TYP03 Version 11.0 - What's New

Summary of the new features, changes and improvements

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TYP03 Version 11.0 - What's New

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Introduction The Facts



TYP03 Version 11.0 - The Facts

Release date: 22 December 2020Release type: Sprint Release





Executive Summary

TYPO3 version 11.0 is the first sprint release on the way to the LTS-version (long-term support) in 2021.

Since the main focus of version 11.0 is on clean-up tasks, it is not surprising that a large number of breaking changes have been introduced in this release.

This approach allows us to introduce new libraries, modern concepts, and streamline APIs at an early stage of the development to make sure that TYPO3 remains one of the best enterprise content management systems on the market.



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:













Development, Support, and Maintenance Timeline

TYP03 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.



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 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/article/a-first-glimpse-of-typo3-v11



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/11.0
$ tar xzf typo3_src-11.0.0.tar.gz
$ cd htdocs
$ ln -s ../typo3_src-11.0.0 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 typo3v11 ^11
- 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.



Chapter 1: Backend User Interface



Bootstrap Version 5

The TYP03 backend now uses Bootstrap version 5.

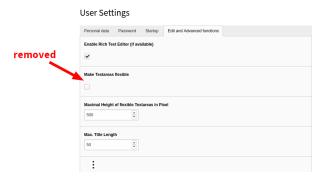
The decision to use version 5 (which is still in development at the time of writing) puts TYPO3 at the forefront of modern content management systems from a UI perspective.

Backend users won't need to learn how to use a new user interface with Bootstrap 5. They might, however, notice a few minor usability changes in TYPO3 v11.0



Resizable Text Area

The user setting "Make text areas flexible" has been removed and is no longer available for backend users. Text areas now always resize to the maximum height.





System Notes

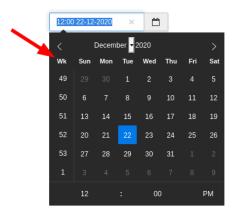
A new button has been added to the top right of the Page, List, and Info module to add system notes directly.

	Path: / Home [1]
Home 🗸	
Normal	
+ Content	



System Notes

The DateTimePicker now also shows week numbers in the calendar.





Cleanup Redirects

If enabled and configured, TYPO3 removes redirects (for example redirects older than a specific number of days). To mark certain redirects and prevent their deletion, a "protected" switch has been added.

Source Donaln (source, bott) * X Y Source Path (source, path) Respect GET Parameters #06 page X 00	[respect_query_parameters] Is regular expression? [is_repep) [0]
Target (terget)	Slatus Code HTTP Header [target_statuscode] 301 Moned Permanently [802] Kep GET Parameters [seep_query_parameters] [9]
Protected [presected] When enabled, this redirect will be skipped by scheduled clearup tasks that might delete redirect will be skipped by scheduled clearup tasks that might delete redirect.	ects under certain conditions.



Recursive Page Deletion

Backend users can now delete pages with sub-pages in the page tree (recursive page deletion). In previous TYPO3 versions, users had to explicitly enable this function which is now always enabled.

	- 1
removed	Recursive Copy: Enter the number of page sublevels to include, when a page is copied
	Recursive Delete(!): Allow ALL subpages to be deleted when deleting a page
	Reset Configuration and Clear Temporary Data
	Reset user settings to default state



Context Menu

- The context menus are now accessible via keyboard.
- For example:
 - Shift+F10 opens the context menu.
 - Arrow keys, Home, and End to navigate through the menu.
 - Enter, Space actives items or opens submenus.
- This change follows the best practices as described in WAI-ARIA Authoring Practices 1.1 by the W3C.



Chapter 2:

Changes for Integrators and Developers



Form Framework

- Since TYP03 v10, integrators and developers can use Fluid-based emails in the EmailFinisher.
- Therefore, the StandaloneView has now been marked as deprecated, along with the configuration option templatePathAndFilename.



