

# **Paymentgateway Documentation**

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## Maintenance history

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12-09-2007	Pelle Smidt	1.1	
07-03-2008	Daniel Bielefeldt	1.2	Added documentation for Mobile payment and better binary proxy explanation.
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07-09-2010	Daniel Bielefeldt	1.6.3	Documentation for extended validation and prefilled cvc value is added in section 2  Q8-LIC cardprefix has been removed.  New option to show the last 4 creditcard digits.

<b>Date</b>	<b>By</b>	<b>Version</b>	<b>Comments</b>
07-04-2011	Daniel Bielefeldt	1.6.4	Added secureproxy examples for edankort, 3dsecure and netbank
11-04-2011	Daniel Bielefeldt	1.6.5	Added documentation for supplementary authorize and split capture.
13-04-2011	Daniel Bielefeldt	1.6.6	New option to enable google analytics in paymentwindows and secureproxy
30-06-2011	Daniel Bielefeldt	1.6.7	Supplementary authorize can now be used with all transaction types.

# Index

<b>INTRODUCTION.....</b>	<b>5</b>
<b>HOSTED SECURE SSL PROXY .....</b>	<b>6</b>
HOW SECURE SSL PROXY WORKS.....	6
SPLIT PAYMENT .....	8
EXTENDED INPUT VALIDATION.....	8
CREDIT/DEBIT CARDS WITHOUT CVC VALUE.....	9
<b>HOSTED PAYMENT WINDOW.....</b>	<b>10</b>
PAYMENT WINDOW POST ARGUMENTS .....	10
PAYMENT WINDOW POST EXAMPLE.....	12
<b>POSTFORM API SOLUTIONS.....</b>	<b>14</b>
POSTFORM API ARGUMENTS .....	14
EDANKORT API AUTHORIZE EXAMPLE.....	19
3D SECURE API AUTHORIZE EXAMPLE .....	20
MOBILE PAYMENT API AUTHORIZE EXAMPLE.....	21
NETBANK API AUTHORIZE EXAMPLE .....	22
CREDITCARD API AUTHORIZE EXAMPLE.....	23
EDANKORT AUTHORIZE EXAMPLE USING SECUREPROXY .....	24
3D SECURE AUTHORIZE EXAMPLE USING SECUREPROXY .....	24
NETBANK AUTHORIZE EXAMPLE USING SECUREPROXY.....	25
USING GOOGLE ANALYTICS WITH SECUREPROXY .....	25
<b>API DOCUMENTATION .....</b>	<b>26</b>
<b>ACTION CODE LIST .....</b>	<b>27</b>
<b>SUBSCRIBE AUTHORIZE.....</b>	<b>28</b>
REQUEST ACCT EXAMPLE.....	28
REQUEST ACCT AUTHORIZE EXAMPLE.....	29
<b>ACCEPT AND DECLINE RETURN PARAMETERS .....</b>	<b>30</b>
<b>SUPPLEMENTARY AUTHORIZE.....</b>	<b>31</b>
SPLIT CAPTURE .....	31
<b>APPENDIX.....</b>	<b>32</b>
APPENDIX A .....	32
APPENDIX B .....	33

## Introduction

This document describes how you implement online payment into your webshop. We support a wide range of methods to integrate online payment. This intro will hopefully point you in the right direction concerning which method will fit your shop the best.

First of all we highly recommend that **no** card data is stored locally in any database or temporary memory. If that is not an option, then you have to take a closer look at the PCI security standards council. If you want to be able to handle cardholder data, your shop and server where your data is located has to pass a PCI certification. Read more about PCI on the following site: <https://www.pcisecuritystandards.org/>

If you don't want/need to store cardholder data, please attend to the following 2 methods.

1. Payment window ( Hosted solution )
2. Secure SSL Proxy ( Hosted solution )

**Payment window** is a quick start solution where you don't have to make lots of adjustments. Start by setting up a simple postform, and then look at what arguments you can send to the payment window. The window will be able to display your shop logo, total price and order number. You can either choose to open the window in the same window as the shop, or make it open as a popup. The downside about the payment window is that you can't change the design to fit your shop.

**Secure SSL proxy** is a very different and more time-consuming way to integrate online payment into your shop. The big difference from the payment window is that you are now able to design the layout of your payment page. Please read section 2.1 for more information.

**Postform API** can only be used by shops that have performed an SAQ, and uploaded quarterly security scans to PBS's security portal. Please be aware that this SAQ only concern API methods that include creditcard information. Section 4.3 and 4.6.

### Client requirements

1. Client browser needs to be able to handle cookies

# Hosted secure SSL proxy

## How Secure SSL proxy works

The payment form has to be displayed through SSL ( HTTPS ). We provide an SSL-Proxy within the paymentgateway product, in case the shop doesn't have its own SSL certificate. Remember that sessions created when the customer is connected to your shop through HTTP, will be lost when data is submitted to the https proxy.

