

TYP03 Version 11.5 – What's New

Summary of the new features, changes and improvements

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TYPO3 Version 11.5 - What's New

Chapter Overview

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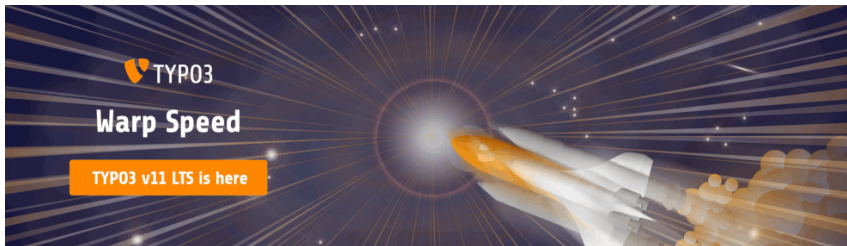
Introduction

The Facts

Introduction

TYPO3 Version 11.5 - The Facts

- Release date: 05 October 2021
- Release type: Long-term Support Release (LTS)



Introduction

Executive Summary

TYPO3 version 11.5 marks the last release of the v11 series and receives long-term support (LTS). This version will be maintained by the community for at least three years.

It combines many enhancements, new features, and modern technologies under the hood that have been introduced in previous sprint releases from version 11.0 to 11.4.

A humble and sincere "thank you!" to everyone who helped make this TYPO3 release possible.

Please note that TYPO3 v11.5 also contains two important [security fixes](#). Users of previous v11-releases are urged to update to the latest v11.5 release as soon as possible.

Introduction

System Requirements

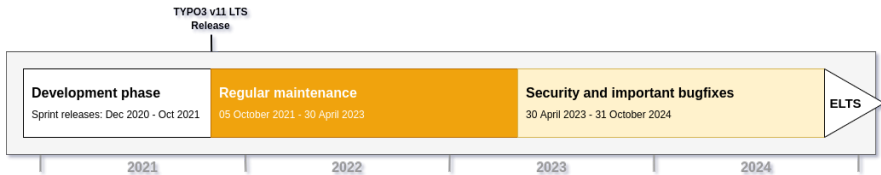
- PHP version 7.4 or 8.0
- PHP settings:
 - `memory_limit` \geq 256M
 - `max_execution_time` \geq 240s
 - `max_input_vars` \geq 1500
 - compilation option `--disable-ipv6` must not be used
- Most database servers supported by **Doctrine DBAL** also work with TYPO3. Tested DB engines are for example:



Introduction

Development, Support, and Maintenance Timeline

TYPO3 v11



Extended long-term support (ELTS)

The [TYPO3 GmbH](#) offers further support options for TYPO3 v11 LTS even after 31 October 2024 for up to two additional years.

Introduction

TYP03 v11 Release Dates

Planned release dates and their primary focus:

- v11.0 22/Dec/2020 New system requirements and breaking changes
- v11.1 23/Feb/2021 Multi-factor authentication
- v11.2 04/May/2021 Link sharing for TYP03 backend
- v11.3 13/Jul/2021 UX improvements and PHP v8 support
- v11.4 07/Sep/2021 Feature freeze
- **v11.5 05/Oct/2021 LTS Release (long-term support)**

<https://typo3.org/cms/roadmap>

<https://typo3.org/article/a-first-glimpse-of-typo3-v11>

Introduction

Composer-based Installation Method

- Installation using [PHP Composer](#) under Linux, macOS, and Windows 10:

```
$ cd /var/www/site/
```

```
$ composer create-project typo3/cms-base-distribution:^11 typo3v11
```

- Alternatively, create your custom `composer.json` file and run:

```
$ composer install
```

- The [Composer Helper](#) online tool makes package selection easy
- Further details are available in the [Installation and Upgrade Guide](#)
- **Using Composer is the recommended installation method!**

Introduction

Classic Installation Method

- Classic installation procedure under Linux/Mac OS X (DocumentRoot for example /var/www/site/htdocs):

```
$ cd /var/www/site
$ wget --content-disposition get.typo3.org/11.5
$ tar xzf typo3_src-11.5.0.tar.gz
$ cd htdocs
$ ln -s ../typo3_src-11.5.0 typo3_src
$ ln -s typo3_src/index.php
$ ln -s typo3_src/typo3
$ touch FIRST_INSTALL
```

- See [Installation and Upgrade Guide](#) for details about Microsoft Windows systems

Chapter 1: Backend User Interface

Backend User Interface

New Record Wizard

Tables displayed in the "New Record" wizard are now logically and visually more separated.

