

# **TYP03 CMS 8.1 – Le novità**

RIASSUNTO DELLE FUNZIONALITÀ, MODIFICHE E AGGIORNAMENTI

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# TYPO3 CMS 8.1 - Le novità

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## Introduzione

### **I fatti in breve**

# Introduzione

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## TYPO3 CMS 8.1 - I fatti in breve

- Data di rilascio: 3 Maggio 2016
- Tipo di rilascio: Sprint Release
- Slogan: Tightening the screws



# Introduzione

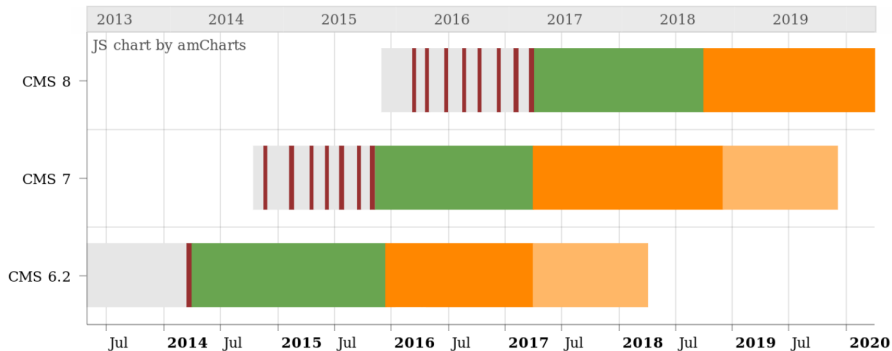
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## Requisiti di sistema

- PHP: versione 7
- MySQL: versione da 5.5 a 5.7
- Spazio disco: min 200 MB
- Impostazioni PHP:
  - `memory_limit`  $\geq$  128M
  - `max_execution_time`  $\geq$  240s
  - `max_input_vars`  $\geq$  1500
  - l'opzione di compilazione `--disable-ipv6` non deve essere usata
- Il Backend richiede Microsoft Internet Explorer 11 o superiore, Microsoft Edge, Google Chrome, Firefox, Safari o altro browser recente e compatibile

# Introduzione

## Sviluppo e tempi di rilascio



# Introduzione

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## TYPO3 CMS Roadmap

Date di rilascio stimate e loro obiettivo principale:

- v8.0 22/Mar/2016 Aggiunta di parti dell'ultimo momento
- v8.1 03/Mag/2016 **Integrazione cloud**
- v8.2 05/Lug/2016 Rich Text Editor
- v8.3 30/Ago/2016 Miglioramento dell'Editing da Frontend
- v8.4 18/Ott/2016 *da determinare*
- v8.5 20/Dic/2016 Supporto Integrazione
- v8.6 14/Feb/2017 *da determinare*
- v8.7 04/Apr/2017 Preparazione LTS

<https://typo3.org/typo3-cms/roadmap/>

<https://typo3.org/news/article/kicking-off-typo3-v8-development/>

# Introduzione

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## Installazione

- Procedura ufficiale di installazione su Linux/Mac OS X (Directory Root ad esempio `/var/www/site/htdocs`):

```
$ cd /var/www/site
$ wget --content-disposition get.typo3.org/8.0
$ tar xzf typo3_src-8.0.0.tar.gz
$ cd htdocs
$ ln -s ../typo3_src-8.0.0 typo3_src
$ ln -s typo3_src/index.php
$ ln -s typo3_src/typo3
$ touch FIRST_INSTALL
```

- Link simbolici in Microsoft Windows:
  - Usa `junction` in Windows XP/2000
  - Usa `mklink` in Windows Vista e Windows 7



# Introduzione

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## Aggiornamento a TYPO3 CMS 8.x

- Aggiornamenti possibili solo da TYPO3 CMS 7.6 LTS
- TYPO3 CMS < 7.6 LTS deve essere prima aggiornato a TYPO3 CMS 7.6 LTS
- Istruzioni per l'aggiornamento:  
[http://wiki.typo3.org/Upgrade#Upgrading\\_to\\_8.0](http://wiki.typo3.org/Upgrade#Upgrading_to_8.0)
- Guida ufficiale TYPO3 "TYPO3 Installation and Upgrading":  
<http://docs.typo3.org/typo3cms/InstallationGuide>
- Approccio generale:
  - Verifica i requisiti minimi di sistema (PHP, MySQL, etc.)
  - Verifica **deprecation\_\*.log** nella vecchia istanza TYPO3
  - Aggiorna tutte le estensioni all'ultima versione
  - Imposta il nuovo sorgente ed esegui Install Tool -> Upgrade Wizard
  - Verifica il modulo di startup per gli utenti di backend (opzionale)

