A photograph showing two people at a desk. One person is pointing at a computer monitor displaying code, while the other is holding a pen over a document. The scene is brightly lit, suggesting a modern office environment.

# BPAY APIs Sandbox Testing Guide

---

Getting started in the Sandbox

*Release: June 2021*

# BPAY Payments APIs



The API testing guide has been split into three sections. Click on a tile to navigate to the desired section



## 1. Validation Services and Batch APIs

- Retrieve BPAY Biller Details
- Validate BPAY Payment
- Generate BPAY Batch File
- Generate BPAY CRN



## 2. Payment API

- Submit BPAY Payment: Single and Bulk Payments



## 3. Back-office APIs

- Manage BPAY Biller: Create Biller Changes



# Validation services

- Log in to the [BPAY Group Developer Portal](#) – create an account if you don't have one already
- On the top navigation bar, select “**API Documentation**”
- Select the BPAY Payments API you would like to try

The following pages will guide you through each of the BPAY APIs:

- **Retrieve BPAY Biller Details:** look up Biller Code or Biller Name
- **Validate BPAY Payment:** send payment information to get it validated
- **Generate BPAY Batch File:** provide a list of BPAY payments to generate a batch file in a bank ready format for processing
- **Generate BPAY CRN:** provide Biller details and relevant parameters to generate a list of Customer Reference Numbers (CRNs or iCRNs)

**Note:** There is no need to create an App or Authorise a key when you want to try our APIs with the Developer Portal user interface.

**Developers:** Create an App with its Client ID and Secret, to perform your testing using Postman, on the Sandbox endpoint.

## API Documentation ▼

Retrieve BPAY Biller Details

Validate BPAY Payment

Submit BPAY Payment

Generate BPAY CRN

Generate BPAY Batch File

Manage BPAY Biller

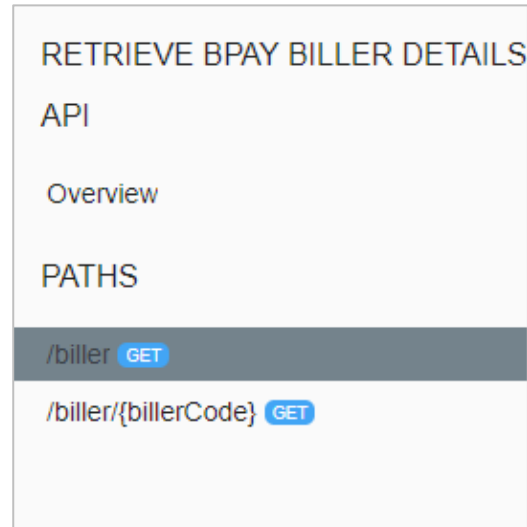
Guides

Postman Collections



Look up by **Biller Name**: Go to “API Documentation”, select “Retrieve BPAY Biller Details”

1. On the left hand side, select Path “/biller (GET)”



2. Enter the sample Biller Names in the “searchText” request. Type in the exact value as it is case sensitive. Any other entry will return **404 Not Found**.

Try with these Biller Names:

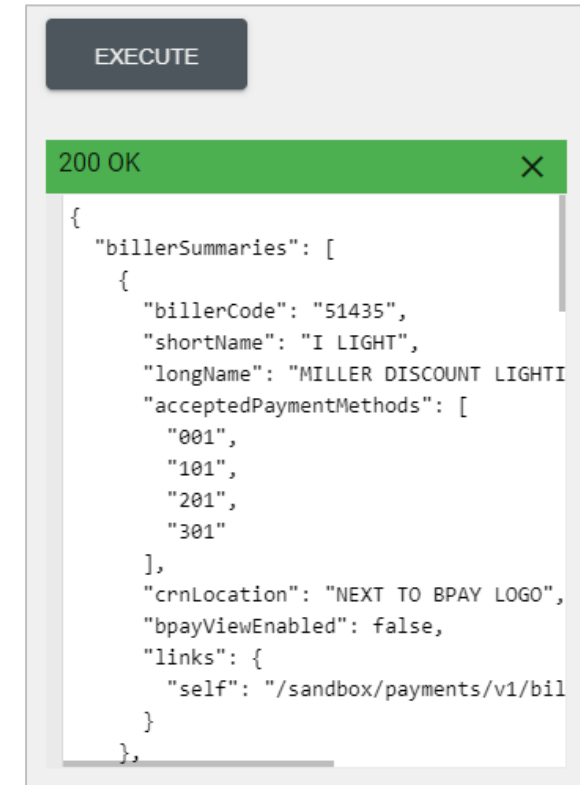
- harrison
- miller
- miller, page=2
- zyl
- C (returns error **400 Bad Request**)

