

VERSION - 1.0.7

DATE – 20/05/2025



PRESENTED BY: AIRPAY PAYMENT SERVICES

AIRPAY PAYMENT SERVICES PVT LTD

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Flutter Integration Kit

ABSTRACT

This document specifies the technical aspect of integrating Flutter Package.

DISCLAIMER

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VERSION HISTORY

VERSION #	IMPLEMENTED BY	REVISION DATE	APPROVED BY	APPROVAL DATE	REASONS
1.0	Tushar Khandekar	[20/05/2025]	-	[15/05/2025]	Initial Draft

Table of Contents

ABSTRACT.....	2
DISCLAIMER.....	3
VERSION HISTORY.....	4
INITIAL CONFIGURATION -	6
REQUEST PARAMETER TO CALL AIRPAY PACKAGE –	7
REQUEST –.....	7
PRIVATEKEY LOGIC –	10
CHECKSUM LOGIC –.....	10
CODE RESPONSE.....	11
RESPONSE FROM THE PAYMENT GATEWAY	14
MANIFEST CHANGES -	14
PUBSPECS.YAML CHANGES -	15
SUMMARY –	17
FOR SUPPORT –	17
REQUEST AND RESPONSE PARAMETER TABLE	18

INITIAL CONFIGURATION -

The developer needs to invoke SDK using the code below.

Flutter V4 Airpay plugin for payment integration.

Use this package as a library -

Add [airpay_package](#) as a dependency in your pubspec.yaml file. You can now include an `airpayPackage` in your project.

See the [airpayPackage](#)

Depend on it -

Run this command:

With Dart:

```
$ dart pub add airpay_flutter_v4
```

With Flutter:

```
$ flutter pub add airpay_flutter_v4
```

This will add a line like this to your package's pubspec.yaml (and run an implicit `dart pub get`):

dependencies:

```
airpay_flutter_v4: ^1.0.7
```

Alternatively, your editor might support `dart pub get` or `flutter pub get`. Check the docs for your editor to learn more.

Import it :

Now in your Dart code, you can use:

```
import 'package:airpay_flutter_v4/airpay_package.dart';
```

Just make sure that your activity has set `windowSoftInputMode` to `adjustResize` in `AndroidManifest.xml`

```
<application>
<activity android:windowSoftInputMode="adjustResize">
</activity>
</application >
```

REQUEST PARAMETER TO CALL AIRPAY PACKAGE –

REQUEST –

```
UserRequest user = UserRequest(  
    privatekey: privatekey.toString(),  
    checksum: checksum.toString(),  
    mercid: merchantID,  
    protoDomain: domainPath,  
    buyerFirstName: fname.text,  
    buyerLastName: lname.text,  
    buyerEmail: email.text,  
    buyerPhone: phone.text,  
    buyerAddress: fullAddress.text,  
    buyerPinCode: pincode.text,  
    orderid: orderId.text,  
    amount: amount.text,  
    buyerCity: city.text,  
    buyerState: state.text,  
    buyerCountry: country.text,  
    currency: "356",  
    isocurrency: "INR",  
    chmod: "",  
    customvar: "test",  
    txnsubtype: txn_subtype.text,  
    wallet: "0",  
    isStaging: this.isSandbox,  
    successUrl: successURL,  
    failedUrl: failedURL,  
    appName: "", // App name value to display on Appbar title  
    colorCode: "", // Please pass hexadecimal color code value – For Ex. "0xFF0D47A1"  
    sb_nextrundate: subscription_date.text,  
    sb_period: dropdownValue.toString(),
```

```
sb_frequency: subscription_frequency.text,  
sb_amount: subscription_amount.text,  
sb_isrecurring: "",  
sb_recurringcount: subscription_rec_count.text,  
sb_retryattempts: subRetryValue,  
sb_maxamount: subscription_max_amount.text  
);
```

```
Navigator.push(  
  context,  
  MaterialPageRoute(  
    builder: (BuildContext context) => new AirPay(  
      user: user,  
      closure: (status, response) => {onComplete(status, response)}),  
    ),  
  );  
}
```


