



## IMPLEMENTATION GUIDE V1.0.10

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## 1 PREFACE

This document explains how to implement a coupling between your website and the ICEPAY payment methods in *Advanced Mode*.

### 1.1 WHO SHOULD READ THIS DOCUMENT?

This document is intended for the technical staff (webmaster, software engineer, etc.) at your company.

## 2 GLOSSARY

Merchant	The direct users of ICEPAY. This can be an individual or a company that operates the website that will be coupled to the ICEPAY system.
User	A customer of the Merchant. It is the person that wants to make a payment through the website of the Merchant.
Payment method provider	Any provider of payment services, such as ABN AMRO (iDEAL), Wallie, Interconnection (phone payments), PayPal, etc.

## 3 REQUIREMENTS & IMPLEMENTATION

### 3.1 REQUIREMENTS

The following things are required to get started:

- A server-side scripting environment that is capable of generating SHA1 hashes. PHP4, PHP5 and ASP.NET 2.0 are capable of doing this. Although other languages and environments might also be capable of generating SHA1 hashes, it has not been tested by us.
- An ICEPAY account. When your account is activated, you will receive a *MerchantID* and an *Encryption Code* from us. If you do not have them, please contact us.  
**Warning:** You must never reveal these two codes to third parties! The MerchantID and Encryption Code are used to verify your identity.  
**NOTE:** Each MerchantID (+ Encryption Code) is meant to be used only for 1 (one) web site. You may request as much you need merchant accounts for free!

### 3.2 IMPLEMENTATION

You must implement the following items:

- One scripted page for server-to-server communication. You can set this value in web interface when you login into client area. This URL is named *IC\_Postback* in this document (see 5.5).
- A "Shopping Cart Checkout" page. This is where your system must initiate the ICEPAY payment.
- An "OK" page. This is where the user will go to when the ICEPAY payment has been completed successfully. In the more technical part of this document, it is referred to as *IC\_URLCompleted* (see 5.4).
- An "Error" page. This is where the user will go to when the ICEPAY payment cannot be completed, aborted, failed, or canceled. In the more technical part of this document, it is referred to as *IC\_URL\_Error* (see 5.4).  
**Hint:** it is possible to put an option on this page where the user is able to try again. Don't forget to create new OrderID.

## 4 DATAFLOW

There are two implementation methods. You should decide which implementation method suits your situation better.

### 4.1 PATHWAY 1: REDIRECTION

This method is the “classic” approach and is most suited for most HTML websites. The user will first be routed to ICEPAY. Immediately after that, the user will be routed to the site of the payment method provider where they will see a payment screen. Depending on the payment method this can be a page for iDEAL, Interconnection, PayPal, Wallie or any other supported payment method. This is where the user is able to complete the payment. After the payment is completed successfully, the user will be redirected to the “OK” page (*IC\_URLCompleted*). If the payment was unsuccessful, then the user will be redirected to the “Error” page (*IC\_URL\_Error*).

All payment status change events are pushed to IC\_Postback.

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#### 4.1.1 THE DATAFLOW OF PATHWAY 1

To understand complete payment dataflow as in Figure 1 we will explain every step.

1. The user requests an order checkout at the merchant's website.
2. The merchant prepares the order information, generates the encrypted checksum and using plain FORM sends all required information to ICEPAY's Checkout.aspx page. See chapter 5.2 for more information.  
**Note:** use `IC_ResponseType = REDIRECT`  
**Tip:** you can do this 2nd step in step 1 already by using a hidden FORM (see the sample code that is provided separately)
3. ICEPAY requests a transaction initialization with the chosen payment method provider.
4. A response is generated based on the reply received from the payment method provider in step 3. There are 2 possible courses of action:
  - a. The transaction initialization with the payment method provider was OK. The user is redirected to the site of the payment method provider.
  - b. Something went wrong. The user is redirected to the "Error" page of the merchant along with a description of what went wrong. It is very important that the user understands what happened, and as such should be presented with an informative message.  
The payment request for the current order ends here.  
**Note:** if you want to retry the payment (perhaps with another payment method?) a new *OrderID* must be generated!
5. The user makes a payment at the website of the payment method provider.
6. In the background, ICEPAY will periodically query the payment method provider for the payment status information and update its internal data. This is repeated until the payment is completed, aborted, failed or canceled.
7. In every update cycle in step 6, the merchant will be informed through the "IC\_Postback" about any change in the payment status. It is very important that this URL is set to a correct (and existing!) page.
8. The user finished or canceled the payment. The user is sent back to ICEPAY for further processing.  
Note: A payment can also timeout or generate an error. In such case the payment status will also be collected in step 6.
9. After the payment process has finished, the user is routed to ICEPAY. Here, based on information from step 6, 7 and 8, the user will be redirected:
  - a. The payment was completed successfully: the user is redirected to *IC\_URLCompleted*
  - b. The payment was not completed for any reason, canceled or aborted by the user: the user is redirected to *IC\_URL\_Error*
  - c. The payment is still being processed by the payment method provider. For online payment methods the user is redirected to *IC\_URL\_Error*, for off-line payment methods the user is redirected to *IC\_URLCompleted*, with Status=OPEN in both cases. See table 5.4.1 for more information.

