TYPO3 Version 11.2 – What’s New
Summary of the new features, changes and improvements

Created by:
Michael Schams

03/May/2021
Creative Commons BY-NC-SA 3.0
TYPO3 Version 11.2 – What’s New

Chapter Overview

Introduction

Backend User Interface

Changes for Integrators and Developers

Deprecated/Removed Functions

Miscellaneous

Sources and Authors
Introduction

TYPO3 Version 11.2 – The Facts

- Release date: 4 May 2021
- Release type: Sprint Release

Escaping the Orbit

TYPO3 v11.2 is here
Introduction

Executive Summary

Performance and efficiency are not only important attributes in space flights. The new sprint release of the TYPO3 v11 series comes with improvements that make working in the backend lightning fast and a pure pleasure.

TYPO3 version 11.2 is the third sprint release on the way to the LTS-version (long-term support) in 2021.
Introduction

System Requirements

- PHP version 7.4+
- 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
  - Microsoft SQL Server
  - SQLite
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

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  (to be determined)
- **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/cms/roadmap)
[https://typo3.org/article/a-first-glimpse-of-typo3-v11](https://typo3.org/article/a-first-glimpse-of-typo3-v11)
Introduction

Installation

- **Official 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/11.2
  $ tar xzf typo3_src-11.2.0.tar.gz
  $ cd htdocs
  $ ln -s ../typo3_src-11.2.0 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.
Installation Using Composer

- 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**
Chapter 1:

Backend User Interface
Backend User Interface

Page and File Tree in the Record Selector

The Record Selector (also known as Element Browser or Link Browser) now also features the SVG-based page tree and file list.
Backend User Interface

Resizable Navigation

Backend users benefit from all features such as filtering, collapsing, resizing, etc. which are available in all modals.
Deep Linking in the Backend (1)

Deep linking is now possible in the TYPO3 backend. This lets users share links with other users and it makes working with the backend much more efficient.
Backend User Interface

Deep Linking in the Backend (2)

Some examples of deep links:

- **(Pre)view page (ID=123):**
  
  https://example.com/typo3/module/web/ViewpageView?id=123

- **Edit the Site Configuration:**
  
  https://example.com/typo3/module/site/configuration?action=edit

- **Edit a content element (ID=42):**
  
  https://example.com/typo3/record/edit?edit[tt_content][42]=edit

- **Open the module "Backend Users":**
  
  https://example.com/typo3/module/system/BeuserTxBeuser
Chapter 2: Changes for Integrators and Developers
Changes for Integrators and Developers

Page and File Tree in the Record Selector

- The same technologies used for the page and file tree are now also implemented in modal windows in the backend:
  - **Record Selector**
    (e.g. selecting a shortcut target or a storage page of a plugin)
  - **File Selector**
    (e.g. selecting a file for an IRRE-based FAL-based file reference)
  - **Link Picker**
    (e.g. selecting a link to a specific page, content element, file, folder, or custom records such as a related news)

- Existing TSconfig options remain functional, for example:
  - `options.pageTree.altElementBrowserMountPoints`
  - `options.folderTree.altElementBrowserMountPoints`
Changes for Integrators and Developers

System Locales

- System locales are used to localize date and currency formats across the system
- TYP03 now lists all available locales in the Site Configuration:

![Locale Selection Interface](image)

- Integrators can easily select the right option for each language
Changes for Integrators and Developers

MFA for System Maintainers

- A new option requires system maintainers to set up multi-factor authentication if enabled
Changes for Integrators and Developers

New TCA type **language**

- A new TCA field type *language* has been added
- It displays all available languages for the current context
- The field supersedes the options
  "foreign_table=sys_language" and "special=languages"
- See [changelog](#) for further details and migration notes

```php
< TYP03 v11.2
   'config' => [
      'type' => 'select',
      'renderType' => 'selectSingle',
      'foreign_table' => 'sys_language',
      'items' => [],
      'default' => 0
   ]
```

```php
>= TYP03 v11.2
   'config' => [
      'type' => 'language'
   ]
```
Changes for Integrators and Developers

TCA Description (1)

- Since TYPO3 v9, every TCA field can have a description next to its label.
  For example:

  ![TCA Description Example](image)

- Integrators can now overwrite the description by using Page TSconfig.
This option can also be used to set a description for a field that does not feature a TCA description yet.

Example 1 – set/overwrite a description:

```
TCEFORM.<table>.<field>.description = <text>
TCEFORM.tt_content.header.description = The headline is the text...
```

Example 2 – on a per record type basis:

```
TCEFORM.<table>.<field>.types.<type>.description = Description for <type>
```

Example 3 – referring to a language file:

```
TCEFORM.tt_content.header.description = LLL:EXT:my_ext/Resources/Private/Language/locallang.xlf:description
```
Changes for Integrators and Developers

Disable hreflang and/or canonical tags

Under some rare circumstances, integrators want to disable the hreflang and/or canonical tags used in links:

```
<link rel="alternate" hreflang="de" href="..." />
<link rel="canonical" href="..." />
```

This is now possible on a page-by-page basis by using TypoScript

Examples:

```
# Disable hreflang attributes:
config.disableHrefLang = 1

# Disable canonical URLs:
config.disableCanonical = 1
```
Changes for Integrators and Developers

User Group IDs in Conditions

- The following user group IDs are now available in TypoScript:
  - Currently logged-in **backend user**
    (as backend.user.userGroupIds in the frontend and backend)
  - Currently logged-in **frontend user**
    (as frontend.user.userGroupIds in the frontend)