### Request parameters

searchText  
harrison

page  
integer

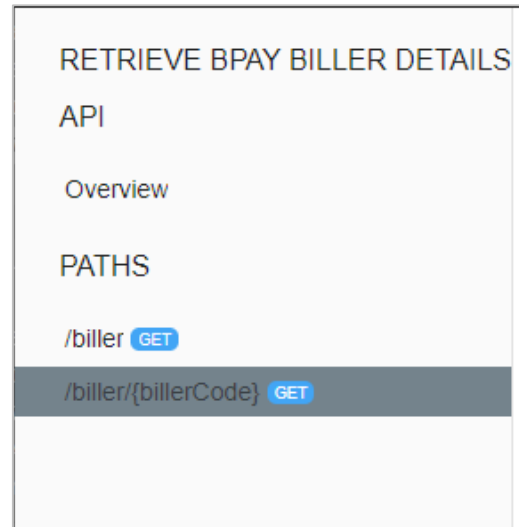
3. Click “Execute” to see the API response





Look up by **Biller Code**: Go to “API Documentation”, select “Retrieve BPAY Biller Details”

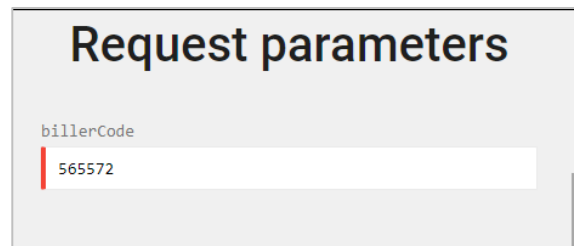
1. On the left hand side, select Path “/biller/{billercode} (GET)”



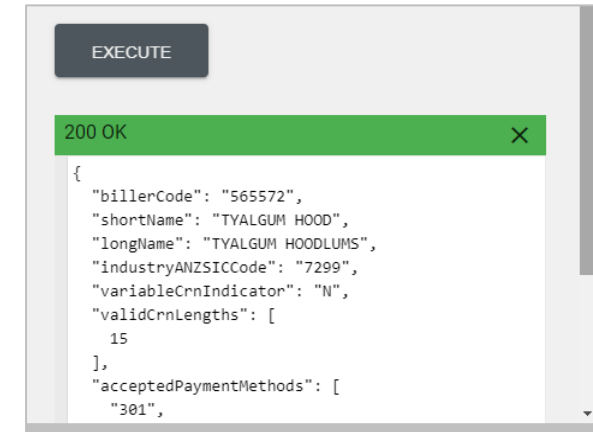
2. Enter the sample Biller Codes in the “billerCode” request. Any other Biller Code will return **404 Not Found**.

Try these Biller Codes:

- 565572
- 1313
- 100008
- 65284
- 65268
- 697276

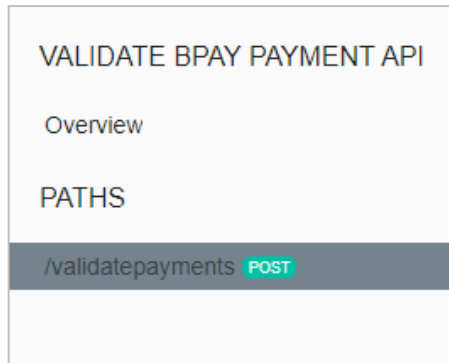


3. Click “Execute” to see the API response

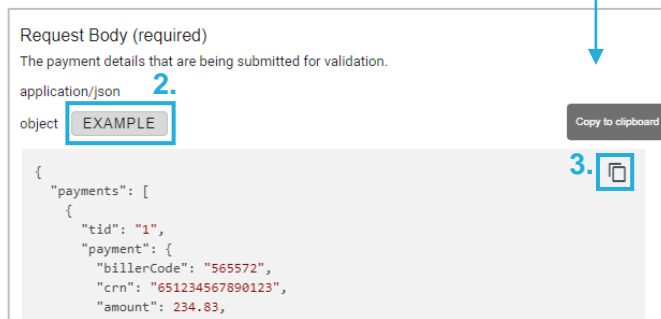


Go to “**API Documentation**”, select “**Validate BPAY Payment**”

1. On the left hand side, select Path “**/validatepayments (POST)**”



2. Under **Request Body (required)**, click “**Example**”



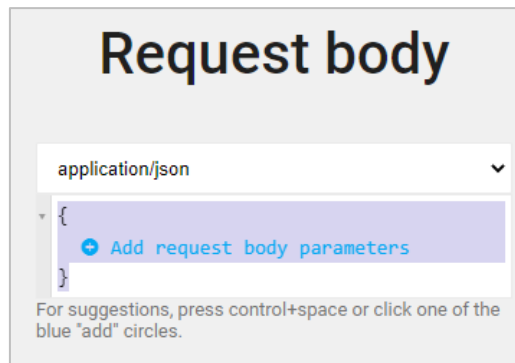
3. Copy the JSON request example to the clipboard using the “**copy icon**”

There is **only one** example to try Validate Payment

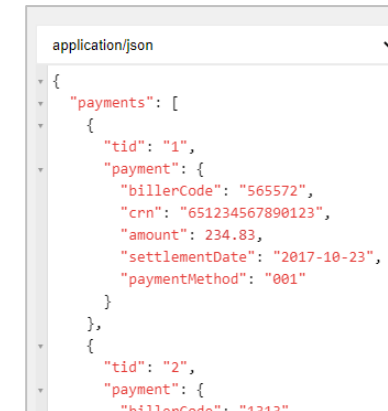
If any of the content in the request is changed, like Amount, payment method, TID.... the response will be **404 not found**

Detailed test cases and more information [in this document](#) to download from the Developer Portal

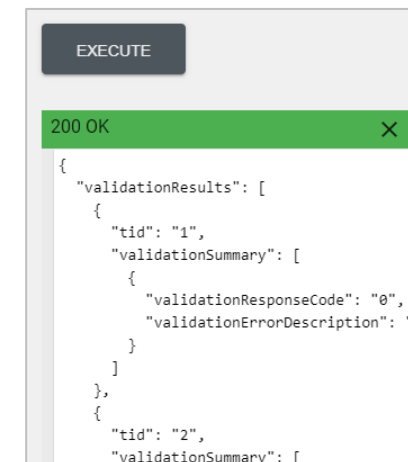
4. On the right hand side, click in the **Request body** box, and select all of the text in the box – click anywhere in the text box, and press CTRL-A – the selection is highlighted in blue



