DOCUMENT TYPE:

USER MANUAL

DOCUMENT TITLE:

COHERENTPLUS – Guideline – Postman User Manual

TARGET AUDIENCE:

Project management team, software, and hardware development team. Internal use only

(PRIVATE AND CONFIDENTIAL)

2025

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DOCUMENT VERSION

Version	Date	Name of Author	Description
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1 Abstract

This document shows the purpose of using a postman.

SCOPE:

1) Postman
2) Sha512

2 Overview

2.1 Postman

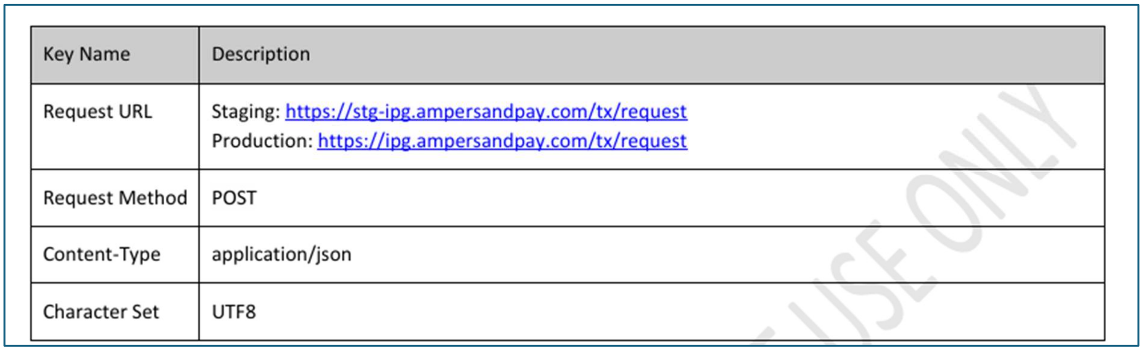
Postman is a platform for users to test their payment API by POST or GET.

You can either download or use the online version of postman

https://www.postman.com/

2.1.1 POST

Based on your request properties, you can either choose POST or GET, in this case we will be using POST as is mentioned In request method.



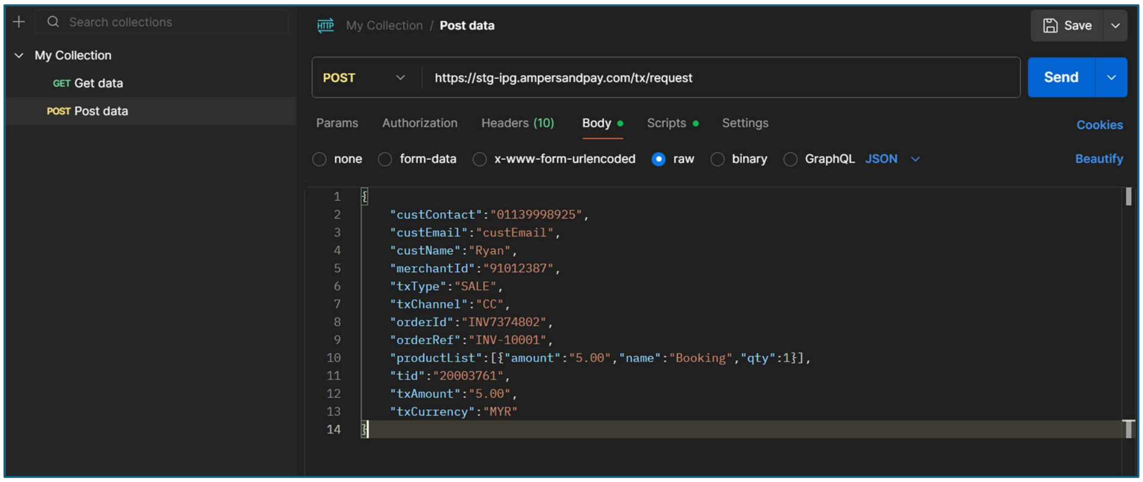
Key Name	Description
Request URL	Staging: https://stg-ipg.ampersandpay.com/tx/request Production: https://ipg.ampersandpay.com/tx/request
Request Method	POST
Content-Type	application/json
Character Set	UTF8

Figure 2.1.1 request properties

2.1.2 POST Body

And by referring to your request parameter, it will show which key are in the body and which is in the header.