# Introduzione

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## PHP Version 7

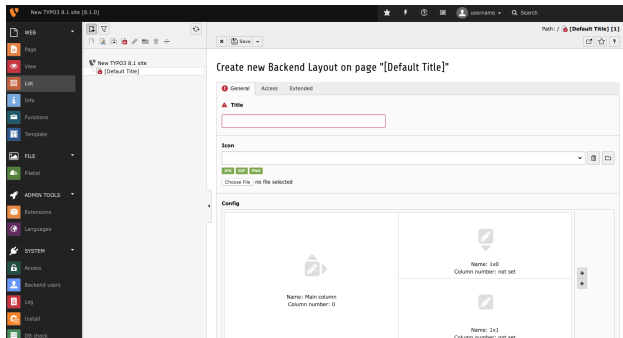
- PHP 7.0 è un requisito minimo per TYPO3 CMS 8.x
- TYPO3 supporterà i successivi rilasci di PHP 7 mano a mano che saranno pubblicati
- Questa versione fornisce un significativo incremento delle prestazioni del sistema
- Non solo gli editori di backend noteranno un'interfaccia più veloce, ma il tempo di caricamento di un'intera pagina di frontend in cache è inferiore a 7 millisecondi, che è circa il 40% più veloce paragonandolo allo stesso sito web con PHP versione 5.5
- Si sono iniziate ad utilizzare anche le nuove funzioni di questa versione di PHP, per esempio i generatori crittografici pseudo-casuali sono già in uso.

## Capitolo 1: Interfaccia utente Backend

# Interfaccia utente Backend

## Wizard inline per Backend Layout

Un nuovo tipo di visualizzazione è stato aggiunto per il wizard del backend layout con il FormEngine in modalità inline (in TCA: 'renderType' => 'belayoutwizard').



# Interfaccia utente Backend

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## Semplificazione cancellazione Cache

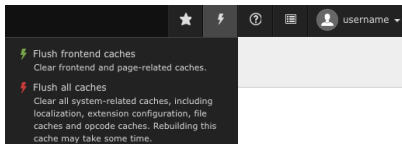
Il sistema di cancellazione della cache è stato semplificato rimuovendo le opzioni nel menu cache clear e nell'Install Tool.

- **Cancellazione della cache di frontend:**

Cancellazione della cache di frontend e delle pagine relative, come prima.

- **Cancellazione di tutte le cache:**

Cancellazione di tutte le cache di sistema, incluse le classi di caricamento, le traduzioni, file di configurazione delle estensioni e opcode cache. La ricostruzione di queste cache può impiegare un po' di tempo.



# Interfaccia utente Backend

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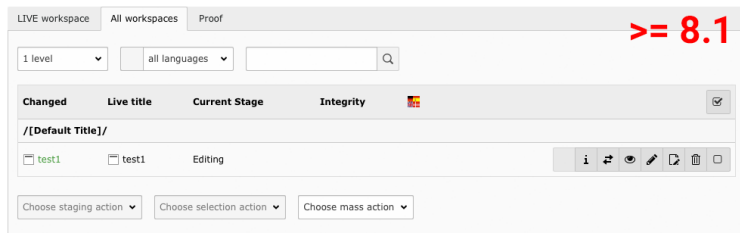
## Rielaborazione Workspaces (1)

- Il modulo di workspace per gestire i contenuti è stato riscritto e integrato molto meglio per quanto riguarda l'aspetto visivo nel backend
- Gli editori si renderanno conto immediatamente, si inserisce nel look generale basandosi su Twitter Bootstrap e jQuery
- Questo cambiamento porta anche un incremento delle prestazioni ed è un enorme passo avanti per un backend di TYPO3 più pulito e veloce con meno javascript.

# Interfaccia utente Backend

## Rielaborazione Workspaces (2)

Immagine del modulo di workspace:



The screenshot shows the workspace management interface for TYPO3 version 8.1 and above. It features a top navigation bar with tabs for "LIVE workspace", "All workspaces", and "Proof". A search bar is located below the tabs. The main content area displays a table with columns for "Changed", "Live title", "Current Stage", and "Integrity". A single row is visible with the title "test1" and the stage "Editing". Below the table, there are three dropdown menus for "Choose staging action", "Choose selection action", and "Choose mass action". A red annotation ">= 8.1" is placed in the top right corner of the interface.

Legend: **edited** • **moved** • **created** • **hidden** • **deleted**



The screenshot shows the workspace management interface for TYPO3 version 8.0 and below. It features a top navigation bar with tabs for "All workspaces", "LIVE workspace", and "Proof". A search bar is located below the tabs. The main content area displays a table with columns for "Changed", "Live-Title", "Current Stage", and "Actions". A single row is visible with the title "test13" and the stage "Editing". Below the table, there are five red 'x' icons. A red annotation "<= 8.0" is placed in the top right corner of the interface.

