

# **EXT: Universal Formhandler**

Extension Key: formhandler

Language: en

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# Introduction

This extension was initially developed by Reinhard Führicht for Typoheads (www.typoheads.at). After the initial upload to Forge, the development team got enriched by Fabien Udriot and Johannes Feustel. If you want to participate, report bugs or demand additional features please use the possibilities of Forge (forge.typo3.org).

If you like this extension and want to encourage development of new features, feel free to write an email to office(at) typoheads.at to receive details about donation process.

### What does it do?

When you reach the limits of the standard mailform functionality of TYPO3 (especially when you want the form to look special) you can use this extension to use your conventional HTML-forms (as HTML-snippets) with full mailform functionality.

This extension is considered as the follow-up to th\_mailformplus, including nearly all the features of th\_mailformplus and many more new features having a completely new architecture and code. The result is a very flexible approach to form handling.

The new architecture and TypoScript configuration makes it possible to easily control the processing of the form by adding an infinite number of validators and interceptors to filter form input. After successful form submission you can add special interceptors to sanitize input values for final processing in the so called "finishers". Finishers are used to save data into DB, send emails, redirect to another page, etc. Have a look at the available classes described in this manual. If you miss a feature, you can easily write your own class and plug it into MailformPlus MVC processing. After having read the manual and looked into the code documentation, you will see how your own classes can be integrated into MailformPlus MVC.

Please visit the extension's section on forge to post feature requests or report bugs.

http://forge.typo3.org/projects/show/extension-formhandler

**Note**: This extension requires PHP 5.2 or higher.

#### **Features**

- · HTML-Template based
- Server side error checks
- Send submitted values as e-mail
- · Redirect to a page after successful submission
- · Store submitted data in DB
- Captcha support (captcha, sr freecap, jm recaptcha, mathguard, wt calculating captcha)
- Multipage forms
- HTML mails, plain text mails, multipart mails (HTML+plain)
- File upload handling
- Multipage forms with conditions (branches)
- Frontend multilanguage support
- Backend module to manage and export submitted data (PDF,CSV)
- ..

#### Goals

This extension's architecture is designed to be as modular as possible making it easy to perform changes and

TYPO3 EXT: Universal Formhandler - formhandler This extension's architecture is designed to be as modular as possible making it easy to perform changes and add new features. As every form needs different configuration than another form, there are many different "blocks" which can be stuck together fulfilling almost all needs.

add new features. As every form needs different configuration than another form, there are many different "blocks" which can be stuck together fulfilling almost all needs.

## Comparison to th\_mailformplus

Formhandler is considered a follow-up to th\_mailformplus. th\_mailformplus has started with a very basic feature set and has grown to a huge extension over the years. The code got kind of unmaintainable and it was time to change the architecture to be quicker spotting and fixing bugs and to offer a whole new experience of flexibility. For a guide on how to upgrade TypoScript configuration from th\_mailformplus to Formhandler have a look at the section "How to upgrade from th\_mailformplus to Formhandler".

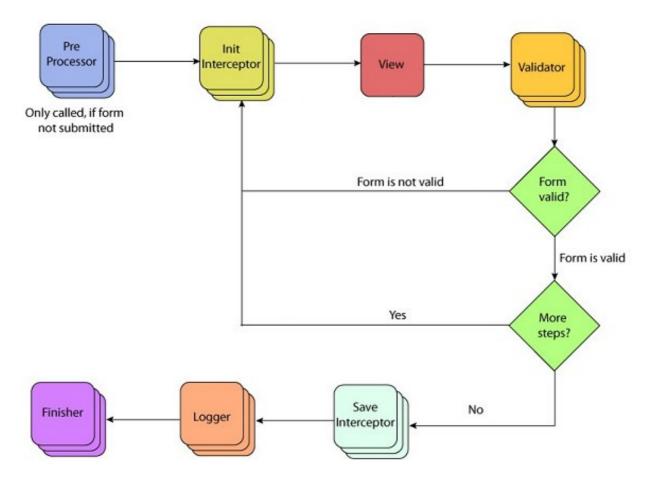
First of all Formhandler has a more up-to-date architecture, which allows a more modular approach having different classes for different tasks. Another advantage of this architecture is a smaller code base making updates and adding of additional features much less time consuming.

Compared to th\_mailformplus Formhandler offers much more flexibility. The modular approach allows the user to add an infinite number of either predefined or self written classes to processing (PreProcessors, Interceptors, Validators, Finishers). When you are not satisfied with the features Formhandler has to offer, you can easily write your own class and add it to the rendering process without changing a single line in the PHP code of Formhandler.

Have a look at the section "How does this extension work?" and the TypoScript configuration options. For a more practical way of explanation, have a look at the "How to ..." sections at the end of the manual or the folder "Examples" in the extension directory.

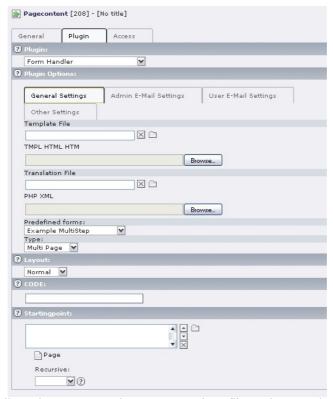
TYPO3 EXT: Universal Formhandler - formhandler Have a look at the section "How does this extension work?" and the TypoScript configuration options. For a more practical way of explanation, have a look at the "How to ..." sections—at the end of the manual or the folder "Examples" in the extension directory.

## Screenshots

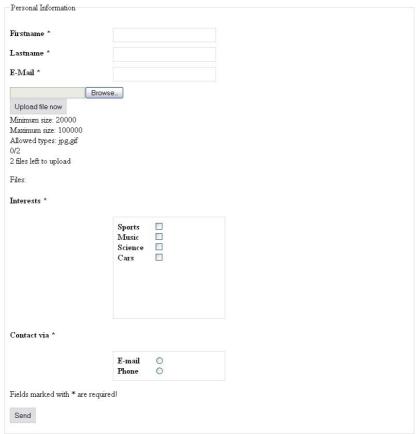


This is how Formhandler works. Quite simple, isn't it? For more information about the rendering process have a look at the section "How does this extension work?".

TYPO3 EXT: Universal Formhandler - formhandler The Plugin view of Formhandler. The user can choose a template file and a translation file. Furthermore the user can enter settings for E mail submission and redirection.



The Plugin view of Formhandler. The user can choose a template file and a translation file. Furthermore the user can enter settings for E-mail submission and redirection.



A form generated with Formhandler having file uploads handling and error checks.



# Users manual

## Create template

To create a form using Formhandler you will first have to write a HTML template file containing the code of your form. You will have to follow certain rules, so that Formhandler will be able to detect the suitable subparts for each situation. For an overview of how to create a form template have a look at the sections "How to set up a simple form" and "Available markers to use in subparts" or check the demo templates located at EXT:formhandler/Examples/

## Create translation file

In order to use error messages for your fields and to be able to use multilanguage labels, you have to write a translation file. We decided to make translation files kind of obligatory because it's just nicer. So if you want your form to be fully functional, we recommend to use a translation file. A little tutorial on how to use those translations is in section "How to set up multilanguage forms".

## Create a Plugin Record

Create a new page and create a content element. Choose type "General plugin". In the section "Plugin" now choose "Formhandler" as plugin type. Now you are able to select your template file and translation file as well as setting options for e-mail sending, basic "required" error checks and a redirect page after successful submission of the form. When creating a new record, the default predefined form is selected. To add your own predefined form, you should add a new TypoScript template.



Enter your options and save.

# Create a TypoScript setup

If you want to use the whole power of Formhandler you should use TypoScript to configure your form. Many different examples are available at EXT:formhandler/Examples/

Tips and tricks: It is sometimes more convenient to edit the TypoScript in an external file. This is particularly true for big typoscript chunk. To do this, insert in a suitable typoscript template (can be the root or a local TS template):

<INCLUDE\_TYPOSCRIPT: source="FILE:fileadmin/templates/mailform/setup.ts">

Then, you could add this line to your user profile / group to avoid clearing the cache all the time.

admPanel.override.tsdebug.forceTemplateParsing = 1

# FAQ

Feel free to contribute on http://forge.typo3.org/projects/extension-formhandler/issues



# Administration

Not much to say here. Have a look at the sections "Available subparts to use in the template", "Available markers to use in subparts", the TypoScript reference and the available error checks and you will be fine.

For better understanding the rendering process of this extension will be explained in more detail.

## How does this extension work?

The process of rendering a form got simplified to the following simple tasks:

– Preprocessing:

Do some work before the form is shown, when the page is loaded for the first time (no submission took place). This can be used to load default values for fields or other tasks.

Intercepting:

Before the form is shown, there may be a need to intercept and do something with the previously entered data. Formhandler uses this for doing XSS checks. Formhandler knows two types of interceptors, InitInterceptors and SaveInterceptors. InitInterceptors are called everytime before the form is shown, SaveInterceptors are called when the form got submitted successfully right before the Finishers are called.

– Validating:

After form submission there has to be a possibility to validate the input.

Finishing

After successful form submission there may be several tasks to perform, such as saving the input data to database or sending emails.

Any of these mentioned tasks can take more than one class that are called seperately.

A little example:

```
finishers {
    1 {
      class = Finisher_DB
      config {
          ...
      }
    }
    2 {
      class = Finisher_Mail
      config {
          ...
      }
    }
    class = Finisher_Redirect
    config {
      ...
      }
    }
}
```

As you see, there are several Finishers defined, which perform different tasks. It is kind of a Finisher chain, so that any number of tasks can be performed. The first Finisher will store the submitted data into a defined database table, the second will send emails to users or administrators, the third will redirect to another page. The idea of creating chains of classes is also possible for PreProcessors, Interceptors and Validators.



# Configuration

# Reference

#### Important Note:

Formhandler requires to enter class names of components to perform different tasks.

