

coatmaster AG

coatmaster flex HTTP REST API

v 1.2

Samples

Get samples

Request URL

/api/v1/samples?configId={CONFIG_ID}

HTTP GET

Response

```
[{"id":268,"name":"0","isCurrent":true}]
```

Create sample

Request URL

/api/v1/samples?configId={CONFIG_ID}&sampleName={SAMPLE_NAME}

HTTP POST

Response

```
{"id":268,"name":"{SAMPLE_NAME}","isCurrent":true}
```

Remove samples

Request URL

/api/v1/samples?configId={CONFIG_ID}?sampleId={SAMPLE_ID}

HTTP DELETE

Response

200 OK

Applications

Get applications

Request URL

/api/v1/configurations

HTTP GET

Response

```
[  
  {  
    "id":337,  
    "name":"TEST-UPDATE",  
    "folderId":null,  
    "isMeasureValid":true,  
    "isReadOnly":false  
  }, ...  
]
```

Get application

Request URL

/api/v1/configurations/{ID}

HTTP GET

Response

```
{
  "id":2820,
  "templateId":-1,
  "name":"calibrationsample",
  "folderId":null,
  "flashPower":"FLASH_1",
  "thicknessBoundsGroup":{
    "warning":{
      "enabled":false,
      "lower":1.0,
      "upper":500.0
    },
    "error":{
      "enabled":false,
      "lower":1.0,
      "upper":500.0
    },
    "range":{
      "enabled":false,
      "lower":1.0,
      "upper":500.0
    }
  },
  "isMeasureValid":true,
  "referenceMeasurements":{
    "items":[
      {
        "id":2771,
        "name":"Ref29.08.19 17:18:01",
        "thickness":27.0,
        "created":"2019-08-29T15:18:01.000+0000",
        "units":"MICROMETRE"
      },
      {
```

```
"id":2772,
"name":"Ref29.08.19 17:18:13",
"thickness":56.0,
"created":"2019-08-29T15:18:13.000+0000",
"units":"MICROMETRE"
},
{
  "id":2773,
  "name":"Ref29.08.19 17:18:23",
  "thickness":81.0,
  "created":"2019-08-29T15:18:24.000+0000",
  "units":"MICROMETRE"
}
]
},
"isReadOnly":true,
"measureTime":0.1,
"coatingId":"POWDER_UNCURED",
"substrateId":"METAL",
"thicknessRange":"THICKNESS_RANGE_2",
"colourRange":"DARK"
}
```

Applications and blocks

Get applications and blocks

Request URL

/api/v1/config-sample

HTTP POST

Response

```
"configurations":[
  {
    "id":5008,
    "name":"Powder colour",
    "created":"2020-06-09T06:58:49.000+0000",
```

```
"samples":[
  {
    "id":9345,
    "name":"Blk 09.06.20 14:42:20",
    "created":"2020-06-09T08:42:22.000+0000"
  },
  {
    "id":9338,
    "name":"1",
    "created":"2020-06-09T06:58:49.000+0000"
  }
]
},
{
  "id":5009,
  "name":"Powder white",
  "created":"2020-06-09T06:58:49.000+0000",
  "samples":[
    {
      "id":9339,
      "name":"1",
      "created":"2020-06-09T06:58:49.000+0000"
    }
  ]
}
}
```

Measurements

Get measurements

Request URL

/api/v1/measurement/report

HTTP POST

```
{  
  "query": {  
    "configurationIds": [1, 2, 3],  
    "sampleIds": [1, 2, 5],  
    "minId": 999,  
    "last": 100,  
    "maxId": 10000,  
  },  
}
```