5. Paste the text of the request by pressing CTRL-V. The requests text shows in red.

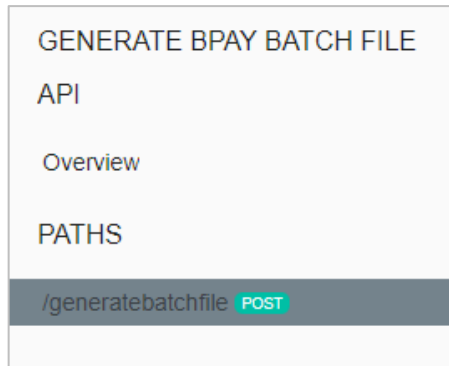


6. Click “**Execute**” to see the API response

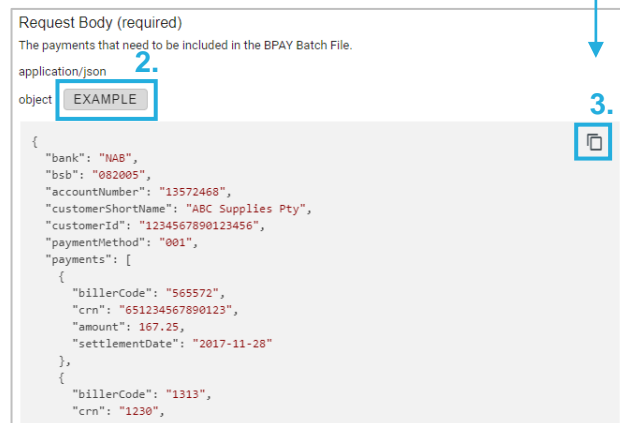


Go to “**API Documentation**”, select “**Generate BPAY Batch File**”

1. On the left hand side, select Path “**/generatebatchfile (POST)**”



2. Under **Request Body (required)**, click “**Example**”

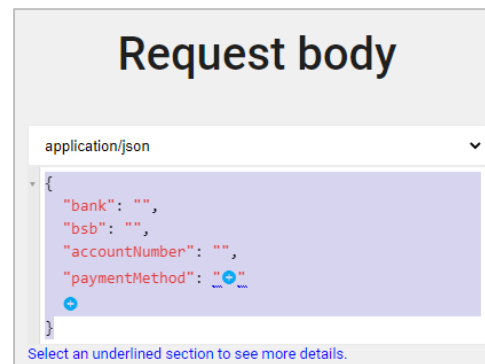


3. Copy the JSON request example to the clipboard using the “**copy icon**”

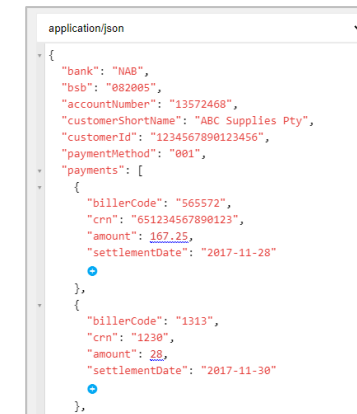
There is **only one** example to try Generate Batch

If any of the content in the request is changed, the API response will be **404 Not Found**

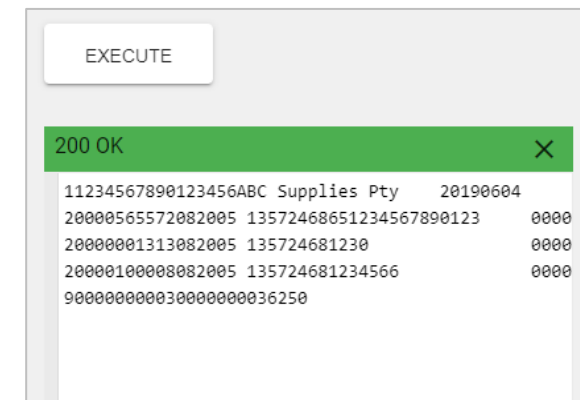
4. On the right hand side, click in the **Request body** box, and select all of the text in the box – click anywhere in the text box, and press CTRL-A – the selection is highlighted in blue



5. Paste the text of the request by pressing CTRL-V. The requests text shows in red.



6. Click “**Execute**” to see the API response



Go to “**API Documentation**”, select “**Generate BPAY CRN**”

1. On the left hand side, select Path “**/bills (POST)**”



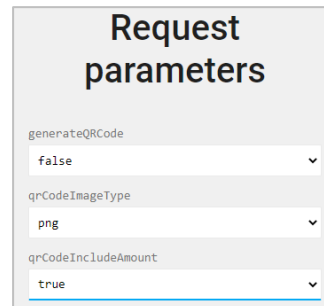
2. Under **Request Body (required)**, click “**Example**”



