



EPS Merchant API Integration Guide

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EASY PAYMENT SYSTEM

API Information (Application)

Mechanism for Hash:

Step 1: Encode **Hash Key** using UTF8.

Step 2: Create **HMACSHA512** using encoded data.

Step 3: Compute Hash using created **hmac** and **UserID or Other Key**

Step 4: Return **Base64** string of Hash

Transaction Type ID:

TransectionTypeId	TransectionType
1	Web
2	Android Devices
3	IOS Devices

API No. 01

Name: EPS Payment Gateway GetToken

HTTP Method: POST

Request Parameters:

Parameter Id	Parameter Name	Mandatory/Optional
1	userName	M
2	password	M

Parameter for Hash Creation:

Parameter Id	Parameter Name
1	userName

API Endpoint:

<https://pgapi.eps.com.bd/v1/Auth/GetToken>

Header:

Parameter in header:

Parameter Id	Parameter Name
1	x-hash

Here using 'username' and Hash Key: SFNLQHJIY2lwZXdhbGEjYTc3Zi1mOTQ5NWZhY2M2ZTZuZXQ=

We make a x-hash and pass in the header section

Here x-hashkey is

BKXUD5z0NQgPDQMcZuPL2dSUwo5oSdvBpzz2xbkxikB7KfYV0kZIF8sW6udvSqOTZNUJ5VHnMTSJP3oxDA
BpJQ==

Parameter Id	Parameter Name	Mandatory/Optional	Default Value	Remarks
1	merchantId	M	String	Ex: 094980ee-XXX-XXX-XXX //Your Merchant ID
2	storeId	M	String	Ex: 35b518f6-XXXX-XXXX //Your Store ID
3	CustomerOrderId	M	Unique string	Ex: Order123 // Every Time Unique
4	merchantTransactonId	M	Unique Minimum 10 Digit string	Ex: 20240956354 // Unique ID assigned for every single transition.
5	TransactionTypeId	M	int	1 = Web 2 = Android Devices 3 = IOS Devices
6	totalAmount	M	Decimal	
7	successUrl	M	String	
8	failUrl	M	String	
9	cancelUrl	M	String	
10	customerName	M	String	

11	customerEmail	M	String	
12	customerAddress	M	String	
13	customerAddress2	O	String	
14	customerCity	M	String	
15	customerState	M	String	
16	customerPostcode	M	String	
17	customerCountry	M	String	
18	customerPhone	M	String	
19	shipmentName	O	String	
20	shipmentAddress	O	String	
21	shipmentAddress2	O	String	
22	shipmentCity	O	String	
23	shipmentState	O	String	
24	shipmentPostcode	O	String	
25	shipmentCountry	O	String	
26	valueA	O	String	
27	valueB	O	String	
28	valueC	O	String	
29	valueD	O	String	
30	shippingMethod	O	String	
31	noOfItem	O	String	
32	productName	M	String	
33	productProfile	O	String	
34	productCategory	O	String	

Parameter for Hash Creation:

Parameter Id	Parameter Name
1	merchantTransactonId

API Endpoint:

<https://pgapi.eps.com.bd/v1/EPSEngine/InitializeEPS>

Header:

Parameter in header:

Parameter Id	Parameter Name
1	x-hash
2	Authorization (Bearer token from 1st API)

Here x-hash is generated with transactionId and key that is provided

Authorization (Bearer token from 1st API)

Additional instruction:

1. merchantTransactonId should be unique for every transaction.
2. API consumers need to provide successUrl, failUrl, cancelUrl to get return data in query string of the url and have to process further using those data.