All fields are optional except for configurationIds

Response

```
{  
  "generatedDate": "2020-04-08T12:26:47.929+0000",  
  "tuples": [  
    "2820",  
    "calibrationsample",  
    "5599",  
    "1",  
    "266145",  
    "2019-09-04T17:08:08",  
    "158.0",  
    "OK",  
    "40.656",  
    "1",  
  ]  
}
```

```
"500",  
"1",  
"500",  
"MICROMETRE"  
],  
[  
"2820",  
"calibrationsample",  
"5599",  
"1",  
"266257",  
"2019-09-25T17:11:13",  
"-.-",  
"ERROR_FIT",  
"  
"1",  
"500",  
"1",  
"500",  
"MICROMETRE"  
],  
[  
"2820",  
"calibrationsample",  
"5599",  
"1",  
"266258",  
"2019-09-25T17:19:53",  
"-.-",  
"ERROR_FIT",
```

```
    "",
    "1",
    "500",
    "1",
    "500",
    "MICROMETRE"
  ],
  [
    "2820",
    "calibrationsample",
    "5599",
    "1",
    "266259",
    "2019-09-25T17:22:40",
    "66.2",
    "WARNING_FIT",
    "",
    "1",
    "500",
    "1",
    "500",
    "MICROMETRE"
  ]
],
"columnIds":[
  "application_id",
  "application_name",
  "sample_id",
  "sample_name",
  "measurement_id",
```



```
"timestamp",  
"thickness",  
"diffusivity",  
"measurement_status",  
"temperature",  
"warning_lower",  
"warning_upper",  
"error_lower",  
"error_upper",  
"units"  
]  
}
```

coatmaster flex automation

Please contact coatmaster for the server address as it may be different.

Create automation instruction

Request URL

/api/v1/auto-config

Body:

```
{  
  configId: 123,  
  sampleId: 234  
}
```

HTTP POST

Response

HTTP 202

Reference

Authentication

All requests require a HTTP header. Requests without this header will result in an error. Please generate the API key using the Flex UI.

ApiKey-v1: <<API_KEY>>

For HTTP POST requests, please set the Content-Type header.