To allow a specific domain through the SSL-Proxy, it first has to be allowed in the access list. The access list is located in the paymentgateway webinterface under "Indstillinger / Settings"

Relaying the payment form through SSL is done by pasting the payment form URL in front of the SSL-Proxy URL.

Example:

SSL-Proxy URL: <https://betaling.wannafind.dk/secureproxy/proxy.php/>

Webshop URL: <http://www.webshop.dk/payform.html>

Relay URL:

<https://betaling.wannafind.dk/secureproxy/proxy.php/http://www.webshop.dk/payform.html>

If your website includes special binary elements, that the proxy does not understand, it is possible to insert the binary proxy manually by inserting the following URL before the binary element.

Example:

```

```

### CSS "get" parameter

It isn't possible to use "get" parameter with css files

### Stripping tags

The big difference between this proxy and the old one is that this proxy will strip tags which can be used to manipulate creditcard data.

The following tags and code in between will be stripped from the code that parses through the proxy:

```
<script>,<object>,<embed>,<applet>,<noframes>,<input>
<select>,<textarea>,<form>,<checkbox>,<frameset>,<iframe>
```

Instead of inserting your own postform and input fields, we have built some placeholders you can insert into your code. When your code parses through the proxy, it will replace the placeholders with either a hidden or text input field. Every text input field has its own css class, with which you will be able to style the inputs to reflect the design of your own website.

**CSS classes:**

cardnum, emonth, eyear, cvc and formsubmit.

**Placeholder syntax:**

%%%fieldname\_value%%%

All the options listed in the postform API arguments table, are available in the secureproxy. Just remember to use uppercase characters in the fieldname.

To put in extra self defined post fields, use the following syntax

%%%POSTVAR\_var1=value&var2=value2%%%

Extra self defined post fields, will be parsed on to accept or decline page.

See this example as a guideline.

There is a placeholder for each of the postfields specified in section 4.1.

```
1 <html>
2 <head>
3
4 <title> Payment page </title>
5 </head>
6
7 <body>
8
9 %%%FORMSTART%%%
10 %%%SHOPID_200893123123%%%
11 %%%AMOUNT_500%%%
12
13 %%%ORDERID_23123213%%%
14
15 %%%CURRENCY_208%%%
16 %%%PAYTYPE_creditcard%%%
17 %%%AUTHTYPE_auth%%%
18 %%%CARDNOMASK_true%%%
19 %%%CHECKMD5_MD5CHECKSUM%%%
20 %%%ACCEPTURL_<a href="http://www.shop.dk/acceptpage.php">http://www.shop.dk/acceptpage.php</a>%%%
21 %%%DECLINEURL_<a href="http://www.shop.dk/declinepage.php">http://www.shop.dk/declinepage.php</a>%%%
22 %%%CALLBACKURL_<a href="http://www.shop.dk/status.php">http://www.shop.dk/status.php</a>%%%
23 %%%CARDNUM%%%<BR>
24 %%%EXPMONTH%%% / %%%EXPYEAR%%%<BR>
25 %%%CVC%%%<BR>
26
27 %%%FORMSUBMIT_Make Payment%%%
28 %%%FORMEND%%%
29
30 </body>
31 </html>
```

To show danish characters on pages that parses through the proxy, use ASCII syntax.

## Split payment

To use split payment together with secure proxy, use the following placeholders.

```
1  %%%SPLIT_true%%  
2  %%%TRANSACTION_1_amount_500%%  
3  %%%TRANSACTION_1_orderid_23123213%%  
4  %%%TRANSACTION_1_orderidprefix_WF%%  
5  %%%TRANSACTION_1_authtype_auth%%  
6  
7  
8  %%%TRANSACTION_2_amount_500%%  
9  %%%TRANSACTION_2_orderid_23123213%%  
10 %%%TRANSACTION_2_orderidprefix_WF%%  
11 %%%TRANSACTION_2_authtype_subscribe%%
```

When a split payment is returned to accept or decline page, there is added a number to each GET parameter. This number is the same as the one that are giving to the split payment, as showed in the above example. The same goes for the callbackurl option.

## Extended input validation

Use extended input validation, instead of waiting for the result, when card data is submitted to the gateway. Replace the ordinary placeholders, with the following, to add extended input validation. For each input an image will indicate if the entered data is correct or not.

Start by adding placeholder for the validation code. This should be added into your HTML header.

```
1  <html>  
2  <head>  
3  
4  <title></title>  
5  %%%JS_INCLUDE%%  
6  </head>  
7  <body>
```

Insert the following placeholders. If you already are using placeholders without the "validate" prefix, then just add the "validate" prefix.

```
1  <table border="0" cellpadding="0" cellspacing="0">  
2  <tr>  
3    <td>%%CARDNUM_VALIDATE%%<BR></td>  
4    <td>%%CARDNUM_VALIDATE_IMAGE%%</td>  
5  </tr>  
6  <tr>  
7    <td>%%EXPMONTH_VALIDATE%% / %%EXPYEAR_VALIDATE%%</td>  
8    <td>%%EXPIRE_VALIDATE_IMAGE%%</td>  
9  </tr>  
10 </tr>
```



11	<td>%%%CVC_VALIDATE%%%</td>
12	<td>%%%CVC_VALIDATE_IMAGE%%%</td>
13	</tr>
14	</table>

## Credit/Debit cards without CVC value

Some credit/debit cards like Forbrugsforeningen has no CVC value, and in such case, it can be handy to prefill CVC field with "000" and only make it readable. This is done by the replacing the placeholder for CVC with:

1	%%%CVC 000%%%
---	---------------

If extended input validation is used, the image will just show that the value is correct.

