



Merchant Integration Guide
osCommerce Shopping Cart – Version 2.0



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1. Introduction

OsCommerce is an online store-front shop solution that is available for free. It is an open-source software released under the GNU General Public License. The software has a shopping cart component and a payment module component that allow online customers to make payment for contents of their cart using a payment method of their choice.

2. About this Documentation

This document contains the instructions for integrating eSelect Plus into osCommerce as a payment processor. It also describes the required administration of osCommerce to configure it for eSelectPlus.

Please be advised that this osCommerce module release is a second version of this package. This release contains updates to utilize the current version of the DirectPost integration method. For more details on our current version of DirectPost, please see:

https://www3.moneris.com/connect/en/download/feb05/DIRECTPOST/DirectPost_Integration_Guide_V3.pdf

3. System and Skill Requirements

In order to support this online store-front solution your system will need to have the following:

1. A web server with an SSL certificate.
2. osCommerce version 2.2 software.

As well, you will need to have the following knowledge and/or skill set for the integration:

1. osCommerce software configuration and administration.
2. PHP.

4. What is the Process I will need to follow?

You will need to follow these steps.

1. Run the "Moneris.sql" script to create the required "moneris_orderids" table in your database.
2. Copy the "moneriseselectplus.php1" file to the "\catalog\includes\modules\payment" folder on your web server and rename it to "moneriseselectplus.php" (without "1" at the end).
3. Copy the "moneriseselectplus.php2" file to the "\catalog\includes\languages\english\modules\payment" folder on your web server and rename it to "moneriseselectplus.php" (without "2" at the end).
4. Create a "moneris" folder in the "\catalog\includes\" folder.
5. Copy the "insert_moneris_orderid.php" file to the "\catalog\includes\moneris" folder.
6. Add line "define('TABLE_MONERIS_ORDERIDS', 'moneris_orderids');" into the following files:

```
\catalog\includes\application_top.php  
\catalog\admin\includes\application_top.php
```
7. Add line "define('DIR_WS_MONERIS', DIR_WS_INCLUDES. 'moneris/');" into the "\catalog\includes\configure.php" file.

8. Add code

```
$selected_processor = $payment_modules->selection();
if( $selected_processor[0]['id'] == 'moneriseselectplus' ) {
    include( DIR_WS_MONERIS . 'insert_moneris_orderid.php');
}
```

to line 111 of the "\catalog\checkout_process.php" file (After this section of code):

```
-----
for ($i=0, $n=sizeof($order_totals); $i<$n; $i++) {
    $sql_data_array = array('orders_id' => $insert_id,
        'title' => $order_totals[$i]['title'],
        'text' => $order_totals[$i]['text'],
        'value' => $order_totals[$i]['value'],
        'class' => $order_totals[$i]['code'],
        'sort_order' => $order_totals[$i]['sort_order']);
    tep_db_perform(TABLE_ORDERS_TOTAL, $sql_data_array);
}
-----
```

9. Add code

```
<?php
//Phet - Show eSelect Plus Order ID.
$eSelectPlus_order_id_query = tep_db_query("select moneris_orderid from " .
TABLE_MONERIS_ORDERIDS . " where orders_id = " . tep_db_input($oID) );

if (tep_db_num_rows($eSelectPlus_order_id_query)) {
    echo ' <tr>' . "\n" .
        ' <td class="main">' . "\n" .
        ' <table border="1" cellspacing="0" cellpadding="5">' . "\n" .
        ' <tr>' . "\n" .
        ' <td class="smallText" align="center"><b>eSelect Plus Order ID</b></td>' . "\n" .
        ' </tr>';
    while ($eSelectPlus_order_id = tep_db_fetch_array($eSelectPlus_order_id_query)) {
        echo ' <tr>' . "\n" .
            ' <td class="smallText" align="center">' . $eSelectPlus_order_id['moneris_orderid'] . '</td>' .
            "\n" .
            ' </tr>' . "\n";
    }
    echo ' </table>' . "\n" .
        ' </td>' . "\n" .
        ' </tr>';
} ?>
```

to line 251 of the "\catalog\admin\orders.php" file (After this section of code):

```
-----
<?php
for ($i = 0, $n = sizeof($order->totals); $i < $n; $i++) {
    echo ' <tr>' . "\n" .
        ' <td align="right" class="smallText">' . $order->totals[$i]['title'] . '</td>' . "\n" .
        ' <td align="right" class="smallText">' . $order->totals[$i]['text'] . '</td>' . "\n" .
        ' </tr>' . "\n";
}
-----
```

```
?>
    </table></td>
  </tr>
</table></td>
</tr>
<tr>
  <td><?php echo tep_draw_separator('pixel_trans.gif', '1', '10'); ?></td>
</tr>
```

10. Log into the eSelectPlus Merchant Resource Center and create a DirectPost configuration (Admin – DirectPost Config). Please select the “POST” response method and set the Approved and Declined URL’s to your “catalog\checkout_process.php” file location. Select “no” for all other options. For more information about our DirectPost method of integration, please refer to our DirectPost Integration Guide at <https://www3.moneris.com/connect/en/documents/index.html>.
11. Log into the osCommerce’s administrative tool to enable the Moneris Solutions’ eSelect Plus payment module and configure it to use your DirectPost configuration.