## Chapter 2: TSconfig & TypoScript



# TSconfig & TypoScript

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## Allow Asterisk for hideTables

- It is now possible to hide all tables in the list view via PageTS-Config
- In case integrators want to show a specific table only, they can hide all tables and unhide only the specific one:

```
mod.web_list {
    hideTables = *
    table.tx_cal_event.hideTable = 0
}
```

# Tsconfig & TypeScript

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## Multiple Locale Names for TypeScript `config.locale_all`

- TypeScript option `config.locale_all` now allows to set locale fallbacks as a comma-separated list, as the underlying PHP function `setlocale()` does as well:

```
config.locale_all = de_AT@euro, de_AT, de_DE, deu_deu
```

See <http://php.net/setlocale>

## Chapter 3: In-Depth Changes

# In-Depth Changes

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## PHP Library "Doctrine DBAL" (1)

- The PHP library "[Doctrine DBAL](#)" has been added via composer dependency to work as a powerful database abstraction layer with many features for database abstraction, schema introspection and schema management within TYPO3 CMS
- A TYPO3-specific PHP class called `TYPO3\CMS\Core\Database\ConnectionPool` has been added as a manager for database connections
- All connections configured under `$GLOBALS['TYPO3_CONF_VARS']['DB']['Connections']` are accessible using this manager, enabling the parallel usage of multiple database systems

# In-Depth Changes

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## PHP Library "Doctrine DBAL" (2)

- By using the database abstraction options and the QueryBuilder provided SQL statements being built will be properly quoted and compatible with different DBMS out of the box as far as possible
- Existing `$GLOBALS['TYPO3_CONF_VARS']['DB']` options have been removed and/or migrated to the new Doctrine-compliant options
- The `Connection` class provides convenience methods for insert, select, update, delete and truncate statements
- For select, update and delete only simple equality comparisons (like `WHERE "aField" = 'aValue'`) are supported. For complex statements it is required to use the QueryBuilder.

# In-Depth Changes

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## PHP Library "Doctrine DBAL" (3)

- The `ConnectionPool` class can be used like this:

```
// Get a connection which can be used for multiple operations
/** @var \TYPO3\CMS\Core\Database\Connection $conn */
$conn = GeneralUtility::makeInstance(ConnectionPool::class)->getConnectionForTable('aTable');
$affectedRows = $conn->insert(
    'aTable',
    $fields, // Associative array of column/value pairs, automatically quoted & escaped
);

// Get a QueryBuilder, which should only be used a single time
$query = GeneralUtility::makeInstance(ConnectionPool::class)->getQueryBuilderForTable('aTable');
$query->select('*')
    ->from('aTable')
    ->where($query->expr()->eq('aField', $query->createNamedParameter($aValue)))
    ->andWhere(
        $query->expr()->lte(
            'anotherField',
            $query->createNamedParameter($anotherValue)
        )
    )
$rows = $query->execute()->fetchAll();
```

# In-Depth Changes

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## Enhance SQL query reduction in page tree in workspaces

- The process of determining whether a page has workspace versions can be extended by custom application code utilizing hooks
- This way, the meaning of having versions can be further modified by hooks
- For instance the default behavior of the TYPO3 core is to create a workspace version record on persisting the same record in the backend - without any actual changes to the data model

```
$GLOBALS['TYPO3_CONF_VARS']['SC_OPTIONS']...  
...['TYPO3\CMS\Workspaces\Service\WorkspaceService']['hasPageRecordVersions'];
```

```
$GLOBALS['TYPO3_CONF_VARS']['SC_OPTIONS']...  
...['TYPO3\CMS\Workspaces\Service\WorkspaceService']['fetchPagesWithVersionsInTable']
```

# In-Depth Changes

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## PHP Library "Guzzle" (1)

- The PHP library "Guzzle" has been added via composer dependency to work as a feature rich solution for creating HTTP requests based on the PSR-7 interfaces already used within TYPO3
- Guzzle auto-detects available underlying adapters available on the system, like cURL or stream wrappers and chooses the best solution for the system
- A TYPO3-specific PHP class called `TYPO3\CMS\Core\Http\RequestFactory` has been added as a simplified wrapper to access Guzzle clients



# In-Depth Changes

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## PHP Library "Guzzle" (2)