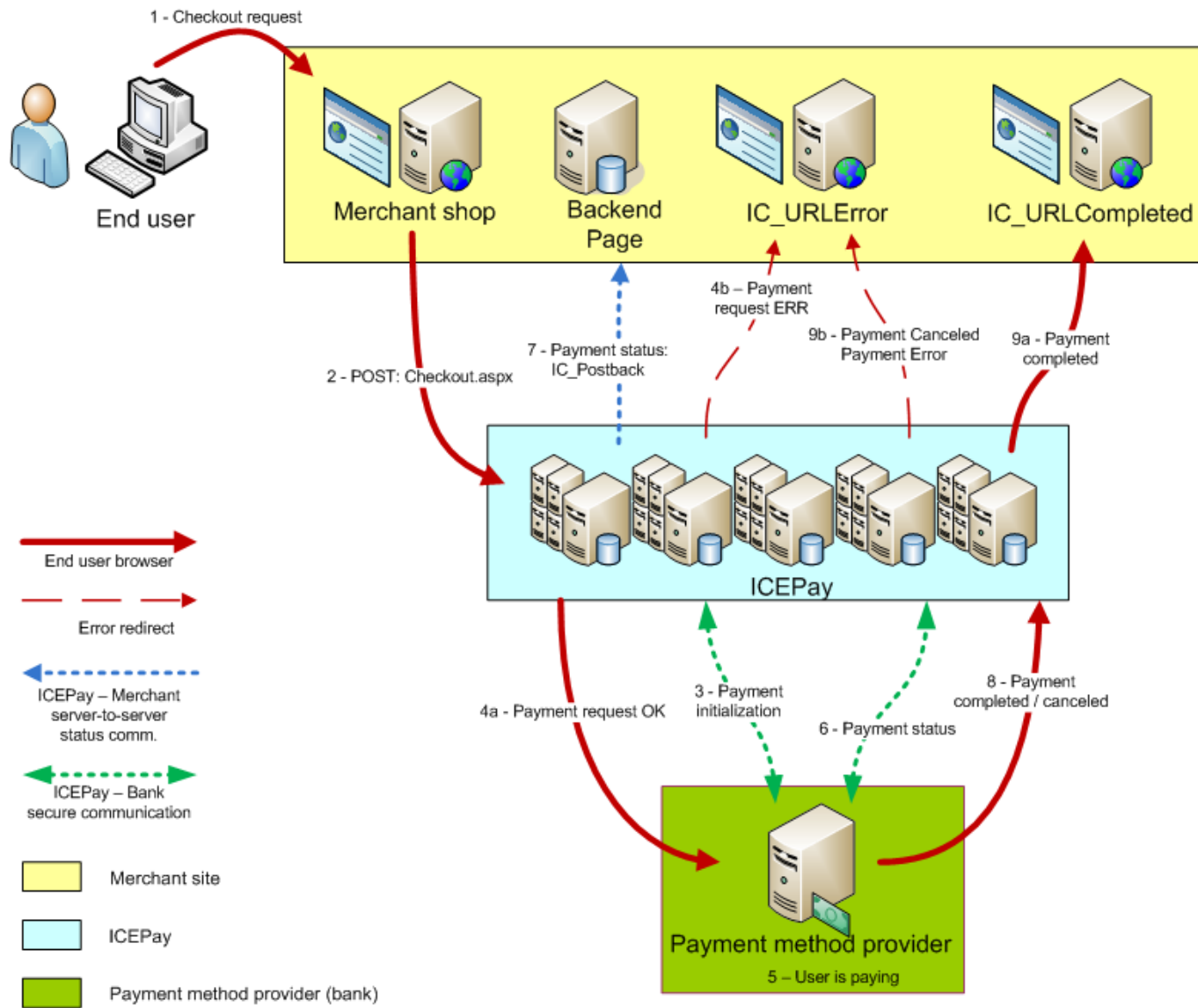


Figure 1: The dataflow of pathway 1

## 4.2 PATHWAY 2: SERVER-TO-SERVER COMMUNICATION OR SERVER-TO-FLASH COMMUNICATION.

This method is adapted to complicated sites, for example those that entirely work in flash or use XML. Advantage is that end users will see minimal amount of ICEPAY URLs.

The dataflow for pathway 2 (FLASH / XML) will be described in a later version of this document. You can find some information related to this option in section 5.3.

Be advised that credit card companies and banks demand that their full URL is visible at all times, so even though the user does not need to see ICEPAY URLs, having the payment taking place outside of your own site is unavoidable.