Body:

```
{
  "storeId": "your store id",
  "CustomerOrderId": "orderNo12234" //unique every time
  "merchantTransactionId": "20240624120615835",//unique every time
  "transactionTypeId": 10,
  "financialEntityId": 0,
  "transitionStatusId": 0,
  "totalAmount": 1,
  "ipAddress": "103.12.45.69",
  "version": "1",
  "successUrl": "https://www.eps.com.bd/",
  "failUrl": "https://www.eps.com.bd/",
  "cancelUrl": "https://www.eps.com.bd/",
  "customerName": "Shariful Islam",
  "customerEmail": "example@gmail.com",
  "CustomerAddress": "Uttara, Dhaka-1230",
  "CustomerAddress2": "Uttara, Khulna-123011",
  "CustomerCity": "Khulna",
  "CustomerState": "Khulna",
  "CustomerPostcode": "12301",
  "CustomerCountry": "BD",
  "CustomerPhone": "01912610899",
  "ShipmentName": "ABC",
  "ShipmentAddress": "Address",
  "ShipmentAddress2": "Address",
  "ShipmentCity": "City Nam",
  "ShipmentState": "State Nam",
  "ShipmentPostcode": "1230",
  "ShipmentCountry": "BD",
  "ValueA": "",
  "ValueB": "",
  "ValueC": ""
}
```

```
"ValueD": "",
"ShippingMethod": "NO",
"NoOfItem": "1",
"ProductName": "candy",
"ProductProfile": "general",
"ProductCategory": "Demo",
"ProductList":
[
{
  "ProductName": "Product name 1",
  "NoOfItem": "2",
  "ProductProfile": "ProductProfile 1",
  "ProductCategory": "Product Image URI",
  "ProductPrice": "105"
},
{
  "ProductName": "Product name 2",
  "NoOfItem": "7",
  "ProductProfile": "Product Image URI",
  "ProductCategory": "ProductCategory 2",
  "ProductPrice": "210"
}
]
```

Response:

```
{
  "TransactionId": "23e02880-f378-4594-86f8-30ecb5998094",
  "RedirectURL": "https://pg.eps.com.bd/PG?data=23e02880-f378-4594-86f8- 30ecb5998094",
  "ErrorMessage": "",
  "ErrorCode": null,
  "FinancialEntityList": null
}
```

Name: Verify Transaction

HTTP Method: GET

Parameter for Hash Creation:

Parameter Id	Parameter Name
1	merchantTransactionId

OR

Parameter for Hash Creation:

Parameter Id	Parameter Name
1	EPSTransactionId

API Endpoint:

<https://pgapi.eps.com.bd/v1/EPSEngine/CheckMerchantTransactionStatus?merchantTransactionId=202406241206158&EPSTransactionId=C254919040105F>

Note: When using merchantTransactionId to get details, use merchantTransactionId for the hash,
OR use EPSTransactionId

Header:

Parameter in header:

Parameter Id	Parameter Name
1	x-hash
2	Authorization (Bearer token from 1st API)

X-hash generated using HashKey And merchantTransactionId

Body:

Response:

```
{
  "MerchantTransactionId": "20240624120615835",
  "EpsTransactionId": "C2549190401",
  "Status": "Success",
  "TotalAmount": "1.00",
  "TransactionDate": "24 Jun 2024 06:06:19 PM",
  "TransactionType": "Purchase",
  "FinancialEntity": "OKWallet",
  "ErrorCode": "",
  "ErrorMessage": "",
  "CustomerId": "3245",
  "CustomerName": "Shariful Islam",
  "CustomerEmail": "example@gmail.com",
  "CustomerAddress": "Uttara, Dhaka-1230",
  "CustomerAddress2": "Uttara, Khulna-123011",
  "CustomerCity": "Khulna",
  "CustomerState": "Khulna",
  "CustomerPostcode": "12301",
```



```
"CustomerCountry": "BD",  
"CustomerPhone": "01912610899",  
"ShipmentName": "ABC",  
"ShipmentAddress": "Address",  
"ShipmentAddress2": "Address",  
"ShipmentCity": "City Nam",  
"ShipmentState": "State Nam",  
"ShipmentPostcode": "1230",  
"ShipmentCountry": "BD",  
"ValueA": "",  
"ValueB": "",  
"ValueC": "",  
"ValueD": "",  
"ShippingMethod": "NO",  
"NoOfItem": "1",  
"ProductName": "candy",  
"ProductProfile": "general",  
"ProductCategory": "Demo",  
"PaymentReferance": "Education Fee"  
}
```