Screenshot for reference –

```

UserRequest user = UserRequest(
  privatekey: privatekey.toString(),
  checksum: checksum.toString(),
  mercid: merchantID,
  protoDomain: domainPath,
  buyerFirstName: fname.text,
  buyerLastName: lname.text,
  buyerEmail: email.text,
  buyerPhone: phone.text,
  buyerAddress: fullAddress.text,
  buyerPinCode: pincode.text,
  orderid: orderId.text,
  amount: amount.text,
  buyerCity: city.text,
  buyerState: state.text,
  buyerCountry: country.text,
  currency: "356",
  isocurrency: "INR",
  chmod: "",
  customvar: "test",
  txnsbtype: txn_subtype.text,
  wallet: "0",
  isStaging: this.isSandbox,
  successUrl: successURL,
  failedUrl: failedURL,
  appName: "", // App name value to display on AppBar title
  colorCode: "", // Please pass hexadecimal color code value - For Ex. "0xFF0D47A1"
  sb_nextrundate: subscription_date.text,
  sb_period: dropdownValue.toString(),
  sb_frequency: subscription_frequency.text,
  sb_amount: subscription_amount.text,
  sb_isrecurring: "1",
  sb_recurringcount: subscription_rec_count.text,
  sb_retryattempts: subRetryValue,
  sb_maxamount: subscription_max_amount.text
);

Navigator.push(
  context,
  MaterialPageRoute(
    builder: (BuildContext context) => new AirPay(
      user: user,
      closure: (status, response) => {onComplete(status, response)}),
  ),
);
}

```

PRIVATEKEY LOGIC –

```

var date = new DateTime.now();
var format = DateFormat("yyyy-MM-dd");
var formattedDate = format.format(date);
var temp = utf8.encode(
    '${kAirPaySecretKey.toString()}@${kAirPayUserName.toString()}:|:${kAirPayPassword.toString()}');
var privatekey = sha256.convert(temp);

```

CHECKSUM LOGIC –

```

var siindexvar =
    '${subscription_date.text}${subscription_frequency.text}${dropdownValue.toString()}${subscription_amo
    unt.text}${"1"}${subscription_rec_count.text}${subRetryValue.toString()}';

    if(txn_subtype.text.toString() == "12"){
        siindexvar = siindexvar;
    }else{
        siindexvar = "";
    }

var setAllStr =
    '${email.text}${fname.text}${lname.text}${fullAddress.text}${city.text}${state.text}${country.text}${amo
    unt.text.toString()}${orderId.text.toString()}${siindexvar.toString()}${formattedDate}';

// key for checksum
var sTemp2 =
    utf8.encode('${kAirPayUserName.toString()}~::~~${kAirPayPassword.toString()}');
var sKey = sha256.convert(sTemp2);

// checksum
var sAllData = utf8.encode('${sKey}@${setAllStr}');
var checksum = sha256.convert(sAllData);

