Developer Guide

For

Multi-Vendor

API INTEGRATION

Contents

Payment Gateway Service:

Bookeey Provides/facilitates Payment Gateway (PG) Services to the merchants/agents those are in E-commerce business sector. Bookeey provides API (Application Programming Interface) and plugins for various popular E-Commerce web site development tools such as Woocommerce, Magento, opencart, etc. The Merchant can use the API or Plugin to integrate their E-Commerce application or Website with the Bookeey payment gateway to provide online payment service to their customers.

The steps are described below to use Bookeey PG Services.

1) **Merchant Registration:**

The Market Place Service Provider/Agency/Holding company is called Bookeey Merchant. To become the Bookeey Merchant, the merchant has to provide the details of the company. Currently, This registration process is manual, so the Bookeey Customer Care will coordinate with the merchant to complete this process. After successful Completion of the registration, Bookeey will provide unique Merchant Identification (Mid) to the Merchant. The Mid will be used for further references.

Example: Mid – mer2000020

2) **Sub Merchant Registration:**

The Trader/Seller who is using Bookeey Merchant's Services is called Bookeey Sub Merchant. Bookeey provides API for Sub Merchant Registration. The following details should be sent in Sub Merchant Registration API call.

1. **Merchant Details**

   1.1 Merchant MID

2. **Sub Merchant Details**

   2.1 SubMerchant Name

   2.2 Branch ID

   2.3 POS ID

3. **Sub Merchant Contact Details**

   3.1 Person Name

   3.2 Mobile

3.3 Email ID

3.4 Job Designation

4. **Bank Details**

The Bank Details required for settlement.

4.1 Bank – The bank name in which the SubMerchant wants to transfer the fund

4.2 Account Number – Bank Account Number

4.3 IBAN Number

4.4 Swift Code

4.5 **Payment Methods**

Bookeey provides various payment methods to the Payers for the payment

1. Bookeey Wallet

2. Knet

3. Visa & Master Credit Card

4. American Express

4.6 **Transaction Processing Charges**

Bookeey collects the nominal transaction charges for its operations. The transaction charge varies to payment method and Charge calculation methods which would be either Fixed or Percentage or both.

a. Fixed value – Fixed Value means, the transaction charge is Fixed Amount. Example KD 1.000

b. Percentage value – Percentage value means the transaction charge is calculated on percentage basis. For Example, Let say the transaction charge is 1% and the transaction amount is KD 100.000. The transaction chare is 100*1% = KD1.000

c. Islower – this is Boolean value and is set to True or False. The default value is false. When transaction charge is set as both Fixed and Percentage, then the percentage calculated value will be compared with fixed value. If the parameter Islower is true, the lowest value will be the transaction charge, else the higher value will be the transaction charge.

Example:

The Transaction Amount is KD 100.000,

The Transaction Charge set as 2% and Fixed value is KD 1.500

The Islower =True

The Transaction Charge=100*2% = KD 2.000

When the parameter Islower= True, the fixed value KD 1.500 is lower than KD 2.000. So Transaction Charge is KD 1.500.

When the parameter Islower=false (Default), the highest value which is KD 2.000 is as transaction charge.

4.7 **Revenue Sharing**

The total transaction charge is shared between Bookeey and the Bookeey Merchant and is agreed before doing the Sub Merchant Registration. The Bookeey revenue sharing value and method is set during Sub Merchant Registration. The Bookeey revenue sharing value would be either Fixed or Percentage or Both. The Revenue sharing calculation is done as

Bookeey Share = Total Transaction Charge-Bookeey Sharing Calculated Value

Merchant Share = Total Transaction Charge - Bookeey Share

Example:

Total Transaction Charge = KD 0.500

Bookeey Share = Fixed Value KD 0.250 and Percentage = 1%

Islower= False

Bookeey Share = KD 0.250 + 0.005 (1% of 0.500)

         = KD 0.255

Merchant Share = KD 0.500 − 0.255

         = KD 0.245

Revenue Sharing

Note:

1. The Total Transaction Charge will be deducted from the Sub Merchant Transaction Amount

2. The Sub Merchant Transaction Amount will be always more than Bookeey share value. If the Transaction Amount is less than the Bookeey Share, the transaction will be rejected.

6. API Details for Sub Merchant Registration

Bookeey provides Demo environment and Production environment to the Merchant for development and Integration.

Demo Environment:

The Merchant can test the Sub Merchant Registration in Demo environment. The URL for the demo testing is

Sandbox URL: https://demo.bookeey.com/portal/bookeey/MerchantRegistration

Production Environment:

After Successful completion of the tests in the Demo environment, the Merchant can start doing the Sub Merchant Registration in Production environment.