For body, click body and then raw in JSON format, so that you can key in your key and values.



POST https://stg-ipg.ampersandpay.com/tx/request

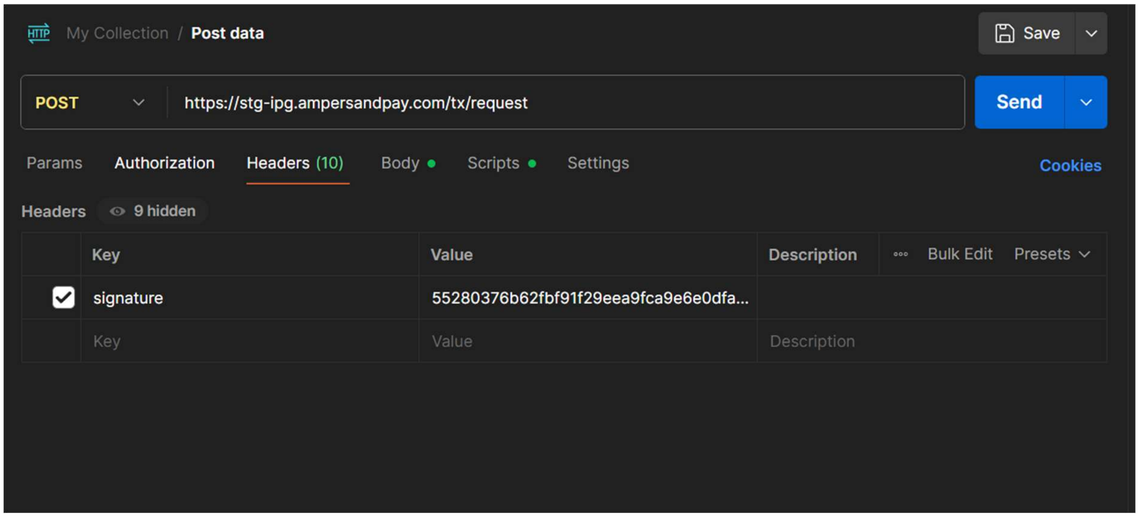
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
    "custContact":"01139998925",
    "custEmail":"custEmail",
    "custName":"Ryan",
    "merchantId":"91012387",
    "txType":"SALE",
    "txChannel":"CC",
    "orderId":"INV7374802",
    "orderRef":"INV-10001",
    "productList":[{"amount":"5.00","name":"Booking","qty":1}],
    "tid":"20003761",
    "txAmount":"5.00",
    "txCurrency":"MYR"
}
```

Figure 2.1.2 JSON Body Raw format

