

# Computop Mobile SDK Authentication

- [About Computop Mobile SDK Authentication](#)
  - General information about Computop Mobile SDK Authentication
    - [Paymethods and integration](#)
  - [Process flow chart](#)
- [Paygate interface](#)
  - [Definitions](#)
    - [Data formats](#)
    - [Abbreviations](#)
  - [Mobile SDK authentication process](#)
  - [Calling the interface](#)

## About Computop Mobile SDK Authentication

### General information about Computop Mobile SDK Authentication

This document describes the Computop 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 Computop interface, independently of the app. The authentication is based on a one-off token that is exchanged between Computop and the merchant.

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

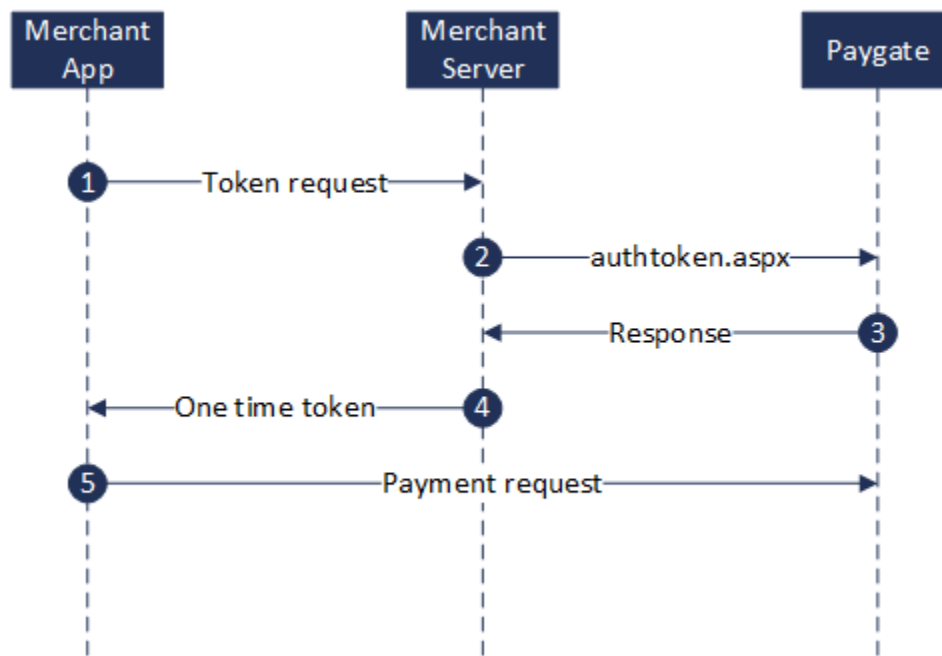
### Paymethods and integration

There you will find supported paymethods and details on integration.

There are currently two repositories existing:

- <https://github.com/Computop/Computop-iOS>
  - PDF-documentation: <https://github.com/Computop/Computop-iOS/blob/master/iOS%20SDK%20documentation.pdf>
- <https://github.com/Computop/Computop-Android-Example>
  - PDF-documentation: <https://github.com/Computop/Computop-Android-Example/blob/develop/docs/HowToImplementinAndroidProject.pdf>

### Process flow chart



Process flow Mobile SDK Authentication

# Paygate 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	Comment
CND	condition	
M	mandatory	If a parameter is mandatory, then it must be present
O	optional	If a parameter is optional, then it can be present, but it is not required
C	conditional	If a parameter is conditional, then there is a conditional rule which specifies whether it is mandatory or optional

**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 Computop interface with below defined parameters
4. Merchant's URL endpoint receives Computop 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" : <Computop_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_Computop_response>,
  "Status": <status_from_Computop_response>,
  "Code": <code_from_Computop_response>
}
```

## Calling the interface

In order to register a one-off token for encryption on Computop Paygate the merchant must transmit the following parameters to Computop via a server-to-server connection. Enter the following URL to do this:

<https://www.computop-paygate.com/authtoken.aspx>

**Notice:** For security reasons, Computop Paygate 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](#):


Key	Format	CND	Description
<a href="#">Merchant ID</a>	ans..30	M	MerchantID, assigned by Computop. 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 <b>AuthToken</b> used to decrypt the payment request
ExpiryDate	dtm	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.

Key	Format	CND	Description	Beschreibung
AuthToken	an16..56	M	Unique token generated by merchant which is used to decrypt the payment request	Eindeutiges von Händler generiertes Token, dass zur Entschlüsselung der Zahlungsanfrage verwendet wird
AuthLabel	an32..64	M	Identifier for the <b>AuthToken</b> used to decrypt the payment request	Bezeichner für das verwendete <b>AuthToken</b> zur Entschlüsselung der Zahlungsanfrage
ExpiryDate	dtm	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.	Endzeitpunkt der Gültigkeit des Tokens. Die maximale Gültigkeitsdauer beträgt 24 Stunden. Wenn der Wert nicht angegeben ist, läuft das Token standardmäßig nach 15 Minuten ab.

Parameters for authentication request

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	Format	CND	Description
<a href="#">mid</a>	ans..30	M	MerchantID, assigned by Computop
<a href="#">Status</a>	a..50	M	OK ( <a href="#">URLSuccess</a> ) or FAILED ( <a href="#">URLFailure</a> )

<a href="#">Description</a>	ans..1024	M	Further details in the event that payment is rejected. Please <b>do not</b> use the <b>Description</b> but the <a href="#">Code</a> parameter for the transaction status analysis!
<a href="#">Code</a>	n8	M	Error code according to Paygate Response Codes ( <a href="#">A4 Error codes</a> )
ExpiryDate	dtm	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.

Key	Format	CND	Description	Beschreibung
<a href="#">Status</a>	a..50	M	OK ( <a href="#">URLSuccess</a> ) or FAILED ( <a href="#">URLFailure</a> )	OK ( <a href="#">URLSuccess</a> ) oder FAILED ( <a href="#">URLFailure</a> )

Key	Format	CND	Description	Beschreibung
<a href="#">Description</a>	ans..1024	M	Further details in the event that payment is rejected. Please <b>do not</b> use the <b>Description</b> but the <a href="#">Code</a> parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie <b>nicht</b> den Parameter <b>Description</b> , <b>sondern Code</b> für die Auswertung des Transaktionsstatus!

Key	Format	CND	Description	Beschreibung
<a href="#">Code</a>	n8	M	Error code according to Paygate Response Codes ( <a href="#">A4 Error codes</a> )	Fehlercode gemäß Paygate Antwort-Codes ( <a href="#">A4 Fehlercodes</a> )

Key	Format	CND	Description	Beschreibung
ExpiryDate	dtm	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.	Endzeitpunkt der Gültigkeit des Tokens. Die maximale Gültigkeitsdauer beträgt 24 Stunden. Wenn der Wert nicht angegeben ist, läuft das Token standardmäßig nach 15 Minuten ab.

Response parameters for authentication request