

Idram Payment System merchant interface description

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1. Requirements

This document describes the interaction scheme between a merchant and Idram Merchant Interface. There are 3 URLs, 1 secret key and 1 email address for each merchant working with the Idram system.

- SUCCESS_URL
- FAIL_URL
- RESULT_URL
- SECRET_KEY
- EMAIL

At the moment these 5 parameters are set by Idram payment system technical personnel after signing an agreement with merchant company.

SUCCESS_URL	A script or html page URL, to which user has to be redirected when transaction has been complete successfully
FAIL_URL	A script or html page URL, to which user has to be redirected when transaction has been failed
RESULT_URL	The URL of script which processes Idram system requests
SECRET_KEY	A secret key, known only to merchant and Idram system
EMAIL	Email address, to which payment confirmation will be sent if "OK" reply was not received from merchant during payment confirmation process

2. Payment via Idram Wallet (Web)

The merchant must generate html form, containing the following hidden fields:

Field	Description
EDP_LANGUAGE	(RU,EN,AM) In this field merchant sets Idram interface language
EDP_REC_ACCOUNT	IdramID of the merchant, which receives customer's payment
EDP_DESCRIPTION	Product or service description. If set, it is assigned to the payment description in Idram transaction
EDP_AMOUNT	Payment amount, which merchant requests from the customer. The amount must be greater than zero. Fraction must be separated by period (dot)
EDP_BILL_NO	In this field merchant sets bill ID according to his accounting system
EDP_EMAIL	Email address, to which payment confirmation will be sent if "OK" reply was not received from merchant during payment confirmation process. If set, it overloads EMAIL field value for the current operation
Additional merchant fields	All fields not having "EDP_" prefix, are automatically processed by Idram service and posted to the merchant's web-site after payment completion

The form must send a request to <https://banking.idram.am/Payment/GetPayment> (by action parameter) using POST method. Idram interface uses utf-8 encoding. It means that **EDP_DESCRIPTION** field must contain text encoded with utf-8.

Below is an example of the payment request html form.

```
<form action="https://banking.idram.am/Payment/GetPayment" method="POST">
  <input type="hidden" name="EDP_LANGUAGE" value="EN">
  <input type="hidden" name="EDP_REC_ACCOUNT" value="100000114">
  <input type="hidden" name="EDP_DESCRIPTION" value="Order description">
  <input type="hidden" name="EDP_AMOUNT" value="1900">
  <input type="hidden" name="EDP_BILL_NO" value="1806">
  <input type="submit" value="submit">
</form>
```

After user clicks on "Submit" button he is redirected to the Idram payment system web-page and passes the authentication. After that Idram system sends two POST (Content-Type = x-www-form-urlencoded) requests to aforementioned URL (RESULT_URL): first **(a)** for confirmation of order authenticity, and second **(b)** for confirmation of payment transaction. See Order Confirmation section (section 5).

3. Payment via Idram Wallet (Mobile app)

In this case from merchant mobile app can be opened Idram Mobile Wallet and payment will be done directly in mobile wallet.

Manual of it is here for iOS and Android platforms:

<https://github.com/karapetyangevorg/IdramMerchantPayment>
<https://github.com/karapetyangevorg/IdramMerchantPayment-Android>

Back end integration is the same as a web version. See Order Confirmation section (section 5).

4. Bank Card (VISA/MasterCard)

Bank Card payment interface can be ported into Merchant's web page using iframe.

URL for loading it:

`https://money.idram.am/AM/ccepayMerchant.aspx?EDP_REC_ACCOUNT=100000114&EDP_A
MOUNT=1000&EDP_BILL_NO=1`

In frame form client will input the bank card details and will see the transaction result.

Back end integration is the same as a web version. See Order Confirmation section (section 5).

5. Order Confirmation

(a) Order authenticity confirmation (preliminary request).

Before transferring funds from customer's IdramID to merchant's IdramID, Idram Merchant Interface initiates http two POST (Content-Type = x-www-form-urlencoded) request to RESULT_URL (see above).

