



## **REST APIs without RSA Encryption Integration Guide**

## REST APIs

### Purpose

Easypaisa Online Payments Gateway provides the capability for B2B integrations by exposing core services to external partners. This enables external partners to reuse their existing interfaces in order to integrate with Easypaisa. There will be no re-direction to Easypaisa checkout page and external partner's system will directly invoke Easypaisa APIs for initiating and inquiring the transaction.

Following three APIs are available:

- 1 Initiate OTC Transaction
- 2 Initiate MA Transaction
- 3 Inquire Transaction Status

The communication protocol supported is REST over HTTPs. External Systems should have the capability to perform SSL based communication with the Easypaisa Load Balancer.

### 1- Initiate OTC Transaction

The Initiate OTC Transaction method is used to create OTC transactions in OPS

#### Request URL:

#### Staging:

<https://easypaystg.easypaisa.com.pk/easypay-service/rest/v4/initiate-otc-transaction>

#### Request Header:

| Header key  | Header value      | Description  |
|-------------|-------------------|--|
| Credentials | Base64Encoded     | Partner Account username & Password for authentication. They will be provided by Easypaisa team and the merchant will have to encode them to Base64 before including them in the request |
|             | username:password |  |

## Request Parameters:

| Field Name        | Description  | Mandatory (M) / Optional (O) | Data Type |
|-------------------|--|------------------------------|-----------|
| orderId           | Merchant's system generated Order ID   | M                            | String    |
| storeId           | Store ID<br>It should be the same id which is associated with partner Account credentials sent in the Header | M                            | Long      |
| transactionAmount | Total transaction amount   | M                            | Double    |
| transactionType   | Type of transaction.<br>Value : OTC  | M                            | String    |

|              |   |   |        |
|--------------|---|---|--------|
| Msisdn       | Format:<br>03xxxxxxxx (11 - digits)                   | M | String |
| emailAddress | Format : <a href="mailto:abc@xyz.com">abc@xyz.com</a> | M | String |
| tokenExpiry  | Format : yyyyMMdd HHmmss                              | M | String |
| optional1    |   | O | String |
| optional2    |   | O | String |
| optional3    |   | O | String |
| optional4    |   | O | String |
| optional5    |   | O | String |

## Response Parameters:

| Field Name                 | Description  | Data Type |
|----------------------------|--|-----------|
| orderId                    | Merchant's system generated Order ID   | String    |
| storeId                    | Store ID generated during merchant registration in Easypaisa                                     | Long      |
| paymentToken               | Token generated in case of OTC   | String    |
| transactionDateTime        | Format : dd/MM/yyyy hh:mm a  | String    |
| paymentTokenExpiryDateTime | Format : dd/MM/yyyy hh:mm a  | String    |
| optional1                  |  | String    |
| optional2                  |  | String    |
| optional3                  |  | String    |
| optional4                  |  | String    |
| optional5                  |  | String    |
| responseCode               | Easypaisa generated response   | String    |
| responseDesc               | Possible values are :<br><br>Code : Description<br><br>0000 = SUCCESS<br><br>0001 = SYSTEM ERROR | String    |

|      |                                     |
|------|-------------------------------------|
| 0002 | = REQUIRED FIELD MISSING            |
| 0005 | = MERCHANT ACCOUNT NOT ACTIVE       |
| 0006 | = INVALID STORE ID                  |
| 0007 | = STORE NOT ACTIVE                  |
| 0008 | = PAYMENT METHOD NOT ENABLED        |
| 0010 | = INVALID CREDENTIALS               |
| 0015 | = INVALID_TOKEN_EXPIRY              |
| 0016 | = Expiry date should be future date |

### Sample Request:

```
{
  "orderId": "abc123",
  "storeId": "43",
  "transactionAmount": "1.23",

  "transactionType": "OTC",
  "msisdn": "03458508726",
  "emailAddress": "testEmail@gmail.com",
  "tokenExpiry": "20190723 232722"
}
```