New record

Create a new page

 Page (inside)

 Page (after)

 Page (select position)

Create a new content element

 Page Content

 [Click here for wizard!](#)

System Records

 Category

 File collection

 Backend Layout

 Template

 Internal note

Chapter 2: Changes for Integrators and Developers

Changes for Integrators and Developers

TCA Option `groupName`

- The TYPO3 Core now makes use of the TCA option "groupName"
- This option allows to group records in the "new record wizard"
- The following keywords are used by the Core:
system, frontendaccess, backendaccess, and content
- Extensions that ship their own groups and keywords continue to work

Changes for Integrators and Developers

TCA Option `internal_type`

- When the TCA type "group" is used, the option "internal_type" defines which type of record can be referenced (valid values are "folder" and "db")
- Since "db" is commonly used, TYPO3 now uses this value as the default
- This also means that extension developers can omit the option "internal_type" in most cases

Changes for Integrators and Developers

New PSR-14 Event

- The following new PSR-14 event has been introduced:
`ModifyResolvedFrontendGroupsEvent`
- This event allows developers to attach frontend user groups dynamically during a frontend request

Changes for Integrators and Developers

Bootstrap 5 Compatible Templates

- Bootstrap version 5 compatible templates have been added to the Form Framework
- These template variants are stored in `EXT:form/Resources/Private/Frontend/Version2/`
- In many cases, only the appropriate CSS classes need to be defined to customize the look and feel of the templates
- However, TYPO3 continues to render the old variants by default to prevent an existing setup to break
- The new templates need to be explicitly enabled
- See [changelog](#) for further details

Chapter 3: Extbase and Fluid

Extbase and Fluid

Fluid ViewHelpers (1)

- All Fluid ViewHelper classes will be declared `final` in TYPO3 v12
- Third-party extensions can no longer extend them with own variants
- Extension developers are advised to use the abstract classes provided by Fluid (if they are not marked `internal`)
- Developers are encouraged to make appropriate adjustments to their custom ViewHelpers in TYPO3 v11 already

Extbase and Fluid

Fluid ViewHelpers (2)

- A new ViewHelper has been introduced:
`<f:transform.html>`
- The ViewHelper resolves and transforms individual TYPO3 link handlers such as `t3://-URIs`
- It is independent from any TypoScript configuration and works without mixing concerns in `ContentObjectRenderer::parseFunc`

```
<f:transform.html selector="a.href,div.data-uri">
  <a href="t3://page?uid=1" class="page">visit</a>
  <div data-uri="t3://page?uid=1" class="page trigger">visit</div>
</f:transform.html>
```

Extbase and Fluid

Fluid ViewHelpers (3)

- The following Fluid ViewHelpers have been marked as **deprecated**:
 - `<f:uri.email email="{email}">`

Extbase and Fluid

Deprecated PHP Classes

- The following interface has been marked as **deprecated**:
`TYPO3\CMS\Extbase\Mvc\View\ViewInterface`
- To further decouple Fluid from Extbase the following class has been marked as deprecated:
`TYPO3\CMS\Extbase\Mvc\Controller\ControllerContext`

Chapter 4: Deprecated/Removed Functions

Deprecated/Removed Functions

Custom JSWindow Options

- The HMENU/TMENU options for opening links of a menu in a custom JavaScript popup have been marked as **deprecated**:

```
# deprecated:  
page.123 = HMENU  
page.123.1 = TMENU  
page.123.1.JSWindow = 1  
page.123.1.JSWindow.params = width=200,height=300,status=0,menubar=0
```

- Calling a frontend page with HMENU and JSWindow popups will trigger a PHP deprecation warning

Deprecated/Removed Functions

Including External CSS

- The option to use the `@import` syntax for including external CSS files through TypoScript has been marked as **deprecated**:

```
# deprecated:  
page = PAGE  
page.includeCSSLibs.file1 = fileadmin/benni.css  
page.includeCSSLibs.file1.import = 1
```

- Migration options:
 - use the `<link>`-tag or
 - create an `inlineCSS` TypoScript manually

Deprecated/Removed Functions

Various getInstance() Methods

- The following methods have been marked as **deprecated**:

```
TYPO3\CMS\Core\Resource\Index\ExtractorRegistry::getInstance()  
TYPO3\CMS\Core\Resource\Index\FileIndexRepository::getInstance()  
TYPO3\CMS\Core\Resource\Index\MetaDataRepository::getInstance()  
TYPO3\CMS\Core\Resource\OnlineMedia\Helpers\OnlineMediaHelperRegistry::getInstance()  
TYPO3\CMS\Core\Resource\Rendering\RendererRegistry::getInstance()  
TYPO3\CMS\Core\Resource\TextExtraction\TextExtractorRegistry::getInstance()  
TYPO3\CMS\Form\Service\TranslationService::getInstance()  
TYPO3\CMS\T3editor\Registry\AddonRegistry::getInstance()  
TYPO3\CMS\T3editor\Registry\ModeRegistry::getInstance()
```

Deprecated/Removed Functions

Authentication Objects

- The *first* arguments of the following methods have been marked as **deprecated**:

TYPO3\CMS\Core\Authentication\AbstractUserAuthentication

- `->writeUC()`
- `->unpack_uc()`

TYPO3\CMS\Core\Authentication\BackendUserAuthentication

- `->backendCheckLogin()`

- The *third* argument of the following method has been marked as **deprecated**:

TYPO3\CMS\Core\Authentication\BackendUserAuthentication

- `->isInWebMount()`

Deprecated/Removed Functions

TypoScript `parseFunc.sword`

- The TypoScript option `parseFunc.sword` allows to wrap search words in a special wrap when `no_cache = 1` is set
- This functionality has been deprecated
- Installations are affected that are accessed with, for example, a request such as:

`https://example.com/?no_cache=1&sword_list%5B%5D=search`

Deprecated/Removed Functions

SectionMarkupGenerated Events

- The following methods have been marked as **deprecated**:

TYP03\CMS\Backend\View\Event\BeforeSectionMarkupGeneratedEvent->getPageLayoutView()

TYP03\CMS\Backend\View\Event\BeforeSectionMarkupGeneratedEvent->getLanguageId()

TYP03\CMS\Backend\View\Event\AfterSectionMarkupGeneratedEvent->getPageLayoutView()

TYP03\CMS\Backend\View\Event\AfterSectionMarkupGeneratedEvent->getLanguageIdg()

Deprecated/Removed Functions

PHP Function `str_starts_with()`

- The following methods have been marked as **deprecated**:
 - `StringUtility::beginsWith()`
 - `StringUtility::endsWith()`
 - `GeneralUtility::isFirstPartOfStr()`
 - `GeneralUtility::minifyJavaScript()`
- PHP v8 offers the function `str_starts_with()` that supports proper typing and features better performance

Deprecated/Removed Functions

Inline JavaScript in `fieldChangeFunc`

- The option to use an `iframe` in the navigation area for backend modules through "`fieldChangeFunc`" has been marked as **deprecated**:

```
// deprecated:  
$this->data['parameterArray']['fieldChangeFunc']['example'] = "alert('demo');";  
$parameterArray['fieldChangeFunc']['example'] = "alert('demo');";
```

- The TYPO3 Core natively supports *Web Components* which should be used instead
- See the [changelog](#) for migration options and a [demo extension](#) as an example

Deprecated/Removed Functions

RequireJS Callback Functions

- Using RequireJS callback functions has been marked as **deprecated** (for example: `$resultArray['requireJsModules']` with scalar string)
- These calls should be replaced by new `JavaScriptModuleInstruction` declarations
- See [changelog](#) for further details and migration options

Deprecated/Removed Functions

Miscellaneous (1)

- Calling the DataHandler `process_cmdmap` with an incoming command for `inlineLocalizeSynchronize` and a payload consisting of comma-separated values triggers a deprecation warning
- The following hooks have been marked as **deprecated**:

```
$GLOBALS['TBE_MODULES_EXT']['xMOD_db_new_content_el']['addElClasses']  
$GLOBALS['TYPO3_CONF_VARS']['SC_OPTIONS']['typo3/browse_links.php']['browserRendering']
```

- The following method has been marked as **deprecated**:

```
\TYPO3\CMS\Core\Utility\GeneralUtility->isAbsPath()
```

Deprecated/Removed Functions

Miscellaneous (2)

- The following class has been marked as **deprecated**:

`TYPO3\CMS\Backend\View\BackendTemplateView`

- The following methods have been marked as **deprecated**:

`TYPO3\CMS\Core\Database\RelationHandler->remapMM()`

`TYPO3\CMS\Core\Configuration\FlexForm\FlexFormTools->getArrayValueByPath()`

`TYPO3\CMS\Core\Configuration\FlexForm\FlexFormTools->setArrayValueByPath()`

`TYPO3\CMS\Backend\Template\ModuleTemplate->getIconFactory()`

`TYPO3\CMS\Backend\Template\ModuleTemplate->getPageRenderer()`

`\TYPO3\CMS\Backend\Template\Components\AbstractControl->setOnClick()`

`\TYPO3\CMS\Backend\Template\Components\AbstractControl->getOnClick()`

Deprecated/Removed Functions

Miscellaneous (3)

- The following property has been marked as **deprecated**:

`TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController->ATagParams`

Chapter 5: Sources and Authors

Sources and Authors

Sources

TYPO3 News:

- <https://typo3.org/project/news/>

Release Infos:

- https://get.typo3.org/release-notes/11.x/TYPO3\CMS_11.5.0
- [TYPO3 v11 Changelog](#)
- `typo3/sysex/core/Documentation/Changelog/11.5/*`

TYPO3 Bug-/Issuetracker:

- <https://forge.typo3.org/projects/typo3cms-core>

TYPO3 and Fluid Git Repositories:

- <https://git.typo3.org/Packages/TYPO3.CMS.git>
- <https://github.com/TYPO3/Fluid>

Sources and Authors

TYPO3 CMS What's New Slides and Translations:

Pierrick Caillon, Richard Haeser, Jigal van Hemert,
Henrietta Kucsovan, Corina Miron, Sinisa Mitrovic,
Michael Schams, and Roberto Torresani

<https://typo3.org/help/documentation/whats-new/>

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