

Pine Labs Payment Gateway

API Integration Document V2.0

DOCUMENT VERSION HISTORY

Version	Description	Author
1.0	Initial version	Pine Labs
2.0	Updated version	Pine Labs

1.1 OVERVIEW OF PINEPG API

1.1.1 Webservice Type: REST Based API

- Request parameters are a collection of key-value pairs of all properties which are required to be sent to Pine PG API.
- Response returned is in JSON and it contains a collection of key-value pairs of properties which describes about the request sent and its status returned in this response.
- Hash-based (SHA256 or Md5) validations using Secret Key shared with merchant.

1.1.1.1 Request API & URL

ENVIRONMENT	REST API	URL	Calling mode
TEST	Inquiry, Capture, Refund	https://uat.pinepg.in/api/PG/V2	HTTP post method(content-type will be x-www-form-urlencoded)
PROD	Inquiry, Capture, Refund	https://pinepg.in/api/PG/V2	HTTP post method(content-type will be x-www-form-urlencoded)

1.1.1.2 Authentication of API calls

Each request is authenticated based on following:

- Merchant Access code, parameter name `ppc_MerchantAccessCode`. Merchant Access code received will be validated at Pine PG.
- Hash of request parameters using Secret key (provided to merchant during merchant registration). Please refer to HashGenerationDocument for hash generation algorithm. Parameters for passing hash and hash type are:

- ✓ `ppc_DIA_SECRET`
- ✓ `ppc_DIA_SECRET_TYPE`

- Merchant must create the `ppc_DIA_SECRET` using Secret key, `ppc_DIA_SECRET_TYPE` and request parameters list and then these request parameters (including generated `ppc_DIA_SECRET` and `ppc_DIA_SECRET_TYPE`) must be included in request parameters.

1.1.1.3 Request parameters Key-Value pair Table

Contains a collection of key-value pairs of all parameters which are required to be sent to Pine PG API

KEY	VALUE	DETAILS	MANDATORY(M)/OPTIONAL(O)
ppc_MerchantID	Greater than zero int32	Shared by Pine Labs on merchant registration.	M
ppc_Amount	String. Greater than zero, in the least currency denominator (e.g. for INR amount is in Paise)	It is the amount for which payment transaction is required	M(optional for inquiry)
ppc_DIA_SECRET_TYPE	String	Values: 'SHA256' or 'MD5'	M
ppc_DIA_SECRET	String	Hash of response parameters. Please refer to HashGenerationDocument. Pine PG creates the ppc_DIA_SECRET of the response parameters and sends this information in response as ppc_DIA_SECRET. And you can use this ppc_DIA_SECRET value in Pine PG Response returned from Pine PG API to match with new SECRET generated at your side using other response parameters. And if these two Secrets don't match then data is not Authentic.	M
ppc_UniqueMerchantTxnID	Integer	Merchant transaction id	M(Merchant txn id posted during sale for inquiry and for Refund this will be unique txn id other than sale txn id)
ppc_MerchantAccessCode	String	Shared by Pine Labs on merchant registration.	M

ppc_PinePGTransaction ID	Int64 value, it is required for 'Capture', 'Refund' and 'Inquiry' transactions only. So, it must not be supplied in 'Pre Authorization and 'Purchase' transactions.	<p>This is the Pine_PG_Transaction_ID generated by Pine Labs against the orderID of merchant for 'PreAuth' or 'Purchase' type.</p> <p>This is sent to the merchant in response of this transaction.</p> <p>This value is used as input parameter for dependent transactions like 'Capture', 'Refund', 'Inquiry'.</p> <p>This acts as a parent transactionID (only in case of Purchase type)</p>	M(optional for inquiry)
ppc_TransactionType	Integer	<p>Values:</p> <p>3 for 'Inquiry', 9 for 'Capture', 10 for 'Refund'</p>	M
ppc_CurrencyCode	Integer	Use-356 for INR	M(optional for inquiry)
ppc_IimeiProductDetails	Base64 String	This field will be used to pass the product-imei details while doing refund of brand emi transaction. Only those imei's will be unblocked which is present in field. Value of field is Base64 of JSON String of product imei details array.	O

Sample value of ppc_IimeiProductDetails :

Base64 String

W3sicHJvZHVjdF9jb2RlljoiNzgwMyIsImltZWlfbm8iOiI5ODQ4NDg4ODQ0In0sIHsicHJvZHVjdF9jb2RlljoiGlb21pX3BybyIsImltZWlfbm8iOiI5ODQ4NDg4Mjg0NSJ9XQ==

Decoded Base64 string

```
[  
  {  
    "product_code": "7803",  
    "imei_no": "9848488844"  
  },  
  {  
    "product_code": "xiaomi_pro",  
    "imei_no": "98484882845"  
  }  
]
```

Hash of request parameters. Please refer to HashGenerationDocument for hash generation algorithm.

