



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. The token is 13 digit long. The settlement is done at T+1.

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 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. Value : OTC	M	String

Msisdn	Format: 03xxxxxxxx (11 - digits)	M	String
emailAddress	Format : abc@xyz.com	M	String
tokenExpiry	Format : yyyyymmdd 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		
storeId	Store ID generated during merchant registration in Easypaisa	Long
paymentToken		
transactionDateTime	Format : dd/MM/yyyy hh:mm a	String
paymentTokenExpiryDateTime		
optional1		String
optional2		
optional3		String
optional4		
optional5		String
responseCode		
responseDesc		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 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: 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 : Code : Description 0000 = SUCCESS 0001 = SYSTEM ERROR 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 0013 = LOW BALANCE 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 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) / 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 " EWP Account # "	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 Possible values are : PAID, FAILED, PENDING, BLOCKED , EXPIRED , REVERSED etc.	String
transactionAmount	Total transaction amount	Double
transactionDateTime	Format : dd/MM/yyyy hh:mm a	String
paymentTokenExpiryDateTime	Only for OTC Format : dd/MM/yyyy hh:mm a	String
Msisdn	Customer MSISDN	String
paymentMode	Type of transaction . Value : MA , OTC , CC	String
optional1		String
optional2		String
optional3		String
optional4		String
optional5		String
responseCode	Easypaisa generated response	String
responseDesc	Possible values are : Code : Description 0000 = SUCCESS 0001 = SYSTEM ERROR 0002 = REQUIRED FIELD MISSING 0003 = INVALID ORDER ID 0004 = INVALID MERCHANT ACCOUNT NUMBER 0005 = MERCHANT ACCOUNT NOT ACTIVE 0006 = INVALID STORE ID 0007 = STORE NOT ACTIVE 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.