Remote Extension Repositories

- The Extension Manager now uses an Extension Remotes API.
- Previously, alternatives to the TYPO3 Extension Repository (TER) were stored in a database table.
- It possible to define new remotes, disable registered remotes, or change the default remote.
- A custom remote configuration can be configured in file Configuration/Services.yaml for example:

```
extension.remote.myremote:
    class: 'TYPO3\CMS\Extensionmanager\Remote\TerExtensionRemote'
    arguments:
        $identifier: 'myremote'
        $options:
            remoteBase: 'https://example.com/'
tags:
            - name: 'extension.remote'
            default: true
```



SelectCheckBox Groups

The new TCA setting expandAll can be used to expand grouped checkboxes by default. The setting needs to be placed in

```
['config']['appearance']
```

For example:

```
'select_checkbox' => [
    'label' => 'Select your dinner',
    'config' => [
        'type' => 'select',
        'renderType' => 'selectCheckBox',
        'appearance' => [ 'expandAll' => true ],
        'items' => [
            ['group 1', '--div--'],
            ['Pizza', 1],
            ['Pasta', 2],
            ['group 2', '--div--'],
            ['Salad', 3],
            ['Ice cream', 4]
      ]
    ]
]
```



CKEditor Plugin "Placeholder"

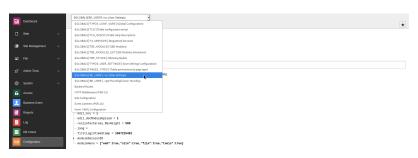
- A new CKEditor plugin is now available: "Editor Placeholder"
- It displays a placeholder text when the editor content is empty
- TCA configuration example:

```
'bodytext' => [
  'label' => 'LLL:EXT:core/Resources/Private/Language/ ...',
  'config' => [
    'placeholder' => 'This is a placeholder',
    'type' => 'text',
    'enableRichtext' => true
]
]
```



Configuration Backend Module (EXT:lowlevel)

- The backend module "Configuration" can now be customized
- Developers can add their own configurations and disable existing configurations





New Datetime-Picker: "flatpickr"

- New datetime picker has been introduced to the TYPO3 backend: "flatpickr" is "lean", lightweight, and doesn't depend on any libraries.
- This change has several implications, most of which affect developers:
 - Initializing all datetime pickers at once triggers a deprecation warning: DateTimePicker.initialize().
 - Option to add/subtract a date or time range in the FormEngine has been removed.



Recursive Page Deletion

- As recursive page deletion is now always enabled and can't be disabled, the following implications affect integrators and developers:
- The following TSconfig settings have been removed:
 - setup.default.recursiveDelete
 - setup.override.recursiveDelete
 - setup.fields.recursiveDelete.disabled
- On a PHP level, the following property has been removed:
 - DataHandler->deleteTree
- The following backend user setting has been removed:
 - uc['recursiveDelete']



TypoScript Option addQueryString.method

- The TypoScript option addQueryString.method has been removed.
- This has the following implications:
 - UriBuilder->setAddQueryStringMethod() now triggers a deprecation notice.
 - ContentObjectRenderer->getQueryArguments() with more than one argument has no effect anymore.
- Additionally, using the argument addQueryStringMethod in the following ViewHelpers triggers a deprecation notice:
 - <f:form>
 - <f:link.action>
 - <f:link.page>
 - <f:link.typolink>
 - <f:uri.action>
 - <f:uri.page>
 - <f:uri.typolink>



Workspaces

- Several changes have been made to the "Workspaces" functionality:
 - The underlying code received several updates and improvements.
 - Some conceptual issues have been addressed.
 - Several bugs have been fixed.
- Further planned updates are for example:
 - Stabilizing existing functionality.
 - Update the documentation.
 - improve the user experience.
 - Introduce new features.
- Read more about the initiative in the article:
 - "Workspaces One of TYPO3's Most Underused Features".



Chapter 3: Changes for Integrators



Breaking Changes

Integrators be advised: In TYPO3 v10, some PHP code, TSconfig, TypoScript options and conditions, etc. were marked as deprecated.

In accordance to TYPO3's Deprecation Policy, these components have changed or were removed in TYPO3 v11.0.