## Hosted payment window

### Payment window post arguments

#### Conventions

X	Mandatory
?	Optional
%	N/A
CC	Credit card
3Ds	3Dsecure

#### Post arguments

Field	Arguments	Type	Description	CC	3Ds
shopid		int(?)	A numeric id to identify the postform.	X	X
currency		int(3)	Define currency for the specific transaction. Use a numeric value from ISO 4217. If this field is empty the gateway will use the default value. The default value is set when logging into the payment gateway webinterface.	?	?
amount		int(?)	Specify an amount for this transaction. You must use minor unit to specify the amount.	X	X
orderid		int(19)	Orderid for the specific transaction.	X	X
orderidprefix		char(4)	Orderidprefix is a way to append a prefix to the orderid.	?	?
paytype	creditcard 3dsecure	char(10)	Assign one of the following arguments to define the type of transaction.	X	X
cardtype	DK V-DK VISA(DK) MC(DK) MC MSC(DK only 3Dsecure) MSC (only 3Dsecure) DINERS(DA) DINERS AMEX(DA) AMEX VISA JCB	char(76)	With cardtype it's possible to pick which types of credit cards which are accepted in the given transaction. This is useful to calculate the fee for a specific payment. Remember that this list is a whitelist. Separate values using comma.	?	?

	FBF				
authtype	auth subscribe suppauth	char(9)	Authtype defines how a transaction is handled. It can be made as a subscription, supplementary auth or as plain authentication.	?	%
checkmd5		char(?)	Use "checkmd5" to ensure that the postform is unchanged while the transaction is being processed. See "appendix a" for more details.	?	?
uniqueorderid	true false	char(5)	Use uniqueorderid to ensure that only unique orderid's are used.	?	?
accepturl		char(?)	The url where the customer is redirected to, when a successful transaction has been made. This option will overrule the accepturl defined in the webinterface.	?	?
declineurl		char(?)	The url where the customer is redirected to, when a transaction has been declined. This option will overrule the declineurl defined in the webinterface.	?	?
callbackurl		char(?)	Callbackurl can make a request back to a predefined URL. Use this option together with mobile payment, credicard, edankort and 3DSecure. Verify the payment by using a new get parameter called "checkmd5callback"	?	?
lang	da, en, de, es, it, nl, no, pt, ru, se	char(2)	Define which language to display. Default language is Danish.	?	?
split	true false	char(5)	Enable split payment. This option can split one payment into 2 or more transactions. This is useful, if your shop provides split shipping, as split payment will allow you to make one transaction, for each of every product in one order. By enabling this option amount, orderid, orderidprefix and authtype will be obsolete. Be a ware that this feature is only supported with creditcard transactions.	?	%

transact		POST array	This field I used together with split payment. Every split payment is defined as an array. Example is available under section 3.2	?	%
cardnomask	true false	char(5)	The last 4 digits will be attached to the accepturl and callbackurl. The variable is named "cardnomask"	?	?
googleanalytics	uacode	char(14)	Enable google analytics javascript code in paymentwindow	?	?

## Payment window post example

```

1 <html>
2 <head>
3
4 <title></title>
5 <script language="javascript"
6 src="https://betaling.wannafind.dk/customers/wannafind/js/openpaymen
7 twindow.js"></script>
8
9 </head>
10 <body>
11
12 <a href="#" onClick="openPaymentWindow()">Open paymentwindow</a>
13
14 <form action="https://betaling.wannafind.dk/paymentwindow.php"
15 method="post" target="wannafind_paymentwindow" name="wannafind"
16 id="wannafind">
17 <input type="hidden" name="shopid" value="SHOPID">
18 <input type="hidden" name="currency" value="CURRENCY (DKK 208)">
19 <input type="hidden" name="amount" value="AMOUNT">
20 <input type="hidden" name="orderid" value="ORDERID">
21 <input type="hidden" name="paytype" value="creditcard">
22 <input type="hidden" name="uniqueorderid" value="true / false">
23 <input type="hidden" name="lang" value="da / en">
24
25 <input type="hidden" name="accepturl" value="ACCEPTURL">
26 <input type="hidden" name="declineurl" value="DECLINEURL">
27 </form>
28
29 </body>
30 </html>

```

To change the top logo in the payment window, log onto the paymentgateway webinterface and select "Indstillinger / Settings". Find the input field called "Betaling-vindue logo". Type in the URL where the logo is located, this must be defined as a HTTP referral.