Contact us or check available samples if you plan to use this method.

## 5 PARAMETER DEFINITIONS

This chapter describes the parameters that your website must provide when communicating with an ICEPAY page. For the other pathway (FLASH / XML) you need to follow a slightly different sequence of events. This will be described fully in a later version of this document.

### 5.1 DOMAIN AND SERVER IP RANGE

#### 5.1.1 DOMAIN

The domain for all communication with ICEPAY is

```
pay.icepay.eu
```

We support both HTTP and HTTPS protocols.

#### 5.1.2 SERVER IP RANGE

Our servers are in following IP range

```
194.30.175.1 – 194.30.175.254
```

### 5.2 CHECKOUT.ASPX

Use the following URL for initiating the payment:

```
http://pay.icepay.eu/Checkout.aspx  
or  
https://pay.icepay.eu/Checkout.aspx
```

Checkout.aspx handles the start of the payment. It does the handling of the merchant request (step 2 in payment flowchart diagram) the initialization to the payment method provider (step 3 in payment flowchart diagram) and the redirect to the payment method provider (step 4a in payment flowchart diagram) or the error page (step 4b in payment

flowchart diagram).

**Note:** You can only POST to this page. GET requests are not handled to prevent query string limitation problems.

## 5.2.1 PARAMETERS

The parameters handled by Checkout.aspx are:

Parameter	Description	Data type	Max length / range	Example	Default Value	Req.
<b>IC_Merchant</b>	Your merchant ID received from our administration	Numeric	1000-1000000	1000		Yes
<b>IC_Amount</b>	Value in eurocents from 30 up to 100000 eurocent. If you have to handle more than 1000 EUR per transaction please contact your account manager. Check Appendix B for more details.	Numeric	30-100000	100 (equivalent of 1 euro)		Yes
<b>IC_Currency</b>	Currency 3 letter symbol in <a href="#">ISO 4217</a> format. Use one of these: EUR, GBP, USD, KRO	String	3	EUR		Yes
<b>IC_Language</b>	2 letter language in <a href="#">ISO 639-1</a> format such as NL, DE, EN	String	2	EN	NL	No
<b>IC_Country</b>	2 letter country code in <a href="#">ISO 3166-1</a> format such as NL, DE, UK, BE. Use 00 for global coverage if payment method is not country dependent	String	2	UK	NL	No
<b>IC_OrderID</b>	Your unique order number. This can be auto incremental number from your payments table	String	10	1001		Yes
<b>IC_Reference</b>	Your reference number. This might be your Shopping cart ID. It does not have to be unique	String	50	Z1234567		No
<b>IC_PaymentMethod</b>	Payment method such as IDEAL, SMS, PAYPAL. See Appendix A for complete list	String	20	IDEAL		Yes
<b>IC_Issuer</b>	Payment method issuer. See Appendix A for complete list	String	20	ABN		Yes
<b>IC_Description</b>	Text appears on transaction lists	String	100	Your online download for...		No
<b>IC_TestMode</b>	<b>Y</b> means that payment is in test mode and transaction is not processed for real. If <b>N</b> transaction is processed for real and will deduct money from end user. *	String	1	N	N	No
<b>IC_CheckSum</b>	Generated SHA1 signature for request validation. The generation of the checksum is explained in 5.2.2	String	40	da39a3ee5e6b4b0d3255bfef95601890afd80709		Yes
<b>IC_URLCompleted</b>	When the payment is confirmed the user is redirected to this page. This parameter overrides the default setting defined in our system. The last known transaction status will be passed along, so you can process the result instantly. See 5.4 for returned parameter values	String	500	http://localhost/success.aspx	Value set in the control panel	No
<b>IC_URL_Error</b>	In case of any error during the payment procedure, the user is redirected here. This parameter overrides the default setting defined in our system. The last available error code/description is provided as a parameter. Note: In the initial payment request the user will NOT be redirected to the error page in case IC_ResponseType is different than REDIRECT. In that case you will receive the error code which you have to handle properly in own application (in that case check 5.3). See 5.4 for returned parameter values	String	500	http://localhost/error.aspx	Value set in the control panel	No
<b>IC_ResponseType</b>	Specifies how the return value is handled: REDIRECT, XML, FLASH	String	10	REDIRECT	REDIRECT	No
<b>IC_Style</b>	HTML style to be used. Use only if instructed by ICEPAY technical support	String	20	DEFAULT		No
<b>IC_PINCode</b>	PIN/Activation Code. This parameter is needed for some payment methods, and in that case this is a required field.	String	100	456789		**

Table 1

\* Test mode must be enabled manually. At a moment test mode is done using only credit card payment method. Contact our support for more information.

\*\* Only for PPC payments, then required.

---

### 5.2.2 CHECKSUM

In order to generate the IC\_CheckSum you will need the Merchant ID and the Encryption code. You should receive it when you have an ICEPAY account.