Sample request data:-

For inquiry:

ppc_DIA_SECRET=DECF2D9D903BACAF85DA88B5686BC0FB6AB7681673E99191C86B4DC78C27277F&ppc_DIA_SECRET_TYPE=SHA256&ppc_MerchantAccessCode=58ad283b-7c93-4f19-b072-b17e8ecfb20e&ppc_MerchantID=2415&ppc_TransactionType=3&ppc_UniqueMerchantTxnID=100000000000007687

For Refund:

ppc_Amount=10000&ppc_CurrencyCode=356&ppc_DIA_SECRET=1781AE06CAF31A32B79F31B82B140484DD9C1B95CC0DD26C1CB4F1AE0D13C066&ppc_DIA_SECRET_TYPE=SHA256&ppc_MerchantAccessCode=58ad283b-7c93-4f19-b072-b17e8ecfb20e&ppc_MerchantID=2415&ppc_PinePGTransactionID=87943&ppc_TransactionType=10&ppc_UniqueMerchantTxnID=100000000000007687&ppc_ImeiProductDetails=W3sicHJvZHVjdF9jb2RlljojNzgwMyIsImltZWlfbm8iOiI5ODQ4NDg4ODQ0In0sIHRlcHJvZHVjdF9jb2RlljoieGlhb21pX3BybyIsImltZWlfbm8iOiI5ODQ4NDg4Mjg0NSJ9XQ==

1.1.1.4 Response parameters Key-Value pair Table

Contains a collection of key-value pairs of all parameters which Pine PG will post back in response.

Response parameters for Refund & Inquiry API

KEY	VALUE	DETAILS
ppc_MerchantID	Greater than zero int32	MID through which transaction has been initiated
ppc_MerchantAccessCode	String	MerchantAccessCode used in API request
ppc_UniqueMerchantTxnID	Int32 value	In Response you can find the Merchant Unique transaction ID which you have sent as one of the parameter
ppc_PinePGTxnStatus	Integer	Please refer Pine PG Transaction Status Table
ppc_TransactionCompletionDate	DateTime	The date-time of the transaction completion at Pine PG server.
ppc_Amount	String Greater than zero, in the least currency denominator (e.g. for INR amount is in Paise)	It is the amount for which payment transaction is being done.
ppc_TxnResponseCode	Integer	Represent the response status of the API call made to PinePG. For the response status of parent transaction refer ppc_ParentTxnResponseCode and ppc_Parent_TxnStatus
ppc_TxnResponseMessage	String	It is the text corresponding to ppc_TxnResponseCode All ppc_TxnResponseCode and their ppc_TxnResponseMessage. Please refer to Transaction Response Codes and their Meanings (Messages) Table
ppc_AcquirerName	String	Acquirer Name
ppc_PinePGTransactionID	Integer	PinePG transaction ID merchant posted in request.

ppc_DIA_SECRET	String	Hash of response parameters
ppc_DIA_SECRET_TYPE	String	'SHA256' or 'MD5' and will be the same which is passed in ppc_DIA_SECRET_TYPE parameter of request
ppc_MerchantReturnURL	String	Return Url which you have posted in request
ppc_EMITenureMonth	Integer	Tenure months of EMI transaction
ppc_EMIInterestRatePercent	Integer	Interest rate charged by bank multiplied by 1000
ppc_EMIProcessingFee	Long	Processing Fee of EMI in paisa
ppc_EMIPrincipalAmount	Long	Principal EMI amount in paisa
ppc_EMIAmountPayableEachMonth	Long	EMI Monthly installment
ppc_ProductCode	Long	Merchant product Code in case of Brand EMI transaction.
ppc_ProductDisplayName		
ppc_Is_BankEMITransaction	Bool	Flag to indicate bank EMI transaction
ppc_Is_BrandEMITransaction	Bool	Flag to indicate brand EMI transaction
ppc_CapturedAmount	Integer	Total amount captured
ppc_RefundedAmount	Integer	Total amount refunded
ppc_EMICashBackType	Integer	Its value will be 0, 1, 2 and 3 0- Standard EMI 1- Pre cash back 2- Post cash back 3- Instant Discount
ppc_EMIIssuerDiscCashBackPercent	Integer	Issuer Disc or Cash percent applicable in EMI transaction multiplied by 10000
ppc_EMIIssuerDiscCashBackFixedAmt	Long	Issuer Fixed Disc or Cash Amount applicable in EMI transaction in paisa