Postfields added which are not enforced by the argument list, will be sent to accept or decline page.

Add the following post fields to enable split payment. Remember that "amount", "orderid", "orderidprefix" and "authtype" is obsolete, when split payment is enabled. The amount of each split transaction is summarized, and displayed as total amount in the paymentwindow.

1	<input type="hidden" name="split" value="true">
2	
3	<input type="hidden" name="transact[1][amount]" value="AMOUNT">
4	<input type="hidden" name="transact[1][orderid]" value="OREDERID">
5	<input type="hidden" name="transact[1][orderidprefix]"
6	value="ORDERIDPREFIX">
7	<input type="hidden" name="transact[1][authtype]" value="AUTHTYPE">
8	
9	<input type="hidden" name="transact[2][amount]" value="AMOUNT">
10	<input type="hidden" name="transact[2][orderid]" value="OREDERID">
11	<input type="hidden" name="transact[2][orderidprefix]"
12	value="ORDERIDPREFIX">
13	<input type="hidden" name="transact[2][authtype]" value="AUTHTYPE">

When a split payment is returned to accept or decline page, there is added a number to each GET parameter. This number is the same as the one that are giving to the split payment, as showed in the above example. The same goes for the callbackurl option.

If authtype is set differently on 2 transactions, the amount will be split up and showed as "amount to be captured right now" and "subscribe amount"

## Postform API solutions

### Postform API arguments

#### Conventions

X	Mandatory
?	Optional
%	N/A
CC	Credit card
eDK	eDankort
3Ds	3Dsecure
MB	Mobile pay
NB	Netbank

#### Postform description

Field	Arguments	Type	Description	CC	eDK	3Ds	MB	NB
shopid		int(?)	A numeric id to identify the postform.	X	X	X	X	X
currency		int(3)	Define currency for the specific transaction. Use a numeric value from ISO 4217. If this field is empty the gateway will use the default value. The default value is set when logging into the payment gateway webinterface.	?	?	?	?	X
amount		int(?)	Specify an amount for this transaction. You must use minor unit to specify the amount.	X	X	X	X	X
orderid		int(19)	Orderid for the specific transaction.	X	X	X	X	X
orderidprefix		char(4)	Orderidprefix is a way to append a prefix to the orderid.	?	?	?	?	?

paytype	creditcard edankort netbank 3dsecure mobilepay icash	char(10)	Assign one of the following arguments, to define the type of transaction.	X	X	X	X	X
outputFormat	html or wml	char(4)	Output format when displaying the mobile payment form. If output format is empty, the default output will be HTML.	%	%	%	?	?
bankname	DanskeBank	char(10)	NetBank authorizations	%	%	%	%	X
bankMerchantID		char(?)	Bank Merchant ID	%	%	%	%	X
cardtype	DK V-DK VISA(DK) MC(DK) MC MSC(DK) MSC DINERS(DA) DINERS AMEX(DA) AMEX VISA JCB FBF	char(76)	With cardtype it's possible to pick which types of credit cards which are accepted in the given transaction. This is useful to calculate the fee for a specific payment. Remember that this list is a whitelist. Separate values using comma.	?	?	?	?	%
authtype	auth subscribe suppauth	char(9)	Authtype defines how a transaction is handled. It can be made as a subscription, supplementary auth or as plain authentication.	?	%	%	?	%
checkmd5		char(?)	Use "checkmd5" to ensure that the postform is unchanged while the transaction is being processed. See	?	?	?	?	%

			"appendix a" for more details.					
uniqueorderid	true false	char(5)	Use uniqueorderid to ensure that only unique orderid's are used.	?	?	?	?	%
cardnum		int(19)	Credit card number	X	%	X	%	%
emonth		int(2)	Expiry month ex. (05)	X	%	X	%	%
eyear		int(2)	Expiry year ex. (07)	X	%	X	%	%
cvc		int(4)	Credit card verification number.	X	%	X	%	%
accepturl		char(?)	The url where the customer is redirected to, when a successful transaction has been made. This option will overrule the accepturl defined in the webinterface.	?	?	?	%	?
declineurl		char(?)	The url where the customer is redirected to, when a transaction has been declined. This option will overrule the declineurl defined in the webinterface.	?	?	?	%	?
callbackurl		char(?)	Callbackurl can make a request back to a predefined URL. Use this option together with mobile payment, credicard, edankort and 3DSecure. Verify the payment by using a new get paramenter called	?	?	?	?	%



