AYA Pay Merchant API Guide

1. Introduction

The AYA Pay Merchant API is a web service which allows you to provide AYA Pay as a Payment Method in your website, Mobile Application or Software. The API gives you access to all of the supported functions of our service. This documentation is only for AYA Pay Merchant API consumers.

2. Supported API function

Currently AYA Pay Merchant API is on 1.0.0 and supported 5 functions. Root URL are as follow.

UAT	https://opensandbox.ayainnovation.com
Production	https://api.ayapay.com

- Access Token
- Merchant Login
- Request Payment (Push notification to AYA Pay Wallet User).
- Generate Payment QR code (Suggested for websites only)
- Refund

2.1 Access Token

Description

Before you can use the API you'll need to get your API key, which you use to authenticate with the API.

Http Method	Post
Url (UAT)	/token
Url (Prod)	
Content Type	application/x-www-form-urlencoded
Authorization	Basic { Base64(consumer_key:consumer_secret)}

Note: consumer_key and consumer_secret will be provided by AYA Innovation Labs(Integration Team) through email or Skype group.

Request Headers

There is no request header needed for this API beside from Authorization.

Request Body

Parameter Name	Type	Value	Mandatory
grant_type	String	client_credentials	True

Sample Request

```
curl --location --request POST 'https://opensandbox.ayainnovation.com/token'
--header 'Authorization: Basic UFRCWXhYRDVHSG1UWGtOVU5hc3B5NWdjSmI4YTpFR003Y09RQjltdEFHZmY3Rnd0ak5weHlBOThh'
--header 'Content-Type: application/x-www-form-urlencoded'
--data-urlencode 'grant_type=client_credentials'
```

Response Parameters

Parameter Name	Type	Sample Value
access_token	String	`34d795b8-84ad-3314-a812-e1200358d18e`
scope	String	am_application_scope default
token_type	String	Bearer
expires_in	integer	3600 (3600 seconds)

Sample Response

```
{
    "access_token": "34d795b8-84ad-3314-a812-e1200358d18e",
    "scope": "am_application_scope default",
    "token_type": "Bearer",
    "expires_in": 3600
}
```

2.2 Merchant Login

Description

This is the merchant authentication API that allowed merchant(API consumer) to login in order to request payments or generating QR code for AYA Pay Wallet users.

Http Method	Post
URL (UAT)	/merchant/1.0.0/thirdparty/merchant/login
URL (Production)	
Content-Type	application/json

Request Headers

Parameter Name	Type	Sample value	Mandatory
Token	String	34d795b8-84ad-3314-a812-e1200358d18e	Yes

Note : The parameter value for "Token" must be the response parameter value of "access_token" from the first call.

Request Body

Parameter name	Type	Sample value	Mandatory
phone	String	09420595911	Yes
password	String	333666	Yes

Sample Request

curl --location --request POST 'https://opensandbox.ayainnovation.com/merchant/1.0.0/thirdparty/merchant/login' -- header 'Token: Bearer 34d795b8-84ad-3314-a812-e1200358d18e' --header 'Content-Type: application/json' --data-urlencode 'phone=09791000390' --data-urlencode 'password=333666'

Response Param

Parameter Name	Type	Value	
err	integer	200	See all err codes in Error Code section
message	String	Success	

token	JSON Object	`"token": {`
		`    "token": "ef13b02e-a97f-4f4f-9aad-`
		`6a0e44ef45de",`
		`    "expiredAt": "2020-06-03T03:53:31.095Z"`
		`}`	

Sample Response

```
{
  "err": 200,
  "message": "Success",
  "token": {
    "token": "ef13b02e-a97f-4f4f-9aad-6a0e44ef45de",
    "expiredAt": "2020-06-03T03:53:31.095Z"
  }
}
```

2.3 Request Payment

Description

This API allowed you to request payment to the AYA Pay Wallet users as your business needs.

Http Method	POST
URL (UAT)	/merchant/1.0.0/thirdparty/merchant/requestPushPayment
URL (Production)	
Content-Type	application/json

Request Header

Parameter name	Type	Sample value	Mandatory
Token	String	34d795b8-84ad-3314-a812-e1200358d18e	Yes
Authorization	String	ef13b02e-a97f-4f4f-9aad-6a0e44ef45de	Yes

Request Body

Parameter name	Type	Sample value	Mandatory	Remark
customerPhone	String	09420595911	Yes	AYA Pay Wallet User Number
amount	String	1000	Yes	Amount to Pay

currency	String	MMK	Yes	Currently support MMK only
externalTransactionId	String	2020060314170001	Yes	TransactionId
externalAdditionalData	String	My comment	No	Remarks

Sample Request

```
curl --location --request POST 'https://opensandbox.ayainnovation.com
/merchant/1.0.0/thirdparty/merchant/requestPushPayment' \ --header
'Content-Type: application/json' \
--header 'Token: 34d795b8-84ad-3314-a812-e1200358d18e' \
--header 'Token: ef13b02e-a97f-4f4f-9aad-6a0e44ef45de' \
--data-urlencode 'customerPhone=09420595911' \
--data-urlencode 'amount=10000' \
--data-urlencode 'currency=MMK' \
--data-urlencode 'externalTransactionId=2020060314170001' \
--data-urlencode 'externalAdditionalData=This is my remark.'
```