```

RESPONSE MESSAGE -

CODE RESPONSE

onComplete method:

```
onComplete(status, response) {  
    var resp = response.toJson();  
    print(resp);  
    var txtStsMsg = resp['STATUSMSG'] ?? "";  
    var txtSts = resp['TRANSACTIONSTATUS'] ?? "";  
    Navigator.pop(context);  
    if (txtStsMsg == "") {  
        txtStsMsg = response['STATUSMSG'] ?? "";  
        txtSts = response['TRANSACTIONSTATUS'] ?? "";  
    }  
    if (txtStsMsg == 'Invalid Checksum') {  
        // txtStsMsg = "Transaction Canceled";  
    }  
    //For SecureHash Validation Logic -  
    var transid = resp['MERCHANTTRANSACTIONID'] ?? "";  
    var apTransactionID = resp['TRANSACTIONID'] ?? "";  
    var amount = resp['TRANSACTIONAMT'] ?? "";  
    var transtatus = resp['TRANSACTIONSTATUS'] ?? "";  
    var message = resp['STATUSMSG'] ?? "";  
    var customer_vpa = "";  
    var customer_fvpa = "";  
    var chmode = resp['CHMOD'] ?? "";
```

```

var subscriptionID = resp['SUBSCRIPTION_ID'] ?? "";

var secureHash = resp['AP_SECUREHASH'] ?? "";

if(!chmode.toString().isEmpty && chmode.toString() == "upi" ){

  customer_vpa = resp['CUSTOMERVPA'] ?? "";

  customer_fvpa = "::$customer_vpa";

}

var merchantid = ""; //Please enter Merchant Id

var username = ""; //Please enter Username


// Calculate the CRC32 checksum

var sParam =

'${transid}:${apTransactionID}:${amount}:${transtatus}:${message}:${merchantid}:${username}$customer_fvpa';

var checksumResult = Crc32.calculate(sParam);

if(checksumResult.toString() == secureHash.toString()){

Fluttertoast.showToast(

  msg: "Securehash matched",

  toastLength: Toast.LENGTH_LONG,

  gravity: ToastGravity.BOTTOM,

  timeInSecForIosWeb: 1,

  backgroundColor: Colors.white24,

  textColor: Colors.white,

  fontSize: 16.0

);

```

```
}else{  
  
  Fluttertoast.showToast(  
  
    msg: "Securehash mis-matched",  
  
    toastLength: Toast.LENGTH_LONG,  
  
    gravity: ToastGravity.BOTTOM,  
  
    timeInSecForIosWeb: 1,  
  
    backgroundColor: Colors.white24,  
  
    textColor: Colors.white,  
  
    fontSize: 16.0  
  
  );  
}  
  
AwesomeDialog(  
  
  context: context,  
  
  dialogType:    DialogType.noHeader,  
  
  headerAnimationLoop: true,  
  
  animType: AnimType.bottomSlide,  
  
  //title: "AirPay",  
  
  desc: 'Transaction Status: ' + txtSts +  
        '\nTransaction Status Message: ' +  
        txtStsMsg)  
  
  .show();  
}
```

RESPONSE FROM THE PAYMENT GATEWAY

MERCHANTTRANSACTIONID = orderid you have send to airpay system is returned back

TRANSACTIONID = airpay transaction reference number

TRANSACTIONAMT = transaction amount

STATUS = successful = 200

STATUSMSG = Response message received from payment gateway.

SECUREHASH = Secure hash generated by airpay

All fields are mandatory except MESSAGE.

(** This method is mandatory. You can get it from the settings page of your airpay merchant account. * This method is mandatory)

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 Netbanking and Prepaid card then 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.

Various modes passed this way separated by underscore element.

(If you want to show all payment options activated for you at airpay, then leave this variable blank.)

MANIFEST CHANGES -

In the AndroidManifest.xml file located at android/app/src/main you need to add this permission inside the manifest tag and also need to add xmlns:tools value -

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  package="com.example.airpay_example">

  <uses-permission android:name="android.permission.INTERNET" />
```

And need to add Meta-data tag inside the application tag value -

For reference shared code below –

```
<meta-data
  android:name="flutterEmbedding"
  android:value="2" />
```

PUBSPECS.YAML CHANGES -

```
name: airpay_example
description: A new Flutter project.
```

```
# The following line prevents the package from being accidentally published to
# pub.dev using `pub publish`. This is preferred for private packages.
publish_to: 'none' # Remove this line if you wish to publish to pub.dev
```

```
# The following defines the version and build number for your application.
# A version number is three numbers separated by dots, like 1.2.43
# followed by an optional build number separated by a +.
# Both the version and the builder number may be overridden in flutter
# build by specifying --build-name and --build-number, respectively.
# In Android, build-name is used as versionName while build-number used as versionCode.
# Read more about Android versioning at https://developer.android.com/studio/publish/versioning
# In iOS, build-name is used as CFBundleShortVersionString while build-number used as CFBundleVersion.
# Read more about iOS versioning at
#
https://developer.apple.com/library/archive/documentation/General/Reference/InfoPlistKeyReference/Articles/Core
FoundationKeys.html
version: 1.0.0+2
```