2.1.3 POST Header

Next go to headers, and type signature in the key section, then paste your key signature in the value section. (refer to 2.2 for key signature).



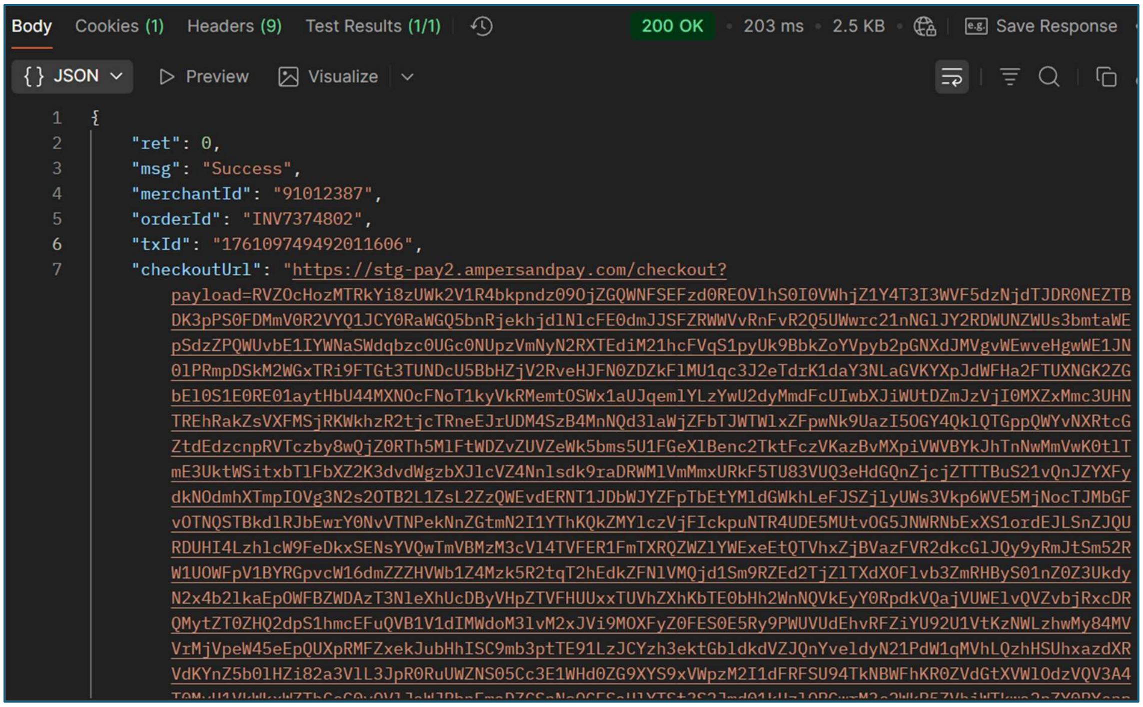
POST https://stg-ipg.ampersandpay.com/tx/request

	Key	Value	Description
☑	signature	55280376b62fbf91f29eea9fca9e6e0dfa...	
	Key	Value	Description

2.1.4 POSTING

After you keyed in all value and click send, you will retrieve your response message, and it will tell you whether is successful or not.

You will get your payment URL once is successful.

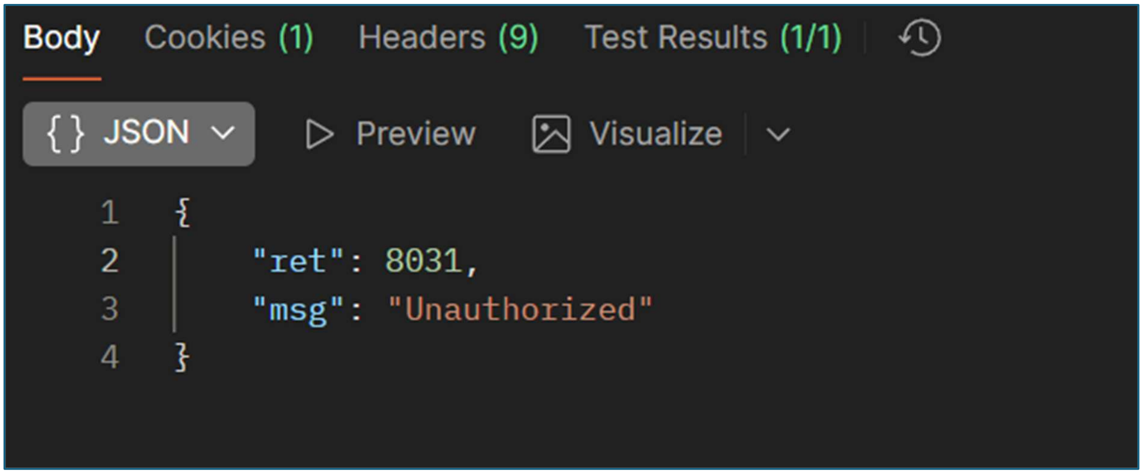