ppc_EMIMerchantDiscCashBackPercent	Integer	Merchant Disc or Cashpercent applicable in EMI transaction multiplied by 10000
ppc_EMIMerchantCashBackFixedAmt	Long	Merchant Fixed Disc or Cash Amount applicable in EMI

		transaction in paisa
ppc_EMITotalDiscCashBackPercent	Integer	Total Disc or Cash percent applicable in EMI transaction multiplied by 10000
ppc_EMITotalDiscCashBackPercentFixedAmt	Integer	TotalFixed Disc or Cashpercent applicable in EMI transaction in paisa
ppc_EMITotalDiscCashBackAmt	Integer	Total Disc or Cash amount applicable in EMI transaction in paisa
ppc_EMIAAdditionalCashBack	Integer	Additional cashback applicable in EMI transaction in paisa
ppc_EMIAAdditionalRewardPoints	Integer	Additional Reward point applicable in EMI transaction. Please refer Pine PG Transaction Status Table
ppc_PaymentMode	Integer 1:CREDIT/DEBIT CARD 3:NET BANKING 4:EMI	Payment mode selected for doing the purchase transaction.
ppc_ADDOnInstantDiscAmt	Integer	Addon Instant disc amt (Not valid for PG)
ppc_OriginalTxnAmt	String. Greater than zero, in the least currency denominator (e.g.forINRRamountisinPaise)	This the transaction amount for which purchase transaction was done
ppc_Parent_TxnStatus	Integer, Status of the Purchase transaction	Please refer Pine PG Transaction Status Table. This field should be mapped for the response status of Parent

		purchase transaction for which API call is made.
Ppc_ParentTxnResponseCode	Integer, Response code of the Purchase transaction	Represent the response of the API request and various integer codes is returned based on the transaction result. This field should be mapped for the response status of Parent purchase transaction for which API call is made.
ppc_ParentTxnResponseMessage	String, Response message of purchase transaction	It is the text corresponding to ppc_TxnResponseCode. All ppc_TxnResponseCode and their ppc_TxnResponseMessage. Please refer to Transaction Response Codes and their Meanings (Messages) Table
ppc_ProgramType	Integer	Values: 106 for Brand EMI
ppc_MaskedCardNumber	String	Masked value of card used for purchase transaction

Note:

1. The status of the Purchase transaction for which an Inquiry API call is made should be incurred from parameters ppc_Parent_TxnStatus and ppc_ParentTxnResponseCode.

Transaction	ppc_Parent_TxnStatus	ppc_ParentTxnResponseCode
Successful Parent Purchase Transaction	4	1

NOTE: For any Inquiry transaction of purchase or refund, ppc_PinePGTxnStatus will always be 7 whether parent transaction is success or failure.

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e.g. {"ppc_MerchantID":"2415","ppc_MerchantAccessCode":"4e919e33-e940-49a7-a2ba-ece896b9800a","ppc_PinePGTxnStatus":"7","ppc_TransactionCompletionDateTime":"31/08/2017 05:27:20 PM","ppc_UniqueMerchantTxnID":"107028531080501543","ppc_Amount":"9000000","ppc_TxnResponseCode":"1","ppc_TxnResponseMessage":"SUCCESS","ppc_PinePGTransactionID":"102480","**ppc_CapturedAmount**":"9000000","ppc_RefundedAmount":"0","**ppc_ParentTxnResponseCode**":"1","**ppc_Parent_TxnStatus**":"4","ppc_ParentTxnResponseMessage":"SUCCESS","ppc_AcquirerName":"AMEX","ppc_DIA_SECRET":"72FA164057D4C6E6D0754C16C964566686E63E3BEB3E64BCFB022D41158F777C","ppc_DIA_SECRET_TYPE":"SHA256","ppc_EMITenureMonth":"3","ppc_EMITInterestRatePercent":"12.00","ppc_EMITPrincipalAmount":"9000000","ppc_EMITAmountPayableEachMonth":"3060199","ppc_ProductCode":"24","ppc_Is_BrandEMITransaction":"1","ppc_EMITCashBackType":"2","ppc_EMITIssuerDiscCashBackPercent":"0.00","ppc_EMITIssuerDiscCashBackFixedAmt":"0","ppc_EMITMerchantDiscCashBackPercent":"0.00","ppc_EMITMerchantCashBackFixedAmt":"0","ppc_EMITotalDiscCashBackPercent":"4.00","ppc_EMITotalDiscCashBackAmt":"360000","ppc_PaymentMode":"1","ppc_IssuerName":"AMEX"}