- This allows integrators to use the Symfony Expression syntax in TypoScript conditions to look-up user groups

- Examples:
  
  [4 in frontend.user.userGroupIds]
  
  [2 in backend.user.userGroupIds]
Changes for Integrators and Developers

Error Page Caching

- The content of 404 error pages ("page not found") is now cached in the TYPO3 page cache.
- Integrators and administrators are advised not to output any sensitive information such as the user name of an authenticated frontend user.
- If the 404 error page shows dynamic content, we recommend to implement a custom PHP-based error handler.
Changes for Integrators and Developers

PSR-14 Event on Site Configuration Import

- Extensions (site packages and "distributions") can provide site configurations
- These configurations are deployed when the extensions are installed
- A PSR-14 event is now dispatched when the site configuration is imported:

  \TYPO3\CMS\Extensionmanager\Event\AfterExtensionSiteFilesHaveBeenImportedEvent

- This enables custom code to access details from the new site configuration
Changes for Integrators and Developers

FAL Folder Object

- The FAL object \TYPO3\CMS\Core\Resource\Folder now contains a new method getFile()
- This function provides a convenient way to retrieve a file
- Example:
  
  **Old approach** (still possible)
  
  ```php
  $folder->getStorage()->getFileManager("filename.ext", $folder)
  ```

  **New method** (available since TYPO3 v11.2)
  
  ```php
  $folder->getFile("filename.ext")
  ```
Changes for Integrators and Developers

Hidden-ViewHelper

- A new argument `respectSubmittedDataValue` has been added to the `Hidden-ViewHelper`
- This argument controls the usage of previously submitted values for the respective fields
- Typical use cases are sub requests, when Extbase dispatches a ForwardResponse
- Example:

```<f:form.hidden
    property="hiddenProperty"
    value="{form.hiddenProperty}"  
    respectSubmittedDataValue="false" />
```
Chapter 3: Deprecated/Removed Functions
Deprecated/Removed Functions

TypoScriptParser Properties

The following properties related to the TypoScript parser have been marked as deprecated:

- TYP03\CMS\Core\TypoScript\Parser\TypoScriptParser->breakPointLN
- TYP03\CMS\Core\TypoScript\Parser\TypoScriptParser->parentObject
- TYP03\CMS\Core\TypoScript\TemplateService->ext_constants_BRP
- TYP03\CMS\Core\TypoScript\TemplateService->ext_config_BRP
Deprecated/Removed Functions

Property special of TCA type=select

- The property `special` of the TCA type=select has been marked as deprecated.
- Developers are advised to use `itemsProcFunc` instead:
  ```php
  'config' => [
    'type' => 'select',
    // 'special' => 'tables',
    'itemsProcFunc' => MyExtension::class . '->method',
    ...
  ]
  ```
- Further details about `itemsProcFunc` can be found in the documentation.
Deprecated/Removed Functions

Legacy-tree Navigation Frame

- Backend modules that use the old file_navframe registration option are marked as **deprecated**
- Extension developers are advised to update the code in file ext_tables.php.

```php
\TYPO3\CMS\Core\Utility\ExtensionManagementUtility::addModule(
    ...
    [
        // previously: 'navigationFrameModule' => 'file_navframe',
        'navigationComponentId' => 'TYPO3/CMS/Backend/Tree/FileStorageTreeContainer',
    ...
    ]
);
```
Deprecation/Removed Functions

Hook Deprecation

- The following hook has been marked as **deprecated**: 
  t3lib/class.t3lib_parsehtml_proc.php:transformation
Chapter 4:

Miscellaneous
Backend User Language

- The backend user’s preferred language is now stored in the database under `be_users.lang` even if the user changes the language.
- Previously, the language information was only stored in this field initially and then transferred to the user configuration `user->uc[lang]`.
- An upgrade wizard migrates existing `uc` values into the database field.
- The `uc` entry is kept in sync for backwards-compatibility.
XLIFF Version 1.2

- All language files in the TYPO3 Core use XLIFF version 1.2 now
- This allows us to use a validation schema
- The TYPO3-specific XLIFF file IDs t3:id have been dropped too
- Example:

  < TYPO3 v11.2

  <?xml version="1.0" encoding="UTF-8"?>
  <xliff version="1.0" xmlns:t3="http://typo3.org/schemas/xliff">
    <file t3:id="1521629231" source-language="en" ... />
    ...
  </xliff>

  >= TYPO3 v11.2

  <?xml version="1.0" encoding="UTF-8"?>
  <xliff version="1.2" xmlns="urn:oasis:names:tc:xliff:document:1.2">
    <file source-language="en" ... />
    ...
  </xliff>
Miscellaneous

Packages/Libraries Updated

- The following packages and libraries have been updated:
  - CKEditor from version 4.15.0 to 4.16.0
  - Bootstrap v5 from beta-2 to beta-3
- Compatibility with Doctrine DBAL version 2.13 has been added
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_11.2.0](https://get.typo3.org/release-notes/11.x/TYPO3_CMS_11.2.0)
- [TYPO3 v11 ChangeLog](https://get.typo3.org/release-notes/11.x/TYPO3_CMS_11.2.0)
- [typo3/sysext/core/Documentation/Changelog/11.2/*](https://get.typo3.org/release-notes/11.x/TYPO3_CMS_11.2.0)

**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:

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/

Licensed under Creative Commons BY-NC-SA 3.0