```
{
    "ret": 0,
    "msg": "Success",
    "merchantId": "91012387",
    "orderId": "INV7374802",
    "txId": "176109749492011606",
    "checkoutUrl": "https://stg-pay2.ampersandpay.com/checkout?
        payload=RVZOcHozMTRkYi8zUWk2V1R4bkpndz09OjZGQWNFSEFzd0REOVlhS0I0VWhjZ1Y4T3I3WVF5dzNjdTJDR0NEZTB
        DK3pPS0FDMmV0R2VYQ1JCY0RaWGQ5bnRjekhjdlNlcFE0dmJJSFZRWWVvRnFvR2Q5UWwrc21nNGlJY2RDWUNZWUs3bmtaWE
        pSdzZPQWUvbE1IYWNaSWdqbzc0UGc0NUpzVmNyN2RXTEdiM21hcFVqS1pyUk9BbkZoYVpyb2pGNXdJMVgvWEwveHgwWE1JN
        01PRmpDSkM2WGxTRi9FTGt3TUNDcU5BbHZjV2RveHJFN0ZDZkFlMU1qc3J2eTdrK1daY3NLaGVKYXpJdWFHa2FTUXNGK2ZG
        bEl0S1E0RE01aytHbU44MXNOcFNoT1kyVkRMemtOSWx1aUJqemlYLzYwU2dyMmdFcUIwbXJiWUtDZmJzVjI0MXZxMmc3UHN
        TREhRakZsVXFMSjRKWkhzR2tjcTRneEJrUDM4SzB4MnNQd3laWjZFbTJWTWlxZFpwNk9UazI5OGY4QklQTGppQWYvNXRtcG
        ZtdEdzcnpRVTczby8wQjZ0RTh5MlFtWDZvZUVZeWk5bms5U1FGeXlBenc2TktFczVKazBvMXpiVWVBYkJhTnNwMmVwK0tlT
        mE3UktWSitxbTlFbXZ2K3dvdWgzbXJlcVZ4Nnlsdk9raDRWMlVmMmxURkF5TU83VUQ3eHdGQnZjcjZTTTBuS21vQnJZYXFy
        dkNOdmhXTmpIOVg3N2s2OTB2L1ZsL2ZzQWEvdERNT1JDbWJYZFpTbEtYMldGWkhLeFJSZjlyUWs3Vkp6WVE5MjNocTJMbGF
        vOTNQSTBkdlRJbEwrY0NvVTNPekNnZGtmN2I1YThKQkZMYlczVjFIckpuNTR4UDE5MUtvOG5JNWRNbExXS1ordEJLSnZJQU
        RDUHI4LzhlcW9FeDkxSENsYVQwTmVBMzM3cVl4TVFER1FmTXRQZWZlYWExeEtQTVhxZjBVazFVR2dkcGlJQy9yRmJtSm52R
        W1UOWFpV1BYRGpvcW16dmZZZHVWb1Z4Mzk5R2tqT2hEdkZFNlVMQjd1Sm9RZEd2TjZlTXdXOFlvb3ZmRHByS01nZ0Z3Ukdy
        N2x4b2lkaEpOWFBZWDAzT3NleXhUcDByVHpZTVFHUUxxTUVhZXhKbTE0bHh2WnNQVkEyY0RpdkVQajVUWElvQVZvbjRxcDR
        QMytZT0ZHQ2dpS1hmcEFuQVB1V1dIMWdoM3lvM2xJVi9MOXFyZ0FES0E5Ry9PWUVUdEhvRFZiYU92U1VtKzNWLzhwMy84MV
        VrMjVpeW45eEpQUXpRMFZxekJubHhISC9mb3ptTE91LzJCYzh3ektGbldkdVZJQnYveldyN21PdW1qMVhLQzhHSUhxazdXR
        VdKYnZ5b01HZi82a3VlL3JpR0RuUWZNS05Cc3E1WHd0ZG9XYS9xVWpzM2I1dFRFSU94TkNBWFhKR0ZVdGtXVWlOdzVQV3A4
```

Figure 2.1.4 POSTING URL

2.1.5 Error

When there is any error, it will be displayed too, and you can refer to your technical document on which error it has occurred. In this case is invalid key signature (8031).

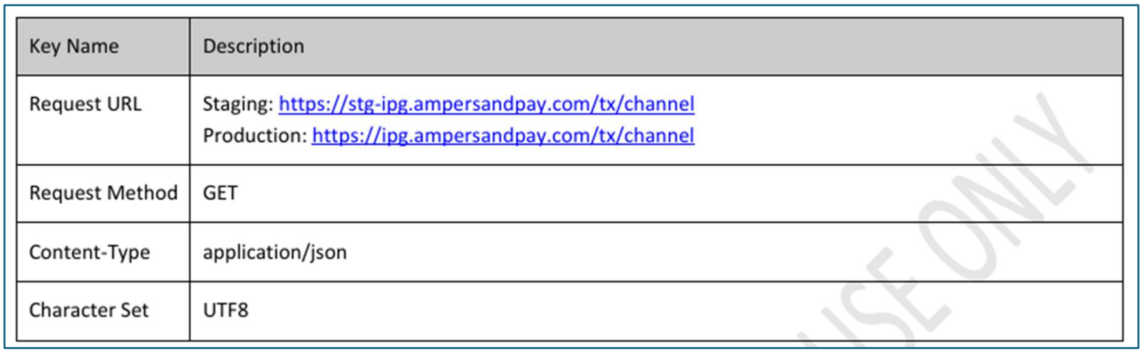


