**E-Commerce Integration to Flooz**



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| 1. **INTRODUCTION** |

This document presents the flow of the system and following the step by step procedure on how the integration is going to proceed.

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| 1. **PROCESS FLOW** |

This section will explain the flow of the application from the subscriber’s point of view.



1. The subscriber will access the website.

2. The subscriber will choose product to be added to the cart.

3. The subscriber will proceed to the steps for the payment.

4. The subscriber will select Flooz as a method of payment. Details such as mobile number that is registered to Flooz will be collected by the website.



You have a pending payment from merchant.com with the amount of 1500 FCFA. Please Flooz USSD to pay.

5. The subscriber will receive a confirmation message.

6. The subscriber will dial the USSD code for confirmation, enters their Flooz password.



You have paid an amount of 1500 FCFA to MERCHANT. Thank you for using Flooz.

7. The subscriber will receive a confirmation message and the merchant will also received a confirmation.

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| 1. **INTEGRATION** |

This section will focus on the technical side of the process. It also includes the services, method of communicating, request, response and other parameters for the integration to be successful.

3.1. Service Link

The service link provides the path for the web service that will receive payment request from the merchants. This web service is being filtered, only the allowed IP addresses can connect to this service. The client will need to provide the IP address that they will use to connect to this service.

<https://floozecommerce.moov.tg/OnlinePayment>

3.2. WSDL (Web Service Definition Language)

<wsdl:definitions xmlns:ns1="http://schemas.xmlsoap.org/soap/http" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://service.onlinepayment.tlc.com/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="OnlinePayment" targetNamespace="http://service.onlinepayment.tlc.com/">

<wsdl:types>

<xs:schema xmlns:tns="http://service.onlinepayment.tlc.com/" xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="unqualified" targetNamespace="http://service.onlinepayment.tlc.com/" version="1.0">

<xs:element name="SendPayment" type="tns:SendPayment"/>

<xs:element name="SendPaymentResponse" type="tns:SendPaymentResponse"/>

<xs:complexType name="SendPayment">

<xs:sequence>

<xs:element minOccurs="0" name="merchantName" type="xs:string"/>

<xs:element minOccurs="0" name="transactionCode" type="xs:string"/>

<xs:element minOccurs="0" name="destMobileNumber" type="xs:string"/>

<xs:element minOccurs="0" name="amount" type="xs:string"/>

<xs:element minOccurs="0" name="extraData" type="xs:string"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="SendPaymentResponse">

<xs:sequence>

<xs:element minOccurs="0" name="Receipt" type="tns:receipt"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="receipt">

<xs:sequence>

<xs:element minOccurs="0" name="referenceID" type="xs:string"/>

<xs:element name="status" type="xs:int"/>

<xs:element minOccurs="0" name="statusMessage" type="xs:string"/>

<xs:element minOccurs="0" name="subscriberMsisdn" type="xs:string"/>

</xs:sequence>

</xs:complexType>

</xs:schema>

</wsdl:types>

<wsdl:message name="SendPaymentResponse">

<wsdl:part element="tns:SendPaymentResponse" name="parameters"></wsdl:part>

</wsdl:message>

<wsdl:message name="SendPayment">

<wsdl:part element="tns:SendPayment" name="parameters"></wsdl:part>

</wsdl:message>

<wsdl:portType name="OnlinePaymentSoap">

<wsdl:operation name="SendPayment">

<wsdl:input message="tns:SendPayment" name="SendPayment"></wsdl:input>

<wsdl:output message="tns:SendPaymentResponse" name="SendPaymentResponse"></wsdl:output>

</wsdl:operation>

</wsdl:portType>

<wsdl:binding name="OnlinePaymentSoapBinding" type="tns:OnlinePaymentSoap">

<soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>

<wsdl:operation name="SendPayment">

<soap:operation soapAction="" style="document"/>

<wsdl:input name="SendPayment">

<soap:body use="literal"/>

</wsdl:input>

<wsdl:output name="SendPaymentResponse">

<soap:body use="literal"/>

</wsdl:output>

</wsdl:operation>

</wsdl:binding>

<wsdl:service name="OnlinePayment">

<wsdl:port binding="tns:OnlinePaymentSoapBinding" name="OnlinePaymentSoapPort">

<soap:address location="http://localhost:8098/OnlinePayment/OnlinePayment"/>

</wsdl:port>

</wsdl:service>

</wsdl:definitions>

3.3. SOAP Message Request

This request will sent to the service link provided above. The request is a SOAP based language.

