

# Registering the FieldType as a service

To complete the implementation, we must register our FieldType with Symfony, by creating a service for it.

Services are by default declared by bundles in `Resources/config/services.yml`.

## Using a dedicated file for the FieldType services

In order to be closer with the kernel best practices, we could declare our FieldType services in a custom `fieldtypes.yml` file.

All we have to do is instruct the bundle to actually load this file in addition to `services.yml` (or instead of `services.yml`!). This is done in the extension definition file, `DependencyInjection/EzSystemsTweetFieldTypeExtension.php`, in the `load()` method.

Inside this file, file, find this line:

```
$loader->load('services.yml');
```

This is where our bundle tells Symfony that when parameters are loaded, `services.yml` should be loaded from `Resources/config/` / (defined above). Either replace edit the line, or add a new one with:

```
$loader->load('fieldtypes.yml');
```

Like most API components, FieldTypes use the [Symfony 2 service tag mechanism](#).

The principle is quite simple: a service can be assigned one or several tags, with specific parameters. When the dependency injection container is compiled into a PHP file, tags are read by `CompilerPass` implementations that add extra handling for tagged services. Each service tagged as `ezpublish.fieldType` is added to a [registry](#) using the `alias` argument as its unique identifier (`ezstring`, `ezxmltext`...). Each FieldType must also inherit from the abstract `ezpublish.fieldType` service. This ensures that the initialization steps shared by all fieldtypes are executed.

Here is the service definition for our Tweet type:

### Resources/config/services.yml

```
parameters:
    ezsystems.tweetfieldtypebundle.fieldType.eztweet.class:
        EzSystems\TweetFieldTypeBundle\EZ\Publish\FieldType\Tweet\Type

services:
    ezsystems.tweetfieldtypebundle.fieldType.eztweet:
        parent: ezpublish.fieldType
        class: %ezsystems.tweetfieldtypebundle.fieldType.eztweet.class%
        tags:
            - {name: ezpublish.fieldType, alias: eztweet}
```

We take care of namespacing our fieldtype with our vendor and bundle name to limit the risk of naming conflicts.