## Example:

```
finishers.1.class = Tx_Formhandler_Finisher_Mail
```

To make the usage easier, it is not needed to prefix the classes with Tx\_Formhandler\_ in TypoScript:

```
finishers.1.class = Finisher Mail
```

## **General Options**

| Property:          | Data<br>type:                 | Description:   | Default: |
|--------------------|-------------------------------|--|----------|
| templateFile       | String / TS<br>object         | Path to template file or template code   |          |
| masterTemplateFile | String/TS<br>object/Arr<br>ay | Path to master template file. See section How to use a master template for details.  Example:  #single master template masterTemplateFile = fileadmin/templates/formmaster.html  #use a cObject masterTemplateFile = TEXT masterTemplateFile {     value = fileadmin/mymastertemplate.html }  #multiple master templates masterTemplateFile {     1 = fileadmin/templates/formmaster.html     2 = fileadmin/templates/master_for_contactform.html }  #use cObjects for multiple master templates masterTemplateFile {     1 = TEXT     1.value = fileadmin/templates/formmaster.html     2 = fileadmin/templates/master_for_contactform.html } |          |



| Property:              | Data<br>type:    | Description:  | Default: |
|------------------------|------------------|---|----------|
| langFile               | String/TS        | Path to language files  |          |
|                        | object/Arr<br>ay | Example:  |          |
|                        |                  | <pre>#single lang file langFile = fileadmin/lang/shared.xml</pre>   |          |
|                        |                  | <pre>#use a cObject langFile = TEXT langFile.value = fileadmin/lang/shared.xml</pre>  |          |
|                        |                  | <pre>#multiple lang files langFile {   1 = fileadmin/lang/shared.xml   2 = fileadmin/lang/forms/mailformxy.xml</pre>  |          |
|                        |                  | <pre>#use cObjects for multiple master templates langFile {   1 = TEXT</pre>  |          |
|                        |                  | <pre>1.value = fileadmin/lang/shared.xml 2 = fileadmin/lang/forms/mailformxy.xml }</pre>  |          |
| additionalIncludePaths | Array            | The component manager will search in paths enteres here for classes.  |          |
|                        |                  | Example:  |          |
|                        |                  | <pre>plugin.Tx_Formhandler.settings {   additionalIncludePaths {</pre>  |          |
|                        |                  | <pre>1 = fileadmin/templates/scripts } </pre>   |          |
|                        |                  | If you use "predef" for your form, you can also use it for "additionalIncludePaths":  |          |
|                        |                  | <pre>plugin.Tx_Formhandler.settings.predef.example {   additionalIncludePaths {     1 = fileadmin/templates/scripts }</pre>   |          |
|                        |                  | }   |          |
|                        |                  | NOTE: additionalIncludePaths on global level and additionalIncludePaths on predef level will be merged. So you can define include paths for all your forms and special ones for single forms. |          |
|                        |                  | Use this if you create your own components and don't want to create an extension for that. (See section How to use your own components for details)   |          |
| cssFile                | String/Arra      | Path to stylesheet file(s).   |          |
|                        | У                | Example:  |          |
|                        |                  | cssFile = fileadmin/css/forms.css   |          |
|                        |                  | <pre>cssFile {   1 = fileadmin/css/forms.css   2 = fileadmin/css/contactform.css</pre>  |          |
| jsFile                 | String/Arra      | Path to JavaScript file(s).   |          |
| -                      | у                | Example:  |          |
|                        |                  | <pre>jsFile = fileadmin/js/jquery.js</pre>  |          |
|                        |                  | <pre>jsFile {   1 = fileadmin/js/jquery.js   2 = fileadmin/js/jquery_plugin.js</pre>  |          |
|                        |                  | }   |          |



| Property:                                   | Data<br>type:                  | Description:  | Default:                                  |
|---|--------------------------------|---|---|
| view  | String                         | Classname of the view to be used  | Tx_Formhandle<br>r_View_Default           |
| controller                                  | String                         | Classname of the controller to be used  | Tx_Formhandle<br>r_Controller_De<br>fault |
| formValuesPrefix                            | String                         | Prefix of form fields. Use this if you use a prefix for your forms to avoid conflicts with other plugins. Settings this option you will be able to use only the fieldname in all markers and do not need to add prefix. |   |
|   |                                | NOTE: It is highly recommended to use this setting!   |   |
|   |                                | <pre>Example:</pre>   |   |
|   |                                | If you do not set formValuesPrefix, you will not be able to use the marker ###value_email###.   |   |
| debug                                       | Boolean<br>(0,1)               | Toggle debug mode, which will print debug messages to screen  | 0   |
| storeGP                                     | Boolean<br>(0,1)               | If set, stores the GET / POST variables in the session. May be useful for using those values on an other page. Automatically runs Finisher_StoreGP.   | 0   |
| requiredSign                                | String/cOb<br>j                | Enter some text which will be used to substitute markers like ###required_[fieldname]###.   | *   |
| singleErrorTemplate.total<br>Wrap           | wrap                           | Enter something to be wrapped around the error messages of a single form field.   |   |
| singleErrorTemplate.singl<br>eWrap          | wrap                           | Enter something to be wrapped around each error message of a single form field.   |   |
| singleErrorTemplate.add<br>DefaultMessage   | Boolean                        | Adds the error message found in 'error_[fieldname]' in the language file at any time.   |   |
| errorListTemplate.totalWr ap                | wrap                           | Enter something to be wrapped around the error message list of all form fields.   |   |
| errorListTemplate.single<br>Wrap            | wrap                           | Enter something to be wrapped around the error messages of a single form field in the list of all form fields.  |   |
| singleFileMarkerTemplate<br>.totalWrap      | wrap                           | Enter something to be wrapped around the full list of filenames in a file marker for a single form field.   |   |
| singleFileMarkerTemplate<br>.singleWrap     | wrap                           | Enter something to be wrapped around each filename in a file marker for a single form field.  |   |
| singleFileMarkerTemplate<br>.showThumbnails | Boolean/in<br>teger<br>(0/1/2) | Shows thumbnail of uploaded file instead of filename. Set to 2 to display thumbnail and filename.   | 0   |
| singleFileMarkerTemplate .image             | IMAGE                          | IMAGE object for thumbnail generation. Image.file gets inserted by Formhandler  |   |
| totalFilesMarkerTemplate.<br>totalWrap      | wrap                           | Enter something to be wrapped around the full list of filenames in a file marker for all form fields.   |   |
| totalFilesMarkerTemplate.<br>singleWrap     | wrap                           | Enter something to be wrapped around each filename in a file marker for all form fields.  |   |
| totalFilesMarkerTemplate.<br>showThumbnails | Boolean/in<br>teger<br>(0/1/2) | Shows thumbnail of uploaded file instead of filename. Set to 2 to display thumbnail and filename.   | 0   |
| files.uploadFolder                          | String                         | Path to a custom upload folder  | uploads/formha<br>ndler/tmp               |
| files.enableAjaxFileRemo<br>val             | Boolean<br>(0/1)               | You need to use an AjaxHandler for this feature.  |   |
|   |                                | Adds a remove link to every filename in ###[fieldname]_uploadedFiles### and ###total_uploadedFiles###. Unfortunately other markers like ###[fieldname]_fileCount### will not be updated at the moment.                  |   |



| Property: Data                        |                  | Description:  | Default: |
|---------------------------------------|------------------|---|----------|
|                                       | type:            |   |          |
| files.enableFileRemoval               | Boolean<br>(0/1) | Enables file removal without using an AjaxHandler. It will just display an "X" or anything entered in "files.customRemovalText" next to a file name of an uploaded file, so the user can remove it.   |          |
| files.customRemovalText               | String/cOb<br>j  | Enter a custom text shown as the text of the remove link. Used in combination with "enableAjaxFileRemoval".   | Х        |
| markers.[markername]                  | mixed            | Define your own custom markers and fill them using TypoScript.  |          |
| checkBoxFields                        | String           | Comma seperated list of field names which contain checkbox values. This is needed for multipage forms in order to ensure correct submission of these values from step to step. Please enter all checkbox field names in here. Set this option per step.   |          |
|                                       |                  | Example:  |          |
|                                       |                  | <pre>plugin.Tx_Formhandler.settings {</pre>   |          |
|                                       |                  | <pre># Checkbox fields in step 1 1.checkBoxFields = interests, hobbies</pre>  |          |
|                                       |                  | <pre># Checkbox fields in step 2 2.checkBoxFields = work_experience,accounts }</pre>  |          |
| addErrorAnchors                       | Boolean<br>(0/1) | If you use ###error### and error markers for each field, you can enable this settings to add anchor links to each message in ###error###. The anchors will point to the messages in ###error_[fieldname]###.  |          |
| predef                                | Array            | Predefine form settings and make them selectable in plugin record. Have a look at the section "How to use predefined forms"   |          |
| isErrorMarker                         | array            | Configure replacements for ###is_error_[fieldname]### markers.  |          |
|                                       |                  | Example   |          |
|                                       |                  | <pre>plugin.Tx_Formhandler.settings {   isErrorMarker {     global = Global message if an error occurred   (filled into ###is_error###)     default = class="error" (filled into ###is_error_[fieldname]###     field1 = TEXT     field1.value = Some message (filled into ###is_error_field1###)   } }</pre> |          |
| fillValueMarkersBeforeLa<br>ngMarkers | Boolean<br>(0/1) | If set to 1, the value markers (###value_[field]###) are replaced before the language markers (###LLL:[field]###).  | 0        |
| arrayValueSeparator                   | String/cOb<br>j  | If using f.e. A checkbox array named "cb", the marker ###value_cb### will contain a comma separated list of the selected values. Use this option to specifiy your own separator.  | ,        |
|                                       |                  | Example:  |          |
|                                       |                  | <pre>plugin.Tx_Formhandler.settings {    arrayValueSeparator =   }</pre>  |          |
|                                       | I                |   |          |

[plugin.Tx\_Formhandler .settings]

## **General Options for any component**

Any component and complete component arrays can be disabled via TypoScript.

## **Examples**



```
plugin.Tx_Formhandler.settings {
  validators.1.class = Validator Default
  validators.1.disable = 1
 validators.1.config.fieldConf {
    company.errorCheck.1 = required
    name.errorCheck.1 = required
  finishers {
    disable = 1
    1.class = Finisher Mail
    1.config {
      admin {
        to_email = rf@typoheads.at
        subject = TEXT
        subject.data = LLL:fileadmin/templates/ext/formhandler/lang.xml:email_admin_subject
        sender email = email@example.tld
        attachment = picture
      user {
        to email = email
        \overline{\text{subject}} = \text{TEXT}
        subject.data = LLL:fileadmin/templates/ext/formhandler/lang.xml:email user subject
        sender_email = email@example.tld
    2.class = Finisher SubmittedOK
    2.config {
      returns = 1
```

#### Loggers

| Property: | Data<br>type: | Description:   | Default: |
|-----------|---------------|--|----------|
| x.class   | String        | Enter as many loggers as you like. Each entry requires a class   |          |
| x.config  | Array         | name of the logger. Optional you can enter specific configuration for the logger in the confg section. |          |
|           |               | Example:   |          |
|           |               | <pre>loggers.1 {   class = Tx_Formhandler_Logger_DB }</pre>  |          |
|           |               | loggers.2 {    class = Tx_MyPackage_Logger   |          |
|           |               | <pre>config {    table = tx_mypackage_log }</pre>  |          |
|           |               | }  |          |

[plugin.Tx\_Formhandler .settings.loggers]

NOTE: The Logger\_DB will log into database and store the UID of the inserted record into the user session. You can access this UID later on using:

```
$data = $GLOBALS['TSFE']->fe_user->sesData;
$uid = $data['inserted uid'];
```

NOTE: The Logger\_DB will be added by the controller automatically, so you don't have to specify it. However this not valid for the loggers setting of Interceptor AntiSpamFormTime and Interceptor IPBlocking!

#### Logger\_DB

Will log into tx\_formhandler\_log. Logging can be accessed via the "Formhandler" backend module.



#### Logger\_DevLog

Will log into the devlog table. Use an extension like "devlog" to access the logged messages.

#### **PreProcessors**

| Property: | Data<br>type: | Description:  | Default: |
|-----------|---------------|---|----------|
| x.class   | String        | Enter as many pre processors as you like. Each entry requires a   |          |
| x.config  | Array         | class name of the pre processor. Optional you can enter specific configuration for the pre processor in the confg section. The pre processors are called only the first time the form is shown. |          |
|           |               | Example: preProcessors.1 {  |          |
|           |               | <pre>class = Tx_Formhandler_PreProcessor_LoadGetPost } preProcessors.2 {</pre>  |          |
|           |               | <pre>class = Tx_MyPackage_PreProcessor config {    param = value</pre>  |          |
|           |               | }   |          |

[plugin.Tx\_Formhandler .settings.preProcessors]

#### PreProcessor\_LoadDefaultValues

Prefills form fields with configured values. Config is done for each step and for each form field. If you aim to prefill dynamically a dropdown menu (e.g. from the datebase), refer to the section "How to fill your own markers via TypoScript". There is a neat example about how to generate the "option" tags.