			"checkmd5callback"					
statusurl		char(?)	When using netbank payment, it's possible to define a call-back URL. This callback request will be made from the bank, to ensure that the transaction was successfully made.	%	%	%	%	?
split	true false	char(5)	Enable split payment. This option can split one payment into 2 or more transactions. This is useful, if your shop provides split shipping, as split payment will allow you to make one transaction, for each of every product in one order. By enabling this option amount, orderid, orderidprefix and authtype will be obsolete. Be aware that this feature is only supported with creditcard transactions.	?	%	%	%	%
transact		POST array	This field I used together with split payment. Every split payment is defined as an array. Example is available under section 3.2	?	%	%	%	%

cardnomask	true false	char(5)	The last 4 digits will be attached to the accepturl and callbackurl. The variable is named "cardnomask"	?	?	?	%	%
------------	---------------	---------	---	---	---	---	---	---

## eDankort api authorize example

```
1 <form method="post" action="https://betaling.wannafind.dk/auth.php">
2   <input type="hidden" name="shopid" value="SHOPID">
3   <input type="hidden" name="currency" value="CURRENCY (DKK 208)">
4   <input type="hidden" name="amount" value="AMOUNT">
5   <input type="hidden" name="orderid" value="ORDERID">
6   <input type="hidden" name="paytype" value="edankort">
7   <input type="hidden" name="uniqueorderid" value="true / false">
8
9   <input type="hidden" name="accepturl" value="ACCEPTURL">
10  <input type="hidden" name="declineurl" value="DECLINEURL">
11
12  <input type="submit" name="submit" value="Payment">
13 </form>
```

We recommend disabling the submit button after the customer has submitted the form.

This can be done by replacing the first line in the example above with the one below.

Remember to name your submit button "submit".

```
<form method="post" action="
https://betaling.wannafind.dk/auth.php"
onSubmit="submit.disabled = true">
```

When performing an edankort authentication there is no need to have any input fields. When the customer has pressed the button, the customer will automatically redirect to the netbank for authentication. **Remember that it's only possible to test in production mode.**

This form has to be displayed on an SSL ( HTTPS ) connection.

## 3D Secure api authorize example

```
1 <form method="post" action="https://betaling.wannafind.dk/auth.php">
2   <input type="hidden" name="shopid" value="SHOPID">
3   <input type="hidden" name="currency" value="CURRENCY ( DKK 208 )">
4   <input type="hidden" name="amount" value="AMOUNT">
5   <input type="hidden" name="orderid" value="ORDERID">
6   <input type="hidden" name="paytype" value="3dsecure">
7   <input type="hidden" name="uniqueorderid" value="true / false">
8
9   <input type="hidden" name="accepturl" value="ACCEPTURL">
10  <input type="hidden" name="declineurl" value="DECLINEURL">
11
12  <input type="text" name="cardnum" size="25">
13  <input type="text" name="emonth" size="2">
14  <input type="text" name="eyear" size="2">
15  <input type="text" name="cvc" size="3">
16
17
18  <input type="submit" name="submit" value="Payment">
19 </form>
```

We recommend disabling the submit button after the customer has submitted the form.

This can be done by replacing the first line in the example above with the one below. Remember to name your submit button "submit".

```
<form method="post" action="
https://betaling.wannafind.dk/auth.php"
onSubmit="submit.disabled = true">
```

When performing a 3Dsecure authentication, the customer has to fill in the card number, expiry month, expiry year and CVC. After the customer has pressed the button the customer will automatically be redirected to the netbank for authentication. **Remember that it's only possible to test in production mode.**

This form has to be displayed on an SSL ( HTTPS ) connection.

## Mobile Payment api authorize example

```
1 <form method="post" action="https://betaling.wannafind.dk/auth.php">
2   <input type="hidden" name="shopid" value="SHOPID">
3   <input type="hidden" name="currency" value="CURRENCY ( DKK 208 )">
4   <input type="hidden" name="amount" value="AMOUNT">
5   <input type="hidden" name="orderid" value="ORDERID">
6   <input type="hidden" name="paytype" value="mobilepay">
7   <input type="hidden" name="outputFormat" value="wml/html">
8
9   <input type="hidden" name="callbackurl" value="CALLBACKURL">
10
11
12   <input type="submit" name="submit" value="Payment">
13 </form>
```

We recommend disabling the submit button after the customer has submitted the form.

This can be done by replacing the first line in the example above with the one below. Remember to name your submit button "submit".

```
<form method="post" action="
https://betaling.wannafind.dk/auth.php"
onSubmit="submit.disabled = true">
```

## NetBank api authorize example

```
1 <form method="post" action="https://betaling.wannafind.dk/auth.php">
2   <input type="hidden" name="shopid" value="SHOPID">
3   <input type="hidden" name="currency" value="CURRENCY ( DKK 208 )">
4   <input type="hidden" name="amount" value="AMOUNT">
5   <input type="hidden" name="orderid" value="ORDERID">
6   <input type="hidden" name="paytype" value="netbank">
7   <input type="hidden" name="bankname" value="BankName">
8   <input type="hidden" name="bankMerchantID" value="BankMerchantID">
9
10  <input type="hidden" name="accepturl" value="ACCEPTURL">
11  <input type="hidden" name="declineurl" value="DECLINEURL">
12  <input type="hidden" name="statusurl" value="STATUSURL">
13
14
15  <input type="submit" name="submit" value="Payment">
16 </form>
```

We recommend disabling the submit button after the customer has submitted the form.

