EcoCash

ECOCASH ONLINE PAYMENTS

[SPECIFICATION DOCUMENT]

[Version: 5]
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1.0 Introduction

The Pay-Online API allows third parties to integrate and charge Ecocash subscribers for services provided. The API allows you to do the following:

1. *Charge a subscriber for a Merchant Payment*
2. *Refund a subscriber*
3. *Query a transaction*

NB: The API does not allow for automatic reversals. Any reversals are managed through the Ecocash call center. Subscriber information is also not accessible through the API.

2.0 Authentication

HTTP Basic Authentication is used for every request. A username and password will be provided.

3.0 Replay Prevention

Each POST to the API has a unique **clientCorrelator** which is used to differentiate requests. This field should be UNIQUE for any transaction. A **ServiceError** will be returned if a duplicate **clientCorrelator** is POSTed.

4.0 Formats & Content Types

The API   supports **application/json** and **application/xml** content types   for POST operations.

*NB: The POST operations have been in this document as **application/json**. You can also use XML in the request body.*

5.0   Charging a Subscriber

This is used to debit the subscriber's EcoCash wallet and credit the specified Merchant.

Resource URI	https://payonline.econet.co.zw/ecocashGateway-preprod/payment/v1/transactions/amount
HTTP Method	POST
Operation	Charge a subscriber
Response	A JSON/XML representation of an amountTransaction object or ServiceError object.

NB: A different Resource URI for testing may be provided.

Sample JSON Request:

```
{ "clientCorrelator":"12-yt-344534454565",
  "notifyUrl":"http://mysite.com/notifyURL",
  "referenceCode":" REF-12345",
  "tranType","MER",
  "endUserId":"263774222998",
  "remarks":"test remarks",
  "transactionOperationStatus":"Charged",
  "paymentAmount":{
    "charginginformation":{
      "amount":25, "currency":"USD",
      "description":"Paynow Online Payment"
    },
    "chargeMetaData":{
      "channel":"WEB",        "purchaseCategoryCode":"Online Payment",
      "onBeHalfOf":"Paynow Topup"
              }
        },
  "merchantCode":"42467",
  "merchantPin":"1357",
  "merchantNumber":"771999313",
  "currencyCode":"USD",
  "countryCode":"ZW",
```

```
“terminalID”:”TERM123456”,
“location”:”1906 Borrowdale Road”,
“superMerchantName”:”CABS”,
“merchantName”:”Pick and Pay”,
}
```

Parameter Description

Parameter Name	Description	Optional/Mandatory
endUserId	(string) Subscriber MSISDN.	Mandatory
remarks	(string) Transaction description	Optional*
amount	(decimal) Amount to be debited from EcoCash.	Optional *
referenceCode	(string) Use this field to set your reference code.	Mandatory
merchantCode	(string) As provided from Ecocash	Mandatory
merchantPin	(string) As provided from Ecocash	Mandatory
merchantNumber	(string) As provided from Ecocash	Mandatory
originalEcocashReference	(string) Use this field to parse the original EcoCash reference of the transaction to be reversed. This is mandatory for a Refund transaction	Optional
transactionOperationStatus	(string) Shows the status of the charge request. Possible values are: CHARGED – the initial status of a charge request/transaction COMPLETED – when transaction has been approved by the subscriber FAILED – when transaction has been rejected by the subscriber. NB: A HTTP POST whose body is the amountTransaction is done to the notifyUrl when this field changes to COMPLETED/FAILED.	Mandatory
notifyUrl	(URI) URL used by the API to notify your application about completion of a transaction.	Mandatory
channel	(string) Set this field to WEB	Mandatory
clientCorrelation	(string) uniquely identifies this charge request. Duplicate clientCorrelation value will result in a ServiceError returned.	Mandatory
tranType	(string) Transaction Type Code e.g. MER= Merchant Payment, REF= Refund	Mandatory
countryCode	(string) Use this field to set your reference code.	Mandatory
currencyCode	(string) currency identifier as defined in [ISO4217].	Mandatory
terminalID	(string) Unique identifier of terminal (POS, mPOS, etc)	Mandatory

location	(string) Used to parse address of physical location of terminal/merchant	Mandatory
superMerchantName	(string) Use this field to set the super merchant name	Mandatory
merchantName	(string) Use this field to set your merchant name in full	Mandatory
reservedField1	(string) Field reserved for future use	Optional
reservedField2	(string) Field reserved for future use	Optional
reservedField3	(string) Field reserved for future use	Optional
reservedField4	(string) Field reserved for future use	Optional
reservedField5	(string) Field reserved for future use	Optional
reservedField6	(string) Field reserved for future use	Optional
reservedField7	(string) Field reserved for future use	Optional
reservedField8	(string) Field reserved for future use	Optional
reservedField9	(string) Field reserved for future use	Optional
reservedField10	(string) Field reserved for future use	Optional

6.0   Refund/Reversal API

This is used to credit the subscriber's EcoCash wallet and debit the specified Merchant.