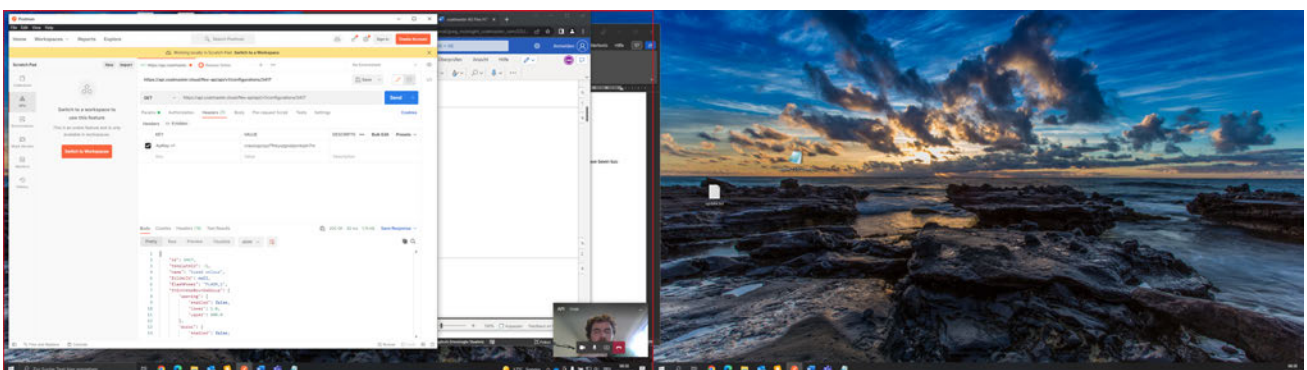
Content-Type: application/json

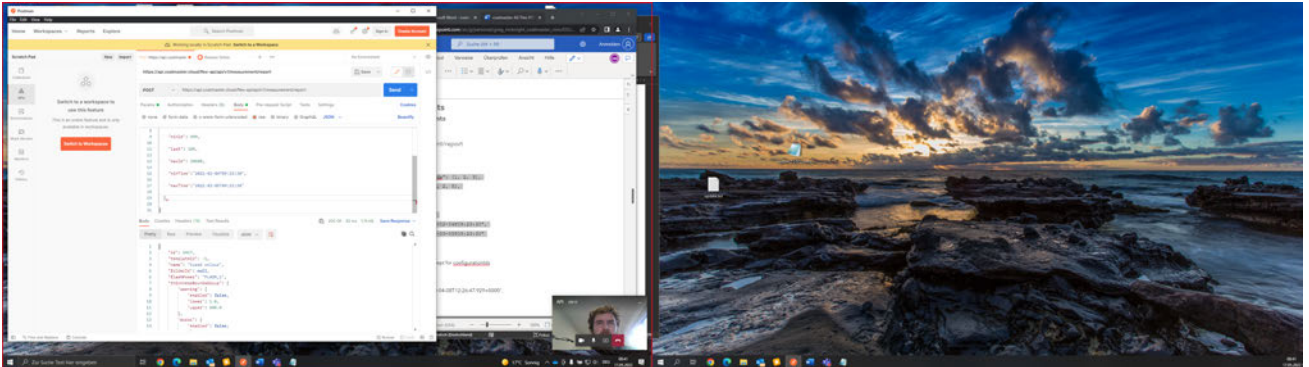
Rate limiting

Requests to the API are limited, generally speaking if the API determines that there have been too many requests, the API will respond with a HTTP code of 429

Response

429 Too Many Requests





Postman

File Edit View Help

Home Workspaces Reports Explore Search Postman Sign In Create Account

Working locally in Scratch Pad. Switch to a Workspace

Scratch Pad New Import

POST https://api.coatmaster.cloud/flex-api/api/v1/measurement/report

Save Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Headers 8 hidden