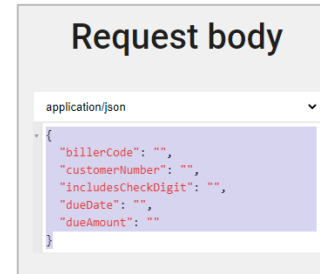
3. Copy the JSON request example to the clipboard using the “**copy icon**”

If you change any value in the **Request body**, you get a **404 not found error**

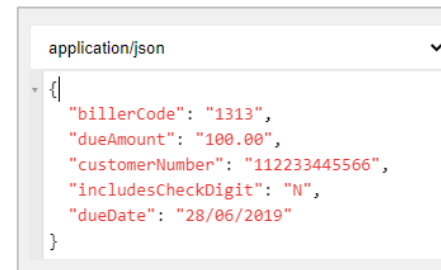
4. On the right hand side, you can specify **Request parameters**:
- Generate QR Code: true/false
  - QR Code Image Format: JPG, PNG
  - Include Amount: true/false



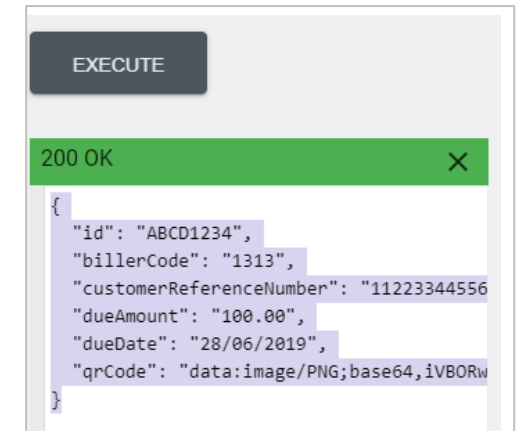
5. On the right hand side, click in the **Request body** box, and select all of the text in the box – click anywhere in the text box, and press CTRL-A – the selection is highlighted in blue



6. Paste the text of the request by pressing CTRL-V. The requests text shows in red.



7. Click “**Execute**” to see the API response



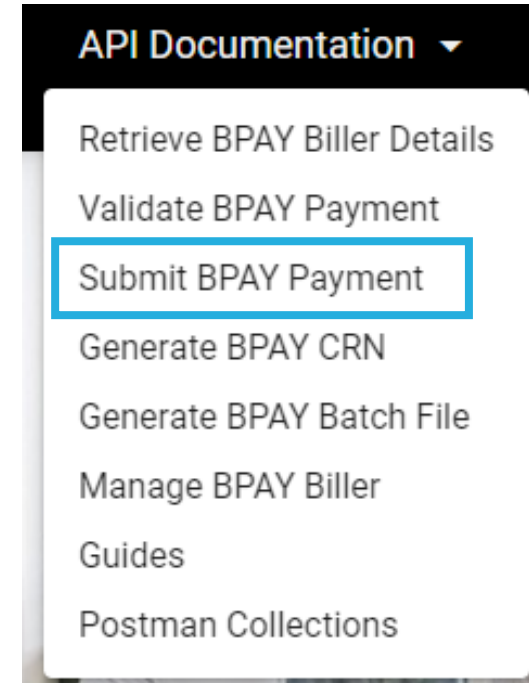


# Submit BPAY Payment

- Log in to the [BPAY Group Developer Portal](#) – create an account if you don't have one already
- On the top navigation bar, select “**API Documentation**”
- Select “Submit BPAY Payment” as highlighted

**Note:** the Submit BPAY Payment API has 3 instruction types:

- **Payment** – code “05”
- **Error Correction** – code “15”
- and **Reversal** – code “25”

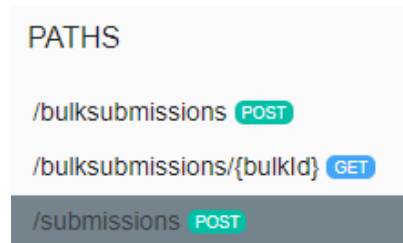


**Note:** There is no need to create an App or Authorise a key when you want to try our APIs with the Developer Portal user interface.