```
{
    "ret": 8031,
    "msg": "Unauthorized"
}
```

Figure 2.1.5 invalid key signature

2.1.6 GET

GET is the same as POST, just check your request properties on the request method.



Key Name	Description
Request URL	Staging: https://stg-ipg.ampersandpay.com/tx/channel Production: https://ipg.ampersandpay.com/tx/channel
Request Method	GET
Content-Type	application/json
Character Set	UTF8

Figure 2.1.6 GET in request properties

3 Sha512

3.1 SHA512 Online Tools

SHA-512 (Secure Hash Algorithm 51 55280376b62fbf91f29eea9fca9e6e0dfa21abfb149ba52c3be671f96a96dc0eefd3375f0b521b6806705d7b931eea7fed91ad20d28e879eef0b3fc9cfb4f49a2-bit) is a cryptographic hash function that converts data into a fixed-length, 512-bit (64-byte) string of characters.

SHA-512 is often used to generate a secure signature (hash) from transaction details and a secret key.

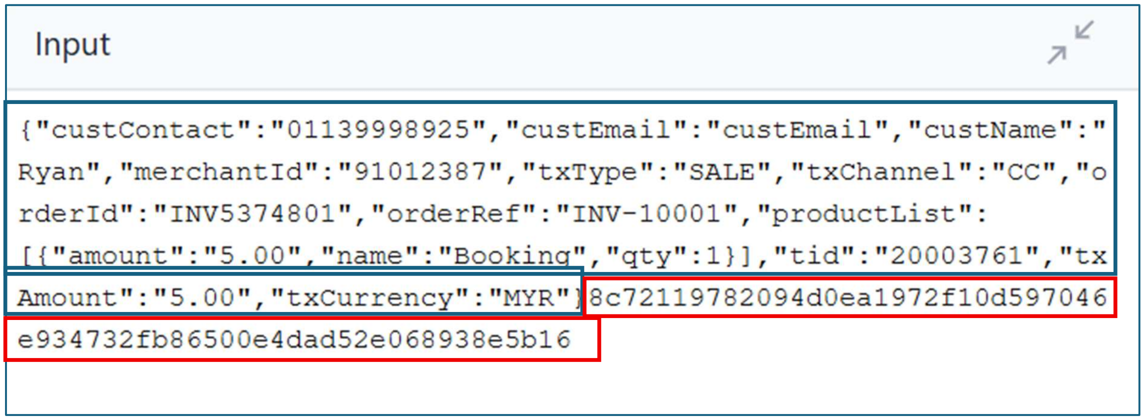
You can get your key signature in this link: SHA512 - Online Tools

3.1.1 Key Signature

To get the generated SHA512 key signature, u have to combind you json body and your integration key:

[{JSON RAW BODY} + integration key]

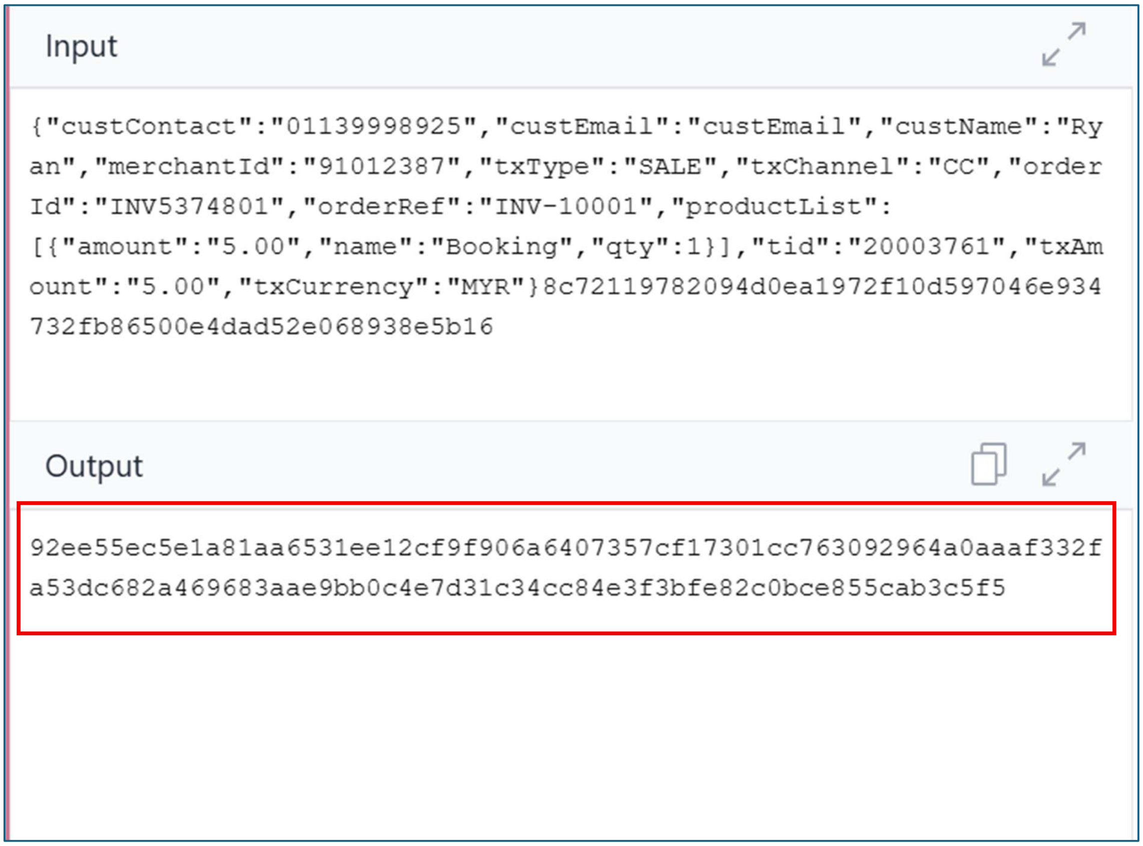
Make sure there is no space in between any gaps.



