



# **Computop Mobile SDK Authentication**

Integration Guide

Version 6.2.2

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## Document history

Date	Name	Change
25.08.2017	Peter Posse	GitHub link added
01.06.2017	Peter Posse	Section Authentication process included
28.12.2016	Peter Posse	First version

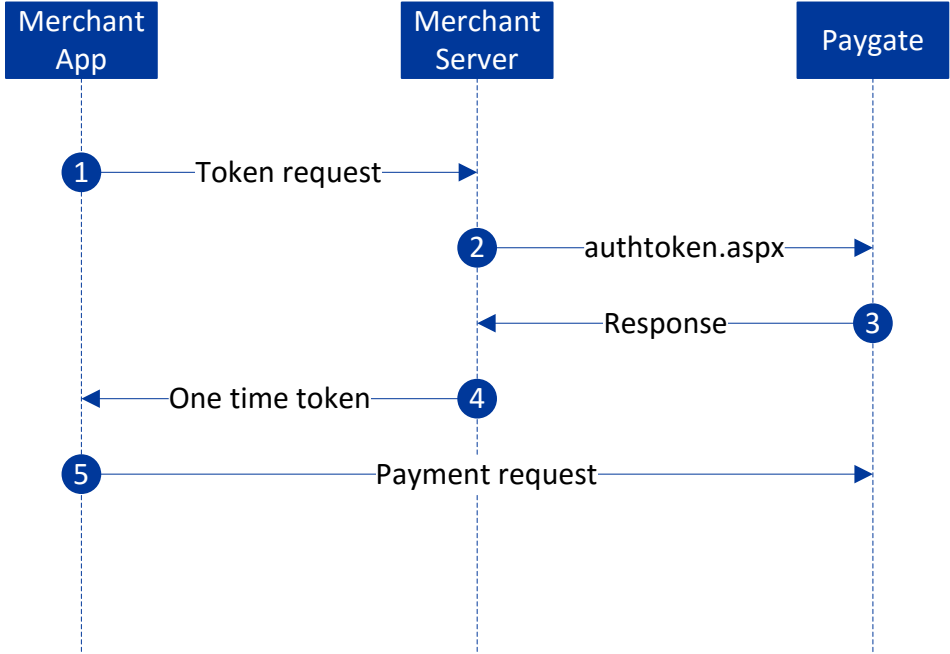
# ABOUT COMPUTOP MOBILE SDK AUTHENTICATION

## 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>.

### Process flow chart



Process flow Mobile SDK Authentication

# PAYGATE INTERFACE

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## 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-DDDhh:mm:ss)

Abbreviations:

Abbreviation	Description
CND	condition
M	mandatory
O	optional
C	conditional

## 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, 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:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
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.

Parameters for authentication request

The following table gives the parameters with which the Paygate responds:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	More detailed description of the values for Status and Code. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>ExpiryDate</b>	dtm	M	End time of token validity. Either default value or return of the value of request.

Response parameters for authentication request