This can be done by replacing the first line in the example above with the one below. Remember to name your submit button "submit".

Transactions made with netbank, will not be shown in the transaction list on the webinterface. They will only be available through Danske Netbank business online login – a system maintained by Danske Bank.

```
<form method="post" action="
https://betaling.wannafind.dk/auth.php"
onSubmit="submit.disabled = true">
```

When performing a netbank transaction, after the customer has pressed the button the customer will automatically be redirect to the netbank for authentication. **Remember that it's only possible to test in production mode.**

This form has to be displayed on an SSL ( HTTPS ) connection.

## Creditcard api authorize example

```
1 <form method="post" action="https://betaling.wannafind.dk/auth.php">
2   <input type="hidden" name="shopid" value="SHOPID">
3   <input type="hidden" name="currency" value="CURRENCY (DKK 208)">
4   <input type="hidden" name="amount" value="AMOUNT">
5   <input type="hidden" name="orderid" value="ORDERID">
6   <input type="hidden" name="paytype" value="creditcard">
7   <input type="hidden" name="uniqueorderid" value="true / false">
8
9   <input type="hidden" name="accepturl" value="ACCEPTURL">
10  <input type="hidden" name="declineurl" value="DECLINEURL">
11
12  <input type="text" name="cardnum" size="25">
13  <input type="text" name="emonth" size="2">
14  <input type="text" name="eyear" size="2">
15  <input type="text" name="cvc" size="3">
16
17  <input type="submit" name="submit" value="Payment">
18 </form>
```

We recommend disabling the submit button after the customer has submitted the form.

This can be done by replacing the first line in the example above with the one below. Remember to name your submit button "submit".

```
<form method="post" action="
https://betaling.wannafind.dk/auth.php"
onSubmit="submit.disabled = true">
```

## eDankort authorize example using secureproxy

1	%%%FORMSTART%%%
2	%%%SHOPID_200893123123%%%
3	%%%AMOUNT_500%%%
4	%%%ORDERID_23123213%%%
5	%%%CURRENCY_208%%%
6	%%%PAYTYPE_edankort%%%
7	%%%ACCEPTURL <a href="http://www.shop.dk/acceptpage.php">http://www.shop.dk/acceptpage.php</a> %%%
8	%%%DECLINEURL <a href="http://www.shop.dk/declinepage.php">http://www.shop.dk/declinepage.php</a> %%%
9	%%%CALLBACKURL <a href="http://www.shop.dk/status.php">http://www.shop.dk/status.php</a> %%%
10	%%%FORMSUBMIT_Make Payment%%%
11	%%%FORMEND%%%

When performing an edankort authorize there is no need to have any input fields. When the customer has pressed the button, the customer will automatically redirect to the netbank for authentication. **Remember that it's only possible to test in production mode.**

## 3D Secure authorize example using secureproxy

1	%%%FORMSTART%%%
2	%%%SHOPID_200893123123%%%
3	%%%AMOUNT_500%%%
4	%%%ORDERID_23123213%%%
5	%%%CURRENCY_208%%%
6	%%%PAYTYPE_3dsecure%%%
7	%%%ACCEPTURL <a href="http://www.shop.dk/acceptpage.php">http://www.shop.dk/acceptpage.php</a> %%%
8	%%%DECLINEURL <a href="http://www.shop.dk/declinepage.php">http://www.shop.dk/declinepage.php</a> %%%
9	%%%CALLBACKURL <a href="http://www.shop.dk/status.php">http://www.shop.dk/status.php</a> %%%
10	%%%CARDNUM%%% 
11	%%%EXPMONTH%%% / %%%EXPYEAR%%% 
12	%%%CVC%%% 
13	%%%FORMSUBMIT_Make Payment%%%
14	%%%FORMEND%%%

When performing a 3Dsecure authorize, the customer has to fill in the card number, expiry month, expiry year and CVC. After the customer has pressed the button the customer will automatically be redirected to the netbank for authentication. **Remember that it's only possible to test in production mode.**



## Netbank authorize example using secureproxy

1	%%%FORMSTART%%%
2	%%%SHOPID_200893123123%%%
3	%%%AMOUNT_500%%%
4	%%%ORDERID_23123213%%%
5	%%%CURRENCY_208%%%
6	%%%PAYTYPE_netbank%%%
7	%%%BANKNAME_DanskeBank%%%
8	%%%BANKMERCHANTID_shopname%%%
9	%%%ACCEPTURL <a href="http://www.shop.dk/acceptpage.php">http://www.shop.dk/acceptpage.php</a> %%%
10	%%%DECLINEURL <a href="http://www.shop.dk/declinepage.php">http://www.shop.dk/declinepage.php</a> %%%
11	%%%CALLBACKURL <a href="http://www.shop.dk/status.php">http://www.shop.dk/status.php</a> %%%
12	%%%FORMSUBMIT_Make Payment%%%
13	%%%FORMEND%%%