Resource URI	https://payonline.econet.co.zw/ecocashGateway-preprod/payment/v1/transactions/refund
HTTP Method	POST
Operation	Charge a subscriber
Response	A JSON/XML representation of an amountTransaction object or ServiceError object.

NB: A different Resource URI for testing may be provided.

Sample JSON Request:

{ "clientCorrelator":"correlator000012",
   "referenceCode":"TEST-REF-0000056",
   "endUserId":"263774222542", "originalEcocashReference":"MP170503.0946.C00001",

"tranType","REF",
"endUserId":"263774222998",
"remarks":"test remarks",
"paymentAmount":{
  "charginginformation":{
    "amount":1,
    "currency":"USD",
    "description":"Paynow Online Payment"
  },
  "chargeMetaData":{
    "channel":"SMS",
    "purchaseCategoryCode":"SOAPUI test",
    "onBeHalfOf":"developer"
      }
  },
"merchantCode":"02273",
"merchantPin":"1357",
"merchantNumber":"771998182",
"currencyCode":"USD",
"countryCode":"ZW",
"terminalID":"TERM123456",
"location":"1906 Borrowdale Road",
"superMerchantName":"CABS",
"merchantName":"Pick and Pay"
}

Parameter Description

Parameter Name	Description	Optional/Mandatory
endUserId	(string) Subscriber MSISDN.	Mandatory
remark	(string) Transaction description	Optional*
originalEcoCashReference	(string) The EcoCash transaction reference to be reversed	Mandatory
amount	(decimal) Amount to be debited from EcoCash.	Optional *

referenceCode	(string) Use this field to set your reference code.	
currency	(string) currency identifier as defined in [ISO4217].	Optional *
merchantCode	(string) As provided from Ecocash	Mandatory
merchantPin	(string) As provided from Ecocash	Mandatory
merchantNumber	(string) As provided from Ecocash	Mandatory
transactionOperationStatus	(string) Shows the status of the charge request. Possible values are: CHARGED – the initial status of a charge request/transaction COMPLETED – when transaction has been approved by the subscriber FAILED – when transaction has been rejected by the subscriber. NB: A HTTP POST whose body is the amountTransaction is done to the notifyUrl when this field changes to COMPLETED/FAILED.	Mandatory
notifyUrl	(URI) URL used by the API to notify your application about completion of a transaction.	
channel	(string) Set this field to WEB	Optional
clientCorrelation	(string) uniquely identifies this charge request. Duplicate clientCorrelation value will result in a ServiceError returned.	Mandatory
tranType	(string) Transaction Type Code e.g. MER= Merchant Payment, REF= Refund	Mandatory
countryCode	(string) Use this field to set your reference code.	Mandatory
currencyCode	(string) currency identifier as defined in [ISO4217].	Mandatory
terminalID	(string) Unique identifier of terminal (POS, mPOS, etc)	Mandatory
location	(string) Used to parse address of physical location of terminal/merchant	Mandatory
superMerchantName	(string) Use this field to set super merchant name	Mandatory
merchantName	(string) Use this field to set your merchant name in full	Mandatory
reservedField1	(string) Field reserved for future use	Optional
reservedField2	(string) Field reserved for future use	Optional
reservedField3	(string) Field reserved for future use	Optional
reservedField4	(string) Field reserved for future use	Optional
reservedField5	(string) Field reserved for future use	Optional
reservedField6	(string) Field reserved for future use	Optional

reservedField7	(string) Field reserved for future use	Optional
reservedField8	(string) Field reserved for future use	Optional
reservedField9	(string) Field reserved for future use	Optional
reservedField10	(string) Field reserved for future use	Optional

7.0   Query the status of a charge request/transaction

Resource URI	*https://payonline.econet.co.zw/ecocashGateway-preprod/payment/v1/{endUserId}/transactions/amount/{clientCorrelato r}*
HTTP Method	*GET*
Operation	*Query if a user has been charged for a transaction*
Response	A json/xml representation of an ***amountTransaction*** or ***ServiceError*** object.

8.0   ServiceError

In addition to the usual HTTP Error codes, the gateway may respond with a json/xml **ServiceError** object. The **text** field of the ServiceError gives a description of the exact error.

```
{
        "messageId": "SVC0002",
        "text": " Invalid input value for message part %1"
}
```

Click on the attached spreadsheet for a full list of error codes. *(The square brackets [] on the message_id column is only to maintain the format)*

API Error Codes