



# Workflow Designer

Using HTTP Handler to create Webforms

With the help of the Workflow Designer module it is possible to easily create powerful and flexible Webforms.

One benefit from Workflow Designer HTTP Handler is, that the function is also possible, when your CRM is behind a firewall and you don't want to open it for public users.

(Maybe secured by HTTP Login, Client Certificates etc. or simpel private IP)

### 1. Create your Webform

You could use the internal Webforms Builder to create the HTML code of the Form or use a CMS to create the Form.

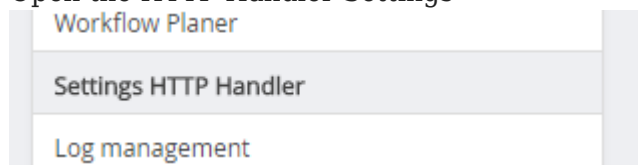
It is important to use fieldnames, equal to fieldnames in your CRM to make it easier.

### 2. Create the Workflow

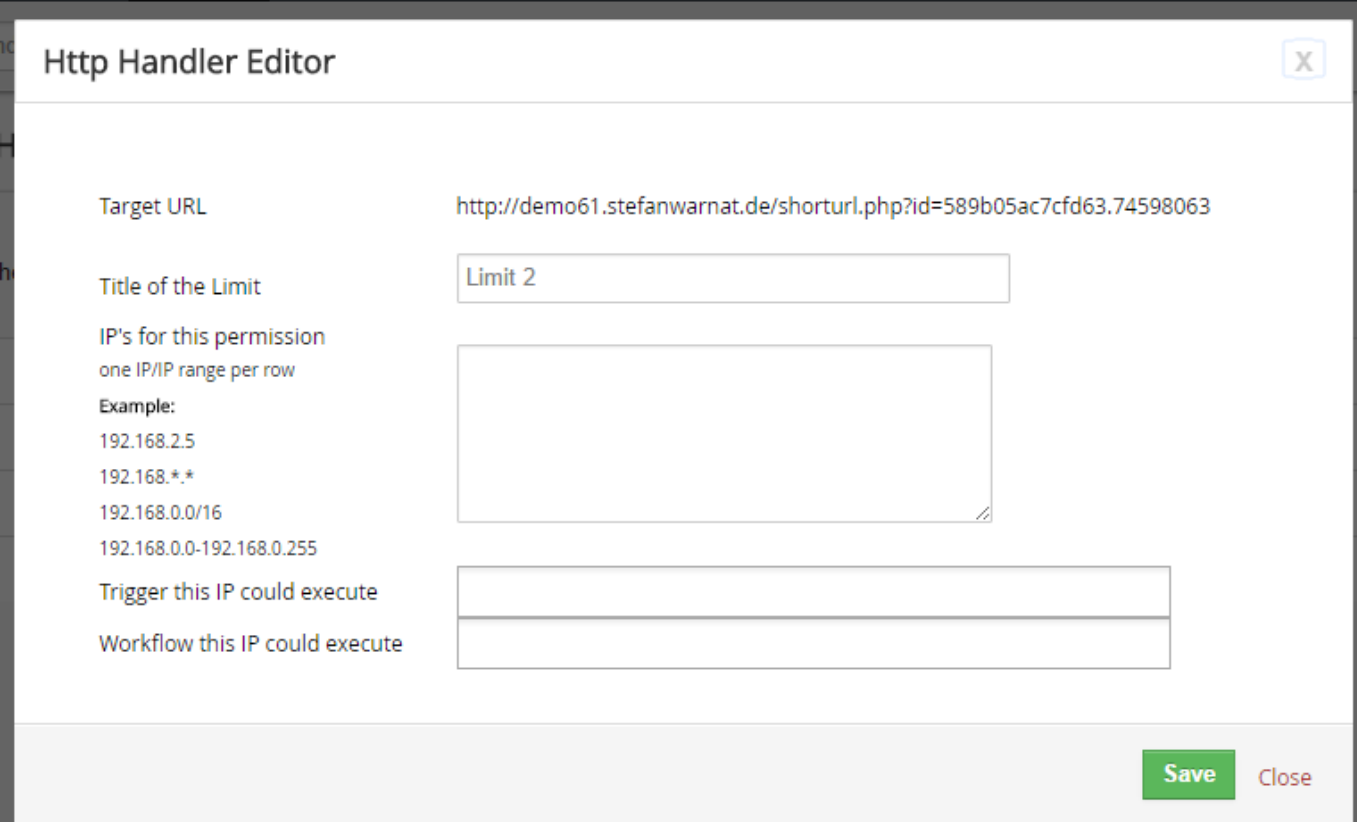
After the creation of the Workflow this is another complex point and you need to configure it carefully if you don't want to lost requests.