```
environment:
  sdk: ">=2.12.0 <3.0.0"
```

```
dependencies:
  flutter:
    sdk: flutter
#airpay_flutter_v4: ^1.0.7
  airpay_flutter_v4:
    path: ../
# git:
# url:
# ref: main
```

```
# The following adds the Cupertino Icons font to your application.
# Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.2
alert_dialog: ^1.0.2
awesome_dialog: ^3.2.1
simple_animations: ^5.0.2
email_validator: ^2.1.16
intl: ^0.20.2
url_launcher: ^6.3.0
fluttertoast: ^8.2.6
```

```
dev_dependencies:
  flutter_test:
```

sdk: flutter

*# For information on the generic Dart part of this file, see the
following page: <https://dart.dev/tools/pub/pubspec>*

*# The following section is specific to Flutter.
flutter:*

*# The following line ensures that the Material Icons font is
included with your application, so that you can use the icons in
the material Icons class.*
uses-material-design: true

To add assets to your application, add an assets section, like this:
assets:
- assets/
- images/a_dot_ham.jpeg

*# An image asset can refer to one or more resolution-specific "variants", see
<https://flutter.dev/assets-and-images/#resolution-aware>.*

*# For details regarding adding assets from package dependencies, see
<https://flutter.dev/assets-and-images/#from-packages>*

*# To add custom fonts to your application, add a fonts section here,
in this "flutter" section. Each entry in this list should have a
"family" key with the font family name, and a "fonts" key with a
list giving the asset and other descriptors for the font. For
example:*

fonts:
- family: Schyler
fonts:
- asset: fonts/Schyler-Regular.ttf
- asset: fonts/Schyler-Italic.ttf
style: italic
- family: Trajan Pro
fonts:
- asset: fonts/TrajanPro.ttf
- asset: fonts/TrajanPro_Bold.ttf
weight: 700
#

*# For details regarding fonts from package dependencies,
see <https://flutter.dev/custom-fonts/#from-packages>*

SUMMARY –

Flutter is intended to provide an example to Merchant for integrating merchant Payment Solution.

For a summary of features, please see the `Airpay_Flutter_SDK_Integration.pdf` file.

FOR SUPPORT –

- Tech/integration Support Team
- Customer Support Team

REQUEST AND RESPONSE PARAMETER TABLE

REQUEST PARAMETER: -

<u>Method Name</u>	<u>Input Data Format</u>	<u>Data Length</u>	<u>Example</u>
buyerEmail	String	6-50	abc@gmail.com
buyerPhone	String	8-15	9898989898
buyerFirstName	String	1-50	Name
buyerLastName	String	1-50	Name
buyerAddress	String	4-255	Mumbai
buyerCity	String	2-50	Mumbai
buyerState	String	2-50	Maharashtra
buyerCountry	String	2-50	India
buyerPinCode	String	4-8	400001
amount	String	1-7	50.00
chmod	String	0-15	Payment Mode (not required) <ul style="list-style-type: none"> • ppc - prepaid card • pg - payment gateway • nb - Netbanking • pgcc - Credit card • pgdc - Debit card • cash - Cash • emi - EMI • rtgs - RTGS • upi - UPI • btqr - Bharat QR • payltr - Pay later • va - Virtual account • enach - eNACH • remit - Remittance

			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 Netbanking and Prepaid card then 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.
checksum	String	1-100	Generate Checksum **
privatekey	String	1-100	Generate Private Key **
mercid	String	1-15	Provide by airpay **
successUrl	String	10-255	Valid working Url
failedUrl	String	10-255	Valid working Url – Keep same as Success Url
customvar	String	1-100	Alphanumeric, Space, =
