▶ **Use beta roadmap for planned / done issues**
<https://www.drupal.org/i/3523592>
- ▶ **Use requirements issue for discussions**
<https://www.drupal.org/i/3534136>

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Q&A and
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Where do we stand?

- ▶ No actionable plan yet
- ▶ Conversation continues
- ▶ Various vertical prototypes

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Q&A and
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What are the challenges?

- ▶ Scope
- ▶ Planning vs. Prototyping
- ▶ Decisions

What is helping?

- ▶ User Stories
- ▶ High Quality Feedback

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Q&A and
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Things we tried - SDC

- ▶ Define each email as an SDC
(No issue link)

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Q&A and
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Things we tried - entity handler

- ▶ Email as entity handler (maybe later)

<https://www.drupal.org/i/3529014>

Things we tried - config entity

- ▶ Email as config entity and plugin (problems with recipes)

<https://www.drupal.org/i/3536575>

Things we tried - yaml plugin + controller

- ▶ Email as YAML plugin and controller (questionable DX)

<https://www.drupal.org/i/3539651>

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Q&A and
Discussion

What could be next - hybrid plugin

- ▶ Email as hybrid plugin (YAML or Attribute)
<https://www.drupal.org/i/3539651>

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What could be next - Sending simple email (YAML)

```
MYMODULE.simple_email:  
  label: 'Twig template based email'  
  description: 'Email with twig template'  
  html_body_template: 'MYMODULE_simple_email_html_body'  
  default_subject: 'Default subject from template email'
```

```
$email_manager = \Drupal::service('plugin.manager.email');  
$email = $email_manager->createInstance('MYMODULE.simple_email');  
$email->setParams([  
  'name' => 'John Doe',  
  'order_total' => '$123.45',  
]);  
$email_manager->send($email);
```

What could be next - Attribute declaration for complex email

```
#[Email(  
  id: 'MYMODULE.complex_email',  
  label: new TranslatableMarkup('Complex'),  
  description: new TranslatableMarkup('Complex email'),  
)]
```

```
class ComplexEmail extends EmailPluginDefault implements EmailPluginInterface {  
  
  public function htmlBody(): RenderableInterface|array|null {  
    $result [];  
    [...]  
    return $result;  
  }  
}
```

What else - Core refactorings

- ▶ Extract `_user_mail_notify()` into a user NotificationHandler
<https://www.drupal.org/i/3539178>
- ▶ Refactor `update.fetch.inc` into a MailHandler
<https://www.drupal.org/i/3125013>

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Q&A and
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How to migrate from XYZ

- ▶ Honestly: No idea yet.
- ▶ Let's concentrate on the new API first.

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Q&A and
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Thanks

Thank you Adam, Christophe, Klara, Sascha, Stijn, Wayne

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Questions/Discussion

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Q&A and
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Wrap-up

- ▶ **Subscribe to the meta issue:**
<https://www.drupal.org/i/1803948>
- ▶ **Join Drupal #symfony-mailer Slack Channel:**
<https://drupal.slack.com/archives/C06MG01QS3X>
- ▶ **Attend the next Next core mailer planning meeting (Link in Slack):**
May 6th 2026 at 4PM UTC+2 (CEST).

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`

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- ▶ **DrupalCon Barcelona talk by @lussoluca:**

`https://www.slideshare.net/slideshow/leveraging-the-command-pattern-enhancing-drupal-with-symfony-me`

`272017631`

How to #3379794

^ Example modules

- Mailer Event Subscriber Example** √ Demonstrates how to use event subscribers to act on emails
- Mailer Form Example** √ An example form to send mails via the mailer module
- Mailer Transport Decorator Example** √ Demonstrates how to decorate the core transport in order to dispatch mails dynamically to alternative transports
- Mailer Transport Factory Example** √ Demonstrates how to register third-party and custom transports
- 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(),  
    ]);  
}
```

Subscribe to FailedMessageEvent

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

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)

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)