

Mobile SDK Authentication



AXEPTA

BNP PARIBAS

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Updated version will be provided end of 2023

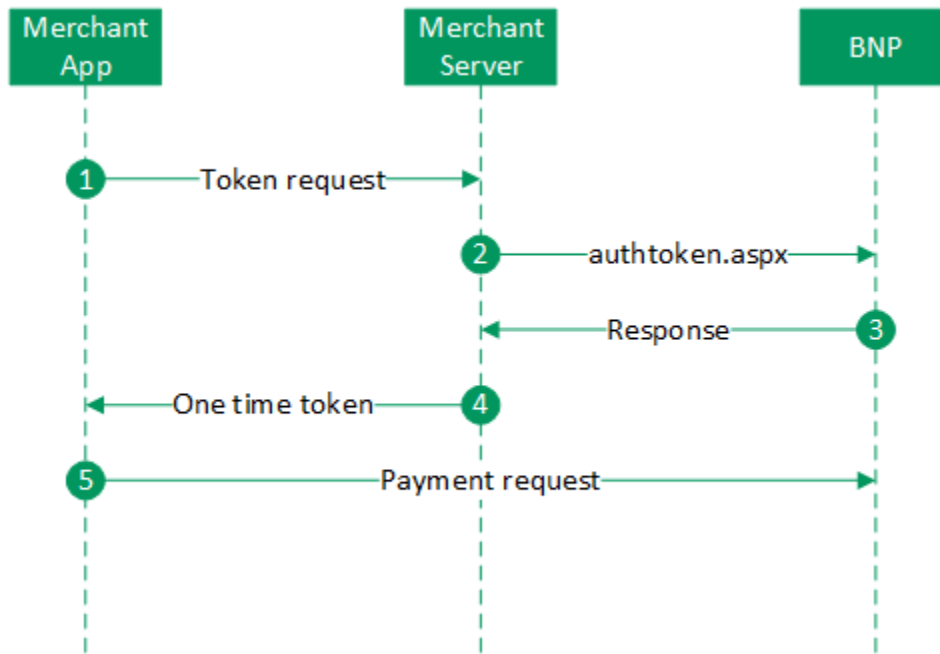
About Mobile SDK Authentication

General information about Mobile SDK Authentication

This document describes the BNP SDK authentication method and the corresponding parameters for the request and the responses passed back. If a merchant develops an app of its own, this method is necessary so that secure authentication takes place via the BNP interface, independently of the app. The authentication is based on a one-off token that is exchanged between BNP and the merchant.

Further information about integration of the SDK can be found within GitHub repository at <https://github.com/axapta>.

Process flow chart



Payment platform interface

Definitions

Data formats:

Format	Description
a	alphabetical
as	alphabetical with special characters
n	numeric
an	alphanumeric
ans	alphanumeric with special characters
ns	numeric with special characters
bool	boolean expression (true or false)
3	fixed length with 3 digits/characters
..3	variable length with maximum 3 digits/characters
enum	enumeration of allowed values
dtm	ISODateTime (YYYY-MM-DDThh:mm:ss)

Abbreviations:

Abbreviation	Description
CND	condition
M	mandatory
O	optional
C	conditional

Notice: Please note that the names of parameters can be returned in upper or lower case.

Mobile SDK authentication process

High level process overview:

1. Mobile SDK creates authentication request to merchant's URL endpoint
2. Merchant's URL endpoint generates AuthToken and AuthLabel
3. Merchant's URL endpoint calls BNP interface with below defined parameters
4. Merchant's URL endpoint receives BNP response
5. Merchant's URL endpoint responds to Mobile SDK authentication request

For the authentication request, the merchant's endpoint should accept a POST request with Content-Type: application/json and a JSON body like this:

```
{  
  "merchantID" : <BNP_MerchantID>  
}
```

The Mobile SDK expects a JSON object as response from merchant's endpoint, so merchant's endpoint needs to create a JSON object with attributes from the response and also the generated AuthToken and AuthLabel like this:

```
{  
  "AuthToken": <generated_token>,  
  "AuthLabel": <generated_label>,  
  "ExpiryDate": <expiry_date_of_token>  
  "Description": <description_from_axepta_response>,  
  "Status": <status_from_axepta_response>,  
  "Code": <code_from_axepta_response>  
}
```

Calling the interface

In order to register a one-off token for encryption on BNP Payment platform, the merchant must transmit the following parameters to BNP via a server-to-server connection. Use the following URL to do this:

<https://paymentpage.axepta.bnpparibas/authtoken.aspx>

Notice: For security reasons, Payment platform rejects all payment requests with formatting errors. Therefore please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	ID of merchant. Additionally this parameter has to be passed in plain language too.
AuthToken	an16..56	M	Unique token generated by merchant which is used to decrypt the payment request
AuthLabel	an32..64	M	Identifier for the AuthToken used to decrypt the payment request
ExpiryDate	dtmm	O	End time of token validity. The maximum period of validity amounts 24 hours. If the value is not specified the token expires after 15 minutes by default.

The following table describes the Payment platform response parameters:

Parameter	Format	CND	Description
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MID	ans..30	M	ID of merchant
Status	a..30	M	OK or FAILED
Description	ans..1024	M	More detailed description of the values for Status and Code. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file
ExpiryDate	dtm	M	End time of token validity. Either default value or return of the value of request.