Enable the deprecation log, carefully test your code and configuration, and review the log to determine possible issues. Use the built-in Extension Scanner to get a full report of extension incompatibilities.



Extension Manager

- The Extension Manager now features an all versions view that shows detailed information about extensions.
- The following database table is not used anymore and was removed:
 - tx_extensionmanager_domain_model_repository
- The (undocumented) support for extension-in-extension installations has been removed. TYPO3 now ignores the following directory:
 - EXT:my_extension/Initialisation/Extensions/
- As we have phased out the proprietary format .t3x in favor of .zip files, the option to upload .t3x files has been removed.



Resizable Text Area

- As the user setting "Make text areas flexible" has been removed, the following User TSconfig settings are obsolete:
 - setup.default.resizeTextareas_Flexible
 - setup.override.resizeTextareas_Flexible
 - setup.fields.resizeTextareas_Flexible.disabled
- TYPO3 integrators should update the TypoScript code and remove these settings, if they exist.



Clean-up Redirects

- A new CLI command can delete redirects that match certain criteria:
 - Age of records in days
 - Domain(s), comma-separated
 - Hit count
 - Status code(s), comma-separated
 - Path pattern
- The command can also run as a Scheduler task.
- Redirects can be marked as "protected" to prevent their deletion.
- For example:

```
vendor/bin/typo3 redirects:cleanup --age 90 --path "/foobar%"
```

(this deletes all redirects that start with /foobar and are older than 90 days)



TypoScript Condition: pagelayout

- New TypoScript condition to check for the backend layout of a page is now available in the frontend and backend.
- For example:

```
# Using backend_layout records
[tree.pagelayout == 2]
page.1 = TEXT
page.1.value = Layout 2
[END]

# Using TSconfig provider of backend layouts
[tree.pagelayout == "pagets_Home"]
page.1 = TEXT
page.1.value = Layout Home
[FND]
```



IP-Lock for Backend Users

- TYPO3 v11 still supports to lock a backend user session to an IP address or IP address range by using the following option: \$TYPO3_CONF_VARS[BE] [lockIP]
- In previous TYPO3 versions, administrators were able to overwrite this configuration for specific backend users if required.
- This user-specific configuration, along with the following database field and the TCA definition, have been removed:

```
be_users.disableIPlock
```



Admin Panel

- The Admin Panel offers a list of frontend user groups to choose from to render the page under this context.
- This list now only contains enabled user groups (hidden/disabled groups are not listed anymore).
- This change was made to ensure consistency for the authentication process.



Content Object TEMPLATE

- The cObject TEMPLATEHAS been removed.
- The following related the PHP class has been removed: TYPO3\CMS\Frontend\ContentObject\TemplateContentObject.
- The content object was used to render marker-based templates.
- The successor FLUIDTEMPLATE acts as a replacement for marker-based templates today.



Backend URLs (1)

Backend URLs have changed in TYP03 v11:

```
OLD: /typo3/index.php?route=%2Frecord%2Fedit&token=...
NEW: /typo3/record/edit?token=...
```

- This is in preparation for "speaking URLs" and deep-linking in the TYPO3 backend.
- To access the TYPO3 backend, the web server configuration now requires a rewrite rule.
- In previous TYP03 versions, the backend was explicitly excluded from any URL rewriting logic.
- When accessing the Install Tool, a silent update takes care of adjusting the configuration file for Apache and Microsoft IIS, if possible.



Backend URLs (2)

If a manual adjustment of the web server configuration is required (e.g. in customized setups):

Previous configuration:

```
{\tt RewriteRule \ \^{"}} (?:typo3/|fileadmin/|typo3conf/|typo3temp/|uploads/) - [L]
```

New configuration:

```
RewriteRule ^(?:fileadmin/|typo3conf/|typo3temp/|uploads/) - [L]
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteCond %{REQUEST_FILENAME} !-1
RewriteCond %{REQUEST_URI} ^/typo3/.*$
RewriteRule ^typo3/(.*)$ %{ENV:CWD}typo3/index.php [QSA,L]
```

See change log for more details.