The checksum is generated using the following formula:

$$IC\_Checksum = SHA1( Encryptioncode + | + IC\_Merchant + | + IC\_Amount + | + IC\_Currency + | + IC\_OrderID + | + IC\_PaymentMethod + | + IC\_Issuer )$$

As you may have noticed the “pipe” sign (|) is used as the delimiter between values. You may need to put the delimiters between single quotes (') or double quotes (") depending on the programming language that you will be using.

The value returned by the SHA1 function is a string of 40 characters representing a hexadecimal value.

#### **IMPORTANT NOTE**

The ICEPAY system will always cut off the parameter values up to its corresponding maximum allowable length as defined in Table 1. This may cause the ICEPAY checksum not to match your own checksum. Example: if you provide “EURO” for the currency parameter, then it will be recognized by ICEPAY as “EUR” because the maximum length of the currency parameter is 3. Thus, the provided value “EURO” is valid and ICEPAY will not complain. However, ICEPAY uses “EUR” to generate the checksum whereas you may have used “EURO” for the checksum generation. This causes the two checksums not to match and therefore the request fails. Please keep this in mind when generating the checksum.

---

### 5.2.2.1 CHECKSUM GENERATION SAMPLE CODE

---

#### 5.2.2.1.1 PHP

In PHP you can generate IC\_CheckSum as:

```
$IC_CheckSum = SHA1( $Encryptioncode ."|" . $IC_Merchant ."|" . $IC_Amount ."|" . $IC_Currency ."|" . $IC_OrderID ."|" . $IC_PaymentMethod ."|" . $IC_Issuer );
```

---

#### 5.2.2.1.2 C#

In C# you can generate IC\_CheckSum as:

```
class Program  
{  
string IC_Checksum(string Encryptioncode, string IC_Merchant, string IC_Amount, string IC_Currency, string IC_OrderID, string IC_PaymentMethod, string  
IC_Issuer)  
{  
byte[] message = Encoding.ASCII.GetBytes(Encryptioncode + "|" + IC_Merchant + "|" + IC_Amount + "|" + IC_Currency + "|" + IC_OrderID + "|" +  
IC_PaymentMethod + "|" + IC_Issuer);  
return (new System.Security.Cryptography.SHA1CryptoServiceProvider()).ComputeHash(message).ToString();  
}  
}
```



---

### 5.2.3 PAYMENT REQUEST FORM SAMPLE

In this sample we will use following merchant information:

MerchantID = 10000

Merchant Secret = bvjdHiAS82hdiue13hkna08hd63bdiabc823hd

Payment Method = Credit card / Visa

Amount = 1.30 €

and other obvious values

You can use this sample to match your checksum value and to get an idea what a payment initialization form can look like.

```
<form method='POST' action='https://pay.icepay.eu/checkout.aspx'>
<input type='hidden' name='ic_paymentMethod' value='CREDITCARD'>
<input type='hidden' name='ic_issuer' value='VISA'>
<input type='hidden' name='ic_merchant' value='10000'>
<input type='hidden' name='ic_amount' value='130'>
<input type='hidden' name='ic_currency' value='EUR'>
<input type='hidden' name='ic_language' value='NL'>
<input type='hidden' name='ic_country' value='NL'>
<input type='hidden' name='ic_orderid' value='TESTk6QAr'>
<input type='hidden' name='ic_reference' value='RefTESTk6QAr'>
<input type='hidden' name='ic_description' value='Test payment'>
<input type='hidden' name='ic_checksum' value='76b872945a5640991e5ee50649cda1d56bf7cc7f'>
<input type='hidden' name='ic_urlcompleted' value='http://localhost/payment/completed.aspx?done=t1'>
<input type='hidden' name='ic_urlerror' value='http://localhost/payment/error.aspx?err=t1'>
<input type='hidden' name='ic_testmode' value='N'>
<input type='hidden' name='ic_responsetype' value='REDIRECT'>
<input type="submit" value="Pay" />
</form>
```

## 5.3 PARAMETERS RETURNED IN STEP 4 ONLY FOR FLASH AND XML RESPONSE TYPE

If in step 2 you have used FLASH or XML for IC\_ResponseType parameter then in step 4 you will receive, as return value, parameters which you have to process in your own site.