### Example:

plugin.Tx\_Formhandler.settings.preProcessors.x.class = Tx\_Formhandler\_PreProcessor\_LoadDefaultValues plugin.Tx\_Formhandler.settings.preProcessors.x.config.[x].[fieldname].

| Property:    | Data type:                 | Description:                                 | Default: |
|--------------|----------------------------|--|----------|
| defaultValue | String   TypoScript Object | Field will be filled with this default value | -        |

#### **PreProcessor ClearTempFiles**

Clears temporary uploaded files older than a specified time.

#### Example:



preProcessors {

```
1.class = Tx_Formhandler_PreProcessor_ClearTempFiles
1.config {
    clearTempFilesOlderThan {
      value = 24
      unit = hours
    }
}

[
plugin.Tx_Formhandler.settings.preProcessors.x.class = Tx_Formhandler_PreProcessor_ClearTempFiles
plugin.Tx_Formhandler.settings.preProcessors.x.config.[x].[fieldname].
```

| Property:                         | Data type: | Description:   | Default |
|-----------------------------------|------------|--|---------|
| clearTempFilesOlderThan.val<br>ue | int        | Value of the time                                      | -       |
| clearTempFilesOlderThan.uni<br>t  | string     | Unit of the time. Values may be minutes, hours or days | hours   |

#### PreProcessor\_LoadGetPost

Loads GET/POST values.

The controller clears GET/POST params when the form is called for the first time. If you want to pass values to the form, you can insert this preProcessor to load the values.

This component doesn't need any further configuration.

#### PreProcessor\_LoadDB

Prefills form fields with values from configured database fields. Config is done for each step and for each form field.

### Example:

| Property: | Data type:                 | Description:                    | Default: |
|-----------|----------------------------|---------------------------------|----------|
| mapping   | String   TypoScript Object | Field name.                     | -        |
| Separator | String   TypoScript Object | The field separator, e.g. comma |          |

plugin.Tx\_Formhandler.settings.preProcessors.x.class = Tx\_Formhandler\_PreProcessor\_LoadDB plugin.Tx\_Formhandler.settings.preProcessors.x.config.select.

| Property:    | Data type:                 | Description:                            | Default: |
|--------------|----------------------------|---|----------|
| selectFields | String   TypoScript Object |   | *        |
| table        | String   TypoScript Object | The table to fetch data from. Required. |          |
| where        | String   TypoScript Object |   |          |



| groupBy | String   TypoScript Object |  |
|---------|----------------------------|--|
| orderBy | String   TypoScript Object |  |
| limit   | String   TypoScript Object |  |

## **Interceptors**

| Property: | Data<br>type: | Description:  | Default: |
|-----------|---------------|---|----------|
| x.class   | String        | Enter as many interceptors as you like. Each entry requires a   |          |
| x.config  | Array         | class name of the interceptor. Optional you can enter specific configuration for the interceptor in the confg section. The init interceptors are called everytime before the form is shown. |          |
|           |               | Example:  |          |
|           |               | <pre>initInterceptors.1 {     class = Tx_Formhandler_Interceptor_Filtreatment } initInterceptors.2 {     class = Tx_MyPackage_ Interceptor     config {         param = value</pre>         |          |
|           |               | }   |          |

[plugin.Tx\_Formhandler.settings.initInterceptors]

| Property: | Data<br>type: | Description:   | Default: |
|-----------|---------------|--|----------|
| x.class   | String        | Enter as many interceptors as you like. Each entry requires a  |          |
| x.config  | Array         | class name of the interceptor. Optional you can enter specific configuration for the interceptor in the confg section. The save interceptors are called before the finishers are executed. |          |
|           |               | <pre>Example: saveInterceptors.1 {    class = Tx_Formhandler_Interceptor_Default } saveInterceptors.2 {    class = Tx MyPackage Interceptor</pre>  |          |
|           |               | <pre>config {    param = value   } }</pre>   |          |

[plugin.Tx\_Formhandler.settings.saveInterceptors]

#### Interceptor\_Filtreatment

Removes malicious code from submitted values to prevent XSS attacks. This Interceptor is added automatically by Formhandler. It removes malicious code and by default some characters from the input values. For a list of characters, which will be removed, have a look at the following configuration section.

You can use the removeChars setting to remove bad words or characters by entering a comma seperated list or using a cObject like USER to connect to a service.

#### Example:

```
plugin.Tx_Formhandler.settings.initInterceptors.1.class = Tx_Formhandler_Interceptor_Filtreatment
plugin.Tx_Formhandler.settings.initInterceptors.1.config.fieldConf {
    name.removeChars = %, &, /
    email.removeChars = TEXT
    email.removeChars.value = , |<|>
    email.separator = |
    company = USER
    company.userFunc = user_myClass->user_getRemoveWords
}
```



plugin.Tx\_Formhandler.settings.initInterceptors.x.class = Tx\_Formhandler\_Interceptor\_Filtreatment plugin.Tx\_Formhandler.settings.initInterceptors.x.config.

| Property: | Data type: | Description:   | Default:   |
|-----------|------------|--|--|
| fieldConf | array      | Settings per form field.  Key = field name or "global" Value = comma seperated list or cObject.  Just configure "removeChars.disable=1" per field or globally to disable the removal. If you set specific configuration for a single field, the removal will take place even if it is disabled globally.  Example:  fieldConf {     global.removeChars.disable = 1      email.removeChars = a,b,c     company.removeChars = , * < >     company.removeChars = TEXT     subject.removeChars.value = 3f4f5     subject.separator = f } | Default<br>removal<br>characters<br>for each field<br>are:<br><<br>> |

#### Interceptor\_IPBlocking

If you do not want to use Captcha for your form, you can control how often the form is allowed to be submitted by a single IP address or in total with this class.

plugin.Tx\_Formhandler.settings.initInterceptors.x.class = Tx\_Formhandler\_Interceptor\_IPBlocking plugin.Tx\_Formhandler.settings.initInterceptors.x.config.

| Property:             | Data type:      | Description:  | Default: |
|-----------------------|-----------------|---|----------|
| redirectPage          | int/string/cObj | Page ID or URL to redirect to. If a user is blocked from submiting the form, he gets redirected to this page.   | -        |
| report                | array           | If a user gets blocked from submitting the form, a report email is sent to the configured recipient.  | -        |
| report.email          | string          | Comma seperated list of recipients.   |          |
| report.subject        | string          | Subject of the report mail  |          |
| report.sender         | string          | Email address to be set as sender of the report mail.   |          |
| report.interval       | array           | To prevent the recipient of the report mails to get spammed with report mails, you can configure the interval. A report mail will be sent only once during the interval for a single alert. |          |
| report.interval.value | int             | Value   |          |
| report.interval.unit  | string          | And unit for the interval. Unit can be seconds,minutes,hoursand days  |          |
| ip                    | array           | Settings for limiting submission for an IP address  |          |



| ip.threshold      | int    | The amount of submissions for an IP address in the given period of time                               |  |
|-------------------|--------|---|--|
| ip.timebase.value | int    | Value   |  |
| ip.timebase.unit  | string | And unit for the mentioned period of time Unit can be seconds,minutes,hoursand days                   |  |
| global            | array  | Settings for limiting submissions for a form.  SAME SETTINGS AS FOR IP.                               |  |
| loggers           | array  | Same as for the global loggers.  Example: loggers {   1.class = Logger_DB   2.class = Logger_DevLog } |  |

#### Interceptor\_ParseValues

Parse formatted values. Currently only floats such as "1.022.000,76 EUR". See unittest file for detailed examples. Attention: x.xxx.xxx gets parsed to xxxxxxx but xx.xx to xx.xx.

```
plugin.Tx_Formhandler.settings.saveInterceptors.x.class = Tx_Formhandler_Interceptor_ParseValues plugin.Tx_Formhandler.settings.saveInterceptors.x.config.
```

| Property:        | Data type: | Description:                             | Default: |
|------------------|------------|--|----------|
| parseFloatFields | string     | Comma seperated list of fields to parse. | -        |

#### Interceptor\_AntiSpamFormTime

Spam protection for the form withouth Captcha. It parses the time the user needs to fill out the form. If the time is below a minimum time or over a maximum time, the submission is treated as Spam.

If Spam is detected you can redirect the user to a custom page or use the Subpart ###TEMPLATE\_ANTISPAM### to just display something.

IMPORTANT: You will need a form field named "formtime" containing a timestamp in your form. To do this you can use the marker ###TIMESTAMP###.

#### Example:

```
<input type="hidden" name="formhandler[formtime]" value="###TIMESTAMP###" />
```

plugin.Tx\_Formhandler.settings.saveInterceptors.x.class = Tx\_Formhandler\_Interceptor\_AntiSpamFormTime plugin.Tx\_Formhandler.settings.saveInterceptors.x.config.

| Property:     | Data type: | Description:   | Default: |
|---------------|------------|--|----------|
| minTime.value | int        | value  | -        |
| minTime.unit  | string     | unit for the minimum<br>time.<br>Unit can be<br>seconds,minutes,hoursand<br>days | -        |



| maxTime.value | int    | value   | - |
|---------------|--------|---|---|
| maxTime.unit  | string | unit for the minimum time.  | - |
|               |        | Unit can be seconds,minutes,hoursand days   |   |
| redirectPage  | mixed  | Page ID or URL to redirect in case Spam is detected   |   |
| loggers       | array  | Same as for the global loggers.  Example: loggers {   1.class = Logger_DB   2.class = Logger_DevLog |   |
|               |        | }   |   |

#### Interceptor\_CombineFields

With this interceptor you can combine values of different form fields into a new field, which will be accessible by other components later.

#### Example:

| Property:                                     | Data type:    | Description:   | Default:        |
|---|---------------|--|-----------------|
| combineFields                                 | array         | Array containing options which fields to combine.  | -               |
|   |               | Scheme:  |                 |
|   |               | <pre>[newFieldname] {    [options] }</pre>   |                 |
| combineFields.<br>[fieldname].fields          | array         | Array containing existing field names. The values of these fields will be combined into the new field [fieldname]. |                 |
| combineFields.<br>[fieldname].separator       | string        | Set the separator to use when combining the fields.  | Space character |
| combineFields.<br>[fieldname].hideEmptyValues | boolean (0/1) | If set to 1, empty values will be ignored when combining.  |                 |



#### Interceptor\_TranslateFields

This interceptor will load a given translation. You can use values of form fields to load dynamic translations.

#### Example:

This example will load the translation for the selected salutation into the field "newField".

```
[ plugin.Tx_Formhandler.settings.saveInterceptors.x.class = Tx_Formhandler_Interceptor_ParseValues plugin.Tx_Formhandler.settings.saveInterceptors.x.config. 1
```

| Property:                               | Data type: | Description:  | Default: |
|---|------------|---|----------|
| translateFields                         | array      | Array containing translation options.   | -        |
|   |            | Scheme:   |          |
|   |            | <pre>[newFieldname] {    [options] }</pre>  |          |
| translateFields.<br>[fieldname].langKey | string     | Key in translation file. Use the " " character to load content of "field" into the langKey. |          |
| translateFields.<br>[fieldname].field   | string     | Name of a form field. The value of this field will replace the " " in langKey.              |          |

#### **Validators**

| Property: | Data   | Data Description:   |  |
|-----------|--------|---|--|
|           | type:  |   |  |
| x.class   | String | Enter as many validators as you like. Each entry requires a class |  |



| Property: | Data<br>type: | Description:  | Default: |
|-----------|---------------|---|----------|
| x.config  | Array         | name of the validator. Optional you can enter specific configuration for the validator in the confg section. For detailed information about the default validator settings have a look at the section "Available error checks". |          |
|           |               | Example:  |          |
|           |               | <pre>validators.1 {   class = Tx_Formhandler_Validator_Default</pre>  |          |
|           |               | /*  * Some times you maybe want to disable error checks if the user  * filled out a specific fields or else.  |          |
|           |               | * Temporary disable error checking for the entered fields by setting  * this option.  */  |          |
|           |               | <pre>config {   disableErrorCheckFields = firstname,lastname   fieldConf {     firstname.errorCheck {         1 = required         2 = maxLength         2.value = 20     } }</pre>   |          |
|           |               | <pre>email.errorCheck {     1 = required     2 = email }</pre>  |          |
|           |               | }   |          |
|           |               | <pre>validators.2 {   class = Tx_MyPackage_ Validator   config {     param = value }</pre>  |          |
|           |               | }   |          |

[plugin.Tx\_Formhandler.settings.validators]

Have a look at the section "Available error checks".

