

One-click payment

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Description

Offer a simple checkout experience to your customers by allowing them to reuse their credit card data

Steps

Step 1 : Initial payment and Card registration

- A customer makes a purchase of € 20.00 on the merchant's site.
- He enters all the data necessary for payment (card number, expiration date, CVV, etc.).
- The merchant offers his customer to register his card.

Step 2 : Offer a One-click payment

- During his next purchase, the merchant offers the customer to reuse his card.
- The customer can be authenticated (CIT - Customer initiated transaction)
- The CVV is optional

Prerequisites

- You offer your customers payment by card
- Customers buy in your shop and you store the pseudo card number
- A strong authentication (SCA) is mandatory for the initial payment (card registration)

Implementation

Step 1 : Initial payment and Card registration

The first payment can be done with :

- Credit card form hosted by BNP Paribas - [PaySSL.aspx](#)
- Credit card form hosted by the merchant - [PayNow.aspx](#) - for merchants PCI-DSS certified



Authentication with 3D Secure is mandatory for the first transaction initiated by the customer (CIT) / card registration

Request

The following table describes the **additional** encrypted parameters to add in the payment request :

Key	Format	CND	Description	Example
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credentialOnFile	JSON	M	Object specifying type of transaction	<pre>{ "type": { "unscheduled": "CIT" }, "initialPayment": true, "useCase": "cof" }</pre>
threeDSPolicy	JSON	M	Object specifying authentication policies and exemption handling strategies. Use : Mandate challenge	—

Response

JSON Object sent in the response of the initial payment, stored by the merchant and will be used for the next transactions

Key	Format	CND	Description
card	JSON	M	Card response data  The object Card available in the response should be decrypted and stored. The object card used in the next request requires less parameters than the card object in the reponse. card:request EN card:response EN

Step 2 : One-click payment

One-Click payment can be initiated by the merchant through [PayNow.aspx](#).

The merchant doesn't need to PCI-DSS certified because this feature requires the use of the PCNr (Pseudo Card Number not real PAN). This data is stored by the merchant.



Authentication with 3D Secure is not mandatory for these transactions, so exemptions can be requested.

CVV is optionnal for One-click payments.

Request with paynow.aspx

Mechant creates a **form** with the following fields :

- Number - Hidden field / filled with PCNr by the merchant
- securityCode - Empty or will be filled by the custmer (optionnal)
- expiryDate - Visible or Hidden field / filled with the expiryDate by the merchant
- brand - Visible or Hidden field / filled with the brand by the merchant
- cardholder - Visible or Hidden field / filled with the cardholder by the merchant

All details for integration are available here : [Merchant Credit Card Form - Silent Order Post \(PayNow.aspx\)](#)



The following table describes the **additional** encrypted parameters to add in the payment request :

Key	Format	CND	Description	Example
credentialOnFile	JSON	M	Object specifying type of transactions	<pre>{ "type": { "unscheduled": "CIT" }, "initialPayment": false, "useCase": "cof" }</pre>
browserInfo	JSON	M	Accurate browser information are needed to deliver an optimized user experience. Required for 3DS 2.0 transactions.	--

Example with BNP_DEMO_AXEPTA

This example is based on the test shop [BNP_DEMO_AXEPTA](#), only credit card payments are setup on this shop.

Step 1 : Initial payment and Card registration

Calculate the HMAC value

The HMAC value is obtained by ciphering the string PayID*TransID*MerchantID*Status*Code with the HMAC key of your shop.

Example with [BNP_DEMO_AXEPTA](#)

- PayID*TransID*MerchantID*Amount*Currency *111*BNP_DEMO_AXEPTA*20*EUR
- HMAC value 634AA4452E61434ECF87533ED31A99FB62CC2A43B466097A26DBF2129B2B82AA

Calculate the DATA and Len values

The DATA parameter is obtained by ciphering all the parameters required for the payment with the blowfish key of your shop.

All parameters are assembled in a character string and separated by the character &.