KEY	VALUE	DESCRIPTIC	Bulk Edit	Presets
<input checked="" type="checkbox"/> ApiKey-v1	crauogvoyz7fhkyuzgnsijzonkzjm7m			
Key	Value	Description		

Body Cookies Headers (20) Test Results 404 Not Found 55 ms 1.24 KB Save Response

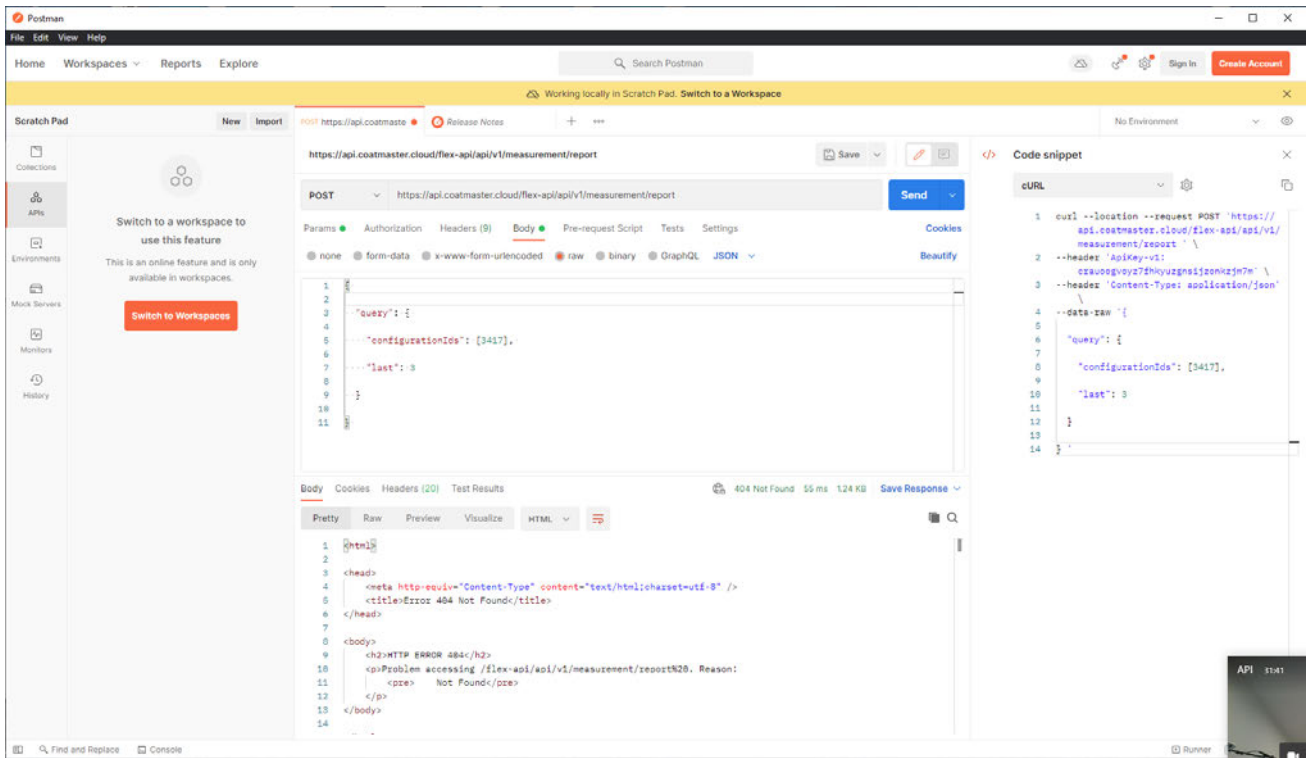
Pretty Raw Preview Visualize HTML

```

1 <html>
2
3 <head>
4   <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
5   <title>Error 404 Not Found</title>
6 </head>
7
8 <body>
9   <h2>HTTP ERROR 404</h2>
10  <p>Problem accessing /flex-api/api/v1/measurement/report%20. Reason:
11    <pre>    Not Found</pre>
12 </p>
13 </body>
14