#### Validator\_Default

This is the default validator. It supports all available error checks.

```
l plugin.Tx_Formhandler.settings.validators.x.class = Tx_Formhandler_Validator_Default plugin.Tx_Formhandler.settings.validators.x.config. ]
```

| Property:               | Data type:           | Description:                                      | Default: |
|-------------------------|----------------------|---|----------|
| disableErrorCheckFields | Comma seperated list | List of fieldnames which should not get validated | -        |
| fieldConf               | Array                | Array of fields to validate                       |          |



| fieldConf.[fieldname]. | Array     | Array containing the error check options.   |   |
|------------------------|-----------|---|---|
|                        |           | Example   |   |
|                        |           | <pre>fieldConf {    name {      errorCheck {         1 = required         2 = maxLength         2.value = 50      }    }    email {         errorCheck {         1 = required         2 = email      }    } }</pre> |   |
| messageLimit           | Int/Array | Limits the number of error<br>messages for all and/or<br>specific fields.   | - |
|                        |           | Example   |   |
|                        |           | #Limit messages to 1 for<br>each field:<br>messageLimit = 1<br>#Heighten limit for one<br>field<br>messageLimit.upload = 5  |   |

#### Validator\_Ajax

This validator is called when using AJAX validation. Please do not add this class manually to your TypoScript.

#### **Generators**

Generators are used to use the submitted form data to save it into files. These files can be attached to an email or downloaded on the confirmation page.

#### **Example:**

```
finishers.3.class = Tx_Formhandler_Finisher_SubmittedOK
finishers.3.config {
    returns = 1
    actions {
        pdf {
            class = Generator_WebkitPdf
            config {
                pid = 23
            }
        }
        csv {
            class = Generator_Csv
        }
    }
}
```

#### Generator\_WebkitPdf



Generates PDF files using the extension 'webkitpdf'.

Configuration only needs the ID of the page where a webkitpdf plugin record got inserted.

| Property: | Data<br>type: | Description:  | Default: |
|-----------|---------------|---|----------|
|           |               |   |          |
| x.class   | String        | Only configuration option for Generator_WebkitPdf is 'pid', which         |          |
| x.config  | Array         | has to be the ID of a page with a 'webkitpdf' plugin record.              |          |
|           |               | Example:  |          |
|           |               | <pre> {   class = Generator_WebkitPdf   config {     pid = 23   } }</pre> |          |
|           |               | }   |          |

#### Generator\_PdfGenerator

Generates PDF files using the extension 'pdf\_generator2'.

Configuration only needs the page type for PDF generation.

| Property:         | Data            | Description:  | Default: |
|-------------------|-----------------|---|----------|
|                   | type:           |   |          |
| x.class           | String          | Configuration options for Generator_PdfGenerator are 'type' and   |          |
| x.config          | Array           | 'target'. 'type' is the page type configured in the pdf_generator2 plugin and 'target' is the target of the link. |          |
|                   |                 | Example:  |          |
|                   |                 | <pre>class = Generator_PdfGenerator config {   type = 123   target = _blank } </pre>                              |          |
| x.config.type     | int             | Page type for PDF generation.   | 123      |
| x.config.target   | String/cOb<br>j | Target for the PDF link   | _blank   |
| x.config.linkText | String/cOb<br>j | The text of the link  | Save     |

### Generator\_TcPdf

Generates PDF files using TCPDF.

Subpart ###TEMPLATE\_PDF### is required for this component! In this subpart you can adjust the PDF ouput using HTML.

| Property: | Data<br>type: | Description:   | Default: |
|-----------|---------------|--|----------|
| x.class   | String        | Example:   |          |
| x.config  | Array         | <pre>class = Generator_TcPdf config {    storeInTempFile = 1    checkBinaryCrLf = lastname, firstname    returnFileName = 1 } </pre> |          |



| Property:                | Data<br>type:       | Description:   | Default: |
|--------------------------|---------------------|--|----------|
| x.config.storeInTempFile | int (1/0)           | If set, the generator will save the output in a temporary file rather than sending it directly as content.  Needed for usage with Finisher_Mail in combination with "returnFileName" |          |
| x.config.checkBinaryCrLf | List of field names | Line breaks in the values of the entered fields will be replaced with HTML break tags.   |          |
| x.config.returnFileName  | int (1/0)           | If set, the generator will return only the file name of the generated PDF.  Needed for usage with Finisher_Mail in combination with "storeInTempFile"                                |          |
| x.config.linkText        | String/cOb<br>j     | The text of the link   | Save     |

## Generator\_Csv

Just enter the class name. No configuration required for this component.

| Property:         | Data<br>type: | Description:         | Default: |
|-------------------|---------------|----------------------|----------|
| x.config.linkText | 7.            | The text of the link | Save     |

## **Finishers**

| Property: | Data<br>type: | Description:   | Default: |
|-----------|---------------|--|----------|
| x.class   | String        | Enter as many finishers as you like. Each entry requires a class   |          |
| x.config  | Array         | name of the finisher. Optional you can enter specific configuration for the finisher in the confg section. More information about available finishers and their settings is provided just below this table.  |          |
|           |               | Example:   |          |
|           |               | <pre>finishers.1 {   class = Tx_Formhandler_Finisher_Mail   config {     admin {       to_email = rf@typoheads.at       to_name = Reinhard Führicht       subject = Request       sender_email = contactform@mysite.com       replyto_email = email       replyto_name = name     }     user {       to_email = email       to_name = name       subject = ###LLL:user_subject###       sender_email = contactform@mysite.com       sender_name = My Site       replyto_email = contactform@mysite.com     } } finishers.2 {     class = Tx_Formhandler_Finisher_Default     config {     } } </pre> |          |

[plugin.Tx\_Formhandler.settings.finishers]



#### Finisher\_ClearCache

Clear the page cache. If no further configuration is given, the current page's cache will be cleared.

| Property: | Data type:      | Description:   | Default:     |
|-----------|-----------------|--|--------------|
| cacheCmd  | int/string/cObj | Enter as many finishers as you like. Each entry requires a class name of the finisher. Optional you can enter specific configuration for the finisher in the confg section. More information about available finishers and their settings is provided just below this table. | Current page |
|           |                 | Example:   |              |
|           |                 | finishers.1.class = Tx_Formhandler_Finisher_ClearCache   |              |
|           |                 | <pre># The cache of page 15 will be cleared<br/>finishers.1.config.cacheCmd = 15</pre>   |              |
|           |                 | <pre># cObject is supported finishers.1.config.cacheCmd = TEXT finishers.1.config.cacheCmd.data = GP:someparameter</pre>   |              |
|           |                 | <pre># for other cacheCmds see phpdoc in t3lib_TCEmain- &gt;clear_cacheCmd()</pre>   |              |

### Finisher\_GenerateAuthCode

Generates a unique token for a database entry.

This can be users for FE user registration or newsletter registration.

It needs no further configuration.

IMPORTANT: Use this finisher after Finisher\_DB and before Finisher\_Mail to be able to send the auth code in an email.

#### Finisher\_Redirect

Redirects to specified page after successful form submission.

```
[ plugin.Tx_Formhandler.settings.finishers.x.class = Tx_Formhandler_Finisher_Redirect plugin.Tx_Formhandler.settings.finishers.x.config. ]
```

| Property:          | Data type: | Description:                  | Default: |
|--------------------|------------|-------------------------------|----------|
| redirectPage       | int/string | Page ID or URL to redirect to | -        |
| correctRedirectUrl | Int (1/0)  | Replaces '&' with '&' in URL  | 0        |

#### Finisher\_StoreUploadedFiles

Moves uploaded files from temporary folder to a new one and renames them if set.

```
[ plugin.Tx_Formhandler.settings.finishers.x.class = Tx_Formhandler_Finisher_StoreUploadedFiles plugin.Tx_Formhandler.settings.finishers.x.config. ]
```

| Property:            | Data type: | Description:                  | Default: |
|----------------------|------------|-------------------------------|----------|
| finishedUploadFolder | string     | Path where to store the files | -        |

| renameScheme  | string | Specifiy how the files should be renamed.  | - |
|---------------|--------|--|---|
|               |        | Example:   |   |
|               |        | renameScheme =<br>[pid]_[filename]   |   |
|               |        | Possbile options:  |   |
|               |        | [pid] = The current page id<br>[md5] = md5 hash over<br>filename<br>[time] = The submission time<br>stamp<br>[filename] = Original<br>Filename<br>[xxx] = Your own marker<br>defined in "schemeMarkers"  |   |
| schemeMarkers | array  | Define your own markers to<br>be used in rename scheme.<br>Example:<br>renameScheme =<br>[mymarker]_[marker2]_[filen<br>ame]<br>schemeMarkers {<br>mymarker = TEXT<br>mymarker.value = asdf<br>marker2 = fieldValue<br>marker2.field = field1<br>} | - |

#### Finisher\_SubmittedOK

Shows an overview of submitted data and links to save the data as PDF or CSV. Also shows a print link.

To configure how the output looks like you have to add a special subpart to your HTML template.