- The RequestFactory class can be used like this:

```
// Initiate RequestFactory

/** @var \TYPO3\CMS\Core\Http\RequestFactory $requestFactory */
$requestFactory = GeneralUtility::makeInstance(
    \TYPO3\CMS\Core\Http\RequestFactory\RequestFactory::class);

$suri = $additionalOptions = [
    // additional headers for this specific request
    'headers' => ['Cache-Control' => 'no-cache'],
    'allow_redirects' => false,
    'cookies' => true
];

// return a PSR-7 compliant response object
$response = $requestFactory->request($url, 'GET', $additionalOptions);

// get the content as a string on a successful request
if ($response->getStatusCode() === 200) {
    if ($response->getHeader('Content-Type') === 'text/html') {
        $content = $response->getBody()->getContents();
    }
}
```

## Chapter 4: Deprecated/Removed Functions

# Deprecated/Removed Functions

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## Http-related options and HttpRequest class removed (1)

- The following PHP classes have been **removed**:
  - TYPO3\CMS\Core\Http\HttpRequest
  - TYPO3\CMS\Core\Http\Observer\Download
- The following options have been **renamed**:
  - old: `$TYPO3_CONF_VARS[HTTP][userAgent]`  
new: `$TYPO3_CONF_VARS[HTTP][headers][User-Agent]`
  - old: `$TYPO3_CONF_VARS[HTTP][protocol_version]`  
new: `$TYPO3_CONF_VARS[HTTP][version]`

# Deprecated/Removed Functions

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## Http-related options and HttpRequest class removed (2)

- All proxy-related options are unified within `$TYPO3_CONF_VARS[HTTP][proxy]`
- All redirect-related options (`HTTP/follow_redirects`, `HTTP/max_redirects`, `HTTP/strict_redirects`) are unified within `$TYPO3_CONF_VARS[HTTP][allow_redirects]`
- All options related to SSL private keys (`HTTP/ssl_local_cert`, `HTTP/ssl_passphrase`) are merged into `$TYPO3_CONF_VARS[HTTP][ssl_key]`
- All options related to verify SSL peers are merged into `$TYPO3_CONF_VARS[HTTP][verify]`

# Deprecated/Removed Functions

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## Http-related options and HttpRequest class removed (3)

- The following configuration options have been **removed**:

```
$TYPO3_CONF_VARS[SYS][curlProxyNTLM]
$TYPO3_CONF_VARS[SYS][curlProxyServer]
$TYPO3_CONF_VARS[SYS][curlProxyTunnel]
$TYPO3_CONF_VARS[SYS][curlProxyUserPass]
$TYPO3_CONF_VARS[SYS][curlTimeout]
$TYPO3_CONF_VARS[HTTP][adapter]
$TYPO3_CONF_VARS[HTTP][protocol_version]
$TYPO3_CONF_VARS[HTTP][follow_redirects]
$TYPO3_CONF_VARS[HTTP][max_redirects]
$TYPO3_CONF_VARS[HTTP][strict_redirects]
$TYPO3_CONF_VARS[HTTP][proxy_host]
$TYPO3_CONF_VARS[HTTP][proxy_port]
$TYPO3_CONF_VARS[HTTP][proxy_user]
$TYPO3_CONF_VARS[HTTP][proxy_password]
$TYPO3_CONF_VARS[HTTP][proxy_auth_scheme]
```

# Deprecated/Removed Functions

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## Http-related options and HttpRequest class removed (4)

- The following configuration options have been **removed**:

`$TYPO3_CONF_VARS[HTTP][ssl_verify_peer]`

`$TYPO3_CONF_VARS[HTTP][ssl_verify_host]`

`$TYPO3_CONF_VARS[HTTP][ssl_cafile]`

`$TYPO3_CONF_VARS[HTTP][ssl_capath]`

`$TYPO3_CONF_VARS[HTTP][ssl_local_cert]`

`$TYPO3_CONF_VARS[HTTP][ssl_passphrase]`

`$TYPO3_CONF_VARS[HTTP][userAgent]`

## Chapter 5: Sources and Authors

# Sources and Authors

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## Sources

### TYPO3 News:

- <http://typo3.org/news>

### Release Infos:

- [http://wiki.typo3.org/TYPO3\CMS\\_8.1.0](http://wiki.typo3.org/TYPO3\CMS_8.1.0)
- [INSTALL.md](#) and [Changelog](#)
- `typo3/sysex/core/Documentation/Changelog/8.1/*`

### 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/TYPO3Fluid/Fluid>



# Sources and Authors

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## TYPO3 CMS What's New Team:

Andrey Aksenov, Pierrick Caillon, Sergio Catala, Jigal van Hemert,  
Patrick Lobacher, Michel Mix, Sinisa Mitrovic, Angeliki Plati,  
Nena Jelena Radovic, Michael Schams and Roberto Torresani

<http://typo3.org/download/release-notes/whats-new>

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