```

Find and Replace Console Runner Trash



Postman interface showing a failed API call. The URL is `https://api.coatmaster.cloud/flex-api/api/v1/measurement/report`. The request is a POST with a JSON body:

```

1 {
2   "query": {
3     "configurationIds": [3417],
4     "last": 3
5   }
6 }

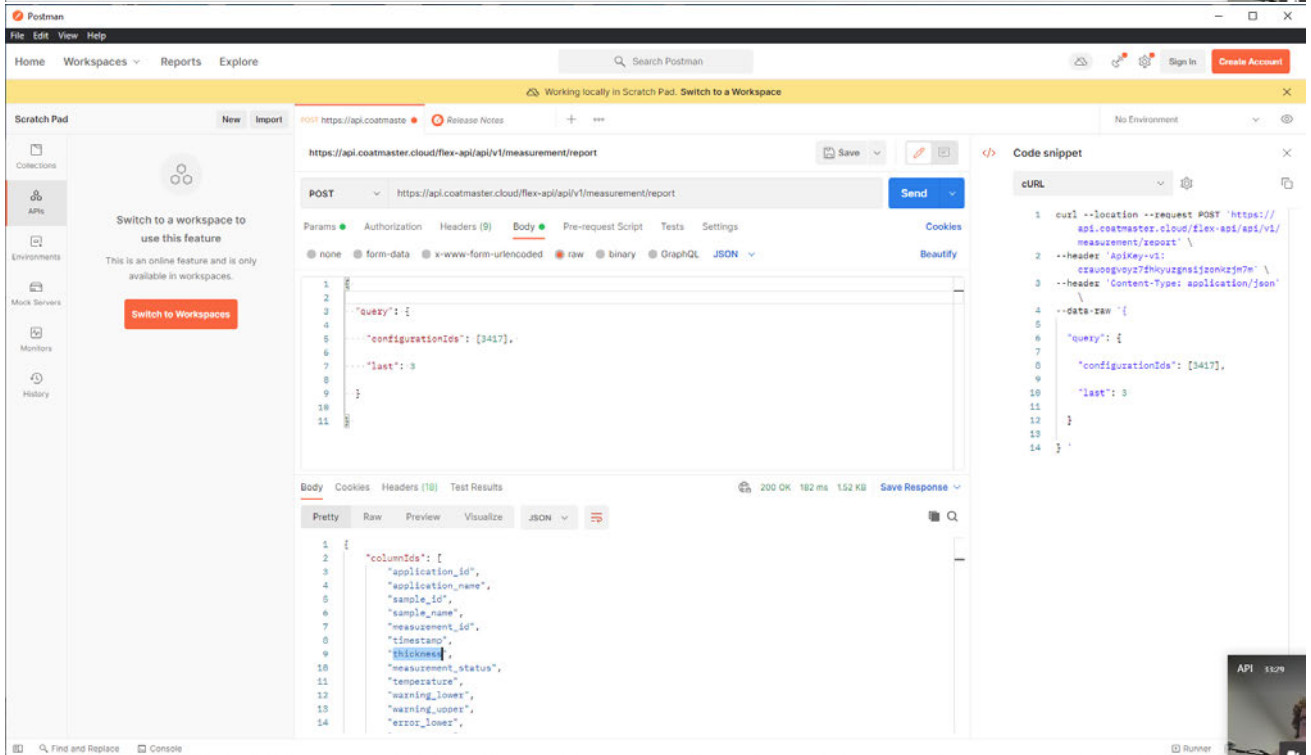
```