#### Example:

| Property: | Data type: | Description:  | Default: |
|-----------|------------|---|----------|
| returns   | Int (1/0)  | MUST be set. Tells the controller that after this finisher, no other finishers can be called! | -        |



| actions | Array | Container for various ouput actions like PDF or CSV. Finisher_SubmittedOK will call each class entered in the actions and fill a marker ###[action]_LINK### with the result.  Example: |  |
|---------|-------|--|--|
|         |       | actions {   pdf {     class =     Generator_WebkitPdf     config.pid = 23   } }  |  |
|         |       | Generator_WebkitPdf will fill<br>the marker<br>###PDF_LINK### with a<br>link to generatte a PDF file of<br>the submitted ok page.  |  |
|         |       | Same for CSV: actions {   csv {   class = Generator_Csv   } }  |  |
|         |       | You can define your own actions with your own generators if you want to.   |  |

#### Finisher\_DB

Saves submitted values into specified DB table.

```
[ plugin.Tx_Formhandler.settings.finishers.x.class = Tx_Formhandler_Finisher_DB plugin.Tx_Formhandler.settings.finishers.x.config. ]
```

The data saved to DB is accessible through template markers, e.g.: ###value\_saveDB|tablename|field### or ###value\_saveDB|fe\_users|username###. If data is saved to the same table more than once (i.e. multiple rows are created or updated), a number suffix is added to the table name, e.g.: ###value\_saveDB| fe\_users\_2|username###.

| Property:             | Data type: | Description:   | Default: |
|-----------------------|------------|--|----------|
| table                 | string     | The table name to store the data into  | -        |
| key                   | string     | The field with primary key  Example: key = uid   | uid      |
| updateInsteadOfInsert | int(1/0)   | Does not store the values as a new row in the table, but tries to update an existing record.  Needs a uid set in GET/POST parameters.  Add a hidden field named like the value entered in "key" to your form. Don't forget to add the formValuePrefix! | 0        |



| insertIfNoUpdatePossible      | Int(1/0) | If the update fails because the record to be updated does not exist, a new record will be created in the table rather than just doing nothing.  | 0 |
|-------------------------------|----------|---|---|
| fields                        | array    | Mapping of table fields to submitted values.  |   |
|                               |          | Usage:  |   |
|                               |          | fields {   [db_field].mapping =   [form_field] }  |   |
|                               |          | Example:  |   |
|                               |          | fields {   header.mapping = name }  |   |
| fields.[db_field].iflsEmpty   | string   | Define a default value if the user did not enter something in the form field  |   |
| fields.[db_field].nullIfEmpty | int(1/0) | If the user did not enter<br>something in the form field, a<br>NULL value is inserted into<br>database  |   |
| Fields.[db_field].zeroIfEmpty | int(1/0) | If the user did not enter<br>something in the form field, a<br>zero value (int: 0) is inserted<br>into database   |   |
| fields.[db_field].separator   | string   | If the field value is an array 8e.g. Checkboxes) you can enter a separator to save the value imploded into DB.  | , |
| fields.[db_field].special     | string   | There are some special values available:  |   |
|                               |          | sub_datetime<br>sub_tstamp  |   |
|                               |          | ip<br>inserted_uid<br>(explainedbelow)  |   |
|                               |          | Should not need further explanation.  |   |
|                               |          | inserted_uid  |   |
|                               |          | When using this value you can set the according table using special.table The field value will be set with a uid value of an inserted record by another Finisher_DB before the current one. Use this to store data into more than one |   |
|                               |          | table. Example in section How to store data into more than one DB table   |   |



| fields.<br>[db_field].preProcessing | TS object | Preprocess the value before saving into database  Example:   |  |
|-------------------------------------|-----------|--|--|
|                                     |           | <pre>fields {   header {     preProcessing = USER     preProcessing.userFu nc = user_helper- &gt;appendSomething     mapping = firstname   } }</pre>           |  |
| fields. [db_field].postProcessing   | TS object | Postprocess the value before saving into database. Enables you to override processing of Formhandler, if you are not satisfied with it.                        |  |
|                                     |           | <pre>fields {   header {     postProcessing =     USER     postProcessing.userF   unc = user_helper-   &gt;appendSomething     mapping = firstname   } }</pre> |  |

#### Finisher\_AutoDB

Extends Finisher\_DB to automatically generate the database fields for the fields in your form **when a backend user is logged in and .autoCreate is enabled**. Therefor it scans your template code for form elements with a name, generates the table if it doesn't exist and adds each field as column if it does not exist.

This finisher inherits all setup properties from the Finisher\_DB. Please note that while creating the fields it does not yet take the field mapping into account but generates all fields that are found in the form and not excluded by .excludeFields

```
l plugin.Tx_Formhandler.settings.finishers.x.class = Tx_Formhandler_Finisher_AutoDB plugin.Tx_Formhandler.settings.finishers.x.config.
```

| Property:           | Data type: | Description:   | Default:          |
|---------------------|------------|--|-------------------|
| autoCreate          | boolean    | Won't create table and fields if this is set to false (Behaves just as Finisher_DB in this case) | false             |
| excludeFields       | string     | Comma separated list of fields that should not be added to the table.                            |                   |
| newFieldsSqlAttribs | string     | The SQL-attributes used when new fields are added to the table.                                  | TINYTEXT NOT NULL |

#### Finisher\_DifferentDB

Saves submitted values into specified DB table using a database other than the TYPO3 database.

```
[ plugin.Tx_Formhandler.settings.finishers.x.class = Tx_Formhandler_Finisher_DifferentDB plugin.Tx_Formhandler.settings.finishers.x.config. ]
```

| Duran andrew | Data tuma. | December     | D-f      |
|--------------|------------|--------------|----------|
| Property:    | Data type: | Description: | Default: |

| host                  | string   | Host of the databse  |     |
|-----------------------|----------|--|-----|
| port                  | string   | Port to use  |     |
| db                    | string   | Name of the databse  |     |
| driver                | string   | Driver to use  |     |
|                       |          | Example:   |     |
|                       |          | driver = oci8  |     |
| username              | string   | Username for DB  |     |
| password              | string   | Password for DB user   |     |
| table                 | string   | The table name to store the data into  | -   |
| key                   | string   | The field with primary key   | uid |
|                       |          | Example:<br>key = uid  |     |
| updateInsteadOfInsert | int(1/0) | Does not store the values as a new row in the table, but tries to update an existing record.  Needs a uid set in GET/POST parameters.  Add a hidden field named like the value entered in "key" to your form. Don't forget to add the formValuePrefix! | 0   |
| fields                |          | Have a look at the config section of Finisher_DB   |     |

#### Finisher\_Mail

Sends emails to specified addresses using following subparts in the HTML template:

- TEMPLATE\_EMAIL\_USER\_PLAIN
- TEMPLATE\_EMAIL\_USER\_HTML
- TEMPLATE\_EMAIL\_ADMIN\_PLAIN
- TEMPLATE\_EMAIL\_ADMIN\_HTML

l plugin.Tx\_Formhandler.settings.finishers.x.class = Tx\_Formhandler\_Finisher\_Mail plugin.Tx\_Formhandler.settings.finishers.x.config. ]

| Property:        | Data type: | Description:  | Default:  |
|------------------|------------|---|-----------|
| limitMailstoUser | int        | Limit the amount of mails<br>sent to users. If more<br>addresses are specified than<br>this value, emails are sent<br>only to the first x recipients. | unlimited |
| checkBinaryCrLf  | string     | Comma seperated list of fields. Converts chr(13) line breaks to<br>   | uid       |



| mailer                 | array       | Optional:  | mailer {<br>class = Mailer_HtmlMail |
|------------------------|-------------|--|-------------------------------------|
|                        |             | Use your own class to send the emails.   | }                                   |
|                        |             | Example:   |                                     |
|                        |             | mailer {    class = Mailer_HtmlMail    config {  |                                     |
|                        |             | }  |                                     |
|                        |             | A mailer must fulfill the given MailerInterface.   |                                     |
| view                   | string      | Classname of the view to be used for generation of email-contents                                      | Tx_Formhandler_View_Mail            |
| admin                  | array       | Settings for the mail sent to site admin   | -                                   |
| admin.header           | string/cObj | Manually set the email header. All options can be strings, TypoScript objects or names of form fields. | -                                   |
| admin.to_email         | string/cObj | Comma seperated list of email addresses. Can be addresses or form fields.                              | -                                   |
| admin.to_name          | string/cObj | Comma seperated list of names to the according addresses in to_email. Can be name or form fields.      | -                                   |
| admin.replyto_email    | string/cObj | Reply to email address   | -                                   |
| admin.replyto_name     | string/cObj | Name of the according replyto_email  | -                                   |
| admin.cc_email         | string/cObj | A CC email will be sent to this address.   | -                                   |
| admin.cc_name          | string/cObj | Name added to the cc_email.  | -                                   |
| admin.bcc_email        | string/cObj | A BCC email will be sent to this address.  | -                                   |
| admin.bcc_name         | string/cObj | Name added to the bcc_email.   | -                                   |
| admin.sender_email     | string/cObj | Email address to be set as sender of the email. Can be addresses or form fields.                       | -                                   |
| admin.sender_name      | string/cObj | Name of the email sender.<br>Can be name or form fields.   | -                                   |
| admin.subject          | string/cObj | Subject of the email   |                                     |
| admin.return_path      | string/cObj | Email address to be set as return path.  | -                                   |
| admin.attachment       | string      | Comma seperated list of form fields or file names to be attached to the email.                         | -                                   |
| admin.attachPDF        | array       | Attach the submitted values as PDF   | -                                   |
| admin.attachPDF.class  | string      | Class to handle the PDF generation. Normally this will be Tx_Formhandler_Generator_WebkitPdf           |                                     |
| admin.attachPDF.config | array       | Configuration for the generator class  |                                     |
|                        |             |  |                                     |



| admin.htmlEmailAsAttachme<br>nt     | int(1/0)     | Attach the generated HTML email to the outgoing email   | 0            |
|-------------------------------------|--------------|---|--------------|
| admin.filePrefix                    | string array | Set the prefix of the generated PDF and HTML files attached to email. Use this setting as an array to set different prefixes for the two files. | formhandler_ |
|                                     |              | Example:  |              |
|                                     |              | admin.filePrefix = myForm   |              |
|                                     |              | or for different prefixes:  |              |
|                                     |              | admin.filePrefix {    html = myFormHTML    pdf = myFormPDF }  |              |
|                                     |              | This will not work for usage with Generator_WebkitPdf since the file naming will be done by the extension 'webkitpdf'                           |              |
| admin.plain.arrayValueSepar<br>ator | string/cObj  | Specify your own separator for array values in this type of emails. See plugin.Tx_Formhandler.se ttings.arrayValueSeparat or for more details.  | ,            |
| admin.html.arrayValueSepar<br>ator  | string/cObj  | Specify your own separator for array values in this type of emails. See plugin.Tx_Formhandler.se ttings.arrayValueSeparat or for more details.  | ,            |
| user                                | array        | Settings for the email sent to the user.  |              |
|                                     |              | SAME SETTINGS AS FOR ADMIN  |              |

## **Backend Module**

Add this TypoScript as page Ts config or user TS.

| Property: | Data<br>type:          | Description:  | Default: |
|-----------|------------------------|---|----------|
| CSV       | List of field<br>names | Enter a list of field names to export in CSV. This way you will not have to select the fields manually each time you export.  Example:  tx_formhandler_mod1.config {   csv = firstname, lastname, email, address }  |          |
| pdf       | List of field<br>names | Enter a list of field names to export in PDF. This way you will not have to select the fields manually each time you export.  Example:  tx_formhandler_mod1.config {    pdf = firstname, lastname, email, address } |          |

[tx\_formhandler\_mod1.config]