### Sample Response:

```
{
  "orderId": "abc123",
  "storeId": 43,
  "paymentToken": "40933012",
  "transactionDateTime": "11/08/2018 10:41 PM",
  "paymentTokenExpiryDateTime": "23/07/2019 11:27 PM",
  "responseCode": "0000",
  "responseDesc": "SUCCESS"
}
```

## 2. Initiate MA Transaction

The Initiate MA Transaction method is used to create MA transactions in OPS

### Request URL:

### Staging:

<https://easypaystg.easypaisa.com.pk/easypay-service/rest/v4/initiate-ma-transaction>

### Request Header:

| Header key  | Header value      | Description   |
|-------------|-------------------|---|
| Credentials | Base64Encoded     | Partner Account username & Password, for authentication. They will be provided by Easypaisa team and the merchant will have to encode them to Base64 before including them in the request |
|             | username:password |   |

## Request Parameters:

| Field Name        | Description  | Mandatory (M) / Optional (O) | Data Type |
|-------------------|--|------------------------------|-----------|
| orderId           | Merchant's system generated Order ID   | M                            | String    |
| storeId           | Store ID<br>It should be the same id which is associated with partner Account credentials sent in the header | M                            | Long      |
| transactionAmount | Total transaction amount   | M                            |           |
| transactionType   | Value : MA   | M                            | String    |

|                 |                                     |   |        |
|-----------------|-------------------------------------|---|--------|
| mobileAccountNo | Format:<br>03xxxxxxxx (11 - digits) | M |        |
| emailAddress    | Format : abc@xyz.com                | M | String |
| optional1       |                                     | O | String |
| optional2       |                                     | O | String |
| optional3       |                                     | O | String |
| optional4       |                                     | O | String |
| optional5       |                                     | O | String |

## Response Parameters:

| Field Name          | Description   | Data Type |
|---------------------|---|-----------|
| orderId             | Merchant's system generated Order ID  | String    |
| storeId             | Store ID generated during merchant registration in Easypaisa  | Long      |
| transactionId       | Transaction ID of Ericsson (EWP ID)   | String    |
| transactionDateTime | Format : dd/MM/yyyy hh:mm a   | String    |
| optional1           |   | String    |
| optional2           |   | String    |
| optional3           |   | String    |
| optional4           |   | String    |
| optional5           |   | String    |
| responseCode        | Easypaisa generated response  | String    |
| responseDesc        | Possible values are :<br><br>Code : Description<br><br>0000 = SUCCESS<br>0001 = SYSTEM ERROR<br>0002 = REQUIRED FIELD MISSING<br>0005 = MERCHANT ACCOUNT NOT ACTIVE<br>0006 = INVALID STORE ID<br>0007 = STORE NOT ACTIVE<br>0008 = PAYMENT METHOD NOT ENABLED<br>0010 = INVALID CREDENTIALS<br>0013 = LOW BALANCE<br>0014 = ACCOUNT DOES NOT EXIST | String    |

## Sample Request:

```
{
  "orderId": "abc123",
  "storeId": "43",
  "transactionAmount": "1.23",
  "transactionType": "MA",
  "mobileAccountNo": "03458508726",
  "emailAddress": "testEnmail@gmail.com"
}
```

### Sample Response:

```
{
  "orderId": "abc123",
  "storeId": 43,
  "transactionId": "253184",
  "transactionDateTime": "11/08/2018 11:30 PM",
  "responseCode": "0000",
  "responseDesc": "SUCCESS"
}
```

## 3. Inquire Transaction Status

The Inquire Transaction Status API is used to inquire transaction information of the referenced transaction.