The HTTP Handler works with Permission entries. You could allow single IP's or IP ranges access to one or more workflows. They cannot access other workflows then the configured ones. Otherwise they are able to trigger every action in your system.

#### 1. Open the HTTP Handler Settings



#### 2. Add a new Permission Entry



The screenshot shows the 'Http Handler Editor' window. It contains the following fields and values:

- Target URL:** http://demo61.stefanwarnat.de/shorturl.php?id=589b05ac7cfd63.74598063
- Title of the Limit:** Limit 2
- IP's for this permission:** (Empty text area)
- Example:** 192.168.2.5, 192.168.\*.\*, 192.168.0.0/16, 192.168.0.0-192.168.0.255
- Trigger this IP could execute:** (Empty text area)
- Workflow this IP could execute:** (Empty text area)

At the bottom right, there are two buttons: a green 'Save' button and a red 'Close' button.

The most important information is the **Target URL**. They is required within the action attribute of your

HTML Tag.

The **Title** is something for you to remember the usage of this permission entry.

Within the next field "**IP's for this permission**" you need to add a list of IP/CIDR/IP Ranges, which could call this Target URL. If you decide to use the HTTP Handler without a gateway script, you need only to enter a "\*" within this field.

This allow every IP to access. **Per default the access is denied for all IP's.**

You could use single IP's or IP ranges in the following formats:

- 192.168.0.\*
- 192.168.0.100-192.168.0.160
- 192.168.0.0/24

To configure Triggers is only available for deprecation reason and cannot used in a efficient way.

The last Field allows you to enable single Workflows to be executed within this Permission Entry.

The number before the Workflows is important, because it the ID you need to use in Webform.

**Pay attention:** Theoretically EVERY Workflow you enable in this list, could be executed by bad guys. There is no additional security layer, if IP match.

Press "Save" after you finished the configuration.

### 3. Update HTML Code of form or adjust the CMS Settings

In this step the setup with [Gateway Script](#) and without Gateway Script differ.

#### 3.1 Without gateway script

In this setup the user directly request a Short URL in your VtigerCRM.

You need to take the "Target URL" and set it into the Webforms action attribute, with two additions:

1. You need to add the Workflow ID you want to execute with the parameter "workflow\_id".
2. You need to add the parameter direct with value 1 to give Workflow Designer the information he shouldn't respond with a JSON string and instead directly redirect the User

Your final URL will look similar to this:

```
<vtigerDomain>/shorturl.php?id=1234567890ABCDEF&direct=1&workflow_id=13
```

**In this example URL 13 is the ID of the Workflow, which should be executed.** You get this ID from the workflow overview or the permission entry configuration.

Http Handler Editor

Target URL

Title of the Limit: Limit 1

IP's for this permission  
one IP/IP range per row  
Example:  
192.168.2.5  
192.168.\*.\*  
192.168.0.0/16  
192.168.0.0-  
192.168.0.255

Trigger this IP could execute

Workflow this IP could execute: x 10 - Workflow 10 x 12 - Workflow 12

Workflow IDs Save Cancel

### 3.2 With the gateway script

The gateway script allows you to pass a security layer in front of your CRM without to share the credentials with public internet. You found the file here: <https://gist.github.com/swarnat/a38daa31cfb5130af171e8ac92c0bd22>

Within this script you setup the Target URL, you get within Http Handler Editor and attach the workflow\_id, like described in 4.1.

### 4. Test the Setup

If you test the form and get a message "ACCESS\_DENIED for <IP>", then you misconfigure the Permission Entry and needs du adjust the IP rules. If this happens, you also get a small number in Workflow Designer Sidebar and a log entry within the HTTP Handler, which helps you to better figure out the correct URL.

The screenshot shows the Workflow Designer interface. On the left is a navigation menu with the following items: Workflow Display Manager, EditView Manager, Provider Manager, Workflow Planer, Settings HTTP Handler, and Log management. The 'Settings HTTP Handler' item is highlighted with a green box containing a red circle with the number '2'. The main area displays a window titled 'HTTP Handler Demo' with a yellow pencil icon and an asterisk. Below the title bar is a log window titled 'errors during last 7 days' with a green border. The log contains two entries:

```
[08-02-2017 12:08:24] [87.134.26.231] ACCESS_DENIED for 87.134.26.231  
[08-02-2017 12:07:10] [87.134.26.231] ACCESS_DENIED for 87.134.26.231
```