Other possible response combinations for an Inquiry call are mentioned below:

ppc_Parent PinePGTxnStatus	ppc_ParentTxnResponseCode	Transaction State	Transaction type
6	1	Full Refund success	Full Refund
9	1	Partial Refund success	Partial Refund
1	-1	Failure	Purchase
1	1	Initiated	Purchase
-7	Any code	Failure - Payment / Full Refund / Partial Refund failed	Payment / Full Refund / Partial Refund

2. If Refund is for an Aggregator Purchase transaction. Refund can be fully refund or partial refund.

Transaction	ppc_PinePGTxnStatus	ppc_TxnResponseCode
Successful Refund initiated for Parent Purchase Transaction	1	2

Sample Response

```
{
  "ppc_MerchantID": "4651",
  "ppc_MerchantAccessCode": "2b13fc39-cf42-4f9e-bf7b-3458a97f9ca4",
  "ppc_PinePGTxnStatus": "1",
  "ppc_TransactionCompletionDateTime": "12/01/2021 03:12:46 PM",

```

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```
"ppc_UniqueMerchantTxnID": "4651_1201202115124604102",  
"ppc_Amount": "100",  
"ppc_TxnResponseCode": "2",  
"ppc_TxnResponseMessage": "REFUND PROCESS INITIATED",  
"ppc_PinePGTransactionID": "0",  
"ppc_CapturedAmount": "0",  
"ppc_RefundedAmount": "0",  
"ppc_DIA_SECRET":  
"9F629518EF305D5A423922A9E99E2B6F46C890BBF7FED39FBCEA49B8F6D15F2C",  
"ppc_DIA_SECRET_TYPE": "SHA256",  
"ppc_Parent_TxnStatus": "4",  
"ppc_ParentTxnResponseCode": "1",  
"ppc_ParentTxnResponseMessage": "SUCCESS"  
}
```


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3. If Refund is for an Non-Aggregator Purchase transaction. Refund can be fully refund or partial refund

Transaction	ppc_PinePGTxnStatus	ppc_TxnResponse Code	Remarks
Successful Fully Refund done for parent purchase transaction	6	1	
Successful partial Refund done for parent purchase transaction	9	1	After doing multiple partial refund ppc_PinePGTxnStatus will change from 9 to 6 when total sum of partial refund is equal to the captured amount. In case of response of last transaction, ppc_Parent_TxnStatus=6

Fully Refunded

Sample Response

```
{
  "ppc_MerchantID": "4651",
  "ppc_MerchantAccessCode": "2b13fc39-cf42-4f9e-bf7b-3458a97f9ca4",
  "ppc_PinePGTxnStatus": "6",
  "ppc_TransactionCompletionDateTime": "12/01/2021 03:12:46 PM",
  "ppc_UniqueMerchantTxnID": "4651_1201202115124604102",
  "ppc_Amount": "100",
  "ppc_TxnResponseCode": "1",
  "ppc_TxnResponseMessage": "SUCCESS",
  "ppc_PinePGTransactionID": "78612345",
  "ppc_CapturedAmount": "0",
  "ppc_RefundedAmount": "100",
  "ppc_DIA_SECRET":
"9F629518EF305D5A423922A9E99E2B6F46C890BBF7FED39FBCEA49B8F6D15F2C",
  "ppc_DIA_SECRET_TYPE": "SHA256",
  "ppc_Parent_TxnStatus": "6",
  "ppc_ParentTxnResponseCode": "1",
  "ppc_ParentTxnResponseMessage": "SUCCESS"
}
```

Partial Refunded

Sample Response