**Developers:** Create an App with its Client ID and Secret, to perform your testing using Postman, on the Sandbox endpoint.

Go to “**API Documentation**”, select “**Submit BPAY Payment**”

1. On the left hand side, select Path “**/submissions (POST)**”



2. Under **Request Body (required)**, click “**Example**”

Request Body (required)  
The payment instruction that is being submitted for inclusion in settlement.  
application/json  
object  
A request to submit a single BPAY Payment Instruction

paymentInstruction

object

EXAMPLE

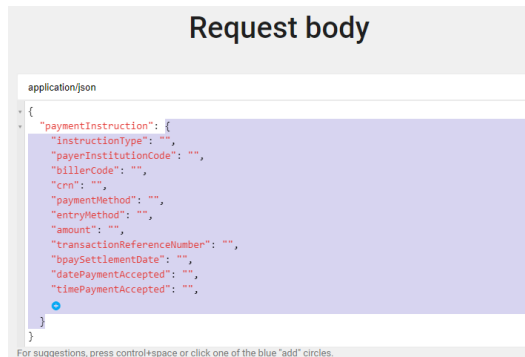
```
{
  "instructionType": "05",
  "payerInstitutionCode": "ABC",
  "stateOfPayment": "NSW",
  "billerCode": "9990000100",
  "crn": "1234566",
  "paymentMethod": "001",
  "entryMethod": "004",
  "amount": "200.00",
  "transactionReferenceNumber":
    "ABC202007231234567800",
  "bpaySettlementDate": "2020-07-23",
  "datePaymentAccepted": "2020-07-23",
  "timePaymentAccepted": "14:30:20"
}
```

3. Copy the JSON request example to the clipboard using the “**copy icon**”

If any of the content in the request is changed, like biller code, amount, payment method, .... the response will be **404 not found**

Detailed test cases and more information [in this document](#) to download from the Developer Portal

4. On the right hand side, click in the **Request body** box, then click “+ Add request body parameters”. Select all the text after “**paymentInstruction**”: – the selection is highlighted in blue below.



5. Paste the text of the request by pressing CTRL-V. The requests text shows in red.

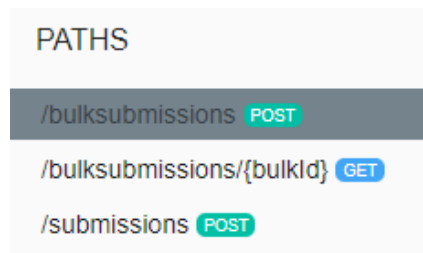
```
application/json
{
  "paymentInstruction": {
    "instructionType": "05",
    "payerInstitutionCode": "ABC",
    "stateOfPayment": "NSW",
    "billerCode": "9990000100",
    "crn": "1234566",
    "paymentMethod": "001",
    "entryMethod": "004",
    "amount": "200.00",
    "transactionReferenceNumber": "ABC202007231234567800",
    "bpaySettlementDate": "2020-07-23",
    "datePaymentAccepted": "2020-07-23",
    "timePaymentAccepted": "14:30:20"
  }
}
```

6. Click “**Execute**” to see the API response



Go to “**API Documentation**”, select “**Submit BPAY Payment**”

1. On the left hand side, select Path “**/bulksubmissions (POST)**”



2. Under **Request Body (required)**, click “**Example**”

Request Body (required)  
The payment instruction that is being submitted for inclusion in settlement.

application/json

object **EXAMPLE**

```
{
  "bulkId": "B-ABC20200727003",
  "paymentInstructions": [
    {
      "instructionType": "05",
      "payerInstitutionCode": "ABC",
      "stateOfPayment": "NSW",
      "billerCode": "9990000100",
      "crn": "1234566",
      "paymentMethod": "001",
      "entryMethod": "004",
      "amount": "100.00",
      "transactionReferenceNumber": "ABC202007231234567800",
      "bpaySettlementDate": "2020-07-23",
      "datePaymentAccepted": "2020-07-23",
      "timePaymentAccepted": "14:30:20"
    }
  ],
  {
    "instructionType": "05",
```