### 5.3.1 PARAMETERS

Parameters returned in step 4 in the payment flowchart diagram:

Parameter	Description	Data type	Sample	Can be empty
<b>Status</b>	Return OK or ERR as payment request status. OK means that payment initialization was successful and that payment provider is ready to process the payment ERR is signal for error in request, in our system or payment provider is not ready to handle the payment. In this case you should consult ErrCode for more information	String(10)	ERR	N
<b>ErrCode</b>	The error code and a short description which may be displayed on screen are returned. In any case you should treat the current order as failed and do not retry to send the same order request again because our system will then return "Duplicate OrderID"!	String (50)	Duplicate OrderID	N
<b>OrderID</b>	Value of IC_OrderID which was sent to Checkout.aspx	String (10)	1234567	Y
<b>PaymentID</b>	The unique numeric value that identifies this payment in our system.	Numeric	100000012	Y
<b>URL</b>	If the response type is XML/Flash this value will have the payment URL (step 4a). In case of error this parameter should be ignored.	String(2000)	https://localhost/paywithphone	Y
<b>Checksum</b>	If possible, a checksum is generated (see 5.3.2). In some cases it is not possible to identify the Merchant, for example when there is an error in the received parameters. In that case the checksum will be empty.	String (40)	da39a3ee5e6b4b0d3255bfe95601890afd80709	Y

### 5.3.2 CHECKSUM

The Checksum is generated using the following formula (if possible):

$$SHA1( Encryptioncode + | + IC_Merchant + | + OrderID + | + PaymentID + | + URL )$$

### 5.3.3 SAMPLE

Sample of a returned string for FLASH format in case of error:

```
Status=ERR&ErrCode=IC_ERR%3a+Checksum+is+not+valid&URL=&OrderID=TESTDx87Z&PaymentID=&Checksum=
```

Below you can see returned string for valid request in FLASH format. Note that in this document the text is wrapped, while in a normal situation you would see response as one line

```
Status=OK&ErrCode=&URL=https%3a%2f%2fpay.ICEPay.eu%2fCreditCard%2fCreditCard_Checkout.aspx%3fu%3dbYUA2ZNPjRWk8cGfYP0f3mtXPL5Hbg2wYEs7KPOzZaAbIN7N0iG%252fPZRZSf2yGT1ZIF6MexLIOBS5%252fdK3RaGz6yYBjXm3ID1bZwHcSA98ClgTlePBJWX%252f%252b9Hznf1%252bxPI4JfLEz5j8ppBUl4QxWvZn3na5tshM7NKcqtS3q7o0x8c8bkW4nk134lrKXkP0%252fxwBBSWEJZc1SyMUMLM6OZeUtZTfoiL98QUCDSbg588mrwq1SQIhwf%252beM07baI3J%252fg8Jd%252blZhfG%252fsxnk7wHTy4crt6vP5hLTp4MuPBtLil76Pk4NJ%252bjLxjZjiEJKpVnzp6LL1VBv2JPXgeL%252b02eAVVdaBzKrYxIBrx%252bwQYqUV3y7I0aHi527AS7SFXfxPCEC74yjhpPUkxDVrSQW0sU4EkxO1TYTWLSWHQE4Ub81L2hIEnvArZZYB7Py1AzaZxXC5Z6Td8Qg9Dhd%252f5sH4YZAD1nVvm3gbCnD9vPO1ehHuiXAJGY9Ty9SXqUsEDRN%252bzJ3DljXQ5Eo1zT6zlx8HUNgxvNv9c9qaJTS5HsVy3GXR01dSLvV6W%252fv6M4I7C1oi%252be%252ftX&OrderID=TESTDk7p8&PaymentID=1058754&Checksum=b6d41402231053d5c0ba7356e03dd4988c4ff8a7
```

Sample of a returned string for XML format in case of error:

```
<?xml version="1.0" encoding="utf-16"?>
<Checkout>
<Status>ERR</Status>
<ErrCode>IC_ERR: Checksum is not valid</ErrCode>
<URL />
<OrderID>TESTDx87Z</OrderID>
<PaymentID />
<Checksum />
</Checkout>
```

Sample of a returned string for XML format in case of valid request:

```
<?xml version="1.0" encoding="utf-16"?>
<Checkout>
<Status>OK</Status>
<ErrCode />
<URL>https://pay.ICEPay.eu/CreditCard/CreditCard_Checkout.aspx?u=bYUA2ZNPjRWk8cGfYP0f3mtXPL5Hbg2wYEs7KPOzZaAbIN7N0iG%2fPZRZSf2yGT1ZKDjOnN
mHul%2fnv4aGZGP3Y0fXwoSxdP7HV1fXmZEUB6dWyC3I65Jme6n4HL1WimiwGdJA5BL7u7S4e%2fQO7cHPNtAM1EZSw9uahMQ1wltD%2b4qXav2%2bS3leKmNBdG
8mTMthgE0SZsdgMge6HvyBrKKYYbZhVXNfGp9QfIIV1vG3FYopxllturjcoQtqINlkTNg5VZy%2bcV66fwETJfNkUOcwDcimucMZ8FhUnd%2bSWJBBZdVDwemz6nfjPpaK
SMmdbc7FiDrIVOVnW29x6Almj%2bL7qRIOGQ%2btPpO5t7HziPi4sZbqGITBYSHh4IH56%2fDkGI%2fBHICKhN1WAtXqFg2o791qyqMKVbpD8QN6mi37gRAECzFzTgfo9
6qMEEIB5yTinGkdUxdXFj6YMo4YXn%2bWcg2zZhW0hgNxtw5UKQsq1LyguhrL0VtGZnlks5nCM4IODOdKvVfhjPGZ%2fqNyAqhcsOFgg%2bSdjjqN3h9HabmXdfSXRC%
2bLvGmIFvHIJUbkiImwt</URL>
<OrderID>TESTp3W8C</OrderID>
<PaymentID>1058753</PaymentID>
<Checksum>dd99c33e3e32449b87540b6b690224cf83d8641e</Checksum>
</Checkout>
```