Miscellaneous

- As TYPO3 now always uses the Fluid-based page module, the feature toggle to switch between different implementations has been removed.
- All functionality of the system extension EXT: about have been migrated into the main backend extensionm and the extension removed.
- The following system-wide setting has been removed to harden the security (it is now deemed as activated):

```
$GLOBALS['TYPO3_CONF_VARS']['BE']['lockBeUserToDBmounts']
```

The following TSconfig setting has been removed: mod.web_layout.disableAdvanced



Chapter 4: Changes for Developers



Breaking Changes

Developers be advised: In TYPO3 v10, some PHP classes, interfaces, class aliases, properties, methods, constants, global options and variables, etc. were marked as deprecated. This possibly also includes changed visibilities (e.g. from "public" to "protected").

In accordance to TYPO3's Deprecation Policy, these components have changed or were removed in TYPO3 v11.0.

See change log for a complete list of removed functionality.

Enable the deprecation log, carefully test your code, and review the log to locate possible issues. Use the built-in Extension Scanner to get a full report of extension incompatibilities.



DateTimeAspect

- The DateTimeAspect returns the timestamp as an integer now.
- For example:

```
use TYPO3\CMS\Core\Context\Context;
use TYPO3\CMS\Core\Utility\GeneralUtility;
...
$context = GeneralUtility::makeInstance(Context::class);
$timestamp = $context->getPropertyFromAspect('date', 'timestamp');
```



Email Validation

- Developers can use the following method to validate email addresses: TYPO3\CMS\Core\Utility\GeneralUtility::validEmail()
- Since TYP03 v11.0, it is possible to configure the validators and to implement custom solutions.
- For example:

```
$GLOBALS['TYPO3_CONF_VARS']['MAIL']['validators'] = [
\Egulias\EmailValidator\Validation\RFCValidation::class,
\Egulias\EmailValidator\Validation\DNSCheckValidation::class];
```

- The following default validators are available:
 - \Egulias\EmailValidator\Validation\RFCValidation (used by default)
 - \Egulias\EmailValidator\Validation\DNSCheckValidation

 - \Egulias\EmailValidator\Validation\NoRFCWarningsValidation



Page Language Detection

- Translated page records (based on the fallback handling in the Site Configuration) are now available at a much earlier stage.
- This change was implemented to address a conceptual issue when accessing translated page records.
- As a consequence, TypoScript conditions based on the page record possibly return different results now.
- See change log for further details and migration options.



Frontend User Groups

- The frontend user groups are now resolved in an earlier state of the frontend request.
- This allows PSR-15 middlewares to properly work with these user groups.
- The functionality has been moved from TSFE into middleware, which decouples the user authentication from the TSFE object.
- Developers of custom authentication services are encouraged to re-test their code in TYPO3 v11.



JavaScript and CSS Inclusion

- The following methods and properties of the class

 TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController
 have been removed:
 - setJS()
 - additionalJavaScript
 - additionalCSS
 - JSCode
 - inlineJS
- A better approach to add JavaScript and CSS snippets is to use the AssetCollector API for example.



Backend ViewHelpers

- A new optional attribute defaultValues was added to the following backend ViewHelpers:
 - be:uri.newRecord
 - be:link.newRecord
- The argument can be used to prefill fields with default values.
- For example:

```
<be:link.newRecord table="tt_content" pid="17" returnUrl="foo/bar"
    defaultValues="{tt_content: {header: 'value'}}">
New record
</be:link.newRecord>
```



Session Storage Wrapper

- A new wrapper class has been introduced to store data temporarily during a session life time: TYPO3\CMS\Core\Storage\BrowserSession
- The following API methods are available:
 - get(key)
 To fetch the data based on a given key.
 - set(key, value)
 To set/override a key with arbitrary content.
 - isset(key)
 To check if a key is in use.
 - unset(key)
 To remove a key from the storage.
 - clear()
 To empty the storage and clear all data.
 - unsetByPrefix(prefix)
 To clear all data that have keys that start with a specific prefix.