3. Copy the JSON request example to the clipboard using the “**copy icon**”

If any of the content in the request is changed, like biller code, amount, payment method, .... the response will be **404 not found**

Detailed test cases and more information [in this document](#) to download from the Developer Portal

4. On the right hand side, click in the **Request body** box, and select all of the text in the box – click anywhere in the text box, and press CTRL-A – the selection is highlighted in blue

## Request body

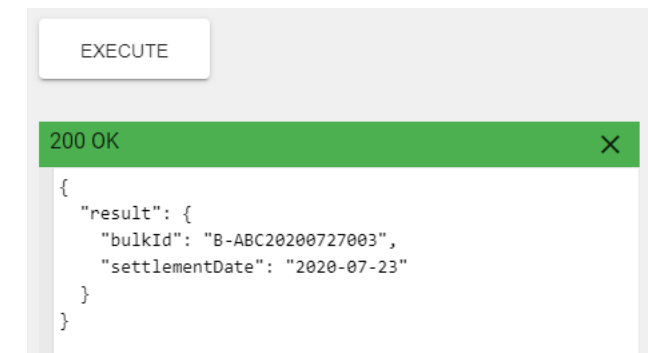
```
application/json
{
  "bulkId": "",
  "paymentInstructions": [
    {
      "instructionType": "05",
      "payerInstitutionCode": "ABC",
      "stateOfPayment": "NSW",
      "billerCode": "9990000100",
      "crn": "1234566",
      "paymentMethod": "001",
      "entryMethod": "004",
      "amount": "100.00",
      "transactionReferenceNumber": "ABC202007231234567800",
      "bpaySettlementDate": "2020-07-23",
      "datePaymentAccepted": "2020-07-23",
      "timePaymentAccepted": "14:30:20"
    }
  ],
  {
    "instructionType": "05",
```

For suggestions, press control+space or click one of the blue "add" circles.

5. Paste the text of the request by pressing CTRL-V. The requests text shows in red.

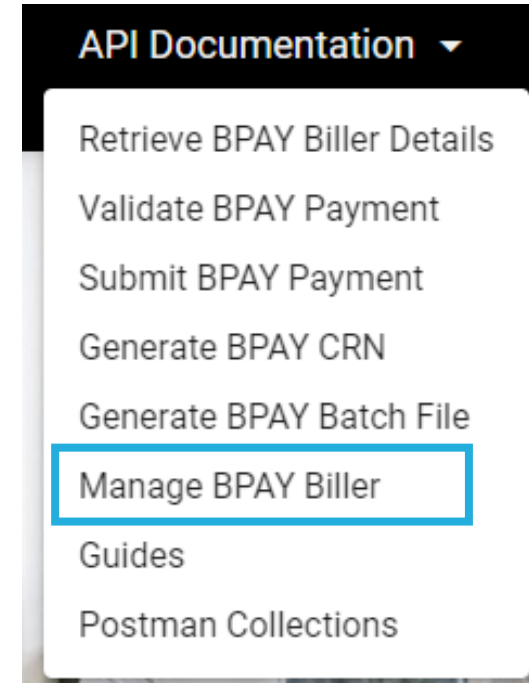
```
application/json
{
  "bulkId": "B-ABC20200727003",
  "paymentInstructions": [
    {
      "instructionType": "05",
      "payerInstitutionCode": "ABC",
      "stateOfPayment": "NSW",
      "billerCode": "9990000100",
      "crn": "1234566",
      "paymentMethod": "001",
      "entryMethod": "004",
      "amount": "100.00",
      "transactionReferenceNumber": "ABC202007231234567800",
      "bpaySettlementDate": "2020-07-23",
      "datePaymentAccepted": "2020-07-23",
      "timePaymentAccepted": "14:30:20"
    }
  ],
  {
    "instructionType": "05",
    "payerInstitutionCode": "ABC",
```