At least, a request payment should contain the following parameters :

```
MerchantID=value&MsgVer=value&TransID=value&RefNr&Amount=value&Currency=value&URLNotify=value&URLSuccess=value&URLFailure=value&MAC=value&OrderDesc=value
```

Example with [BNP_DEMO_AXEPTA](#)

- Encode JSON Object

Parameter	JSON Object	Base64 Encoding with Padding
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credentialOnFile	<pre>{ "type": { "unscheduled": "CIT" }, "initialPayment": true }</pre>	ew0KICAgICJ0eXBlljogew0KICAgICAgICAidW5zY2hlZHVzZWQiOiAiQ0Ulg0KICAgIH0sDQogICAgImluaXRpYWxQYXltZW50IjogdHJ1ZQ0KfQ==
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- Required parameters with the values
 - MerchantID=BNP_DEMO_AXEPTA&MsgVer=2.0&TransID=**111**&RefNr=0000000AB123&Amount=**20**&Currency=EUR&URLNotify=https://axepta.bnpparibas/&URLSuccess=https://axepta.bnpparibas/&URLFailure=https://group.bnpparibas&MAC=**634AA4452E61434ECF87533ED31A99FB62CC2A43B466097A26DBF2129B2B82AA6**&OrderDesc=Test:0000&credentialOnFile=ew0KICAgICJ0eXBlljogew0KICAgICAgICAidW5zY2hlZHVzZWQiOiAiQ0Ulg0KICAgIH0sDQogICAgImluaXRpYWxQYXltZW50IjogdHJ1ZQ0KfQ==
- Encryption with the BNP_DEMO_AXEPTA blowfish key
 - DATA =
43AD07F58FF6A5F9EBBDD42E361D2C85CE4AD41FCD63C697C9CA59076FB5CB782237A2E862A97BB26AA9C827F3BACA3A64792BF0297DF7CE0A25DF836ACDDB100490D0FD09271A0C82F4567B75AE8F3E59D95F3F0C37126A52495115E28F938E76748A5DC703F7CCBDA6CCB4FC253B255C06E0DF990FDD94F4313EC2B94142F9978ADB9D1079A36A9DBB83E9638E3E58A124D532ECE1B7BC175FA340BD0C73C33D4F78374420091E90735BB014A5163D86BFE38795DECACF0358075A85C0FBF80C5535046E7F8DDCFB39A3312AEC824579851424ED4426F4C9901FF06312B0E05479ABE1E935C85EBADFBA9A166631CEDFC90D9A672BF1607E3EAAEC81263AD8751DB1C714492BBDDBA108B82548D59B12FF6A18A80A651D20D91B8F0D8DD55000C257A9899BA214EE17E548B7454015489D127C0F3BCC3504993C36CBC37541F3F7A5961C88DB357AB1B378B492F6A9A8DF8D9B0F254449E35D4D89C02008B95253466EBEB6B218B1C9464B37B371F3D303ED6D7255758848F1CB40866D9A60FF54D872AB41AC55F50A39B7F79CAA19F83A0F3B1F3FD42CA37219D55D62C50C79F9E4571A0A4343FFCF03B977EF2
 - LEN = 425

Finalize the request

A correct parameter character string for Platform contains three basic parameters: **MerchantID**, **Len** and **Data**.

The parameters **MerchantID** and **Len** are unencrypted. Only the **Data** parameter is Blowfish-encrypted such as :

```
MerchantID=YourMerchantID&Len=67&Data=0A67FE96a65d384350F50FF1
```

They are added to endpoint to create the GET request

```
https://paymentpage.axepta.bnpparibas/payssl.aspx?MerchantID=YourMerchantID&Len=67&Data=0A67FE96a65d384350F50FF1
```

The **Data** parameter contains the sensitive payment details such as amount and currency. The encrypted bytes are Hex-encoded and completed to two characters from the left with a zero. Encryption is via Blowfish ECB and is available to you as source-code and components.

The **Len** parameter is very important for encryption because it contains the length of the unencrypted(!) character string in the **Data** parameter. Since the data quantity to be encrypted is increased by a multiple of 8 in the case of the Blowfish encryption, the correct length of the character string must be known for decryption. Otherwise accidental characters emerge at the end of the character string.

The parameters are transmitted via HTTPS POST or HTTPS GET. The recommended transmit method is HTTPS POST because the parameter character string in the case of GET is attached to the URL, which is limited to 2048 bytes depending on the browser.

Notice: Please note that the maximum length of a payment request is limited to 5120 characters. If you require longer strings please contact [Axepta Helpdesk](#).