Response Parameters

Parameter Name	Type	Value
err	integer	200
message	String	Success
data	Object	```{ "externalTransactionId": "202006031417000 01", "referenceNumber": "5ed72352b74aadeb58ec 9b42" }```

Sample Response

```
{
  "err": 200,
  "message": "Success",
  "data": {
    "externalTransactionId": "2020060314170001",
    "referenceNumber": "5ed72352b74aadeb58ec9b42"
  }
}
```

2.4 Payment Refund

Description

This API allowed you to refund the payment made by AYA Pay wallet user.

Http Method	Post
URL (UAT)	/merchant/1.0.0/thirdparty/merchant/refundPayment
URL (Production)	
Content-Type	application/json

Request Header

Parameter name	Type	Sample value	Mandatory
Token	String	34d795b8-84ad-3314-a812-e1200358d18e	Yes
Authorization	String	ef13b02e-a97f-4f4f-9aad-6a0e44ef45de	Yes

Request Body

Parameter name	Type	Sample value	Mandatory
referenceNumber	String	5ed7232b74aadeb58ec9b42	Yes
externalTransactionId	String	2020060314170001	Yes

Sample Request

```
curl --location --request POST 'https://opensandbox.ayainnovation.com
/merchant/1.0.0/thirdparty/merchant/refundPayment' \
--header 'Content-Type: application/json' \
--header 'Token: 34d795b8-84ad-3314-a812-e1200358d18e'
--header 'Token: ef13b02e-a97f-4f4f-9aad-6a0e44ef45de'
--data-urlencode 'referenceNumber=5ed86493b74aadca72ec9ecf' \
--data-urlencode 'externalTransactionId=2020060314170001'
```

Response Parameters

Parameter Name	Type	Mandatory	Description
createdAt	String	True	The time AYA Pay Wallet User make Payment.
currency	String	True	Currency.
externalAdditionalData	String	False	Remark / Comment
fees.debitFee	Number	True	Transaction fee for customer.
fees.creditFee	Number	True	Transaction fee for merchant.
name	String	True	Transaction name.
amount	Number	True	Amount refunded.
totalAmount	Number	True	Total amount including fee/charges.
merchant	Json	True	Merchant information
referenceNumber	String	True	Transaction Reference Number.

customer	Json	True	Customer Information.
status	String	True	Transaction status done: transaction which is paid by customer failed: transaction is failed
externalTransactionId	String	True	Your Transaction ID.
transRefId	String	True	AYA Pay transaction ID.
originTransRefId	String	True	AYA Pay transaction ID. (Wallet user paid to you)
transType	String	True	Transaction Type

Sample Response

```
{
  "err": 200,
  "message": "Success",
  "data": {
    "name": "Online Merchant Refund a Payment",
    "desc": "Online Merchant Refund a Payment",
    "transType": "refund",
    "currency": "MMK",
    "fees": {
      "debitFee": 200,
      "creditFee": 30
    },
    "transRefId": "5ed864dfb74aad554bec9eda",
    "originTransRefId": "5ed864b984b8c4ff148e8d61",
    "extMachId": null,
    "status": "done",
    "createdAt": "2020-06-04T03:05:04.539Z",
    "externalTransactionId": "2020060314170001",
    "referenceNumber": "5ed86493b74aadca72ec9ecf",
    "totalAmount": 10200,
    "amount": 10000,
    "merchant": {
      "name": "Test Merchant",
      "phone": "09782019198"
    },
    "customer": {
      "name": "TEST THREE",
      "phone": "09420595911"
    }
  }
}
```

3. Calling back to AYA Pay Merchant API consumers

Description

AYA Pay backend system will call back to API consumers when a wallet user made a transaction regarding with pushed payment requests.

Note : Call back Url must be provided by API consumers. Integration team will generate the **decryption key** based on the call back URL.

