

# 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

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## TYP03 Version 11.2 - The Facts

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



# Introduction

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## 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

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## 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:

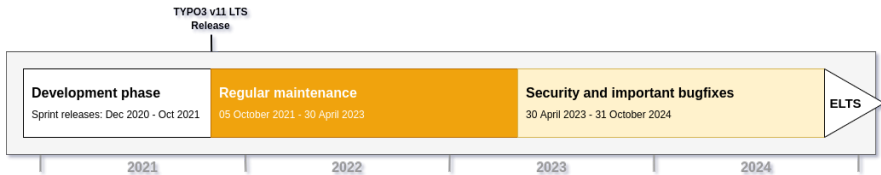


# Introduction

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## 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

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## 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

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## 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

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## 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**

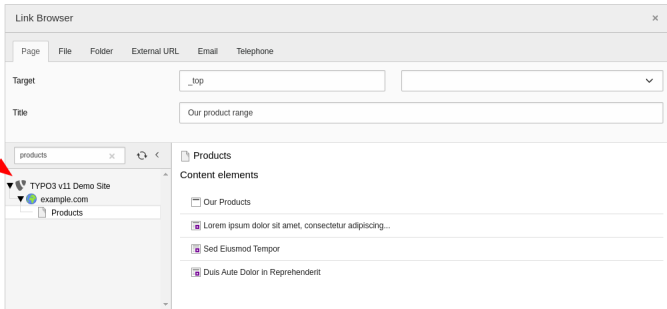
## Chapter 1: Backend User Interface

# Backend User Interface

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## 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.

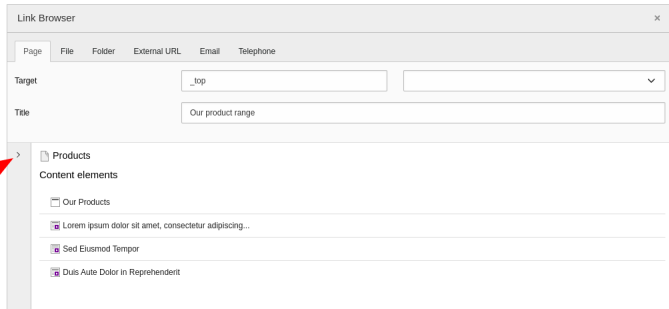


# Backend User Interface

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## Resizable Navigation

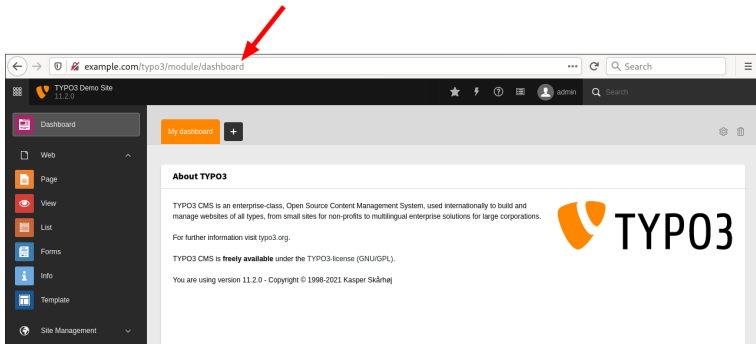
Backend users benefit from all features such as filtering, collapsing, resizing, etc. which are available in all modals.



# 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

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## 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

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## Page and File Tree in the Record Selector

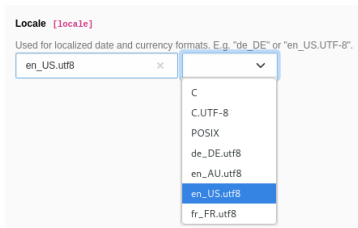
- The same technologies used for the page and file tree are now also implemented in modal windows in the backend:
  - **Record Selector**  
(e.g. selecting a shortcut target or a storage page of a plugin)
  - **File Selector**  
(e.g. selecting a file for an IRRE-based FAL-based file reference)
  - **Link 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

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## 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) - This option is selected and highlighted in blue.
- 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) - This option is also highlighted in blue.

Below the MFA options, there are other configuration sections: Image Processing [DPA], Connection [HTTP], Mail [MAIL], and System [SYS].

# Changes for Integrators and Developers

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## 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

### < TYPO3 v11.2

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

### >= TYPO3 v11.2

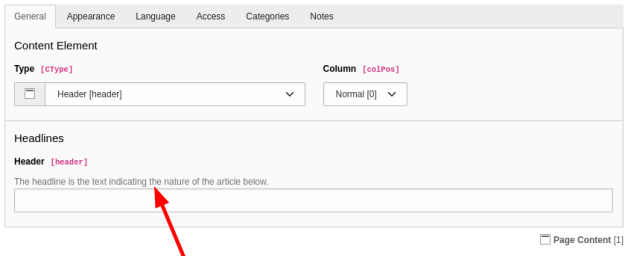
```
'config' => [  
  'type' => 'language'  
]
```

# Changes for Integrators and Developers

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## *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

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## 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

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## 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

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## 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

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## FormEngine's JavaScript Change Handling

- The JavaScript function `TBE_EDITOR.fieldChanged()` is marked as **deprecated**
- Migration option:

```
// Previous invocation
TBE_EDITOR.fieldChanged('table', 'field_name', 42);

// Migrate to event-based handling
document
  .querySelector('[name="data[table][field_name][42]"')
  .dispatchEvent(new Event('change', {bubbles: true, cancelable: true}));
```

# Deprecated/Removed Functions

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## Hook Deprecation

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

## Chapter 4: Miscellaneous

# Miscellaneous

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## 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

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## 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" ... >
  ...
```

### >= 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" ... >
  ...
```

# Miscellaneous

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## 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

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## Sources

### TYPO3 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](#)
- `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

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## **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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