## 5.4 PARAMETERS SENT TO IC\_URLCOMPLETED AND IC\_URLERROR

When everything goes as it should, after a successful payment, the user will be redirected to the Merchant defined page that was sent in the IC\_URLCompleted parameter to Checkout.aspx, or the value in the ICEPAY web interface.

When an error occurs, a payment is canceled or interrupted, a timeout occurs, parameters are sent incorrectly or something else is wrong, the user will be redirected to the merchant defined page that was sent in the IC\_URLError parameter to Checkout.aspx, or the value in the ICEPAY web interface.

All values below will be appended as GET parameters. The append process takes into account whether there already is a “?” or not in the IC\_URLCompleted / IC\_URLError page, so it is possible to construct this URL with some parameters of your own. Do make sure however that there are no name-clashes.

### 5.4.1 PARAMETERS

The return parameters (step 9a/9b/4b in the payment flowchart diagram) are:

Parameter	Description	Data type	Sample
<b>Status</b>	Transaction status. Possible values are OK, OPEN, ERR	String(10)	OK
<b>StatusCode</b>	A short description of the transaction status	String(100)	Completed
<b>Merchant</b>	Your MerchantID	Numeric	10000
<b>OrderID</b>	Value of IC_OrderID which was sent to Checkout.aspx	String(10)	1234567
<b>PaymentID</b>	The unique numeric value that identifies this payment in our system.	Numeric	12345
<b>Reference</b>	Value of IC_Reference which was sent to Checkout.aspx	String(50)	Z1234567
<b>TransactionID</b>	This value is created by the payment method provider / bank and showed on the users bank statement	String(50)	3001233213132
<b>Checksum</b>	A checksum is generated (see 0) over the return parameters, so that you can verify the authenticity of the returned values.	String(40)	da39a3ee5e6b4b0d3255bfe95601890afd80709

---

## 5.4.2 CHECKSUM

The Checksum is generated as:

```
SHA1( Encryptioncode + | + IC_Merchant + | + Status + | + StatusCode + | + OrderID + | + PaymentID + | + Reference + | + TransactionID )
```

---

## 5.4.3 SAMPLE

Sample of a success URL:

```
http://localhost/success.aspx?Status=OK&StatusCode=Completed&Merchant=10000&OrderID=1000000920&PaymentID=1058262&Reference=XYZ123&TransactionID=0030825521452120&Checksum=da39a3ee5e6b4b0d3255bfef95601890afd80709
```

```
http://localhost/success.aspx?Status=OK&StatusCode=AUTHORISED&Merchant=10000&OrderID=1000000940&PaymentID=1058287&Reference=&TransactionID=8512210510933341&Checksum=c60e045f9d2a988caea94429acf82ad86d67528f
```

Sample of an error URL:

```
http://localhost/error.aspx?Status=ERR&ErrCode=IC_ERR%3a+Checksum+is+not+valid&URL=&OrderID=TESTx4QYd&PaymentID=&Checksum=
```

```
http://localhost/error.aspx?Status=ERR&StatusCode=Cancelled&Merchant=10000&OrderID=1000000971&PaymentID=1058549&Reference=&TransactionID=0030824521482120&Checksum=e82dc18cbb1839c99356b834d0bd45d08420a973
```

## 5.5 PARAMETERS SENT TO IC\_POSTBACK

While the user is doing his payment, ICEPAY will report all status changes back to the Merchant with a **server-to-server** POST to the URL as defined in IC\_Postback. You can set this URL in the web administration at <https://www.icepay.eu/>

**Note:** The script in URLPostback should not generate any output or errors. It is very important that this script works well, otherwise payments will be aborted!

We would advise you to always return HTTP 200 (The default “OK” response of a web server. An empty page does exactly that.), if you have processed the request to prevent our server to repeat the request. Only return HTTP error if you have (good) reason for it (like db connection error or update error).