6. Click “**Execute**” to see the API response



# Manage BPAY Biller

- Log in to the [BPAY Group Developer Portal](#) – create an account if you don't have one already
- On the top navigation bar, select “**API Documentation**”
- Select “Manage BPAY Biller” as highlighted

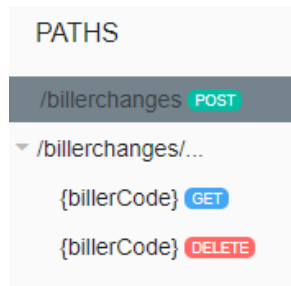


**Note:** There is no need to create an App or Authorise a key when you want to try our APIs with the Developer Portal user interface.

**Developers:** Create an App with its Client ID and Secret, to perform your testing using Postman, on the Sandbox endpoint.

Go to “**API Documentation**”, select “**Manage BPAY Biller**”

1. On the left hand side, select Path “**/billerchanges (POST)**”



2. Under **Request Body (required)**, click “**Example**”

Request Body (required)  
Information to create a change for a BPAY Biller. That change may represent the following actions:

- new biller creation
- biller update
- transfer of a biller from one Biller Institution to another
- closure of a biller

application/json  
object

EXAMPLE

```
{
  "changeType": "ADD",
  "proposedBillerDetails": {
    "billerCode": "13579",
    "billerInstitutionCode": "ABC",
    "shortName": "13579_SN",
    "longName": "13579_LN",
    "industryCode": "7299",
    "crnDetails": {
      "crnName": "REF",
      "crnLocation": "BESIDE BPAY LOGO",
      "validLengths": [
        "20"
      ]
    }
  }
}
```

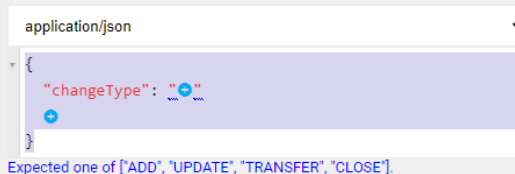
3. Copy the JSON request example to the clipboard using the “**copy icon**”

If any of the content in the request is changed, like biller code, amount, payment method, .... the response will be **404 not found**

Detailed test cases and more information [in this document](#) to download from the Developer Portal

4. On the right hand side, click in the **Request body** box, and select all of the text in the box – click anywhere in the text box, and press CTRL-A – the selection is highlighted in blue

## Request body

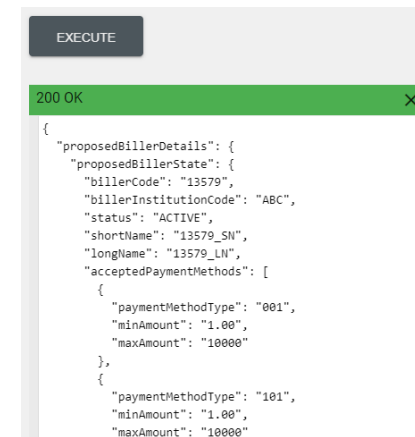


Expected one of ["ADD", "UPDATE", "TRANSFER", "CLOSE"]

5. Paste the text of the request by pressing CTRL-V. The requests text shows in red.



6. Click “**Execute**” to see the API response



Published by BPAY Pty Ltd (ABN 69 079 137 518) email: [marketing@bpay.com.au](mailto:marketing@bpay.com.au)

The BPAY Scheme is managed by BPAY Pty Ltd. BPAY Payments are offered by over 150 BPAY Scheme members. When you use BPAY the BPAY Scheme is paid fees relating to processing costs and BPAY Scheme membership. Contact your financial institution to see if it offers BPAY and to get the terms and conditions. Any financial product advice provided by BPAY Pty Ltd in relation to BPAY payment products is general advice only and has been prepared without taking into account your objectives, financial situation or needs. Before acting on such advice, you should review the Product Disclosure Statement and consider whether BPAY payment products are appropriate for your personal circumstances.