The response is a 404 Not Found error with an HTML body:

```

1 <html>
2
3 <head>
4   <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
5   <title>Error 404 Not Found</title>
6 </head>
7
8 <body>
9   <h2>HTTP 404 Not Found</h2>
10  <p>Problem accessing /flex-api/api/v1/measurement/report. Reason:
11    <p><p> Not Found</p>
12  </p>
13 </body>
14

```



Postman interface showing a successful API call. The URL is `https://api.coatmaster.cloud/flex-api/api/v1/measurement/report`. The request is a POST with a JSON body:

```

1 {
2   "query": {
3     "configurationIds": [3417],
4     "last": 3
5   }
6 }

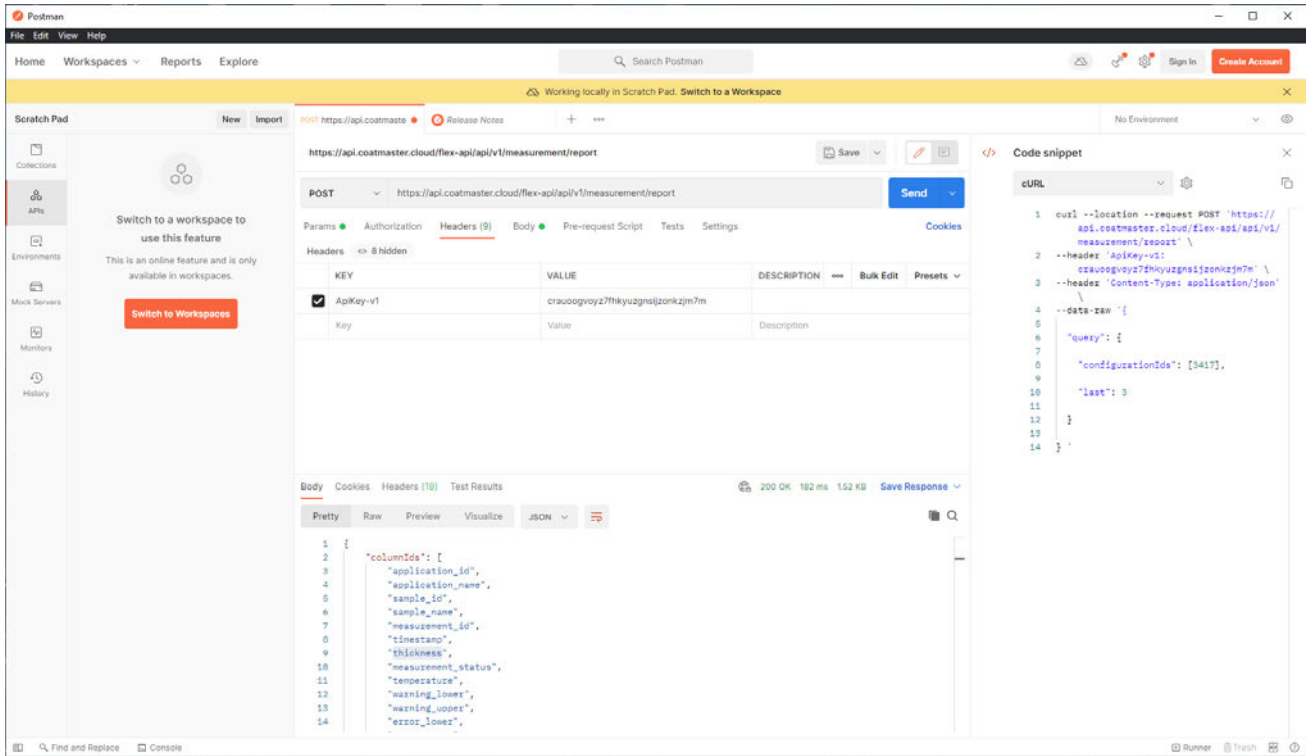
```