### Request URL:

### Staging:

<https://easypaystg.easypaisa.com.pk/easypay-service/rest/v4/inquire-transaction>

### Request Header:

| Header key  | Header value                           | Description  |
|-------------|--|--|
| Credentials | Base64Encoded<br><br>username:password | Partner Account username & Password for authentication. They will be provided by Easypaisa team and the merchant will have to encode them to Base64 before including them in the request |



## Request Parameters:

| Field Name | Description  | Mandatory (M) /<br>Optional (O) | Data Type |
|------------|--|---------------------------------|-----------|
| orderId    | Merchant's system generated Order ID as stored in OPS at the time of transaction initiation                | M                               | String    |
| storeId    | Store ID .It should be the same id which is associated with partner Account credentials sent in the header | M                               | Long      |
| accountNum | Merchant's EWP Account Number present at Profile Page of Easypaisa Merchant portal <b>"EWP Account # "</b> | M                               | String    |

## Response Parameters:

| Field Name                 | Description   | Data Type |
|----------------------------|---|-----------|
| orderId                    | Merchant's system generated Order ID  | String    |
| accountNum                 | Merchant's EWP Account Number   | String    |
| storeId                    | Store ID generated during merchant registration in Easypaisa  | Long      |
| storeName                  | Store Name  | String    |
| paymentToken               | Token generated in case of OTC  | String    |
| transactionStatus          | Transaction status<br>Possible values are :<br>PAID, FAILED, PENDING, BLOCKED ,<br>EXPIRED , REVERSED etc.  | String    |
| transactionAmount          | Total transaction amount  | Double    |
| transactionDateTime        | Format : dd/MM/yyyy hh:mm a   | String    |
| paymentTokenExpiryDateTime | Only for OTC<br>Format : dd/MM/yyyy hh:mm a   | String    |
| Msisdn                     | Customer MSISDN   | String    |
| paymentMode                | Type of transaction .<br>Value : MA , OTC , CC  | String    |
| optional1                  |   | String    |
| optional2                  |   | String    |
| optional3                  |   | String    |
| optional4                  |   | String    |
| optional5                  |   | String    |
| responseCode               | Easypaisa generated response  | String    |
| responseDesc               | Possible values are :<br><br>Code : Description<br><br>0000 = SUCCESS<br>0001 = SYSTEM ERROR<br>0002 = REQUIRED FIELD MISSING<br>0003 = INVALID ORDER ID<br>0004 = INVALID MERCHANT ACCOUNT<br>NUMBER<br>0005 = MERCHANT ACCOUNT NOT ACTIVE<br>0006 = INVALID STORE ID<br>0007 = STORE NOT ACTIVE<br>0010 = INVALID CREDENTIALS | String    |

## Sample Request:

```
{  
  "orderId" : "MS5007",  
  "storeId" : "43",  
  "accountNum" : "654123987"  
}
```

## Sample Response

```
{  
  "orderId": "MS5007",  
  "accountNum" : "654123987",  
  "storeId" : 43,  
  "storeName" : "PG Store 1",  
  "paymentToken" : "40931912",  
  "transactionStatus" : "PENDING",  
  "transactionAmount" : 12,  
  "transactionDateTime" : "09/08/2018 10:04 PM",  
  "paymentTokenExpiryDateTime" : "09/07/2019 05:06 PM",  
  "msisdn" : "03458508726",  
  "paymentMode" : "OTC",  
  "responseCode " : "0000",  
  "responseDesc" : "SUCCESS"  
}
```

---

## 4. Possible Reasons of API Response

### Required Field Missing

Any Mandatory field is missing.

Incorrect email format in initiate MA or OTC requests.

Incorrect MSISDN format in initiate OTC request.

Incorrect mobile Account No format in initiate MA request.

Transaction amount is sent less than or equal to Zero in the initiate MA or OTC requests.

## 5. Optional Parameters

These parameters are present in the requests and responses of all three APIs mentioned above and are optional in each case.

If these attributes are provided in the request, then OPS will save the values of these parameters in OPS database against the transaction and return them in the response.

These parameters are available for selection in the 'IPN Attribute Configurations' screen in the Account Settings tab of the Merchant Portal.

If selected, these optional parameters will also be sent in the merchants' IPN to the configured URL.