

**About:**

This file is a technical guide for integration of merchant backend with AIRPAY. Please refer to below guidelines for integration.

**A. List of Files**

1. transaction.html - Merchant Data collection.
2. config.php - Variable Configuration file.
3. sendtoairpay.php - Merchant Data encryption and sending data to airpay.
4. responsefromairpay.php - Response from airpay.
5. error.php - Landing page for error.
6. Includes-
  - functions.php- functions for encryption, decryption and checksum calculation
  - validation.php - PHP server side Validation examples for data received from transaction.html

**B. Data captured.**

Data	HTML variable name	Data Format	Data Length	Example
Buyer Email	buyerEmail	email format	6-50	<a href="mailto:eg.buyer@example.com">eg.buyer@example.com</a>
Buyer Phone	buyerPhone	numeric, space, hyphen	8-15	9898989989898
* Buyer First Name	buyerFirstName	alphanumeric, space	1-50	name 89
* Buyer Last Name	buyerLastName	alphanumeric, space	1-50	name 89
Buyer Address	buyerAddress	alphanumeric, space and these special chars ,;:.\$%\'()-_	4-50	
Buyer City	buyerCity	alphanumeric, space	2-50	Dodoma
Buyer State	buyerState	alphanumeric, space	2-50	Dodoma
Buyer Country	buyerCountry	alphanumeric, space	2-50	Tanzania
Buyer Pincode	buyerPinCode	alphanumeric	4-8	4124578
Payment Mode	chmod	chars		ppc_pg_nb(ppc - prepaid card, pg- payment gateway, nb- netbanking)***
* Amount	amount	number with two decimals	1-6.2	999999.99
* Order ID	orderid	alphanumeric	1-20	
* Private Key	privatekey	alphanumeric	10-200	As per calculated in the example.
* Merchant ID	mercid	numeric	1-12	
* Checksum	checksum	alphanumeric	10-200	As per calculated in the example.
* Currency	currency	numeric	3	834 **
* ISO Currency	isocurrency	chars	3	TZS **
* Custom variable	customvar	alphanumeric, space, =	1-100	eg.airpay Payment
* Airpay Version	arpyVer	numeric		3 **
Sub Type	txnsubtype	numeric	1-100	eg.1000

\* represents mandatory.

\*\* Hardcode these example values

\*\*\*chmod variable contains Payment Modes available for user. for e.g. If you want to show only Credit Card/Debit Card, then value of the chmod variable will be "pg". If you want Net Banking and Prepaid card then the value of the chmod variable will be "nb\_ppc". If you want to show all payment options activated for you at airpay, then leave this variable blank.

**C. Details.****1. transaction.html**

This file has an example of data collection from a merchant. It collects the following data.

Buyer Email, Buyer Phone, Buyer First Name, Buyer Last Name, Buyer Address, Buyer City, Buyer State, Buyer Country, Buyer Pincode, Amount, Order ID.

orderid variable is kept here, so that you can test the kit conveniently. orderid should be a unique reference number generated and sent by your system to airpay. So you may generate it in sendtoairpay.php

## 2. config.php

This file contains variables \$username, \$password, \$secret, \$mercid, \$client\_id, \$client\_secret, \$secretkey, \$URL, \$tokenUrl which you can get from the settings page of your airpay merchant account. These variables are used in sendtoairpay.php and responsefromairpay.php files. privatekey and checksum are generated using these variables.

## 3. sendtoairpay.php

This file provides you an example of how to process data received from transaction.html and send it to airpay payment solutions.

This file includes validation.php, functions.php and config.php We are also collecting two other HTML variables.

currency: 834

isocurrency:TZS

In this file, a token generation logic has been implemented, utilizing request data and a token URL. The generated token is subsequently decrypted and appended to the URL.

## 4. validation.php

This file provides examples of PHP validations for variables received from transaction.html. This is included in sendtoairpay.php

## 5. responsefromairpay.php

This file states how to process responses from airpay. Airpay will send you the following list of variables.

TRANSACTIONID = order id you have send to airpay system

APTRANSACTIONID = airpay transaction reference number

AMOUNT = transaction amount

TRANSACTIONSTATUS = successful = 200

MESSAGE = Response message received from payment gateway.

ap\_SecureHash = Secure hash generated by airpay

CUSTOMVAR = customvar value received from payment gateway.

All fields are mandatory except MESSAGE.

In the file we have done different validations and mentioned what necessary action needs to be taken. Please go through the php comments mentioned in this file.

Secure hash is calculated using crc32. More details are available on <http://in2.php.net/crc32>

\$mercid = Merchant Id, \$username = username available on the settings page of your airpay merchant account.

In this file the response data is decrypted. Following this decryption, the obtained JSON data undergoes a transformation, being converted into an array for further processing and analysis.

## 6. error.php

Example landing page if server side validation failed for transaction.html

## 7.functions.php-

- The `functions` class provides methods for AES-256 encryption (`aes256encrypt`), decryption (`decrypt` and `decrypt\_string`), and checksum calculation (`checksumcal`) using OpenSSL and SHA-256, offering secure data handling capabilities.
- The class includes a utility function (`sendPostData`) for making HTTP POST requests with cURL, facilitating communication with external services or APIs.
- The encryption functions utilize randomly generated initialization vectors (IVs) and derive encryption keys from user-provided credentials or data, enhancing the security of the encryption process.

Note – Kindly Provide either buyerEmail or BuyerPhone