# Available error checks

The default validator offers a variety of predefined error checks for the most common tasks. Here is a list of the checks and how to configure them:

| Check:          | Description:   | Parameters :                          | Datatype:                                 |
|-----------------|--|---------------------------------------|---|
| required        | Checks if a field is filled out  | none                                  | -   |
| email           | Checks if a field contains a valid email   | none                                  | -   |
| integer         | Checks if a field contains a valid integer value   | none                                  | -   |
| float           | Checks if a field contains a valid float value   | none                                  | -   |
| containsNone    | Checks if a field contains none of the configured values                                   | words                                 | comma<br>seperated/cO<br>bj               |
| containsOne     | Checks if a field contains at least one of the configured values                           | words                                 | comma<br>seperated/cO<br>bj               |
| containsOnly    | Checks if a field contains only the configured values                                      | words                                 | comma<br>seperated/cO<br>bj               |
| containsAll     | Checks if a field contains all of the configured values                                    | words                                 | comma<br>seperated/cO<br>bj               |
| equals          | Checks if a field equals the configured value  | word                                  | string/cObj                               |
| equalsField     | Checks if a field value equals another field value   | field                                 | string/cObj                               |
| notEqualsField  | Checks if a field value does not equal another field value                                 | field                                 | string/cObj                               |
| notDefaultValue | Checks if a field equals a default value set by a pre processor                            | defaultValue                          | string/cObj                               |
| minValue        | Checks if the value of a field is at least the configured value                            | value                                 | numeric/cObj                              |
| maxValue        | Checks if the value of a field is less than the configured value                           | value                                 | numeric/cObj                              |
| minLength       | Checks if the value of a field has at least the configured length                          | value                                 | integer/cObj                              |
| maxLength       | Checks if the value of a field has less than the configured length                         | value                                 | integer/cObj                              |
| betweenValue    | Checks if the value of a field is between the configured values                            | minValue<br>maxValue                  | numeric/cObj<br>numeric/cObj              |
| betweenLength   | Checks if the length of the value of a field is between the configured values              | minValue<br>maxValue                  | integer/cObj<br>integer/cObj              |
| minItems        | Checks if a field contains at least the configured amount of items (e.g. checkboxes)       | value                                 | integer/cObj                              |
| maxItems        | Checks if a field contains less than the configured amount of items (e.g. checkboxes)      | value                                 | integer/cObj                              |
| betweenItems    | Checks if a field contains values between the configured amount of items (e.g. checkboxes) | minValue<br>maxValue                  | integer/cObj<br>integer/cObj              |
| isInDBTable     | Checks if the value of a field is in a configured field in a configured table              | table<br>field<br>additionalWhe<br>re | string/cObj<br>string/cObj<br>string/cObj |
| isNotInDBTable  | Checks if the value of a field is not in a configured field in a configured table          | table<br>field<br>additionalWhe<br>re | string/cObj<br>string/cObj<br>string/cObj |



| Check:           | Description:  | Parameters :          | Datatype:                                 |
|------------------|---|-----------------------|---|
| pregMatch        | Checks a field value using the configured perl regular expression                           | value                 | regExp/cObj                               |
| captcha          | Checks if a field value equals the generated captcha string of the extension "captcha"      | none                  | -   |
| srFreecap        | Checks if a field value equals the generated captcha string of the extension "sr_freecap"   | none                  | -   |
| jmRecaptcha      | Checks if a field value equals the generated captcha string of the extension "jm_recaptcha" | none                  | -   |
| mathGuard        | Checks if a field value equals the result of the generated question of MathGuard            | none                  | -   |
| dateRange        | Checks if a field value is between a configured date range                                  | pattern<br>min<br>max | string/cObj<br>string/cObj<br>string/cObj |
| date             | Checks if a field value is a valid date   | pattern               | string/cObj                               |
| time             | Checks if a field value is a valid time   | pattern               | string/cObj                               |
| fileAllowedTypes | Checks if the filetype of an uploaded file is allowed                                       | allowedTypes          | comma<br>seperated/cO<br>bj               |
| fileMaxCount     | Checks if the files uploaded from a field are less than the configured value                | maxCount              | integer/cObj                              |
| fileMinCount     | Checks if the files uploaded from a field are more than or equal the configured value       | minCount              | integer/cObj                              |
| fileMinSize      | Checks if the size of an uploaded file is at least the configured value (in Byte)           | minSize               | integer/cObj                              |
| fileMaxSize      | Checks if the size of an uploaded file is at less than the configured value (in Byte)       | maxSize               | integer/cObj                              |
| fileRequired     | Checks if a file has been uploaded from this field  | none                  | -   |

#### **Example**

```
plugin.Tx_Formhandler.settings.validators.1 {
   class = Tx_Formhandler_Validator_Default
   config {
     fieldConf {
        firstname.errorCheck.1 = required
        firstname.errorCheck.2 = minLength
        firstname.errorCheck.3 = notDefaultValue
        firstname.errorCheck.3 = notDefaultValue
        firstname.errorCheck.3.defaultValue = Enter firstname here
        picture.errorCheck.1 = fileRequired
        picture.errorCheck.2 = fileAllowedTypes
        picture.errorCheck.2.allowedTypes = jpg,png,gif,tiff
      }
}
```

# Available subparts to use in the template

| ###TEMPLATE_FORM[1x]### | Subpart for form template of a form. The number specifies the step. Single step forms will only contain ###TEMPLATE_FORM1###. |
|-------------------------|---|
|                         | Example: ###TEMPLATE_FORM1### for first step  |



| ###TEMPLATE_FORM[1x][SUFFIX]###  | Subpart for form template of a multi step form with conditions. The number specifies the step and the suffix specifies the current route.  Example:  ###TEMPLATE_FORM2_routea### ###TEMPLATE_FORM2_routeb###                                      |
|----------------------------------|---|
| ###FORM_STARTBLOCK###            | Use this in multistep forms and put code being the same in all steps into this subpart. You can use the marker ###FORM_STARTBLOCK### in the following steps and it gets replaced with the content of the subpart ###FORM_STARTBLOCK### in step 1. |
| ###FORM_ENDBLOCK###              | Use this in multistep forms and put code being the same in all steps into this subpart. You can use the marker ###FORM_ENDBLOCK### in the following steps and it gets replaced with the content of the subpart ###FORM_ENDBLOCK### in step 1.     |
| ###TEMPLATE_EMAIL_ADMIN_PLAIN### | This subpart contains the template for the plain text E-mail sent to the admin if configured.   |
| ###TEMPLATE_EMAIL_ADMIN_HTML###  | This subpart contains the template for the HTML E-mail sent to the admin if configured.   |
| ###TEMPLATE_EMAIL_USER_PLAIN###  | This subpart contains the template for the plain text E-mail sent to the user if configured.  |
| ###TEMPLATE_EMAIL_USER_HTML###   | This subpart contains the template for the HTML E-mail sent to the user if configured.  |
| ###TEMPLATE_SUBMITTEDOK###       | If you use the confirmation view after successful form submission you can enter your template in this subpart.  |
| ###TEMPLATE_ANTISPAM###          | Subpart for Interceptor_AntiSpamFormTime.   |
| ###ISSET_[FIELDNAME]###          | Use this subpart in your E-mail and confirmation templates to not show fields that were not filled out in the form. There is a how to section in this manual.   |

# Available markers to use in subparts

| ###value_[fieldname]###    | GET/POST value of the given inputfield.  |
|----------------------------|--|
|                            | Example:   |
|                            | <input name="email" type="text" value="###value_email###"/>  |
| ###LLL:[langkey]###        | Marker for translated texts. [langkey] is a key in your translation file.  |
| ###error_[fieldname]###    | This marker gets replaced with the error messages for the field  |
| ###is_error_[fieldname]### | Only gets replaced when an error occurred in this fields. Can be filled with translated content or TypoScript objects. Have a look at the tutorial section for more information. |
| ###is_error###             | Only gets replaced when an error occurred in the form. Can be filled with translated content or TypoScript objects. Have a look at the tutorial section for more information.    |
| ###REL_URL###              | Relative URL to current page   |
| ###ABS_URL###              | Absolute URL to current page   |
| ###submit_nextStep###      | Use this in multi step forms to add a submit button pointing to the next step.   |
|                            | Example:   |
|                            | <pre><input ###submit_nextstep###="" type"submit"="" value="###LLL:next###"/></pre>  |



| ###submit_prevStep###                   | Use this in multi step forms to add a submit button pointing to the previous step.   |
|---|--|
|   | Example:   |
|   | <input ###submit_prevstep###="" type"submit"="" value="###LLL:prev###"/>   |
| ###submit_reload###                     | Use this for upload fields in your form. By clicking the button, the user can upload a file directly.  |
|   | Example:   |
|   | <input ###submit_reload###="" type"submit"="" value="Upload file now"/>  |
| ###FEUSER_[property]###                 | You can access name, email, fields from the logged in user (frontend-user) and fill out the name or emailaddress automatically. Attention: the fieldname has to be written in CAPITAL letters.                                       |
| ###[fieldname]###                       | GET/POST value of the given inputfield.  |
| ###required_[fieldname]###              | Adds required sign, if this field is marked as required in error checks.   |
| ###CAPTCHA###                           | Only works if you have the "captcha" extension installed. This marker will be replaced with a picture showing some only human readable text. The user has to type the text shown on the picture into a inputfield in your form.      |
| ###RECAPTCHA###                         | Only works if you have the "jm_recaptcha" extension installed. This marker will be replaced with a picture showing some only human readable text. The user has to type the text shown on the picture into a inputfield in your form. |
| ###MATHGUARD###                         | This marker gets replaced with a MathGuard security question. The user has to solve the question and enter the result in a form field.   |
| ###ERROR###                             | Cumulated error messages.  |
| ###[fieldname]_minSize###               | Minimum file size for uploaded files in this field. The minimum size is defined in the error check.  |
| ###[fieldname]_maxSize###               | Maximum file size for uploaded files in this field. The maximum size is defined in the error check.  |
| ###[fieldname]_allowedTypes###          | Allowed file types for uploaded files in this field. The types are defined in error check.   |
| ###[fieldname]_maxCount###              | Maximum count of files uploaded in this field. The amount is defined in error check.   |
| ###[fieldname]_fileCount###             | Amount of currently uploaded files via this field.   |
| ###[fieldname]_remainingCount###        | Remaining amount of uploades via this field.   |
| ###[fieldname]_uploadedFiles###         | Names of files uploaded via this field. Use this in combination with the wrap settings for file markers in TypoScript.   |
| ###total_uploadedFiles###               | Names of files uploaded in this form. Use this in combination with the wrap settings for file markers in TypoScript.   |
| ###selected_[fieldname]_[fieldvalue]### | Only for use with <b>dropdowns</b> .   |
|   | Example:   |
|   | dropdown::   |
|   | <pre><option ###selected_topic_webdesign###="" value="webdesign">Webdesign</option></pre> /option>   |



| ###checked_[fieldname]_[fieldvalue]### | Only for use with <b>checkboxes</b> and <b>radiobuttons</b> .   |
|--|---|
|  | Example:  |
|  | checkbox:   |
|  | <input ###checked_topic_webdesign###="" name="topic" type="checkbox" value="webdesign"/> Webdesign  |
|  | radiobutton:  |
|  | <input <br="" name="contact_via" type="radio" value="email"/> style="border-style:none;"<br>###checked_contact_via_email###>e-mail  |
| ###curStep###                          | The current step in a multi step form.  |
| ###maxStep###                          | The last step of a multi step form.   |
| ###lastStep###                         | The last step the user was in a multi step form.  |
| ###step_bar###                         | A sample step bar showing the amount of steps and the current step highlighted.   |
| ###formValuesPrefix###                 | This marker contains the value of the formValuesPrefix defined in TS.   |
| ###PRINT_LINK###                       | Only usable in ###TEMPLATE_SUBMITTEDOK###. Shows a link to print view.  |
| ###CSV_LINK###                         | Only usable in ###TEMPLATE_SUBMITTEDOK###. Shows a link to export the submitted values as CSV.  |
| ###PDF_LINK###                         | Only usable in ###TEMPLATE_SUBMITTEDOK###. Shows a link to export the submitted values as PDF.  |
| ###TIMESTAMP###                        | The current timestamp. Useful in combination with Interceptor_AntiSpamFormTime.   |
| ###auth_code###                        | This marker will be filled with the unique token generated by Finisher_GenerateAuthCode   |
| ###field_[masterkey]_[fieldname]###    | Insert fields predefined in master template. More details in section "How to use a master template"   |
| ###HIDDEN_FIELDS###                    | Formhandler will insert all needed hidden fields here. If you don't add this marker, Formhandler will insert the hidden fields just before the closing <form> tag.</form> |



## **Tutorial**

### How to set up a simple form

- 1. Create a HTML template file containing your form. Examples can be found in EXT:formhandler/Examples
- 2. Create a new page
- 3. Create a content element with type "General Plugin"
- 4. Choose "Formhandler" in Dropdown "Plugin"
- 5. Check that predefined form "Default" is selected.
- 6. Optional: Choose a translation file containing error messages and translations filled into markers ###LLL:[key]###
- 7. Optional: Enter settings for E-Mail, required fields or a page to redirect to
- 8. Save and view the page

### How to set up an advanced form

- Create a HTML template file containing your form. Examples can be found in EXT:formhandler/Examples
- 2. Create a new page
- 3. Create an extension template and enter a TypoScript setup entering template file, lang file and other settings.
- 4. Create a content element with type "General Plugin"
- 5. Choose "Formhandler" in Dropdown "Plugin"
- 6. Save and view the page

NOTE: Configuring your form using TypoScript gives you much more possibilities.