txnsbtype	String	1	For Normal Txn – "" (Blank Value) //For Subscription – 12
wallet	String	1	Numeric
currency	Integer	3	Eg. 356
isocurrency	String	3	Eg. INR
orderid	String	20	Test123
protoDomain	String	10-255	Valid working Url – Keep same as Success Url
isStaging	String	5	true : For Staging , false: For Production
appName	String	0-255	App name value to display on AppBar title
colorCode	String	10	Please pass Hexadecimal color code value – Ex. "0xFF0D47A1"
sb_nextrundate	Date	103	Subscription next run date (length 103, required for enabling subscription) mm/dd/yyyy date must be current date+1 (t+1)
sb_period	D W M Y A	1	Subscription period (length 1, required for enabling subscription) Day/Week/Month/Year/Adhoc
sb_frequency	Numeric	1-999	Subscription frequency (length 1-999, required for enabling subscription)
sb_amount	Numeric	1-6 .2	Subscription amount (length 1-6 .2, required for enabling subscription)
sb_isrecurring	Numeric	1	Is subscription recurring (length 1, required for

			enabling subscription)
sb_recurringcount	Numeric	1-999	Subscription Recurring Count (length 1-999, required for enabling subscription and Is Subscription Recurring is Yes , if recurring count is 999 than subscription is set as never ending end date its apply only for enach transaction)
sb_retryattempts	Numeric	1	Subscription retry attempts (length 1, required for enabling subscription)
sb_maxamount	Numeric	1-6 .2	Maximum amount can charge, and greater than or equal to the amount (Not required)

RESPONSE PARAMETERS

<u>Field</u>	<u>Type</u>	<u>Description</u>
STATUS	Numeric	Transaction Payment Status (required) Success - 200 Transaction in Process - 211 Failed - 400 Dropped - 401 Cancel - 402 Incomplete - 403 Bounced - 405 No Records – 503
TXN_MODE	Alphanumeric	Transaction mode LIVE or Sandbox
TXN_DATE_TIME	Date	Transaction Date and Time
TXN_CURRENCY_CODE	Numeric	Payment Currency (eg:- 356)
CURRENCY_CODE	Alphanumeric	Payment Currency (eg:- inr)
TRANSACTIONID	Numeric	orderid you have send to airpay system (required)
TRANSACTIONAMT	Numeric	Transaction amount (required)
TRANSACTIONSTATUS	Numeric	Transaction status code (eg:- 200(success),402(cancelled))
STATUSMSG	Alphanumeric	Transaction payment status SUCCESS TRANSACTION IN PROCESS FAILED DROPPED CANCEL INCOMPLETE BOUNCED NO RECORDS
MERCHANTTRANSACTIONID	Numeric	Merchant transaction id.
MERCHANTKEY	Numeric	Merchant key.
CUSTOMVAR	Alphanumeric	customvar value received from payment gateway.
AP_SECUREHASH	Alphanumeric	Secure hash generated by Airpay Server.

CHMOD	Alphanumeric	Chanel of Payment done
FULLNAME	Alphanumeric	Customer name.
EMAIL	Alphanumeric	Customer Email
CONTACTNO	Numeric	Customer phone
APTRANSACTIONID	Numeric	airpay transaction reference number (required)
ISRISK	Numeric	If the transaction is risk
BILLEDAMOUNT	Numeric	Billed Amount
CUSTOMERVPA	Alphanumeric	VPA will return if channel is upi
CARDISSUER	Alphanumeric	Card issuer name, this field is available in pg,emi,express payment
CARD_DETAILS	Numeric	Card number masked, this field is available in pg,emi,express payment
BANKNAME	Alphanumeric	Name of the bank, this field is available in pg,emi,pos
CARDCOUNTRY	Alphanumeric	Card issued country, this field is available in pg,emi,pos
CARDTYPE	Alphanumeric	Type of Card Credit/Debit/Unknown
SUBSCRIPTION_ID	Alphanumeric	Airpay Subscription Id
TRANSACTIONREASON	Alphanumeric	Failed Reason