5. How Do I Test My Solution?

A testing (development) environment is available for you to connect to while you are integrating your site to our payment gateway. The test environment is available 7x24, however since it is a development environment we cannot guarantee 100% availability. The development Store Ids that are available for use are “store1”, “store2”, and “store3”. The test URL is “<https://esqa.moneris.com/directpost/index.php>”.

The development environment will approve and decline transactions based on the penny value of the amount. ,00, and .01 will approve, other values will decline (e.g. 37.01 will approve and 37.10 will decline). Please see Appendix A for details on the values you must send to simulate the various responses.

When testing you can use any card number with any expiry date. The following test card numbers can be used as well with any expiry date.

Test Card Numbers	
Card Plan	Card Number
Mastercard	5454545454545454
Visa	4242424242424242

To access the Merchant Resource Center in the test environment go to <https://esqa.moneris.com>. You can use the User ID’s and passwords in the table below and then create your own ids.

Test IDs			
Store Ids	API Tokens	User ID	Password
Store1	yesguy	DemoUser	password
Store2	yesguy	DemoUser	password
Store3	yesguy	DemoUser	password

The test environment has been designed to replicate our production environment as closely as possible. One major difference is that we are unable to send test transactions onto the authorization network and thus Issuer

responses are simulated. Additionally, the requirement to emulate approval, decline and error situations dictates that we use certain transaction variables to initiate various response and error situations.

6. What Information Will I get as a Response to My Transaction Request?

For each approved payment transaction using eSelect Plus as the payment processor you will receive a response message. This message will be stored in the "response_variables" field of the "moneris_orderids" table created in step 1 of section 3 above. The individual fields of the response message are described in Appendix B.

Due to the design nature of osCommerce and eSelect Plus' Order Id generations, the "moneris_orderids" table is required to link the Order Ids of the 2 systems. The eSelect Plus Order Id of a particular order can be viewed in the Orders detail page in the administration side of osCommerce. This Order Id is required if a follow-on transaction needs to be performed in the Merchant Resource Center.

7. What Do I Need to Include in the Receipt?

Visa and Mastercard expect certain variables be returned to the cardholder and presented as a receipt when a transaction is approved. These 12 fields are listed below. A sample receipt is provided in Appendix F.

1. Amount
2. Transaction Type
3. Date and Time
4. AuthCode
5. ResponseCode
6. ISO Code
7. Response Message
8. Reference Number
9. Goods and Services Order
10. Merchant Name
11. Merchant URL
12. Cardholder Name

8. How Do I Activate My Store?

Once you have received your activation letter/fax go to <https://www3.moneris.com> and click on 'Activate'. You will need to input your Store Id and Merchant Id. Once this is confirmed you will need to create an administrator account that you will use to log into the Merchant Resource Centre to access and administer your eSelect Plus store.

9. How Do I Configure My Store For Production?

Once you have completed your testing you are ready to point your store to the production host. You will need to change the Gateway URL field in osCommerce's administration page for the eSelect Plus payment module to "https://www3.moneris.com/HPPDP/index.php". You will also need to change the Store Id to reflect your production Store Id.

Once you are in production you can access the Merchant Resource Centre at <https://www3.moneris.com/mpg/>. You can use the administrator account id you created during the activation process and then create additional users as needed.

For further information on how to use the Merchant Resource Centre please see the eSelect Plus Merchant Interface User's Guide which is available at <https://www3.moneris.com/connect/en/documents/index.html>.

10. How Do I Get Help?

If you require technical assistance during integration, please contact the eSelect Plus Helpdesk:

Phone: 1-888-248-3547

Email: eselectplus@moneris.com

When sending an email, be sure to include your name and phone number as well as a clear description of the problem. For security reasons, please do not email us your API Token nor any credit card number of your clients. Merchant Id, ECR Device number, and Store ID should not be sent in the same email.

Appendix A: Development Response Codes

The following table illustrates the various responses you will receive by altering the transaction penny value when sending transactions to Moneris' development system.