The response is a 200 OK with a JSON body:

```

1 {
2   "columnIds": [
3     "application_id",
4     "application_name",
5     "sample_id",
6     "sample_name",
7     "measurement_id",
8     "timestamp",
9     "measurement_status",
10    "temperature",
11    "warning_lower",
12    "warning_upper",
13    "error_lower",
14

```



Postman interface showing a REST client request configuration and response.

Request Configuration:

- Method: POST
- URL: `https://api.coatmaster.cloud/flex-api/v1/measurement/report`
- Headers (9):

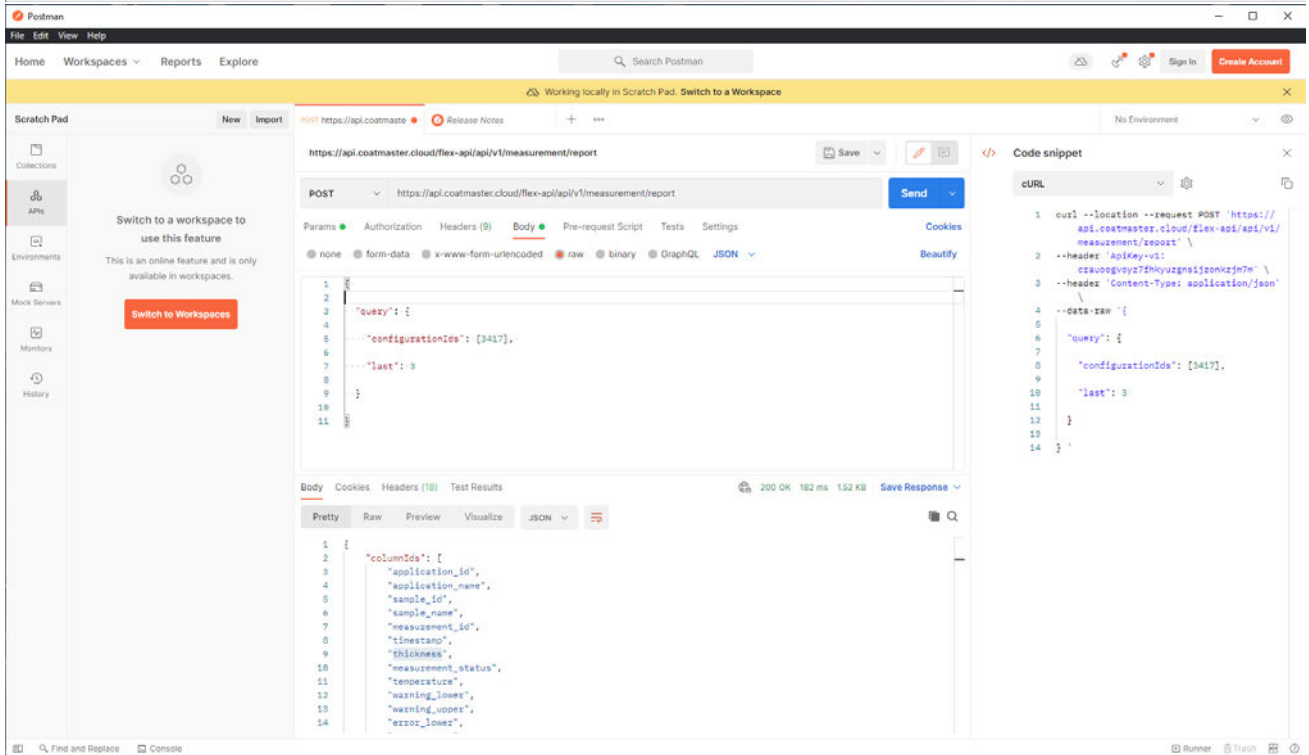
KEY	VALUE	DESCRIPTION	Bulk Edit	Presets
ApiKey-v1	<code>crau0ogv0yz7fhkyuzgnsjzknzjm7m</code>			
Content-Type	<code>application/json</code>			