Request Body

checksum	5097b2914ae63b47cc981a35529da1b6e30481e865f5bf22787d30b4aacddfb0
paymentResult	JmM2wvWlrdF6zM5d/41it8QScFTvYiQOT77huMPvMyNiRZJQsqgaKZdkwwBTgs5er3qQmvGlNkfyc8YvwikiiB5Ezmgc5Fp3UjSVXxGt78wW8ldNtP3ZmOhiu7h/KQq3gfQQ2fMkUFBBZLjWTU2mnzprNvRDuuzkQz7O30hs5/YX4dfam6/A/iUmc22AWFzkv8C5Q6W6X7IVrX2BCO4WUNszu5KD2OdiL3z9HU16SWtQYC7TukDmp2TrzN3wE3f9wMcLecprNfAehuuLa1HZIJblr565pn8b/ZiaKygM+uzBdHIJSzduLOIzN/g0IaWe2VJ+IDQkSX3wtsua47oTgm8h/xPq6Wfd0edVo+Ftp8aFCIGFRJCk7Lhjhi4tpt7Fr9d4geEw52Q+Bvzr6zDDBivCSj+fbRy1rZj0zR9zOqF4HOqS4BPabDnoBosXIqNvQWVAKLsGeKBYtlv6DDvLAZs1OxU7XMEGJJLjfcdut7ospLqGfZY3u6xak9bkkQbQqAvJP4d8ruYHK1BU+s7FsAgS+T6kGKG1eoHtuQsTzd4mHawrmTMSFs1CdGUwtTxVfaqMMjT+8K5M0La9lnFW3FlFBRoRdGFEE/FMIT98gv3bcAByyb0jjGnxseNxsMaxT0qeoPIgOJ1jetcwhGgbbr249mbDKwXTuDkwrHa0wOfoV7qhJVxJ62sXBw4WwnRATleZL2Ucojb/Qq9vkGUkwie7syXXIp1EEQzngVU/OkIA6orYz4SMozD+1//LGWKDvBoi2aCPnT9DNmTL0vcTzgYDn7CpbfQ55O4SgqhF6/E=
refundResult	null

Decryption Example (Javascript)

```
crypto.decryptAES = (data, key) => {
    try{
        let decryptKey = CryptoJS.enc.Utf8.parse(key);
        var rawData = CryptoJS.AES.decrypt(data, decryptKey, { mode:
CryptoJS.mode.ECB, padding: CryptoJS.pad.Pkcs7 }).toString(CryptoJS.enc.
Utf8)
        return rawData;
    }catch(e){
     sails.log(e)
    }
}
```

Decryption Example (php)

Please download the code from google drive from the following link.

php sample code

Sample decrypted content

```
amount:1000
createdAt:Wed Jun 03 2020 14:17:51 GMT+0630 (Myanmar Time) {}
currency:"MMK"
customer:Object {id: "5d834a5da3b8053cb768ee31", name: "ACNAME:175593",
phone: "09420595911"}
externalAdditionalData:""
externalTransactionId:"2020060314170001"
fees:Object {debitFee: 0, creditFee: 0},
merchant:Object {id: "5d83683da3b8053cb768ef20", name: "Sample", phone:
"09420595911"}
name:"Subscriber Pay Online Merchant"
referenceNumber:"5ed72352b74aadeb58ec9b42"
status:"done"
totalAmount:1000
transRefId:"5ed72352b74aadeb58ec9b42"
```

File Name	Type	Mandatory	Description
createdAt	String	True	The time customer paid for transaction.
currency	String	True	Currency
externalAdditionalData	String	False	Comment.
fees.debitFee	Number	True	Transaction fee for customer.
fees.creditFee	Number	True	Transaction fee for merchant
name	String	True	Transaction name.
amount	Number	True	Amount paid by customer.
totalAmount	Number	True	Total amount paid by customer including fees.
merchant	Json	True	Merchant Information.
referenceNumber	String	True	Transaction Reference number
customer	Json	True	Customer information
status	String	True	Transaction status. done : paid failed : failed
externalTransactionId	String	True	Your Transaction ID
transRefId	String	True	Uniqued transaction ID of AYA Pay System

4. Error Codes

Description

This section will describe all error codes used in AYA Pay Merchant API.

Error Code	Error Message	Description
7000	Internal Server Error	Error from system
7001	Invalid Parameter	Missing params

7004	Not found data	Not found data
7005	Forbidden	Forbidden
7006	Bad request	Need check input params
7008	Wrong Message Type	Wrong Message Type
8002	Wrong pin	Need check password
8027	Invalid Login or password	Need check phone, password. Phone is phone of merchant. Which is registered by Admin of AYA PAY
8031	Your account is locked or inactive. Please contact with supporter	It will happen when account of merchant is locked
9051	Sender is not user makes request	Sender is invalid
9052	Receiver is not user makes request	Receiver is invalid
9053	Service is not in offer of user	Can not access to service
9054	Sender pocket is in locked status	Sender pocket locked
9055	Receiver pocket is in locked status	Receiver pocket locked
9056	Balance not match to checksum	Sender Pocket Balance error
9057	Balance not match to checksum	Receiver Pocket balance error
9058	Missing biller config, system error	Missing Biller Config
9059	amount less than min transaction amount	Amount too small
9060	Amount bigger than max transaction amount	Amount too big
9061	Sender balance not sufficiency	Sender balance not sufficiency
9062	Receiver balance not sufficiency	Receiver balance not sufficiency
9063	Amount exceeded daily limit	Amount exceeded daily limit
9064	Amount exceeded monthly limit	Amount exceeded monthly limit
9065	Transaction time is not valid to limit interval	Transaction too frequently
9066	Sender balance exceed limit, can not send more money to sender	Sender balance exceed limit ???
9067	Receiver balance exceed limit balance, can not send more money to receiver	Receiver balance exceed limit
9102	Transaction not found or can not be reversed	Transaction not found or can not be reversed