When performing a netbank transaction, after the customer has pressed the button the customer will automatically be redirect to the netbank for authentication. **Remember that it's only possible to test in production mode.**

## Using google analytics with secureproxy

1	%%%FORMSTART%%%
2	%%%SHOPID_200893123123%%%
3	%%%AMOUNT_500%%%
4	%%%ORDERID_23123213%%%
5	%%%CURRENCY_208%%%
6	%%%ACCEPTURL <a href="http://www.shop.dk/acceptpage.php">http://www.shop.dk/acceptpage.php</a> %%%
7	%%%DECLINEURL <a href="http://www.shop.dk/declinepage.php">http://www.shop.dk/declinepage.php</a> %%%
8	%%%CALLBACKURL <a href="http://www.shop.dk/status.php">http://www.shop.dk/status.php</a> %%%
9	%%%FORMSUBMIT_Make Payment%%%
10	%%%FORMEND%%%
11	%%%GOOGLEANALYTICS UA-00000000-0%%%

Remember to place the placeholder for googleanalytics before your </body> tag at the bottom of the payment page.

## **API Documentation**

All API connections are based on SOAP requests. We recommend using one of the functions that are made public on our websites download section.

The public examples describe how to make connection through ASP 3.x, ASP.NET and PHP.

## Action code list

Action code	Description
0	Successful action
1	Transaction declined
2	Possible fraud
3	Communication error
4	Card is expired
5	PBS internal system error
6	Invalid Transaction
7	System error
8	Wrong merchant number
9	No card record
10	Card entry below low range
11	Transaction not permitted to terminal
12	Transaction not permitted to cardholder
13	Invalid card number
14	Unauthorized content in cardnum field
15	Unauthorized content in expiry month
16	Unauthorized content in expiry year
17	Unauthorized content in CVC
18	Card number is not authorized according to cardtype.
19	Not a unique orderid
20	Empty amount
21	Not a valid md5checksum
22	Netbank authorize failed
23	Netbank authorize cancelled by customer.

## Subscribe authorize

### Request acct example

```
1 <form method="post" action="https://betalng.wannafind.dk/auth.php">
2   <input type="hidden" name="shopid" value="SHOPID">
3   <input type="hidden" name="currency" value="CURRENCY (DKK 208)">
4   <input type="hidden" name="amount" value="AMOUNT">
5   <input type="hidden" name="orderid" value="ORDERID">
6   <input type="hidden" name="paytype" value="creditcard">
7   <input type="hidden" name="authtype" value="subscribe">
8   <input type="hidden" name="uniqorderid" value="TRUE / FALSE">
9
10  <input type="hidden" name="accepturl" value="ACCEPTURL">
11  <input type="hidden" name="declineurl" value="DECLINEURL">
12
13  <input type="text" name="cardnum" size="25">
14  <input type="text" name="emonth" size="2">
15  <input type="text" name="eyear" size="2">
16  <input type="text" name="cvc" size="3">
17
18  <input type="submit" name="submit" value="Payment">
19 </form>
```

It's only possible to use credit card when performing subscribe transactions. After a successful action, the transaction will be listed under "subscribe payments" in the webinterface. The transaction is only a subscribe payment. This means that before a capture can be made, an "acct authenticate" has to be created.

## Request acct authorize example

When performing an acct authenticate, we recommend using of ASPtear or file\_get\_contents.

It is also possible to make this request directly from a browser.

Fill in the following parameters, and request the URL. The acct authenticate, can be requested as a batchlist, or as a single request.

When sending a single request. Just fill in the transaction ID, that was delivered whit the accepturl when the request acct was made. The second option is the amount for this specific transaction. The last option is the orderid, which can be used as a reference number between the customer order and the transaction.

Batchlist=transacnum1;amount1;orderid1

When sending more than one request, just duplicate the options, and separate them with a comma.

Batchlist=transacnum1;amount1;orderid1;orderidprefix1,transacnum2;amount2;orderid2;orderidprefix2

URL:

<https://betaling.wannafind.dk/authsubscribe.php?batchlist=transacknum1;amount1;orderid1;orderidprefix1>

The response from this action will be returned as plain text.

If a successful action was made, the response will look like this.

APPROVED;ORIGINALTRANSNUM;NEWTRANSNUM;AMOUNT;ORDERID;ORDERIDPREFIX

If the action fails, the response will look like this.

FAILED;ORIGINALTRANSNUM;0;AMOUNT;ORDERID;ORDERIDPREFIX

## Accept and decline return parameters

Following GET parameters are returned together with the accepturl and callbackurl.