Request Body (JSON):

```

1 {
2   "columnIds": [
3     "application_id",
4     "application_name",
5     "sample_id",
6     "sample_name",
7     "measurement_id",
8     "timestamp",
9     "thickness",
10    "measurement_status",
11    "temperature",
12    "warning_lower",
13    "warning_upper",
14    "error_lower",
  ]
}
  
```

Response: 200 OK, 182 ms, 1.52 KB



Postman interface showing the same REST client request configuration with the body editor open.

Request Configuration:

- Method: POST
- URL: `https://api.coatmaster.cloud/flex-api/v1/measurement/report`
- Body: raw

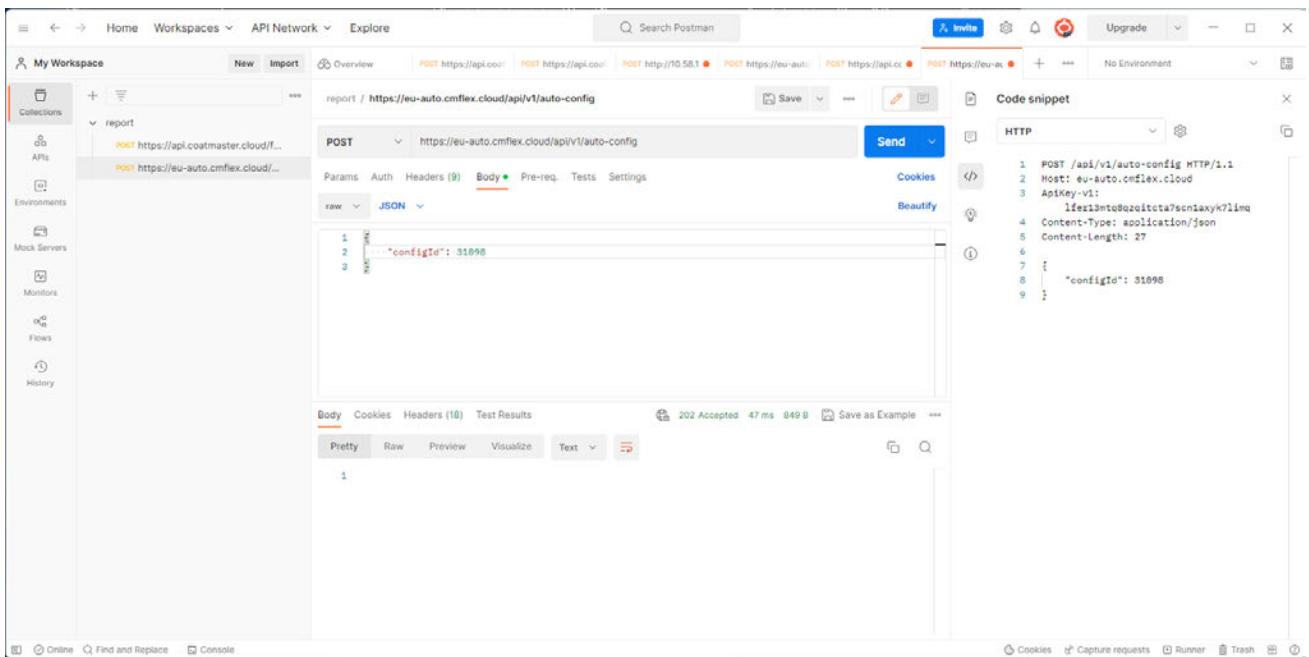
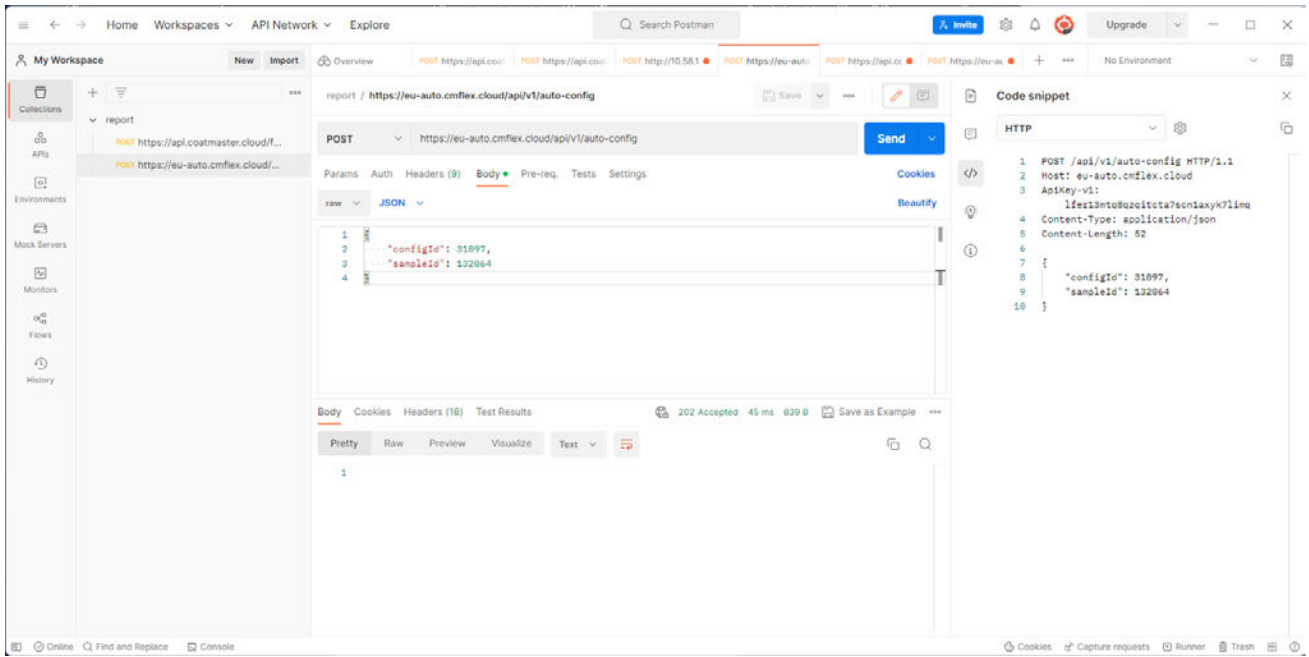
Request Body (Raw):

```

1 {
2   "columnIds": [
3     "application_id",
4     "application_name",
5     "sample_id",
6     "sample_name",
7     "measurement_id",
8     "timestamp",
9     "thickness",
10    "measurement_status",
11    "temperature",
12    "warning_lower",
13    "warning_upper",
14    "error_lower",
  ]
}
  
```

Response: 200 OK, 182 ms, 1.52 KB

Auto config:



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coatmaster.cloud/settings

Contact name
Darko Arandjelovic

Contact email
darko.arandjelovic@coatmaster.com

Contact telephone
0787477480

Update

Activity reminders


Add

API keys

For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation.

Create

Key	Created	
****-m23k	09/21/2021 9:13:38 AM	Disable Delete
****-rect	09/21/2021 9:23:11 AM	Disable Delete
****-jm7m	05/17/2022 8:34:42 AM	Disable Delete

Language
English 

Logout