### How to use predefined forms

1. Create a TypoScript setup using the predef setting

#### Example:

```
plugin.Tx_Formhandler.settings.predef.contactform {
    # This name appears in the dropdown selector in plugin record
    name = Contact form
    ...
    ...
}
```

- 2. Create a content element with type "General Plugin"
- 3. Choose "Formhandler" in Dropdown "Plugin"
- 4. Now you can choose the entered predefined form from the "Predefined forms" dropdown.
- 5. Save and view the page.

HINT: they are many examples available at EXT:formhandler/Examples

### How to set up a multistep form

- Create a HTML template file containing your form. Examples can be found in EXT:formhandler/Examples/MultiStep
- 2. Create a new page
- 3. Create an extension template and enter a TypoScript setup entering template file, lang file and other settings.
- 4. Create a content element with type "General Plugin"
- 5. Choose "Formhandler" in Dropdown "Plugin"
- 6. Choose "Multi step" from Dropdown "Type"
- 7. Save and view the page

NOTE: You can overwrite settings made in plugin.Tx\_Formhandler.settings for each step using plugin.Tx\_Formhandler.settings.[stepnumber]

### How to set up a multistep form with conditions

- Create a HTML template file containing your form. Examples can be found in EXT:formhandler/Examples/MultiStepConditions
- 2. Create a new page
- 3. Create an extension template and enter a TypoScript setup entering template file, lang file and other settings.
- 4. Create a content element with type "General Plugin"
- 5. Choose "Formhandler" in Dropdown "Plugin"
- 6. Choose "Multi step" from Dropdown "Type"
- 7. Add conditions and change the settings plugin.Tx\_Formhandler.settings.[stepnumber].templateSuffix
- 8. Save and view the page

#### How the conditions work:



```
}
```

Using the "if" setting you can specify conditions for GET/POST parameters. If the conditions evaluates to TRUE, the settings in "isTrue" will be merged with the original Formhandler settings.

The conditions can be specified in two levels. Level 1 will be OR conditions, level 2 will be AND conditions.

#### Example:

This will result in the following condition:

```
(field1 == 'value1' && field2 == 'value2') || (field3 == 'value3')
```

You can use the following operators:

```
=, <, >, !=
```

NOTE: If you don't use an operator, Formhandler will check if the field is set in GET/POST.

NOTE: Using the TypoScript setting 'templateSuffix', you can define different templates for your steps, emails and PDFs. If you have a form with 3 steps and you want to send emails and PDFs according to the chosen route, you can set the templateSuffix option for step 4 too to ensure that the correct template for emails and PDFs is set.

### How to set up spam protection

### **Enable captcha for your form**

- 1. Make sure that the extension "captcha" is installed
- 2. Put the input field and the required marker into your template:

```
###error_captchafield###
###CAPTCHA###
<input type="text" name="formhandler[captchafield]" />
```

3. Enter error check for this field in TypoScript

```
plugin.Tx_Formhandler.settings.validators.1 {
  class = Tx_Formhandler_Validator_Default
  config {
    fieldConf {
      captchafield.errorCheck.1 = captcha
    }
  }
}
```



### **Enable sr freecap for your form**

- 1. Make sure that the extension "sr\_freecap" is installed
- 2. Put the required subpart into your template. You can change the name of the input field and the HTML code

3. Enter error check for this field in TypoScript

```
plugin.Tx_Formhandler.settings.validators.1 {
  class = Tx_Formhandler_Validator_Default
  config {
    fieldConf {
       freecapfield.errorCheck.1 = srFreecap
    }
  }
}
```

### Enable jm recaptcha for your form

- 1. Make sure that the extension "jm\_recaptcha" is installed
- 2. Register an account at http://recaptcha.net/ to get a public and a private key for your domain.
- 3. Enter the keys received from http://recaptcha.net/ in TypoScript:

```
plugin.tx_jmrecaptcha {
  public_key = xxx
  private_key = xxx
}
```

4. Add marker to template:

```
###error_recaptcha_response_field###
###RECAPTCHA###
```

5. Enter error check for this field in TypoScript

```
plugin.Tx_Formhandler.settings.validators.1 {
  class = Tx_Formhandler_Validator_Default
  config {
    fieldConf {
      recaptcha_response_field.errorCheck.1 = jmRecpatcha
    }
  }
}
```

#### **Enable mathGuard for your form**



1. Add marker to template

```
###error_mathguard_answer###
###MATHGUARD###
```

2. Enter error check for this field in TypoScript

```
plugin.Tx_Formhandler.settings.validators.1 {
  class = Tx_Formhandler_Validator_Default
  config {
    fieldConf {
      mathguard_answer.errorCheck.1 = mathGuard
    }
  }
}
```

### How to set up error checks

- 1. Add markers like ###error [fieldname]### to your template
- 2. Set up a validator in TypoScript

```
plugin.Tx_Formhandler.settings.validators.1 {
    class = Tx_Formhandler_Validator_Default
    config {
        fieldConf {
            field1 {
                errorCheck.1 = required
                errorCheck.2 = maxLength
                errorCheck.2.value = 50
        }
        field2 {
            errorCheck.1 = required
            errorCheck.2 = email
        }
    }
}
```

3. Add entries for error messages to your translation file

```
<label index="error_field1_required">Field1 is required!</label>
<label index="error_field1_maxLength">Field1 has to be shorter than ###value### characters!</label>
<label index="error_field2_required">Field2 is required!</label>
<label index="error_field2_email">Field2 is no valid e-mail!</label>
```

NOTE: The marker ###value### in the error message is filled with the value of the parameter "value" for error check "maxLength". If an error check requires parameters, you can use markers like ###[parametername]### in the translatable message.

When you have to validate values in nested arrays you can nest the validators as well. Given following fields:

```
<input type="text" name="birthdate[day]"/>
<input type="text" name="birthdate[month]"/>
<input type="text" name="birthdate[year]"/>
<input type="text" name="name"/>
```

You can setup your validators like that:

```
validators.1.config.fieldConf {
    birthdate {
        day.errorCheck {
            1 = betweenValue
            1.minValue = 1
            1.maxValue = 31
        }
        month.errorCheck {
            1 = betweenValue
            1.minValue = 1
            1.maxValue = 12
```



```
}
year.errorCheck {
   1 = minValue
   1.minValue = 45
}
birthdate.errorCheck.1 = maxItems
birthdate.errorCheck.1.value = 3
name.errorCheck.1 = required
```

The errors for the birthdate array will then be merged into the marker ###error\_birthdate###.

### How to use ###is error### markers

These markers allow you to display additional content is an error occurred for each form field or globally.

In your HTML template you can add these markers:

```
###is_error###
###is error [fieldname]###
```

Formhandler will search for content to replace these markers in the translation file and in the TypoScript setup.

In the translation file enter the values like:

```
<label index="is_error_field1">Error occurred in field1!</label>
```

or enter a default message for all fields:

```
<label index="is_error_default">Error occurred!</label>
```

A possible TypoScript configuration looks like this:

```
plugin.Tx_Formhandler.settings {
  isErrorMarker {
    global = Global message if an error occurred (filled into ###is_error###)
    default = class="error" (filled into ###is_error_[fieldname]###
    field1 = TEXT
    field1.value = Some message (filled into ###is_error_field1###)
  }
}
```

#### Example:

```
###error_firstname###
<div class="row" ###is_error_firstname###>
    <label for="firstname">###LLL:firstname###</label>
        <input type="text" name="formhandler[firstname]" value="###value_firstname" />
        </div>
```

Using this you can display an error message like "Firstname is missing" and add a CSS class to the surrounding DIV to highlight the row containing the error.

# How to fill your own markers via TypoScript

#### Coding 1:

Add the marker into your template

```
###myMarker###
```

2. Register the marker in TypoScript. (3 examples available)



```
plugin.Tx_Formhandler.settings.predef.myForm.markers.myMarker_1 = TEXT
plugin.Tx_Formhandler.settings.predef.myForm.markers.myMarker_1.value = My marker content

# getText function
plugin.Tx_Formhandler.settings.predef.myForm.markers.myMarker_2 = TEXT
plugin.Tx_Formhandler.settings.predef.myForm.markers.myMarker_2.data = getIndpEnv:HTTP_HOST

# Constant insertion
plugin.Tx_Formhandler.settings.predef.myForm.markers.myMarker_3 = TEXT
plugin.Tx_Formhandler.settings.predef.myForm.markers.myMarker_3.value = {$local.myConstant}}
```

3. The marker will be filled with "My marker content"

NOTE: You can fill your own markers using any TypoScript object like USER or COA. Just try it out.

Coding 2: Prefill a drop down menu dynamically

1. Let's say you have dropdown menu in your HTML template which you may want to generate dynamically.

```
<select id="changeMe" name="changeMe">
  <options value="">###LLL:selectValue###</option>
    ###options_dropdown###
</select>
```

2. Next, you will need to write / adapt the following TypoScript

```
options dropdown = CONTENT
options dropdown{
   table = tx addresses domain model address
   select {
       pidInList = 1
       orderBy = last_name
       selectFields = uid, first name, last name
       # possible conditions
       # where = ( tx mytable.type='b0' OR tx mytablet.type='b1' )
   renderObj = COA
   renderObj {
       #value
       10.wrap = <option value="|"
       10 = TEXT
       10.field = uid
       #selected
       12.noTrimWrap = | ###selected mytable |###>|
       12 = TEXT
       12.field = uid
       #label
       13 = TEXT
       13.wrap = |</option>
       13.field = first name
```

# How to hide unfilled form field values in templates

In your HTML-Template you are able to wrap the field output in e-mails and subpart ###TEMPLATE\_SUBMITTEDOK### with a subpart:

```
<!-- ###ISSET_fax### -->
###value_fax###<br/><!-- ###ISSET fax### -->
```

If the user filled out the field "fax" in the form, the text will get shown in the e-mails, otherwise it will not be added.



You have the possibility to add some conditions:

```
<!-- ###ISSET_fax&&phone### -->
    ###value_fax###<br/>
<!-- ###ISSET_fax&&phone### -->
<!-- ###ISSET_fax&&!phone### -->
    ###fax###<br/>
<!-- ###ISSET_fax&&!phone### -->
<!-- ###ISSET_fax&&!phone### -->
    ###fax##*/br/>
<!-- ###ISSET_fax||phone### -->
    ###fax###*/br/>
<!-- ###ISSET_fax||phone### -->
```

As you see, you can use the operators (&&,||,!) to do some simple checks.

NOTE: The case of the fieldname in ISSET subpart and marker MUST match.

#### good:

```
<!-- ###ISSET_EMAIL### -->
###value_EMAIL###
<!-- ###ISSET_EMAIL### -->
<!-- ###ISSET_email### -->
###value_email###
<!-- ###ISSET_email### -->
```

#### bad:

```
<!-- ###ISSET_EMAIL### -->
###value _email###
<!-- ###ISSET_EMAIL### -->
<!-- ###ISSET_email### -->
###value _EMAIL###
<!-- ###ISSET email### -->
```

# How to set up multi language forms

#### In the template file:

Specify markers for the multi language texts.