### 5.5.1 PARAMETERS

The parameters (step 7 in payment flowchart diagram) are:

Parameter	Description	Data type	Sample	Can be empty
Status	Payment status as OK, OPEN, ERR, REFUND, CBACK	String(10)	OPEN	N
StatusCode	A short description of the status. We will use the codes as received from the payment method provider.	String(100 )	Completed	N
Merchant	Your MerchantID	Numeric		
OrderID	IC_OrderID as passed to Checkout.aspx	String(10)	1234567	N
PaymentID	The unique numeric value that identifies this payment in our system.	Numeric	12345	N
Reference	IC_Reference as passed to Checkout.aspx	String(50)	Z1234567	Y
TransactionID	This value is created by the payment method provider / bank and showed on the users bank statement	String(50)		Y
ConsumerName	Name of the bank account owner	String(100)		Y
ConsumerAccountNumber	Last 4 digits of account number from which payment was done, if received from the bank	String(100)		Y
ConsumerAddress	Consumer address/street as filled in payment form	String(100)		Y
ConsumerHouseNumber	Consumer house number as filled in payment form	String(10)		Y
ConsumerCity	Consumer city as filled in payment form	String(100)		Y
ConsumerCountry	Consumer country as filled in payment form	String(100)		Y
ConsumerEmail	Consumer email value as filled in payment form	String(200)		Y
ConsumerPhoneNumber	If available phone number from which payment was made or used in payment form. In international format as: 31703242323. If CID is hidden you will get {PRIVE}	String(50)		Y
ConsumerIPAddress	IP address from which payment form was filled	String(50)	1.2.3.4	Y
Amount	The final paid amount value in whole cents	Numeric	550	Y
Currency	The currency in which the amount is represented.	String(3)	EUR	Y
Duration	Represents the call duration (if available), in whole seconds, in phone payment methods.	Numeric	0	Y
PaymentMethod	Which payment method was used	String(20)	CREDITCARD	N
Checksum	A checksum is generated over the return parameters, so that you can verify the authenticity of the returned values.	String(40)		N

---

### 5.5.2 CHECKSUM

The Checksum is generated as:

```
SHA1( Encryptioncode + | + IC_Merchant + | + Status + | + StatusCode + | + OrderID + | + PaymentID + | + Reference + | + TransactionID + | + Amount + | + Currency + | + Duration + | + ConsumerIPAddress )
```

---

### 5.5.3 SAMPLE

Here we will show the sample of POST data which is “pushed” to your IC\_Postback page during a payment status change event.

```
Status=OK  
StatusCode=AUTHORISATION  
Merchant=10000  
OrderID=10761  
PaymentID=1057135  
Reference=  
TransactionID=1215209043726587  
ConsumerName=  
ConsumerAccountNumber=7211  
ConsumerIPAddress=127.0.0.1  
Amount=740  
Currency=EUR  
Duration=0  
Checksum=a32d1886b763ef83126615cd344d4c9d4a9dac6b
```

## APPENDIX

### A. ISSUERS DEPENDING ON PAYMENT METHOD

IC_PaymentMethod	IC_Issuer	Activated	Notes
CREDITCARD	AMEX	Y	If you plan to use credit card payments contact <a href="mailto:sales@icepay.eu">sales@icepay.eu</a> . You will have to pass credit card company verification before we enable this payment method for you
	MASTER	Y	
	VISA	Y	
DDEBIT	INCASSO	Y	NL only
FASTERPAY	DEFAULT	N	UK only
GOOGLE	DEFAULT	N	US, UK only
IDEAL	ABNAMRO	Y	NL only
	FORTIS	Y	
	POSTBANK	Y	
	RABOBANK	Y	
	SNSBANK	Y	
MOBILLCASH	DEFAULT	N	
NETELLER	DEFAULT	N	
PAYPAL	DEFAULT	N	
PAYSAFECARD	DEFAULT	N	
PHONE	PBAR	Y	
	PPC	N	NL, BE only
	PPM	N	
PROMO	DEFAULT	N	
REFUND	DEFAULT	N	
SMS	DEFAULT	N	
WALLIE	DEFAULT	Y	
WIRE	DEFAULT	Y	Only EU countries recommend. For other countries there might be extra cost/problems. To prevent problems with end-users we would recommend to contact your account manager first

## B. SUPPORTED PARAMETER COMBINATIONS AND AMOUNT RANGES PER TRANSACTION

Payment Method	Issuer	Country	Language	Currency	Minimum Amount*	Maximum Amount*
CREDITCARD	AMEX, MASTER, VISA	00**	EN, NL, DE	EUR,USD,GBP	30	1000000
DDEBIT	INCASSO	NL	NL, EN	EUR	30	1000000
IDEAL	ABNAMRO, FORTIS, POSTBANK, RABOBANK, SNSBANK	NL	NL	EUR	30	1000000
PAYPAL	DEFAULT *****	00**	EN	EUR	30	1000000
PHONE	PBAR ****	AT	DE	EUR	216	6000
		AU	EN	AUD	303	9000
		BE	NL	EUR	112	3000
		CA	EN, FR	CAD	299	9000
		CH	DE	CHF	666	10000
		CZ	CZ	CZK	7000	210000
		DE	DE	EUR	200	6000
		ES	ES	EUR	109	3000
		IT	IT	EUR	300	9000
		LU	DE	EUR	114	3000
		NL	NL	EUR	80	2500
		PL	PL	PLN	488	10000
		PT	PT	EUR	169	5000
		SK	SK	SKK	8900	267000
		UK	EN	GBP	100	3000
US	EN	USD	299	9000		
PHONE	PPC *****	BE	NL, EN	EUR	100	100
		BE	NL, EN	EUR	150	150
		FR	NL, EN	EUR	135	135
		NL	NL, EN	EUR	60	60
		NL	NL, EN	EUR	130	130
		UK	NL, EN	GBP	100	100
SMS	DEFAULT*****	NL	EN	EUR	30	10000
WALLIE	DEFAULT	00**	EN, NL, FR, ES, LV, RU	EUR, MXN, GBP, CLP,LVL	30	1000000
WIRE	DEFAULT	00**	NL, EN	EUR,USD,GBP	30	1000000

