

TYP03 Version 11.2 – What's New

Summary of the new features, changes and improvements

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TYPO3 Version 11.2 - What's New

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Introduction

The Facts

Introduction

TYP03 Version 11.2 - The Facts

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



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

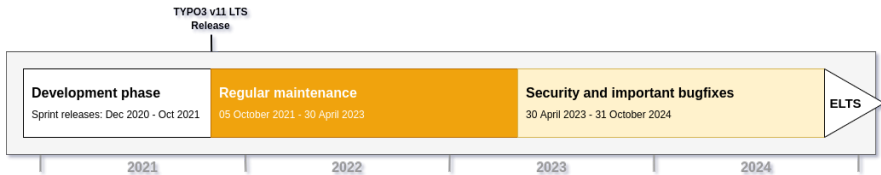
- PHP version 7.4+
- PHP settings:
 - `memory_limit` \geq 256M
 - `max_execution_time` \geq 240s
 - `max_input_vars` \geq 1500
 - compilation option `--disable-ipv6` must not be used
- Most database servers supported by **Doctrine DBAL** also work with TYPO3. Tested DB engines are for example:



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 (*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/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.

Introduction

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](#).

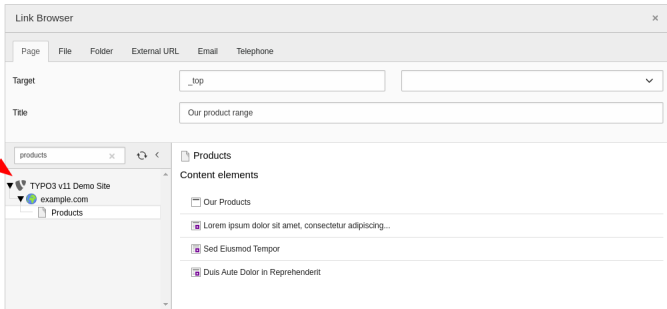
- **Using Composer is the recommended installation method**

Chapter 1: Backend User Interface

Backend User Interface

Page and File Tree in the Record Selector

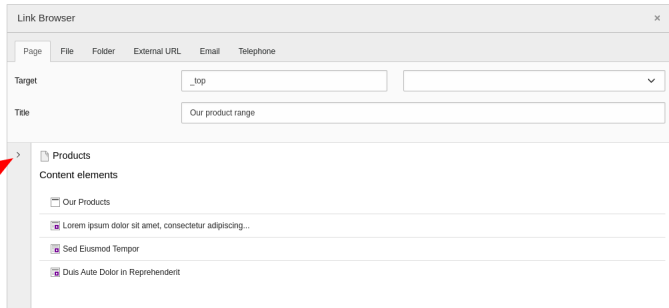
The Record Selector (also known as *Element Browser* or *Link Browser*) now also features the SVG-based page tree and file list.



Backend User Interface

Resizable Navigation

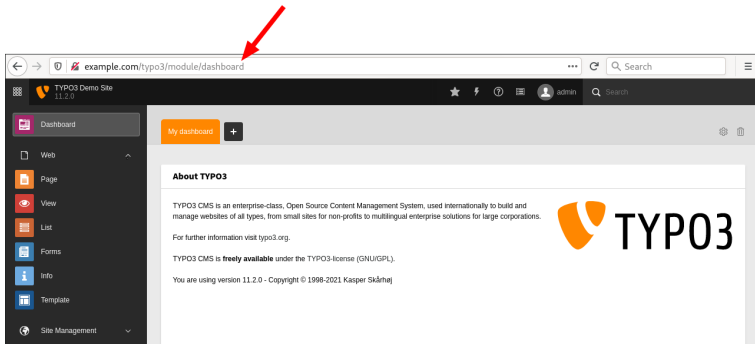
Backend users benefit from all features such as filtering, collapsing, resizing, etc. which are available in all modals.



Backend User Interface

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

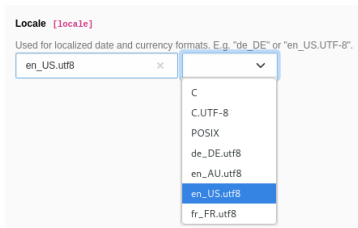
Page and File Tree in the Record Selector

- 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
- TYPO3 now lists all available locales in the Site Configuration:



- 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

The screenshot shows a configuration window with a search filter set to 'requireMfa'. The main content area is titled '[BE][requireMfa]' and contains a list of options for defining users required to set up multi-factor authentication. The options are:

- Require multi-factor authentication only for system maintainers (4)
- Do not require multi-factor authentication (0)
- Require multi-factor authentication for all users (1)
- Require multi-factor authentication only for non-admin users (2)
- Require multi-factor authentication only for admin users (3)
- Require multi-factor authentication only for system maintainers (4)

The first and fifth options are highlighted in blue. Below this list are other configuration sections: Image Processing [DFA], Connection [HTTP], Mail [MAIL], and System [SYS].

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

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```
'config' => [  
  'type' => 'select',  
  'renderType' => 'selectSingle',  
  'foreign_table' => 'sys_language',  
  'items' => [ ... ],  
  'default' => 0  
]
```

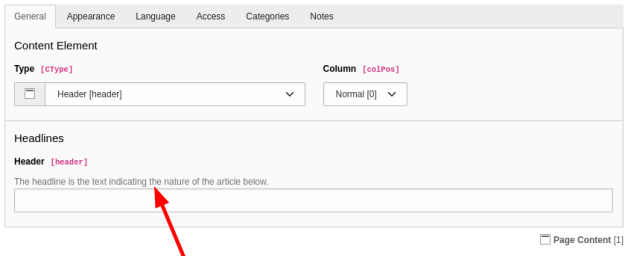
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```
'config' => [  
  'type' => 'language'  
]
```

Changes for Integrators and Developers

TCA Description (1)

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



The screenshot displays the TYPO3 TCA configuration interface. At the top, there are tabs for 'General', 'Appearance', 'Language', 'Access', 'Categories', and 'Notes'. Below these, the 'Content Element' section is visible, with 'Type [ctype]' set to 'Header [header]' and 'Column [colPos]' set to 'Normal [0]'. The 'Headlines' section is also visible, with 'Header [header]' as the label. A text area contains the description: 'The headline is the text indicating the nature of the article below.' A red arrow points to this text area. At the bottom right, there is a checkbox labeled 'Page Content [1]'.

- Integrators can now overwrite the description by using Page TSconfig

Changes for Integrators and Developers

TCA Description (2)

- 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 `TYP03\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)

```
$folder->getStorage()->getFileInFolder("filename.ext", $folder)
```

New method (available since TYP03 v11.2)

```
$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 `FowardResponse`
- 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**:
 - TYPO3\CMS\Core\TypoScript\Parser\TypoScriptParser->breakPointLN
 - TYPO3\CMS\Core\TypoScript\Parser\TypoScriptParser->parentObject
 - TYPO3\CMS\Core\TypoScript\TemplateService->ext_constants_BRP
 - TYPO3\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:

```
'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`.

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


Deprecated/Removed Functions

Hook Deprecation

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

Chapter 4: Miscellaneous

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

Miscellaneous

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:

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```
<?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" ... >
  ...
```

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

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/>

Release Infos:

- https://get.typo3.org/release-notes/11.x/TYPO3\CMS_11.2.0
- [TYPO3 v11 Changelog](#)
- `typo3/sysexst/core/Documentation/Changelog/11.2/*`

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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