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ser="http://service.onlinepayment.tlc.com/">

<soapenv:Header/>

<soapenv:Body>

<ser:SendPayment>

<!--Optional:-->

<merchantName>?</merchantName>

<!--Optional:-->

<transactionCode>?</transactionCode>

<!--Optional:-->

<destMobileNumber>?</destMobileNumber>

<!--Optional:-->

<amount>?</amount>

<!--Optional:-->

<extraData>?</extraData>

</ser:SendPayment>

</soapenv:Body>

</soapenv:Envelope>

Parameters:

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| --- | --- |
| Parameters | Description |
| merchantName | Nickname of the merchant that is registered on Flooz system. |
| transactionCode | A code that will identify the product selected on that specific transaction. |
| destMobileNumber | Mobile number of the subscriber doing the payment, must be a registered Flooz user. |
| extraData | Any extra details for the products or the transaction. |

3.4. SOAP Message Response

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

<soap:Body>

<ns2:SendPaymentResponse xmlns:ns2="http://service.onlinepayment.tlc.com/">

<Receipt>

<referenceID>?</referenceID>

<status>?</status>

<statusMessage>?</statusMessage>

<subscriberMsisdn>?</subscriberMsisdn>

</Receipt>

</ns2:SendPaymentResponse>

</soap:Body>

</soap:Envelope>

Parameters:

|  |  |
| --- | --- |
| Parameters | Description |
| referenceID | The transactionCode that is sent via request. |
| status | Status of the request. 0 if the request is successfully received.   |  |  | | --- | --- | | **Status** | **Description** | | 0 | Success | | 1 | Merchant not recognized | | 2 | Invalid amount | | 3 | Subscriber not registered | | 4 | Payment impossible | | 5 | Empty filed/s | | 6 | Product already registered | |
| statusMessage | Message for the status of the request. |
| subscriberMsisdn | The mobile number of the subscriber. |

3.5. Confirmation

After a successful transaction, the service will send an SMS message to the subscriber about the details of the payment. The subscriber will provide his Flooz PIN in order to complete the payment. The following request will be sent to the merchant’s service in order to confirm the payment made.

The request and response will be communicated through HTTP POST via XML-RPC. The service that the merchant will provide should be able to accept an HTTP POST request with XML-RPC as a language.

3.5.1. Confirmation Request

<?xml version="1.0" encoding="UTF-8"?>

<methodCall>

<methodName>sendPaymentDetails</methodName>

<params>

<param>

<value>

<struct>

<member>

<name>amount</name>

<value>

<i4>?</i4>

</value>

</member>

<member>

<name>paid</name>

<value>?</value>

</member>

<member>

<name>expired</name>

<value>?</value>

</member>

<member>

<name>paymentRefCode</name>

<value>?</value>

</member>

<member>

<name>referenceCode</name>

<value>?</value>

</member>

<member>

<name>msisdn</name>

<value>?</value>

</member>

</struct>

</value>

</param>

</params>

</methodCall>

Parameters:

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| --- | --- |
| Parameters | Description |
| amount | The amount of the transaction paid. |
| paid | Value is either true/false. If true the msisdn have done a payment. |
| expired | Value is either true/false. There is a condition if the product is expired or not. The confirmation will send an expired true parameter if the subscriber made another payment but still has pending payment. The mobile number can only hold one transaction at a time. It has a first-in-first-out logic. The last payment will be acknowledged and the pending before that will be sent as expired transaction. |
| paymentRefCode | This is the reference code given by the Flooz system to that transaction. |
| referenceCode | This is the product reference code sent by the merchant. |
| msisdn | The subscriber’s mobile number whose done the payment. |

3.5.2. Confirmation Response

This response will be coming from the merchant’s service link. It will be a notification that the confirmation request has been received.

<?xml version="1.0" encoding="UTF-8"?>

<methodResponse>

<params>

<param>

<value>

<struct>

<member>

<name>status</name>

<value>200</value>

</member>

<member>

<name>message</name>

<value>OK</value>

</member>

</struct>

</value>

</param>

</params>

</methodResponse>

Parameters:

|  |  |
| --- | --- |
| Parameters | Description |
| status | The status of the transaction. It will be a 200 if successfully received. Any other if there is an error. |
| message | The message corresponding to the status. |

3.6. Merchant’s Details

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| --- | --- |
| Merchant’s Nickname: |  |
| Merchant’s MSISDN: |  |
| Service Link: |  |
| Website’s Name: |  |
| IP Adresses: |  |

**Contact Person @ Atlantique Telecom Togo (MOOV):**

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