"Redirect" Middleware Position

- The "Redirect" middleware has a new default position in the middleware stack.
- TYP03 now executes cms-redirects/redirecthandler before cms-frontend/base-redirect-resolver

```
typo3/cms-redirects/redirecthandler
typo3/cms-frontend/base-redirect-resolver
...
```

- The change of the order was a feature toggle in TYP03 v10.
- Developers are adviced to check the position of their custom developed middlewares.



Session Handling

- The session handling in the TYPO3 Core has been significantly restructured.
- It is not part of the user authentication objects anymore, but has been moved into dedicated classes:
 - TYPO3\CMS\Core\Session\UserSession
 - TYPO3\CMS\Core\Session\UserSessionManager
- This change leads to a centralized handling of sessions.
- The UserSessionManager should be used as a factory to create new sessions for various use-cases.
- See TYP03 documentation for further details.



Cookies set in the PSR-7 Response

- TYP03 now attaches cookie information for the user session information in a PSR-15 middleware by default.
- Previously, cookies were added using PHP's native functions header() and setcookie().
- The new logic allows developers to attach the cookies to a PSR-7 response object by using
 - \$GLOBALS[BE_USER] ->appendCookieToResponse().



PSR-7 Responses in ContentObjects (1)

- PSR-7 standardized request objects have been added to frontend ContentObjects.
- Any kind of custom cObject using PHP code can now access the PSR-7 Request object to fetch information about the current request.
- This method should be used instead of superglobal variables such as \$_GET, \$_POST, \$_SERVER,or TYPO3's API methods

 GeneralUtility::_GP()and GeneralUtility::getIndpEnv().



PSR-7 Responses in ContentObjects (2)

Example how to access the PSR-7 Request object in a custom cObject: TypoScript



Class PageRenderer

- TYPO3's PageRendererclass now always renders the full HTML page, instead of header/footer separately.
- As a consequence, the following constants are now protected:
 - PageRenderer::PART_COMPLETE
 - PageRenderer::PART_HEADER
 - PageRenderer::PART_FOOTER
- PageRenderer->render() does not accept any method arguments anymore.
- Extensions should use custom hooks to process or manipulate header or footer parts.



Shortcut API

- The Shortcut API has been reworked to support Symfony routing to resolve internal endpoints, e.g. backend modules.
- This is in preparation for "speaking URLs" in the TYPO3 backend (BE users will be able to share links to specific functions/pages, for example)
- Developers are adviced to review the following change logs if they use the Shortcut API:
 - 93093: Rework Shortcut PHP API
 - 92132: Deprecate Shortcut PHP API
 - 93060: Shortcut title must be set by controllers
 - 93093: Deprecate method name in Shortcut PHP API



Chapter 5: **Extbase and Fluid**



PSR-7 Responses

- Extbase now creates a PSR-7-compatible response object and passes it back through the request handling stack.
- The following interfaces/classes are not used anymore and were removed:
 - TYPO3\CMS\Extbase\Mvc\ResponseInterface
 - TYPO3\CMS\Extbase\Mvc\Response
- If a controller action should return custom data instead of the default view, a PSR-7-compatible response object can be returned:

```
public function listAction()
{
    // do your action stuff
    return new \TYPO3\CMS\Core\Http\HtmlResponse($this->view->render());
}
```



Regular Expression Validator

■ Custom error messages can be returned by using the new option errorMessage of the RegularExpressionValidator:



Fluid Widgets

- Fluid "widgets" and all widget functionality have been removed.
- The technology violates the design pattern "separation of concern" and caused problems in regards to using PSR-7 request objects in Extbase.
- Impact of this change:
 - Fluid templates that use an existing widget will no longer work.
 - Custom widgets will no longer work and have to be replaced.
- Developers can use the Pagination API instead of <f:paginate...> for example.
- See change log for further details.



ActionController

- Several properties and methods of the class

 TYPO3\CMS\Extbase\Mvc\Controller\ActionController
 have been marked as internal.
- Although these properties and methods remain operational, developers are adviced to review if custom developed extension are affected.
- Internal properties and methods will possibly be removed without deprecation notification in TYPO3 v12 or later.
- See change log for a list of affected properties and methods.



