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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 >= 256M
  - max_execution_time >= 240s
  - max_input_vars >= 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:
  - MySQL®
  - MariaDB
  - PostgreSQL
  - SQL Server
  - SQLite
### Introduction

#### Development, Support, and Maintenance Timeline

**TYPO3 v11**

**TYPO3 v11 LTS Release**

- **Development phase**
  - Sprint releases: Dec 2020 - Oct 2021

- **Regular maintenance**
  - 05 October 2021 - 30 April 2023

- **Security and important bugfixes**
  - 30 April 2023 - 31 October 2024

- **Extended long-term support (ELTS)**

**TYPO3 GmbH** offers further support options for TYPO3 v11 LTS even after 31 October 2024 for up to two additional years.
Introduction

TYPO3 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 TYPO3 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

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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, TYP03 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/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
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.
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:

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

```typo3
# 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 argument 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()
The TypoScript option `parseFunc.sword` allows to wrap search words in a special wrap when `no_cache = 1` is set.

Requests such as the following now trigger a deprecation warning if a custom sword wrap has been configured:

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

Set `lib.parseFunc.sword` to an empty string to disable the functionality and to suppress the PHP error `E_USER_DEPRECATED`.
 Deprecated/Removed Functions

**SectionMarkupGenerated Events**

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

- `TYPO3\CMS\Backend\View\Event\BeforeSectionMarkupGeneratedEvent->getPageLayoutView()`
- `TYPO3\CMS\Backend\View\Event\BeforeSectionMarkupGeneratedEvent->getLanguageId()`
- `TYPO3\CMS\Backend\View\Event\AfterSectionMarkupGeneratedEvent->getPageLayoutView()`
- `TYPO3\CMS\Backend\View\Event\AfterSectionMarkupGeneratedEvent->getLanguageId()`
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 replace by new JavaScriptModuleInstruction declarations
- See changelog for further details and migration options
Deprecated/Removed Functions

Miscellaneous (1)

- Calling the DataHandler \process\cmd\map 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()
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/](https://typo3.org/project/news/)

**Release Infos:**
- [https://get.typo3.org/release-notes/11.x/TYPO3_CMS_11.5.0](https://get.typo3.org/release-notes/11.x/TYPO3_CMS_11.5.0)
- **TYPO3 v11 Changelog**
- typo3/sysext/core/Documentation/Changelog/11.5/*

**TYPO3 Bug-/Issuetracker:**

**TYPO3 and Fluid Git Repositories:**
- [https://git.typo3.org/Packages/TYPO3.CMS.git](https://git.typo3.org/Packages/TYPO3.CMS.git)
- [https://github.com/TYPO3/Fluid](https://github.com/TYPO3/Fluid)
Sources and Authors

**TYPO3 CMS What’s New Slides and Translations:**

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