```
{
```

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```

"ppc_MerchantID": "4651",
"ppc_MerchantAccessCode": "2b13fc39-cf42-4f9e-bf7b-3458a97f9ca4",
"ppc_PinePGTxnStatus": "6",
"ppc_TransactionCompletionDateTime": "12/01/2021 03:12:46 PM",
"ppc_UniqueMerchantTxnID": "4651_1201202115124604102",
"ppc_Amount": "100",
"ppc_TxnResponseCode": "1",
"ppc_TxnResponseMessage": "SUCCESS",
"ppc_PinePGTransactionID": "78612345",
"ppc_CapturedAmount": "0",
"ppc_RefundedAmount": "100",
"ppc_DIA_SECRET":
"9F629518EF305D5A423922A9E99E2B6F46C890BBF7FED39FBCEA49B8F6D15F2C",
"ppc_DIA_SECRET_TYPE": "SHA256",
"ppc_Parent_TxnStatus": "9",
"ppc_ParentTxnResponseCode": "1",
"ppc_ParentTxnResponseMessage": "SUCCESS"
}

```

4. Inquiry needs to be performed for the Refund Initiated

Transaction	ppc_Par-ent_TxnStatus	ppc_ParentTxnRe-sponseCode	Remark
Successful Inquiry of an Initiated Refund for fully Refund	6	1	
Successful Inquiry of an Initiated Refund for partial Refund transaction	9	1	After doing multiple partial refund ppc_PinePGTxnStatus will change from 9 to 6 when total sum of partial refund is equal to the captured amount. In case of response of last transaction, ppc_Parent_TxnStatus =6

Inquiry of Refunded transaction (Transaction can be aggregator or non-Aggregator)

Fully Refunded

```

{"ppc_MerchantID":"4651","ppc_MerchantAccessCode":"2b13fc39-cf42-4f9e-bf7b-3458a97f9ca4","ppc_PinePGTxnStatus":"7","ppc_TransactionCompletionDateTime":"12/01/2021 03:15:03 PM","ppc_UniqueMerchantTxnID":"4651_1201202115124604102","ppc_Amount":"100","ppc_TxnResponseCode":"1","ppc_TxnResponseMessage":"SUCCESS","ppc_PinePGTransactionID":"321410","ppc_CapturedAmount":"0","ppc_RefundedAmount":"100","ppc_AcquirerName":"HDFC","ppc_DIA_SECRET":"0EED21AF99DF2C1C48EC923FE64E7177A5CCA2B022D901E4BBE72FE55E18D470","ppc_DIA_SECRET_TYPE":"SHA256","ppc_PaymentMode":"1","ppc_Parent_TxnStatus":"6","ppc_ParentTxnResponseCode":"1","ppc_ParentTxnResponseMessage":"SUCCESS","ppc_RRN":"100110000464"}

```

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Note: In case of amount is fully refunded (it can be done via one transaction or multiple transaction) then **ppc_Parent_TxnStatus=6**

Partial Refunded

```
{ "ppc_MerchantID": "4651", "ppc_MerchantAccessCode": "2b13fc39-cf42-4f9e-bf7b-3458a97f9ca4", "ppc_PinePGTxnStatus": "7", "ppc_TransactionCompletionDateTime": "12/01/2021 03:15:03 PM", "ppc_UniqueMerchantTxnID": "4651_1201202115124604102", "ppc_Amount": "100", "ppc_TxnResponseCode": "1", "ppc_TxnResponseMessage": "SUCCESS", "ppc_PinePGTransactionID": "321410", "ppc_CapturedAmount": "0", "ppc_RefundedAmount": "100", "ppc_AcquirerName": "HDFC", "ppc_DIA_SECRET": "0EED21AF99DF2C1C48EC923FE64E7177A5CCA2B022D901E4BBE72FE55E18D470", "ppc_DIA_SECRET_TYPE": "SHA256", "ppc_PaymentMode": "1", "ppc_Parent_TxnStatus": "9", "ppc_ParentTxnResponseCode": "1", "ppc_ParentTxnResponseMessage": "SUCCESS", "ppc_RRN": "100110000464" }
```

Note: In case of amount is partial refunded (it can be one transaction or multiple transaction) then **ppc_Parent_TxnStatus=9**

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