PSR-7 ForwardResponse (1)

- The following class has been introduced to forward a request to another controller action: TYPO3\CMS\Extbase\Http\ForwardResponse
- This is a PSR-7 compatible way to return a response object.
- The old method has been marked as deprecated:

```
ActionController::forward()
```



PSR-7 ForwardResponse (2)

Code example:

```
<?php
use Psr\Http\Message\ResponseInterface;
use TYPO3\CMS\Extbase\Mvc\Controller\ActionController;
use TYPO3\CMS\Extbase\Http\ForwardResponse;
class FooController extends ActionController
  public function listAction(): ResponseInterface
    // do something
    return new ForwardResponse('show');
  public function showAction(): ResponseInterface
    // do something
```



PSR-7 ResponseInterface

- The aim to fully comply with PSR-7 affects the data types that controller actions may return.
- Return values can be either nothing (void), null, a string, or an object.
- Actions should now return an instance of Psr\Http\Message\ResponseInterface.
- Everything else triggers a warning in the deprecation log.
- Code example (after migration):

```
public function listAction(): ResponseInterface
{
    $items = $this->itemRepository->findAll();
    $this->view->assign('items', $items);
    return $this->htmlResponse();
}
```



Dependency Injection (1)

- Property Dependency Injection by using @Extbase\Inject has been marked as deprecated.
- Migration options:
 - Constructor Injection
 Allows for extension compatibility with multiple TYP03 versions.
 - Setter Injection
 Similar pros and cons as constructor dependency injection.
 - Core Property Injection Requires configuration of services in the file Services.yaml.



Dependency Injection (2)

- The previously deprecated option to use dependency injection for non-public properties has been removed.
- The code example below shows a working solution (note the public visibility!)

```
class Foo {
   /**
     * @var Service
     * @TYPO3\CMS\Extbase\Annotation\Inject
     */
   public $service;
}
```



Plugin/Module Registration

- Registering plugins/modules require fully-qualified class names and no vendor name as the extension name (first argument).
- This was marked as deprecated in TYP03 v10 and is now mandatory.
- This applies to ExtensionUtility::configurePlugin()and ExtensionUtility::registerModule().
- For example:

```
\TYPO3\CMS\Extbase\Utility\ExtensionUtility::configurePlugin(
'Form',
'Formframework',
[
    \TYPO3\CMS\Form\Controller\FormFrontendController::class => 'render, perform'
],
[
    \TYPO3\CMS\Form\Controller\FormFrontendController::class => 'perform'
],
\TYPO3\CMS\Extbase\Utility\ExtensionUtility::PLUGIN_TYPE_CONTENT_ELEMENT
);
```



Miscellaneous

■ The method canProcessRequest() of the following class has been removed: TYPO3\CMS\Extbase\Mvc\Controller\ActionController



Chapter 6: **Deprecated/Removed Functions**



Constants TYP03_MODE and TYP03_REQUESTTYPE

- The following global constants have been marked as deprecated:
 - TYPO3 MODE
 - TYPO3 REQUESTTYPE
 - TYP03_REQUESTTYPE_FE
 - TYPO3 REQUESTTYPE BE
 - TYPO3 REQUESTTYPE CLI
 - TYPO3 REQUESTTYPE AJAX
 - TYPO3_REQUESTTYPE_INSTALL
 - IIFUS_REQUESTITE_INSTALE
- Extension developers are highly encouraged to drop the usage of these constants and prepare their extensions for TYPO3 v11.
- See change log for migration options.



Database-related Changes

- The following two database fields were removed from various tables:
 - t3ver_tstamp
 - t3ver_count
- The following database table is not used anymore and was removed:
 - tx_extensionmanager_domain_model_repository



HTML tags <style> and <link>

- The HTML tags <style> and <link> do not use the attribute type by default anymore.
- This change applies to the TYPO3 backend and frontend output.
- If required, the attribute can be re-added by using TypoScript options or by Fluid AssetCollector attributes.