VISA, MASTERCARD and DINERS Cards

\$ Amount	Response Code		Visa Description
	ISO	B24	
0.00	"00"	"027"	Approval
0.01	"01"	"027"	Approval
0.08	"08"	"004"	Tran approved, with id.
0.10	"10"	"001"	Approval for partial amt
0.11	"11"	"028"	Approved VIP
0.23	"85"	"027"	No reason to deny, acct verify
0.02	"02"	"484"	Acquirer contact issuer spec
0.03	"03"	"476"	Merchant invalid on network
0.04	"04"	"479"	Pick up card
0.05	"05"	"481"	Transaction not approved
0.06	"06"	"050"	Error
0.07	"07"	"480"	Pick up card, spec cond.
0.09	"09"	"078"	Request in progress
0.12	"12"	"476"	Tran not allowed
0.13	"13"	"476"	Tran amt, not allowed POS
0.14	"14"	"477"	Invalid card number
0.15	"15"	"476"	Card iss. not found
0.19	"19"	"476"	Re-enter transaction
0.41	"41"	"478"	Lost card, pick up
0.43	"43"	"480"	Stolen card, pick up
0.51	"51"	"481"	Not sufficient funds
0.54	"54"	"482"	Expired card
0.57	"57"	"481"	Tran not allowed
0.58	"58"	"481"	Tran not allowed
0.61	"61"	"483"	Exceeds approval amt limit
0.62	"62"	"481"	Restricted card
0.63	"63"	"074"	Security violation
0.65	"65"	"481"	Exceeds approval cnt limit
0.68	"68"	"113"	Timeout
0.20	"81"	"486"	Cryptographic pin error
0.21	"83"	"074"	STIP cannot approve
0.22	"84"	"050"	Pre-auth time too great
0.24	"91"	"476"	Destination unavailable
0.91	"01"	"028"	Approved - 5 second delay
0.92	"01"	"028"	Approved - 10 second delay
0.93	"01"	"028"	Approved - 15 second delay
0.94	"01"	"028"	Approved - 20 second delay

0.95	"01"	"028"	Approved - 25 second delay
0.96	"01"	"028"	Approved - 30 second delay
0.97	"01"	"028"	Approved - 35 second delay
0.98	"01"	"028"	Approved - 40 second delay

AMEX Card

Amount	Response Code	Description
.00	00	AUTHORIZED
.37	00	AUTHORIZED
.70	00	AUTHORIZED
.02	02	DENIAL 11
.07	07	INVALID MERCHANT
.09	09	ACCOUNT ERROR - RETRY
.10	10	EXPIRED CARD
.30	0A	AMOUNT ERROR - RETRY
.50	50	CALL AMEX

NOTE: The value of any transaction should not exceed \$1,000.00. The cent value of the transaction is what determines the response code. For example, a transaction made with a Visa card for an amount of \$1.01 will be approved while a transaction value of \$1.20 would result in a decline.

Appendix B: Definitions of Response Fields

Response Fields		
Variable Name	Size/Type	Description
order_id	99 / an	order_id specified in request
ReferenceNum	18 / num	The reference number is an 18 character string that references the terminal used to process the transaction as well as the shift, batch and sequence number, This data is typically used to refernce transactions on the host systems and must be displayed on any receipt presented to the customer. This information should be stored by the merchant. The following illustrates the breakdown of this field where "660123450010690030" is the reference number returned in the message, "66012345" is the terminal id, "001" is the shift number, "069" is the batch number and "003" is the transaction number within the batch.
ReponseCode	3 / num	Moneris Host Transaction identifier Transaction Response Code < 50: Transaction approved >= 50: Transaction declined NULL: Transaction was not sent for authorization * If you would like further details on the response codes that are returned please see the Response Codes document available at https://www3.moneris.com
ISO	2 / num	ISO response code
AuthCode	8 / an	Authorization code returned from the issuing institution
TransTime	##:##:##	Processing host time stamp
TransDate	yyyy-mm-dd	Processing host date stamp
TransType	an	Type of transaction that was performed
Complete	True/False	Transaction was sent to authorization host and a response was received
Message	100 / an	Response description returned from issuing institution.
TransAmount		
CardType	2 / alpha	Credit Card Type
Txn_number	20 / an	Gateway Transaction identifier
TimedOut	True/False	Transaction failed due to a process timing out
Ticket	n/a	reserved

Appendix C: Sample Receipt

Your order has been Approved

Print this receipt for your records

QA Merchant #1

3250 Bloor St West
 Toronto Ontario
 M8X2X9

1 800 987 1234

www.moneris.com

Transaction Type: Purchase

Order ID:	mhp3495435587	Approval Code:	030012
Date/Time:	2002-10-18 11:27:48	Response / ISO Code:	028/04
Sequence Number:	660021630012090020	APPROVED * =	
Amount:	12.04		

Item	Description	Qty	Amount	Subtotal
cir-001	Med Circle	1	2.01	2.01
tri-002	Big triangle	1	1.01	1.01
squ-003	small square	2	1.01	3.02
			Shipping:	4.00
			GST :	1.00
			PST :	1.00
			Total:	12.04 CAD

Bill To:

Test Customer

123 Main St
 Springfield
 ON
 Canada
 M1M 1M1
 tel: 416 555 1111
 fax: 416 555 1111

Ship To:

Test

1 King St
 Bakersville
 ON
 Canda
 M1M 1M1
 tel: 416 555 2222
 fax: 416 555 2222

Special Instructions

Knock on Back door when delivering
 E-Mail Address:eselectsupport@moneris.com

Refund Policy

30 Days - Must be unopened, 10% restocking charge.