Production Url: https://www.bookeey.com/portal/bookeey/MerchantRegistration

Description:

Field Name	Field Description	Data Type	Required Fields
Mid	Merchant Id	String	yes
merchantName	Sub Merchant Name	String	yes
emailAddress	Sub Merchant Email Address	String	yes
phoneAddress	Sub Merchant Phone Address	String	yes
Address	Sub Merchant Address	String	optional

ISDNCode	Country code	String	yes
merchantIBanNo	Sub Merchant IBAN Account No	String	yes
accountTitleName	Sub Merchant Bank Account Name	String	yes
swiftCode	Account Swift Code	String	Yes
paymentType	Type of payment It should be knet or Bookeey or amex or credit		
TransactionFees	Transaction Charge	String	Yes
From	Transaction Commission start value	BigDecimal	Yes
To	Transaction Commission end value	BigDecimal	Yes
Fixed	Commission if its fixed	BigDecimal	Yes
Percentage	Commission if its percentage	BigDecimal	Yes
IsLower	If it true calculate the commission will take lower value. If it false calculate the commission will take higher value	Boolean	Yes
RevShfixed	Commission if its fixed	BigDecimal	Yes
RevShpercentage	Commission if its percentage	BigDecimal	Yes
RevShisLower	If it true calculate the commission will take lower value. If it false calculate the commission will take higher value	Boolean	Yes
hashMac	Based on Bookeey	String	Yes

	Sequence you have to generate and send the Data in Request		

Sample Request Data:

{"mid":"mer200007","hashMac":" 33e09de727b852636c0cea5a8d630e7ce6a5a09b52e90a0c8931bfacf0c82d353fb674c98faef74a890c82830f cd41c08f4f4f22a9214a0a6cbc63d870fead91 ","merchantName":"teshgfghfgfht","emailAddress":"tech@bookeey.com","phoneAddress":69972625,"a ddress":"kjhjhjh","ISDNCode":"+91","merchantIBanNo":"KW2424324","accountTitleName":"Merchant bank account holder name","swiftCode":"GULBKWKWXXX","TransactionFees":[{"paymentType":"knet","from":0,"to":50,"fixe d":1,"percentage":1,"isLower":false,"revShfixed":1,"revShpercentage":1,"revShisLower":false},{"paymen tType":"CreditCard","from":0,"to":50,"fixed":1,"percentage":1,"isLower":false,"revShfixed":1,"revShperc entage":1,"revShisLower":false},{"paymentType":"AmexCard","from":0,"to":50,"fixed":1,"percentage":1, "isLower":false,"revShfixed":1,"revShpercentage":1,"revShisLower":false},{"paymentType":"Bookeey","f rom":0,"to":50,"fixed":1,"percentage":1,"isLower":false,"revShfixed":1,"revShpercentage":1,"revShisLow er":false}]}

3. **Payers**:

   Company/Person pays for the purchases or services provided by the Merchant/Sub Merchant is called payer. The Payers can download Bookeey Mobile APP or by clicking Payment URL Link which sent by Bookeey via SMS. Bookeey provides multiple payment methods to the payer such as Bookeey wallet, Debit Cards and Credit Cards and payer can choose from the options.

4. **Sending Invoices**

   Bookeey provides API/Portal/Plugin to Merchants/Sub Merchant for sending invoices to its customers. The Invoice is sent to the Customer/Payer as SMS URL Link to the payers not using Bookeey mobile app or Push Notification to the payers using Bookeey Mobile APP. The following details are required for sending Merchant/submerchant Invoices

   4.1 Merchant/Submerchant Details:

   a. Merchant MID or Submerchnat ID

   b. Merchant/submerchant Authorization Code

   4.2 Payer Details:

   a. Payers Name

   b. Mobile No

      c.   Email ID

      d.   Save to Contact

4.3 Invoice Details:

      a.   Merchant/submerchant Transaction Ref. Number

      b.   Invoice Date and Time

      c.   User Name

      d.   Invoice Expiry

      e.   Invoice Amount

      f.   Currency – Default value is KWD

      g.   Invoice Image (Optional)

      h.   Reoccurrence (Optional)

      i.   Schedule for Reoccurrence (Optional)

4.4 Payment Method Details: (Optional)

      a.   Payment Method – Bookeey Wallet, KNET, Visa, Master and American Express (default is ALL)

5. API Details for Sending Invoice

Bookeey provides Demo environment and Production environment for the Merchant development and Integration.

Demo Environment:

The Merchant can test the Sub Merchant Registration in Demo environment. The URL for the demo testing is

Sandbox URL: https://demo.bookeey.com/portal/Invoice

Production Environment:

After Successful completion of the tests in the Demo environment, the Merchant can start doing the Sub Merchant Registration in Production environment.