Session Handling

 Requesting the frontend by using the following GET parameter does not have an effect anymore: FE_SESSION_KEY (an existing session will not be picked up)



Frontend Usergroup Retrieval

- The code to retrieve usergroups when frontend users log-in has been streamlined.
- It is now consistent with the mechanism in for backend users.
- The following methods and properties have been removed:

TYPO3\CMS\Core\Authentication\AuthenticationService

- ->getGroups()
- ->getSubGroups()
- ->db_groups
- The following methods have been marked as internal or removed:

TYPO3\CMS\Core\Authentication\FrontendUserAuthentication

- ->TSdataArray
- ->userTS
- ->userTSUpdated
- ->userData_change



Backend Shortcuts and Bookmarks

- The following methods related to the shortcut/bookmark handling in the TYPO3 backend have been marked as deprecated:
 - TYPO3\CMS\Backend\Template\ModuleTemplate->makeShortcutIcon()
 - TYPO3\CMS\Backend\Template\ModuleTemplate->makeShortcutUrl()
 - TYPO3\CMS\Backend\Template\Components\Buttons\Action\ShortcutButton->getSetVariables()
 - TYPO3\CMS\Backend\Template\Components\Buttons\Action\ShortcutButton->getGetVariables()
 - TYPO3\CMS\Backend\Template\Components\Buttons\Action\ShortcutButton->setGetVariables()
 - TYPO3\CMS\Backend\Template\Components\Buttons\Action\ShortcutButton->setSetVariables()
 - TYPO3\CMS\Backend\Template\Components\Buttons\Action\ShortcutButton->setModuleName()
 - TYPO3\CMS\Backend\Template\Components\Buttons\Action\ShortcutButton->getModuleName()
 - TYPU3\CMS\Backend\Template\Components\Buttons\Action\ShortcutButton->getModuleName(
- The following Fluid ViewHelper has been marked as deprecated:
 - f:be.buttons.shortcut
- Additionally, the argument getVars of the following ViewHelper has been marked as deprecated:
 - be:moduleLayout.button.shortcutButton



Class AbstractUserAuthentication

- The following changes are related to the class

 TYPO3\CMS\Core\Authentication\AbstractUserAuthentication
- Removed public properties and methods:
 - AbstractUserAuthentication->auth_timeout_field
 - AbstractUserAuthentication->loginFailure
 - AbstractUserAuthentication->forceSetCookie
 - AbstractUserAuthentication->svConfig
 - AbstractUserAuthentication->warningEmail
 - AbstractUserAuthentication->warningPeriod
 - AbstractUserAuthentication->warningMax
 - AbstractUserAuthentication->checkLogFailures()
- As part of the session handling restructure, these methods have been marked as deprecated:
 - AbstractUserAuthentication->createSessionId()
 - AbstractUserAuthentication->fetchUserSession()



Workspaces

- Several internal changes have been made to the Workspaces.
- Developers who built extensions that use Workspace-functionality are adviced to review the changes and test their custom code.
- Changes are for example (but not limited to):
 - The "New Placeholder" records have been removed (92791).
 - The "Move Placeholders" have been removed (92497).
 - The "swapping mode" of elements has been removed (92206).
 - The _ORIG_pid field has a new meaning (92598).
- The following two methods have been marked as deprecated:
 - TYPO3\CMS\Core\Domain\Repository\PageRepository->fixVersioningPid()
 - TYPO3\CMS\Backend\Utility\BackendUtility::fixVersioningPid()



Miscellaneous (1)

- The User TSconfig option lockToIP has been removed.
- The function "lock to domain" has been removed for frontend/backend users and groups.
- The following Workspaces-related classes and interfaces have been removed:
 - TYPO3\CMS\Workspaces\ColumnDataProviderInterface
 - TYPO3\CMS\Workspaces\Service\AdditionalColumnService
 - TYPO3\CMS\Workspaces\Service\AdditionalResourceService
- The property sendNoCacheHeaders has been removed from the following class:

TYPO3\CMS\Authentication\AbstractUserAuthentication



Miscellaneous (2)

