

Connecting with JustPay METHOD 3



Code generation: **by JustPay**

Code verification: **by JustPay**

With this method it is possible to connect to JustPay system via PHP scripts or Joomla modules. Both options are described below.

Connection via PHP scripts

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1. Step-by-step guide for creating your service

1. Register with JustPay service and wait for email confirming your registration.
2. After you sign-in, define the commands and numbers of SMS Premium.
 - a. “Commands” section – “add new command” button
 - b. Choose prefix from the list and a command suffix
 - c. Accept with “OK” button (the system shall automatically go to section 3).
3. Add the number to the command (“add number” link in “Commands” section)
 - a. Choose the SMS Premium number from the list of available numbers
 - b. Choose the generation method – in this case “Method 3”
 - c. Choose the length and number of codes in a pack (default values are possible)
 - d. Define the return SMS – write the contents of return SMS in the window; the series of ‘\$1’ signs shall be replaced by one of the codes from the pack
 - e. Accept the number with “OK” button.
4. Having defined all necessary numbers (more than one can be added), order the activation of the command.
5. When the command is accepted by the system administrator, the user shall be informed via email. Awaiting the acceptance, further steps may be performed.

When JustPay system receives the User’s SMS:

1. JustPay automatically generates a code (according to the parameters).
2. JustPay saves the generated code in its database and sends back a SMS with the code.
3. The User enters the code on the Partner’s www page.
4. Partner asks JustPay for correctness of the code with the chosen policy.
5. If the code is correct, the User shall be granted access to the chargeable section of the service.

2. How to setup and implement example or own scripts?

The generation of the code (a unique password) for which the user pays is constructed in such a way that codes are generated automatically on the side of JustPay.

1. Preparation of an unsecured page with an element allowing for access to the secured section. Add the following PHP code in the relevant field on the page:

```
<?php
    include_once('secure/CodeCheck.php');
    $c = new CodeCheck("KOD.TEST", "7255");
    $c->render("proszę podać kod:", "secure/other.php");
?>
```

In the place of "proszę podać kod: /please provide code/, insert the text to be displayed in the code window and instead of "secure/other.php", the secured page to which the viewer is to be redirected upon entering the correct code. Naturally, "KOD.TEST" and "7255" should be replaced with a defined command and one of the SMS Premium numbers.

2. Preparation of a secured page. In order to secure the page, add at the very beginning in PHP code the following:

```
<?php
    session_start();
    include_once('CodeCheck.php');
    $c = new CodeCheck("KOD.TEST", "7255");
    if (!$c->isSessionCodeValid()) {
        include_once('enter.php');
        exit;
    }
?>
```

3. For this method the following example scripts have been prepared: katalog secure + index.php --- example page (with a secured and non-secured section).

3. Example scripts

The presented scripts are just examples – often very simplified or schematic. If integrated with the production system, please make sure to check them in terms of requirements of a particular application and compliance with the safety standards applied by the target system.

CodeCheck Class

CodeCheck class defined in CodeCheck.php file in secure catalogue is designed to secure PHP scripts with the use of JustPay codes. The parameters of the class constructor are:

1. command (contents of SMS message sent by the User),
2. LA (number to which SMS message is sent).

Parameters of communication with justpay server are stored in `config.php` file, which is included in `CodeCheck.php`.

For the class to function correctly, information is required, which is stored in the session. If it is impossible to save SID identification in cookie, a different way of providing such parameter must be ensured.

The use of `CodeCheck` class is very simple. At the beginning of PHP script, which is to be “secured” add the following code fragment:

```
<?php
    session_start();
    include_once('CodeCheck.php');
    $c = new CodeCheck("KOD.TEST", "7255");
    if (!$c->isSessionCodeValid()) {
        // akcja w przypadku niepoprawnego kodu
        exit;
    }
?>
```

To display the form for the user to enter the code, the following fragment of the code may be used:

```
<?php
    include_once('CodeCheck.php');
    $c = new CodeCheck("KOD.TEST", "7255");
    $c->render("podpis:", "strona.php");
?>
```

In the field `"podpis"/signature/` enter the label to be associated with the text field for the code and in the field `"strona.php"/php.page/` — enter the page to which the user shall be redirected upon entering the correct code.

4. Example of a secured page

A complete example of a “secured” page comprises the following files:

- `index.php` — a non-secured page from which there are two ways of going to the secured version,
- `secure/CodeCheck.php`¹ — the abovementioned definition of `CodeCheck` class,
- `secure/enter.php` — an example of an enter code form,
- `secure/index.php` — the first secured page (from where it is possible to go to the second secured page)
- `secure/other.php` — the second secured page (allows for returning to the first: “master” secured page).

¹Notation `katalog/plik.php` means: a file named `plik.php` is stored in catalogue `katalog`.

If the setup is correct, the example page should operate in the following manner:

1. without entering any code – it should be possible to view (via the browser) the first page (index.php);
2. any attempt to go to the “secured” page should result in the display of secure/enter.php page;
3. if a correct code is entered on index.php or secure/enter.php page, the user should be able to move between the secured and non-secured pages (without the need to enter the code once again).