#### example:

### Your custom language file:



#### **TypoScript:**

You can specify the path to your translation file in any setting "langFile" associated with "formhandler". Example:

```
plugin.Tx Formhandler.settings.langFile = fileadmin/lang/myLangFile.xml
```

# How to load data from DB to use in Finisher\_DB

It may be useful to extend the set of data submitted in the form before inserting them in the database. You may want to fetch additional data from the database, the session, the GET / POST parameters or from something else. This can be done quite easily since the key "mapping" can understand TypoScript.

Let's have a look at the following lines. They are 4 examples, field\_demo\_1, field\_demo\_2, field\_demo\_3, field\_demo\_4.

```
2.class = Tx Formhandler Finisher DB
2.config {
    table = tt content
    key = uid
    fields {
        # Retrieves data from the GET / POST parameters
        field demo 1 {
            mapping = TEXT
            mapping.data = GPvar:formhandler|firstname
        # Retrieves data from the database
        field demo 2 {
            mapping = TEXT
            mapping {
                dataWrap = DB:tx cuso courses:{GPvar:formhandler|course uid}:title
                insertData = 1
                wrap3 = \{ | \}
        # Retrieves data from the session
        field_demo_3 {
    mapping = TEXT
            mapping.data = TSFE:fe user|user|last name
        # Some more cool stuff
        field_demo_4 {
            mapping = COA
            mapping {
                 10 = TEXT
                 10 {
                     data = GPvar:formhandler|firstname
                 20 = TEXT
                 20 {
                     data = GPvar:formhandler|lastname
                     noTrimWrap = | |: |
                 30 = TEXT
                 30
                    dataWrap = DB:tx cuso courses:{GPvar:formhandler|course uid}:title
```

### How to store data into more than one DB table

To store data into different tables you have to chain different Finisher\_DBs. You can use the setting special to access the uid of a previously inserted record.

```
finishers {
    1.class = Finisher_DB
    1.config {
        table = fe_users
        fields {
            username.mapping = lastname
        }
    2.class = Finisher_DB
    2.config {
        table = tt_address
        fields {
            pid.special = inserted_uid
            pid.special.table = fe_users
            email.mapping = email
            first_name.mapping = firstname
            last_name.mapping = lastname
        }
    }
}
```

The first Finisher\_DB stores data into the table fe\_users. The second one create a record in the child table tt\_address. The pid field of this record is set to the uid of the inserted record in fe\_users.

# How to use your own controller

#### This is for advanced users only!

If you want to write your own controller make sure it inherits from Tx\_Formhandler\_AbstractController.

You can set your controller using TypoScript:

```
tt_content.list.20.formhandler_pi1.controller = Tx_MyExt_MyController
```

NOTE: Your custom controller file (in this case: Tx\_MyExt\_MyController.php) has to be located in a directory 'Classes' in your extension. Otherwise it will not be found by the component manager! (EXT:myext/Classes/Tx\_MyExt\_MyController.php)

# How to use your own component (Interceptor, Finisher, ...)

#### This is for advanced users only!

There are two ways to integrate your own component.

- 1. Using an extension:
  - Create a new extension (Example: myext)
  - Create a folder 'Classes' and put your components in there.

Example:



myext/Classes/Finisher/Tx MyExt Finisher MyFinisher.php

- Make sure your class extends the abstract base class (Example: Tx Formhandler AbstractFinisher)
- Use your class in TypoScript.

Example: finishers.1.class = Tx\_MyExt\_Finisher\_MyFinisher

- 2. Using additional include paths
  - Create your class somewhere (Example: fileadmin/scripts/Tx\_Formhandler\_Finisher\_MyFinisher.php)
  - Make sure the class name starts with Tx\_Formhandler
  - Make sure your class extends the abstract base class (Example: Tx\_Formhandler\_AbstractFinisher)
  - Enter the path in TypoScript:

Example:  $plugin.Tx\_Formhandler.settings.additionalIncludePaths.1 = fileadmin/scripts/$ 

- Use your class in TypoScript.

Example: finishers.1.class = Tx MyExt Finisher MyFinisher

### How to XCLASS Formhandler

Formhandler doesn't use the default pibase architecture. Therefore there is no possibility to change Formhandler's behaviour by Xclassing. But since Formhandler is structured in different classes, you can simply extend an existing class (e.g. Finisher\_DB) to satisfy your needs and enter your class name in TypoScript.

#### Example:

# How to use a master template

Master templates can be used to define a structure for your form fields or email templates. You can add the fields to your template by simply using a marker.

#### Example:

Master template:

```
<!-- ###field_input### -->
###error_###fieldname#####
<label for="###fieldname###">###LLL:###fieldname#####</label>
<input type="text" name="###fieldname###" id="###fieldname###" value="###value_###fieldname####" />
<!-- ###field_input### -->

<!-- ###field_submit### -->
###LLL:label_submit### <input type="submit" ###submit_nextStep### value="Abschicken" />
<!-- ###field_submit### -->
```



As you can see, there are two subparts containing the structure for an input field and the submit button.

Each subpart must begin with either "field\_" or "master\_" the rest is freely choosable.

In your HTML template you can simply add a marker referring to this subpart plus entering a fieldname as suffix:

The marker ###field\_input\_name### refers to the subpart ###field\_input###. The additional "\_name" is the value to replace the ###fieldname### markers with. If you don't add this suffix, the marker ###fieldname### doesn't get replaced (as in ###field\_submit###).

The replaced HTML will look like this:

Using the master template you can predefine HTML for fields and manage it in a single file. You can import the subpart to your HTML template as often as you want.

**NOTE:** If you use multiple master templates equally named subparts will be overriden by the last master template containing the subpart!

### How to use AJAX validation

To validate each field just after the user clicked outside it, you first have to add an AjaxHandler to your TypoScript:

```
plugin.Tx_Formhandler.settings {
    ajax {
        class = Tx_Formhandler_AjaxHandler_JQuery
        config {
            notOk = <span class="notOk">&nbsp;</span>
            ok = <span class="ok">&nbsp;</span>
            initial = <span class="###is_error_###fieldname#####">&nbsp;</span>
            loading = <img src="fileadmin/templates/images/loader.gif" />
        }
    }
}
```

The handler in this example will use the jQuery framework (www.jquery.com).

As you can see, you can specify the initial content, the content while loading and the content if the check was OK/not OK via TypoScript. This content will be inserted in markers like ###validate [fieldname]###.

#### Example:

```
<label for="contact_name">###LLL:label_name#####required_name###</label><br />
<input class="input" id="contact_name" type="text" name="contact[name]" value="###value_name###" />
###validate name###
```

The AJAX validation will use the error checks defined in the "fieldConf" section of Tx\_Formhandler\_Validator\_Default.



## How to upgrade from th\_mailformplus to Formhandler

There are many forms out there which use th\_mailformplus. If you ask yourself, what would happen if you did an update to Formhandler, here is a short explanation on how to change the TypoScript of th\_mailformplus to work with MailformplusMVC. This is not a complete tutorial, it only shows the basic differences. Many of the TypoScript settings are named equally, but some also have changed, were removed or didn't exist in th mailformplus.

### **TypoScript:**

A TypoScript setup for th\_mailformplus may look like this:

In this configuration a translation file is included, error checks are defined and settings for email sending to an admin and the user are made.

The same configuration with Formhandler will look this way:

```
plugin.Tx Formhandler.settings
      langFile = typo3conf/ext/th mailformplus/example form/singlepage forms/improved demo lang.php
      validators.1.class = Validator Default
      validators.1.config {
           name {
                  errorCheck.1 = required
                  errorCheck.1 = required
                  errorCheck.2 = email
            text {
                  errorCheck = required
            }
      finishers.1.class = FinisherMail
      finishers.1.config {
           admin {
                  to email = admin@host.com
                  sender email = noreply@host.com
           user {
                  to email = email
                  sender email = noreply@host.com
                  subject = Your contact request
            }
```

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As you see, the configuration looks similar, but Formhandler uses blocks like "validators" or "finishers" to make it possible to group any number of classes. So that it is possible to let "finishers.1" be a class to send emails and "finishers.2" be a class to store data into database.

When you compare the TypoScript options of th\_mailformplus with Formhandler you will find out that they are quite similar and you should have no problems with writing configuration for Formhandler if you knew th\_mailformplus before.

#### HTML:

Upgrading the HTML from th\_mailformplus to Formhandler is easier than you might think.

Formhandler uses nearly the same markers and subparts as th\_mailformplus.

Compare these two HTML templates for a simple contact form.

#### th mailformplus:

```
<-- ###TEMPLATE FORM### begin -->
<div class="mailformplus contactform">
###ERROR###
<form name="contact form" method="post" action="###REL URL###">
     <fieldset>
            <legend>###LLL:legend###</legend>
            <input type="hidden" name="id" value="###PID###" />
            <input type="hidden" name="submitted" value="1" />
            <input type="hidden" name="L" value="###value L###" />
            <input type="hidden" name="type" value="###value type###" />
                  <label for="name">###LLL:name#####required name###</label>
                  <input type="text" name="name" id="name" value="###value name###"/>
                  <br/>
                  <label for="subject">###LLL:subject###</label>
                  <input type="text" name="subject" id="subject" value="###value subject###"/>
                  <br/>
                  <label for="email">###LLL:email#####required name###</label>
                  <input type="text" name="email" id="email" value="###value email###"/>
                  \langle br/ \rangle
                  <label for="phone">###LLL:phone###</label>
                  <input type="text" name="phone" id="phone" value="###value phone###"/>
                  <label for="text">###LLL:text#####required name###</label>
                  <textarea cols="50" rows="5" name="text" id="text"</pre>
style="width:320px;">###value text###</textarea>
                  <br/>
                  <div class="caption">###LLL:contact via###</div>
                 <input type="radio" name="contact via" value="email" id="contact email" style="border-</pre>
style:none;" ###checked_contact_via_email### /><label_class="radio_caption"
for="contact email">###LLL:contact via email###</label><br />
                 <input type="radio" name="contact via" value="phone" id="contact phone" style="border-</pre>
style:none;" ###checked_contact_via_phone### /><label_class="radio_caption"
for="contact phone">###LLL:contact via phone###</label>
                  <br/>>
                  ###LLL:required fields###
                  <input type="submit" value="###LLL:submit###"/>
            </div>
      </fieldset>
</form>
</div>
<!-- ###TEMPLATE FORM### end -->
```

Now we take this template and make it compatible with Formhandler.

The changes will be:

- Change subpart to ###TEMPLATE\_FORM1###
- Add ###submit\_nextStep### to submit button

No more changes are required. All other markers are exactly the same in Formhandler.



- ###value\_[fieldname]###
- ###error\_[fieldname]###
- ###LLL:[key]###
- ###required\_[fieldname]###
- ###checked\_[fieldname]\_[fieldvalue]###
- ###selected\_[fieldname]\_[fieldvalue]###



# Known problems

When using AJAX remove links for uploaded files the file markers such as ###[fieldname]\_fileCount###
do not get updated because the request only refreshes the content of the marker
###[fieldname]\_uploadedFiles###. A possible solution would be to reload the whole form using the AJAX
request.



# To-Do list

- Add a 1-2-3 wizard to generate form templates, translation files and TypoScript setup code.
- Think about integration of "extBase" architecture and usage of Fluid.