```
{"custContact":"01139998925","custEmail":"custEmail","custName":"
Ryan","merchantId":"91012387","txType":"SALE","txChannel":"CC","o
rderId":"INV5374801","orderRef":"INV-10001","productList":
[{"amount":"5.00","name":"Booking","qty":1}],"tid":"20003761","tx
Amount":"5.00","txCurrency":"MYR"}8c72119782094d0ea1972f10d597046
e934732fb86500e4dad52e068938e5b16
```

Figure 3.1.1 key signature format

After that it will generate the output, and that output is the key signature for you to put into your headers section.



Input

```
{"custContact":"01139998925","custEmail":"custEmail","custName":"Ry
an","merchantId":"91012387","txType":"SALE","txChannel":"CC","order
Id":"INV5374801","orderRef":"INV-10001","productList":
[{"amount":"5.00","name":"Booking","qty":1}],"tid":"20003761","txAm
ount":"5.00","txCurrency":"MYR"}8c72119782094d0ea1972f10d597046e934
732fb86500e4dad52e068938e5b16
```

Output

```
92ee55ec5e1a81aa6531ee12cf9f906a6407357cf17301cc763092964a0aaaf332f
a53dc682a469683aae9bb0c4e7d31c34cc84e3f3bfe82c0bce855cab3c5f5
```

Figure 3.1.1 Key signature output

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