

# DateAndTime Field Type

This Field Type represents a full date including time information.

Name	Internal name	Expected input type
DateAndTime	ezdatetime	mixed

## Description

This Field Type makes possible to store and retrieve a full date including time information.

## PHP API Field Type

### Input expectations

If input value is of type `string` or `integer`, it will be passed directly to the [PHP's built-in `\DateTime` class constructor](#), therefore the same input format expectations apply.

It is also possible to directly pass an instance of `\DateTime`.

Type	Example
string	"2012-08-28 12:20 Europe/Berlin"
integer	1346149200
<code>\DateTime</code>	<code>new \DateTime()</code>

## Value object

### Properties

The Value class of this field type contains the following properties:

Property	Type	Description
<code>\$value</code>	<code>\DateTime</code>	The date and time value as an instance of <code>\DateTime</code> .

### Constructor

The constructor for this value object will initialize a new Value object with the value provided. It accepts an instance of PHP's built-in `\DateTime` class.

### String representation

String representation of the date value will generate the date string in the format "D Y-d-m H:i:s" as accepted by [PHP's built-in `date\(\)` function](#).

Example:

```
Wed 2013-22-05 12:19:18
```

## Hash format

Hash value of this Field Type is an array with two keys:

Key	Type	Description	Example
<code>timestamp</code>	integer	Time information as a <code>timestamp</code> .	1400856992
<code>rfc850</code>	string	Time information as a string in RFC 850 date format.  As input, this will have higher precedence over the <code>timestamp</code> value.	"Friday, 23-May-14 14:56:14 GMT+0000"

```
$hash = array(  
    "timestamp" => 1400856992,  
    "rfc850" => "Friday, 23-May-14 14:56:14 GMT+0000"  
);
```

## Validation

This Field Type does not perform any special validation of the input value.

## Settings

The field definition of this Field Type can be configured with several options:

Name	Type	Default value	Description
<code>useSeconds</code>	boolean	false	Used to control displaying of seconds in the output.
<code>defaultType</code>	mixed	<code>Type::DEFAULT_EMPTY</code>	One of the <code>DEFAULT_*</code> constants, used by the administration interface for setting the default field value.  See below for more details.
<code>dateInterval</code>	null \DateInterval	null	This setting complements <code>defaultType</code> setting and can be used only when latter is set to <code>Type::DEFAULT_CURRENT_DATE_ADJUSTED</code> .  In that case the default input value when using administration interface will be adjusted by the given <code>\DateInterval</code> .

Following `defaultType` default value options are available as constants in the `eZ\Publish\Core\FieldType\DateTime\Type` class:

Constant	Description
<code>DEFAULT_EMPTY</code>	Default value will be empty.
<code>DEFAULT_CURRENT_DATE</code>	Default value will use current date.

DEFAULT_CURRENT_DATE_ADJUSTED	Default value will use current date, adjusted by the interval defined in <code>dateInterval</code> setting.
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### DateAndTime FieldType example settings

```
use eZ\Publish\Core\FieldType\DateAndTime\Type;

$settings = array(
    "useSeconds" => false,
    "defaultType" => Type::DEFAULT_EMPTY,
    "dateInterval" => null
);
```

## Template rendering

The template called by the `ez_render_field()` Twig function while rendering a Date field has access to the following parameters:

Parameter	Type	Default	Description
locale	string		Internal parameter set by the system based on current request locale or if not set calculated based on the language of the field.

Example:

```
{{ ez_render_field(content, 'datetime') }}
```