This request checks the authenticity of the payment order. This form sends payment parameters to the merchant immediately before its execution. It contains following fields (parameters with query string):

EDP_PRECHECK	Value is set to "YES". This parameters shows that current request is preliminary
EDP_BILL_NO	This field contains bill ID according to the merchant's accounting system, received from merchant's web-site
EDP_REC_ACCOUNT	Merchant IdramID (in Idram system) to which customer made the payment
EDP_AMOUNT	Amount that must be paid by the customer. Fraction must be separated by period (dot)

The merchant must check all received data and if they are correct (i.e. such order was actually made) it must send "OK" message back (without any html formatting). If the system will not receive "OK" message, Idram will not allow customer pay the bill, i.e. money will not be transferred and system will redirect the customer to FAIL_URL.

(b) Payment confirmation.

This http POST (Content-Type = x-www-form-urlencoded) request sends payment parameters to the merchant after its completion. It has the following fields (parameters with query string):

EDP_BILL_NO	This field contains bill ID according to the merchant's accounting system
EDP_REC_ACCOUNT	Merchant IdramID (in Idram system) to which customer made the payment
EDP_PAYER_ACCOUNT	Customer IdramID (in Idram system) from which customer made the payment
EDP_AMOUNT (format-0.00)	Amount that must be paid by the customer. Fraction must be separated by period (dot)
EDP_TRANS_ID format - char(14)	Payment transaction ID in Idram system. A unique number in Idram system.
EDP_TRANS_DATE format -dd/mm/yyyy	Transaction date

EDP_CHECKSUM: Payment data checksum allows to check the source and the integrity of the data sent to the RESULT_URL by **"Payment confirmation"** request.

The checksum is calculated for the following fields:

- EDP_REC_ACCOUNT
- EDP_AMOUNT
- SECRET_KEY
- EDP_BILL_NO
- EDP_PAYER_ACCOUNT
- EDP_TRANS_ID
- EDP_TRANS_DATE

Which are concatenated (imploded) by colon (":").

Then the MD5 hash of the concatenated string is calculated and its value is assigned to the EDP_CHECKSUM parameter. The merchant must execute same calculation in order to check the source and integrity of the data.

6. Example of response to order confirmation

Below is a sample of RESULT_URL :

Please, pay attention that this is just a sample. Do not use this code in your system.

```
define("SECRET_KEY", "FakeKey"); // Idram Payment System provide it
define("EDP_REC_ACCOUNT", "FakeID"); // Idram Payment System provide it

if(isset($_REQUEST['EDP_PRECHECK']) && isset($_REQUEST['EDP_BILL_NO']) &&
isset($_REQUEST['EDP_REC_ACCOUNT']) && isset($_REQUEST['EDP_AMOUNT']))
{
    if($_REQUEST['EDP_PRECHECK'] == "YES")
    {
        if($_REQUEST['EDP_REC_ACCOUNT'] == EDP_REC_ACCOUNT)
        {
            $bill_no = $_REQUEST['EDP_BILL_NO'];
            // this code checks if $bill_no exists in your system orders if exists then echo OK otherwise
            echo("OK");
        }
    }
}

if(isset($_REQUEST['EDP_PAYER_ACCOUNT']) && isset($_REQUEST['EDP_BILL_NO']) &&
isset($_REQUEST['EDP_REC_ACCOUNT']) && isset($_REQUEST['EDP_AMOUNT'])
&& isset($_REQUEST['EDP_TRANS_ID']) && isset($_REQUEST['EDP_CHECKSUM']))
{
    $txtToHash =
        EDP_REC_ACCOUNT . ":" .
        $_REQUEST['EDP_AMOUNT'] . ":" .
        SECRET_KEY . ":" .
        $_REQUEST['EDP_BILL_NO'] . ":" .
        $_REQUEST['EDP_PAYER_ACCOUNT'] . ":" .
        $_REQUEST['EDP_TRANS_ID'] . ":" .
        $_REQUEST['EDP_TRANS_DATE'];

    if(strtoupper($_REQUEST['EDP_CHECKSUM']) != strtoupper(md5($txtToHash)))
    {
        // please, write your code here to handle the payment
    }
    else
    {
        // please, write your code here to handle the payment success
        echo("OK");
    }
}
```