Field	Parameters		
transacknum	A unique id which is used, to identify the transaction. The id will be available at the account balance.		
orderid	Orderid provided when the authentication was requested		
amount	Amount returned in minor unit		
currency	Currency returned as numeric format. ISO 4217		
cardtype	Prefix	Cardname	Country
	DK	Dankort	Danish
	V-DK	Visa Dankort	Danish
	VISA(DK)	Visa Electron	Danish
	MC(DK)	Euro/Mastercard	Danish
	MC	Euro/Mastercard	Foreign
	MSC(DK)	Maestro	Danish
	MSC	Maestro	Foreign
	DINERS(DA)	Diners club	Danish
	DINERS	Diners club	Foreign
	AMEX(DA)	American Express	Danish
	AMEX	American Express	Foreign
	VISA	Visa	Foreign
	EDK	eDankort	Danish
	JCB	JCB	Foreign
	FBF	Forbrugsforeningen	Danish
	DanskeBank	Danske Bank	Danish
	N/A	Unknown	Unknown
actioncode	A numeric value which refers to the action code list		

Following GET parameters are returned together with the declineurl.

Field	Parameters
orderid	Orderid is provided when an authentication is requested
actioncode	A numeric value which refer to action code list

Extra return values from callbackurl

Field	Parameters
checkmd5	Use "checkmd5" to ensure that the postform is unchanged while the transaction is processed. See "appendix a" for more details.

## Supplementary authorize

Supplementary authorize is a way of extend transaction default life time. If your shop is selling products that are not made available or shipped within 7 days, you can extend transaction lifetime with as many days as you want, until the product is ready to be shipped or made available for the customer.

**Update: Supplementary authorize can be used for all transaction types. Including eDankort and 3Dsecure.**

The way supplementary authorize is working, is by setting postfield "authtype" to "suppauth". The first card authorize will be made with zero amount, and the original amount will not be reserved on the customers bank account. This check is not for guaranteeing any coverage on the credit card, but only to make sure that the card is valid.

When the product is ready to be shipped or made available for the customer, press the capture button in the webinterface or by using the API. The capture process now makes another authorize, which first of all makes sure that the card is valid, and second, that the money is guaranteed. If the capture failed, it's properly because that the card is reported stolen, not valid anymore or that there isn't coverage for the money on the customers bank account.

To implement supplementary authorize, please look at the "authtype" option in the postform API arguments list. The same option is available under secureproxy and paymentwindow.

## Split capture

Sometimes it can be usefull to split a transaction in to pieces, if the product is shipped in parts. Split capture can be activated by setting "authtype" to "suppauth". When a transaction is made as a supplementary authorize, it will be possible to specify the amount you want to capture. The transaction is first marked as captured, when the entire amount is captured or the transaction is marked canceled.

If only part of the amount is captured, and the transaction is marked as canceled, it will still be marked as captured. Only mark the transaction as canceled if not the entire amount needs to be captured.

If the amount field is zero, when using API to capture with, the entire amount is captured.

**Note: eDankort transactions lifetime is 30 days regardless if supplementary authorize is used. This means that if split captured is used with a eDankort transactions, it has to be fully captured within 30 days.**

# Appendix

## Appendix A

MD5 checksum is used to verify data, which have been posted from the webshop to the paymentgateway. Every important data filed in the postform, is included in this verify check. We highly recommend enabling this feature.

The feature has to be enabled, before the paymentgateway will react on this field. Enabling md5checksum is done by clicking the checkbox that refer to md5checksum. The checkbox is located in the paymentgateway webinterface under "Indstillinger / Settings".

After the checkbox is marked, there are 4 dropdown menus and one key field which have to be filled out. The most appropriate way to do this is to select a different value in all of the 4 dropdown menus. In the last key field, type in a secret that is only used in this md5checksum.

The last part is to add the md5checksum field to the post form, and fill in the right md5checksum.

If using PHP, ASP 3.x or asp.net, we provide some examples that are made public at our websites download section.

When using split payment, the fields are added together. That means if you have 2 split transactions, you have to add both amounts and orderid, if those are the md5 criteria.

### **Update!!**

Callbackurl function now has a different md5checksum to ensure that it isn't possible to fake it. By looking under settings in the paymentgateway webinterface, you will find 5 new fields, that applies to the callbackurl md5checksum. The new row is located below the old md5checksum. The difference between these two rows is the title that defines them as auth and callback. The upper row is the same as always, but the new row applies to the new field that is returned as "get" parameter with the callback url. The new field is named "checkmd5callback"



## Appendix B

Because of PBS' new enhanced security policies regarding merchants, it is no longer possible to use our normal postform procedure. As of 30th of September 2008, PBS require all new merchants to perform an SAQ ( Self Assessment Questionnaire ) together with quarterly security scan. The results of the SAQ and quarterly scans, has to be made available at the PBS trustkeeper portal.

If your shop is already running, the new requirements only have to be enforced by the end of September 2009.

Please be aware that the new requirements from PBS only concern merchants that uses Application Protocol Interface ( API ), also known as postform procedure. To avoid the SAQ, we will recommend implementing our secure proxy or payment window. Payment window and secure proxy are both referred to as hosted solutions, and they are thereby not a subject to the new requirements published by PBS.

Please contact PBS for more information about the SAQ requirements.