5. Protection of non-text data

The presented example page illustrates how PHP scripts are secured. If it is necessary to protect non-text data (images, music files etc.), the presented solution shall not work. The problem may be solved in many ways. The simplest way is to introduce an indirect script and to transfer data to a catalogue to which WWW server has no access.

In secure catalogue, there is `jpeg.php` script, which illustrates how images such as JPEG can be secured. To use it, replace elements such as:

```

```

with elements such as:

```

```

In `jpeg.php` script only the catalogue needs to be configured (variable `$BASE`), where files with images are stored.

Connection via Joomla modules

Installation

The pack uploaded from www.justpay.pl with joomla files is installed in a standard way:

1. sign in as an administrator,
2. click on 'Extensions -> Install/Uninstall' menu,
3. check the uploaded pack,
4. click 'Upload File & Install'
5. after a correct installation, activate the plug-in: menu:
'Extensions -> Plugin Manager'. Find 'Content - Avantis smscodes' plug-in.

NOTE

Because of joomla limitation (version 1.5), files with translations for the plug-in are installed only in languages, which are installed for the 'administrator' joomla part. For this reason, if you wish to have plug-in in Polish, it is necessary to install a Polish translation of joomla interface or manually create a relevant catalogue prior to plug-in installation. However, if you want to for various commands were different configuration parameters, use the second method.

Setup

The plug-in may be setup in two ways:

1. via joomla administrator panel,
2. via {avsmscodes} tag.

The second method is 'more important' --- it overwrites the values provided in the administrator panel. The values may be treated as 'default' for the entire system.

Setup parameters

- enabled: setup as 1
- login, password: the same as for www.justpay.pl
- url: it is recommended to leave the values <https://www.justpay.pl/smscodes/rpc>, however, the https protocol requires a special installation of joomla. Should any problems occur, you may switch to http (remember that it is a non-secured protocol).
- command, la: setup for the contents and sms premium number to which the contents are to be sent. These parameters should be 'overwritten' with {avsmscodes} tag.

- scope: scope of 'security' with sms codes. In the beginning it is recommended to setup 'auto propagacja', as it does not require the use of {avsmscodes} tag in the protected contents.
- tag: id of the group secured with codes --- such configuration is feasible only if it is necessary to 'secure' articles belonging to many categories/sections.
- catid, sectionid: these are category/section ids, which are to be secured if automatic propagation parameter is chosen. These parameters (as all other) may be overwritten with a tag, but such action is not recommended.
- introOnFail, formOnMain: parameters controlling the method of displaying the form and article to which access was not allowed by entering the code.
- store, validitySecs: method of storing information about the validity of sms code. It is recommended to leave default values. Changes in setup are feasible only in case of time codes --- in such case it is best to change validitySecs into – for example - 300: whereby justpay.pl shall recheck every 300s whether the code is still valid. More frequent rechecks are pointless and may only slowdown the page.

Overwriting the parameters

Parameters may be overwritten for every article separately. The format is as follows: {avsmscodes parametr1=wartość, paramter2=wartość ...}.

For example: {avsmscodes command=KOD.INNY, la=7936} shall cause overwriting 'default' values of parameters command and la; the following parameters are quoted after setup in the administrator panel.

The article should be divided in honor of the visible and the invisible (required to use the pagebreak function). In the first part (visible to all) at the beginning of the article should appear {avsmscodes}. The second part (located below the pagebreak) will only become apparent after sending an SMS to a specific command and number.

Setup on www.justpay.pl

The plug-in is prepared to collaborate with 'Method 3 (advanced 2)'. A command should be created and at least one LA number added with method 3 chosen. The setup of parameters as in 'standard' usage.

Testing

To test the plug-in you should register in justpay.pl, create some service using method 3, and using these parameters, you can test the effect plugin.

Examples

In the examples below it is assumed that login/password/url are correctly configured. The plug-in in Joomla must be activated.

1. Target: section named 'Secured' to be accessible upon sending KOD.PRZYKLAD to 7636.

Setup: we setup command to 'KOD.PRZYKLAD', la to '7636' choose 'scope' to automatic propagation and choose 'Secured' section from the list.

2. Additionally, we want to secure an article beyond 'Secured' section and setup a higher price (9zł).

Setup: Act as in par. 1, in addition, in the article of greater value, add (in the article contents): {avmscodes la=7936}.

3. Target: every article is to be secured separately (gaining access to one article does not allow for accessing another article).

Setup: setup 'scope' to 'art' ('Article for SMS'), a relevant command and la. In addition, in every secured article {avmscodes} must be added.

4. Target: separate security for many categories (gaining access to any article of a particular category allows for access to all articles of that category; however, access to articles of other categories is still denied).

Setup: setup 'scope' to 'cat' ('Category for SMS'), a relevant command and la. In addition, in every secured article {avmscodes} must be added.

Should you have any questions, please contact us at: justpay@avantis.pl