Example with [BNP_DEMO_AXEPTA](#)

[https://paymentpage.axepta.bnpparibas/payssl.aspx?](https://paymentpage.axepta.bnpparibas/payssl.aspx?MerchantID=BNP_DEMO_AXEPTA&Len=425&DATA=43AD07F58FF6A5F9EBBDD42E361D2C85CE4AD41FCD63C697C9CA59076FB5CB782237A2E862A97BB26AA9C827F3BACA3A64792BF0297DF7CE0A25DF836ACDDB100490D0FD09271A0C82F4567B75AE8F3E59D95F3F3F0C37126A52495115E28F938E76748A5DC703F7CCBDA6CCB4FC253B255C06E0DF990FDD94F4313EC2B94142F9978ADB9D1079A36A9DDB83E9638E3E58A124D532ECE1B7BC175FA340BD0C73C33D4F78374420091E90735BB014A5163D86BFE38795DECACF0358075A85C0FBF80C5535046E7F8DDCFFB39A3312AEC824579851424ED4426F4C9901FF06312B0E05479ABE1E935C85EBADFBA9A166631CEDFC90D9A672BF1607E3EAAEC81263AD8751DB1C714492BBDBBA108B82548D59B12FF6A18A80A651D20D91B8F0D8DD55000C257A9899BA214EE17E548B7454015489D127C0F3BCC3504993C36CBC37541F3F7A5961C88DB357AB1B378B492F6A9A8DF8D9B0F254449E35D4D89C02008B95253466EBEB6B218B1C9464B37B371F3D303ED6D7255758848F1CB40866D9A60FF54D872AB41AC55F50A39B7F79CAA19F83A0F3B1F3FD42CA37219D55D62C50C79F9E4571A0A4343FFCF03B977EF2)

MerchantID=BNP_DEMO_AXEPTA&Len=425&DATA=43AD07F58FF6A5F9EBBDD42E361D2C85CE4AD41FCD63C697C9CA59076FB5CB782237A2E862A97BB26AA9C827F3BACA3A64792BF0297DF7CE0A25DF836ACDDB100490D0FD09271A0C82F4567B75AE8F3E59D95F3F3F0C37126A52495115E28F938E76748A5DC703F7CCBDA6CCB4FC253B255C06E0DF990FDD94F4313EC2B94142F9978ADB9D1079A36A9DDB83E9638E3E58A124D532ECE1B7BC175FA340BD0C73C33D4F78374420091E90735BB014A5163D86BFE38795DECACF0358075A85C0FBF80C5535046E7F8DDCFFB39A3312AEC824579851424ED4426F4C9901FF06312B0E05479ABE1E935C85EBADFBA9A166631CEDFC90D9A672BF1607E3EAAEC81263AD8751DB1C714492BBDBBA108B82548D59B12FF6A18A80A651D20D91B8F0D8DD55000C257A9899BA214EE17E548B7454015489D127C0F3BCC3504993C36CBC37541F3F7A5961C88DB357AB1B378B492F6A9A8DF8D9B0F254449E35D4D89C02008B95253466EBEB6B218B1C9464B37B371F3D303ED6D7255758848F1CB40866D9A60FF54D872AB41AC55F50A39B7F79CAA19F83A0F3B1F3FD42CA37219D55D62C50C79F9E4571A0A4343FFCF03B977EF2

Step 2 : One-click Payment

Merchants can offer One-click payments to their customers with [PayNow.aspx](#).

PCI DSS certification is not mandatory for this feature, the merchant will use the PCNr (Pseudo Card Number and not a real PAN). This data is stored by the merchant.

Le marchand n'a pas besoin d'être certifié PCI-DSS car cette fonctionnalité nécessite l'utilisation du PCNr (Pseudo Card Number et pas un vrai PAN). Cette donnée est stockée par le commerçant.



3D authentication is not mandatory for this kind of payment, an exemption can be requested by the merchant. Cf. [Exemption & 'Frictionless' payments](#)

CVV is optional for One-click payments

Request with [paynow.aspx](#)

The merchant creates a form with the following fields :

- Number - Hidden field / filled with PCNr by the merchant
- securityCode - Empty or will be filled by the customer (optional)
- expiryDate - Visible or Hidden field / filled with the expiryDate by the merchant
- brand - Visible or Hidden field / filled with the brand by the merchant
- cardholder - Visible or Hidden field / filled with the cardholder by the merchant

More details : [Merchant Credit Card Form - Silent Order Post \(PayNow.aspx\)](#)



The masked PAN or the 4 last digits of the PCNr can be displayed to the customer so he can easily identify the card that will be used for the payment.

The masked PAN can be available in the payment response, please contact [Axepta Support](#).

The following table describes the additional encrypted parameters added to the payment request for One-click :

Key	Format	CND	Description	Example
-----	--------	-----	-------------	---------

credentialOn File	JSON	M	Type of transaction (One-click)	<pre> { "type": { "unscheduled": "CIT" }, "initialPayment": false, "useCase": "cof" } </pre>
browserInfo	JSON	M	Browser information is required to provide an optimized user experience. Required for 3DS 2.0 transactions.	--