\* Amount is in cents as described for parameter ic\_amount (see 5.2.1)

\*\* You can use 00 (zero,zero) for global coverage because payment method is not country dependent

\*\*\*\* Language parameter is related to voice language in telephone. Web interface will match voice language or if not available then in English alternative.

\*\*\*\*\* Do not use it for now. We will have some changes in API related to this payment method

## C. POTENTIALLY HIGH RISK COUNTRIES

Albania, Algeria, Argentina, Bangladesh, Belarus, Bolivia, Bosnia, Brazil, Bulgaria, Cameroon, Central African Rep., Chile, China, Colombia, Costa Rica, Croatia, Cuba, Dominican Republic, Ecuador, Egypt, Ethiopia, Gabon, Gambia, Georgia, Ghana, Guinea, Indonesia, Iran, Iraq, Israel, Ivory Coast, Jamaica, Jordan, Kenya, Latvia, Lebanon, Libya, Lithuania, Macedonia, Malaysia, Mali, Mauritius, Mexico, Moldova, Mongolia, Montenegro, Morocco, Nepal, Niger, Nigeria, Pakistan, Papua New Guinea, Paraguay, Peru, Philippines, Qatar, Romania, Russia, Salvador, Serbia, South Africa, Sri Lanka, Thailand, Trinidad, Tunisia, Turkey, Ukraine, Uruguay, Vietnam, Yemen, Zambia, Zimbabwe

## D. CODE SAMPLES AND DOCUMENT UPDATES

Code samples in PHP, C# and VB.NET at this location:

<https://www.icepay.eu/documents/CodeSamples.zip>

To get an up to date version of this document you can visit following URL

[https://www.icepay.eu/documents/ICEPAY\\_implementation\\_guide.pdf](https://www.icepay.eu/documents/ICEPAY_implementation_guide.pdf)

Up to date version of terms and conditions you find at:

[http://www.icepay.eu/documents/ICEPAY\\_algemene\\_voorwaarden.pdf](http://www.icepay.eu/documents/ICEPAY_algemene_voorwaarden.pdf)

## E. ERROR CODES AND TROUBLESHOOTING

This is placeholder for most common error codes and how to troubleshoot them.

## F. CHANGELOG

Version	Date	By	Changes
1.0.8	10-01-2009	AB	Minor text changes
1.0.7	09-01-2009	AB	Minor text changes
1.0.6	03-11-2008	AB	Minor text changes
1.0.5	13-10-2008	EvK	Minor text changes
1.0.4	09-10-2008	AB	Minor text changes Removed supported country list Added country code 00 as global for payment methods which are not country dependent Added URL to terms & conditions PAYPAL and SMS are enabled Supported currency is updated
1.0.3	22-09-2008	AB	Added table with supported parameters combination Added supported country list Added potentially high risk countries ALLOPASS and RABOSMS are removed from Payment Method list
1.0.2	20-09-2008	AB	Minor text changes
1.0.1	19-09-2008	AB	Minor text changes
1.0	12-09-2008	AB	Document restyled, reformatted and completely revised. Fixed not correct section describing IC_URL_Error Added extra parameters to IC_Postback URL Issuers table updated Included more (correct) data and code samples
0.8.4	10-09-2008	DB	Document restyled
0.8.3	02-07-2008	EvK	PPC and PPM added, C# code example added. EvK
0.8.2	02-07-2008	EvK	Document revised. EvK
0.8	02-07-2008	HH	Document revised. HH
0.7	26-06-2008	EvK	Reworked entire document. EvK.
0.6	26-06-2008	AB	All URLs changed to icepay.eu
0.5	25-06-2008	AB	Added checksum value to the IC_URLCompleted parameters. Added note about input parameter handling and possible checksum problems
0.4	13-05-2008	AB	Added IC_URLCompleted parameters description
0.3	12-05-2008	AB	Added payment flowchart diagram and description
0.2	14-03-2008	AB	Introduced IC_PINCode parameter in checkout.aspx request
0.1		AB	Initial document

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