Production Url: https://www.bookeey.com/portal/Invoice

6. Payment Processing:

The Payment Process is being initiated by the Payers by using Bookeey Mobile APP or Clicking URL sent by SMS. The Register Merchant/Sub Merchant can use the Bookeey Mobile App or SMS URL Link for the payment. The following Details have to be provided

1. Merchant MID

2. Sub Merchant SMID

3. Bookeey Transaction Ref. Number

4. Merchant Transaction Ref. No

5. Transaction Amount

6. Currency Code – Default Value KWD

7. Payment Method

   - If the payment method is BookeeyWallet

   Payer will be redirected to Bookeey page where the Payer has to enter BookeeyWallet credentials.

   - If the payment method is KNET

   The KNET page will be redirected and the Payer has to enter Payment Card and other details required by Knet .

   - If the payment Method is Credit Card (Visa, Master, and AMEX)

   The Web Page will be displayed for entering the credit card details

API Details for Payment Processing

Bookeey provides Demo environment and Production environment for the Merchant development and Integration.

Demo Environment:

The Merchant can test the Payment Processing in Demo environment. The URL for the demo testing is

Sandbox URL: https://demo.bookeey.com/portal/PayProcess

Production Environment:

After Successful completion of the tests in the Demo environment, the Payers can start doing the Payment Process in Production environment.

Production Url: https://www.bookeey.com/portal/PayProcess

Field Name	Field Description	Data Type	Required
mid	Merchant Id	String	yes
txnTime	Transaction Time in long format date and time	String	yes
txnRefNo	Transaction Ref No	String	Yes
surl	Success URL	String	Yes
furl	Failure URL	String	Yes
paymentOptions	Which payment method customer will choose	String	Yes
hashMac	Bookeey Provide you sequence you have to generate dynamically	String	Yes
Payment Details	Paymement Details Array		
subMerchantId	Sub Merchant Id	String	Yes
amount	Transaction amount	String	yes

Sample Request Data:

{"mid":"mer200007","hashMac":"jkjhjhkj","txnTime":123455,"txnRefNo":"9878787897","amount":20,"surl":"https://www.bookeey.com/success","furl":"https://www.bookeey.com/failure","paymentOptions":"knet","PaymentDetails":[{"subMerchantId":"subm2000013","amount":100},{"subMerchantId":"subm2000014","amount":100}]}

7. Transaction Reconciliation:

Bookeey provides API for Transaction Reconciliation Process. This API has to be called by Merchant application to get the transaction status detail. This API is useful when the payment process API does not respond due to some reasons like internet disconnection, Payment Gateway Servers not responded or Time Out Occurred.

The following Details Required

1. Bookey Transaction Ref. Number

Standards for API Call

1. API Method : POST

2. Header Values

   Content : Application/JSON

   X-API-KEY : This Key must be generated by using SHA512 algorithm and SALT value will be provided by Bookeey.

3. Body Value will be in JSON format

Procedure for X-API-KEY Generation

Hash Mac is the Security Key for Both Merchant and Bookeey Hand Shaking Requests.

a) Sub Merchant Registration Hash mac generation:

   The Hash Mac parameter is required to be posted to the Bookeey server while making a transaction request. The post parameters present in the request are input to the generation of this data.

   Digest Algorithm = SHA – 512

   Secret Key = (To be provided by Bookeey)

   crossCat = "GEN"

   sequence = {<mid>|< email |< phone >|<crossCat>|<secret_key>}

   example = `mer200007|tech@bookeey.com|69972625|GEN|1441592`

   Hash Mac = COMPUTER SHA-512 OVER {Data to be digested} →Result 128 bit data

   Note:

   - The sequence of data in "Data to be digested" should not be altered.
   - If an element in the post data is not present in the request, set the value as empty string.
   - The secret key is string data which will be provided by Bookeey against each MID
   - The '|' is also the part of the string over which digest is calculated

b) Merchant Payment Hash mac generation:

   The Hash Mac parameter is required to be posted to the Bookeey server while making a transaction request. The post parameters present in the request are input to the generation of this data.

Digest Algorithm = SHA – 512

Secret Key = (To be provided by Bookeey)

crossCat = "GEN"

sequence = {<mid>|<txnRefNo>|<su>|<fu>|<amt>|<txnTime>|<crossCat>|<secret_key>}

example:
mer200007|12343|http://www.bookeey.com/success|http://www.bookeey.com/failure|10|123
4559|GEN|1441592

Hash Mac = COMPUTER SHA-512 OVER {Data to be digested} →Result 128 bit data

Note:

- The sequence of data in "Data to be digested" should not be altered.
- If an element in the post data is not present in the request, set the value as empty string.
- The secret key is string data which will be provided by Bookeey against each MID
- The '|' is also the part of the string over which digest is calculated