- The following methods of the ReferenceIndex class have been marked as deprecated:
 - ReferenceIndex->enableRuntimeCache()
 - ReferenceIndex->disableRuntimeCache()
- The following methods of the BackendUserAuthentication class have been removed:
 - BackendUserAuthentication->groupList
 - BackendUserAuthentication->includeGroupArray
- The method GeneralUtility::uniqueList() has been marked as deprecated (use the new method StringUtility::uniqueList()instead)



Miscellaneous (3)

- Calling BackendUtility::wrapClickMenuOnIcon() with more than four arguments will trigger a deprecation warning now.
- The following methods have been marked as deprecated:
 - GeneralUtility::hideIfNotTranslated()
 - GeneralUtility::hideIfDefaultLanguage()

Use the following BitSet-based PHP class instead:

TYPO3\CMS\Core\Type\Bitmask\PageTranslationVisibility

- The following hooks have been marked as deprecated:
 - ['recordlist/Modules/Recordlist/index.php']['drawHeaderHook']
 - ['recordlist/Modules/Recordlist/index.php']['drawFooterHook']

Use the following PSR-14 event instead:

TYPO3\CMS\Recordlist\Event\RenderAdditionalContentToRecordListEvent



Chapter 7: Miscellaneous



X-Redirect-By Header

- On redirects, TYPO3 now sends an additional HTTP header to indicate which of the following page types triggered the redirect:
 - Shortcut
 - Mountpoint pages (where applicable)
 - Link to external URL
- If enabled in the global configuration, the page ID is added to the output (should only be enabled for debugging purposes):

```
# See: $GLOBALS['TYPO3_CONF_VARS']['FE']['exposeRedirectInformation']
```

exposeRedirectInformation is disabled:

X-Redirect-By: TYP03 External URL

exposeRedirectInformation is enabled:

X-Redirect-By: TYP03 External URL at page with ID 456



Link Validator (1)

- The Scheduler task to generate email report about broken links has been significantly reworked and improved and many ways:
 - Fluid-based emails are now used
 - Task configuration extended
 - Email contains more detailed reports
 - Code refactoring
- Additionally, a PSR-14 event has been introduced to let developers manipulate the link analyser result.
- See change log for further details.



Link Validator (2)

- The LinkValidator supports several link types such as db, file, external, etc.
- The type linkhandlerhas been outdated for a long time, and consequently removed now.
- It's unlikely that this change requires a migration.
- However, integrators should check and remove the linkhandler type from the page TSconfig if it exists:

```
mod.linkvalidator.linktypes = db,file,external,linkhandler
```

Also, the following configuration should not be used anymore:

```
mod.linkvalidator.linkhandler.reportHiddenRecords = 0
```



Security

- To enhance the security, TYPO3 v11 does not expose the same cookie for HTTP and HTTPS connections, if the instance is in the HTTPS context.
 - If the site runs on HTTPS: the cookie is only exposed via HTTPS.
 - If the site runs on HTTP: the cookie is available via HTTP and HTTPS.

As part of this change, the following global configuration has been removed: \$TYPO3_CONF_VARS[SYS][cookieSecure]

 TYPO3 removes all session data on frontend user logout (this may affect installations that rely on keeping the session, e.g. for cart functionality)



Miscellaneous

- TYP03 v11.0 features jQuery version 3.5.x.
- "Indexed Search" does not log user-specific details in the search statistics for privacy reasons anymore.
- "Indexed Search" does not provide hooks for the "Crawler" extension anymore (EXT: crawler).



Sources and Authors

Chapter 8: Sources and Authors



Sources and Authors

Sources

TYP03 News:

■ https://typo3.org/project/news/

Release Infos:

- https://get.typo3.org/release-notes/11.x/TYPO3_CMS_11.0.0
- TYP03 v11 ChangeLog
- typo3/sysext/core/Documentation/Changelog/11.0/*

TYP03 Bug-/Issuetracker:

■ https://forge.typo3.org/projects/typo3cms-core

TYP03 and Fluid Git Repositories:

- https://git.typo3.org/Packages/TYPO3.CMS.git
- https://github.com/TYP03/Fluid



Sources and Authors

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

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