使用範例說明

1. 透過瀏覽器工具實作範例

A. 以 chrome 瀏覽器說明由 URL 帶參數方式進行授權之範例步驟。

[1]. 請至瀏覽器輸入要擷取之資料項目代碼 URL,並加入參數 Authorization=CWB Opendata 會員授權碼

← → C 介 D https://opendata.cwb.gov.tw/api/v1/rest/datastore/F-C0032-001?Authorization=CWB Opendata 會員授權碼
{"success":"true","result":{"resource_id":"F-C0032-001","fields":[{"id":"datasetDescription","type":"String"},{"id":
{"id":"parameterName","type":"String"},{"id":"parameterValue","type":"String"},{"id":"parameterUnit","type":"String"
{"id":"endTime","type":"Imestamp"}],"records":{"datasetDescription":"二十六小時大氣損辙","Location":{{"locationName" ("id":"endTime","type":"Imestamp"}],"records":{"udtasetDescription":"二十六小時大氣損辙","Location":{{"locationName"
[{"startlime":"2017-05-11 12:00:00","endlime":"2017-05-11 18:00:00","parameter":("parameterName":"沙蛋時晴","paramete
18:00:00","endTime":"2017-05-12 06:00:00","parameter":{"parameterName":"多雲時晴","parameterValue":"7"}},{"startTime"
18:00:00","parameter":{"parameterName":"睛時多雲","parameterValue":"8"}}]},{"elementName":"PoP","time":[{"startTime":
18:00:00","parameter":{"parameterName":"20","parameterUnit":"自分比"}},{"startTime":"2017-05-11 18:00:00","endTime":"
{"parameterName":"0","parameterUnit":"白分比"}},{"startTime":"2017-05-12 06:00:00","endTime":"2017-05-12 18:00:00","p
比"}}]},{"elementName":"MinT","time":[{"startTime":"2017-05-11 12:00:00","endTime":"2017-05-11 18:00:00","parameter"
{"startTime":"2017-05-11 18:00:00","endTime":"2017-05-12 06:00:00","parameter":{"parameterName":"24","parameterUnit"
05-12 18:00:00", "parameter":{"parameterName":"24", "parameterUnit":"C"}}]}, {"elementName":"CI", "time":[{"startTime":"
18:00:00", "parameter":{"parameterName":"問題"}},{"startlime":"201/-05-11 18:00:00","endlime":"201/-05-12 06:00:00",";
{"startlime":"201/-05-12 06:00:00","endlime":"201/-05-12 18:00:00","parameter":{"parameterName":"舒適全問题"}}},("el
12:00:00", "endTime": "2017-05-11 18:00:00", "parameter":{"parameterName": "34", "parameterUnit":"C"}}, {"startTime": "2017
06:00:00", "parameter":{"parameterName":"30", "parameterUnit":"C"}}, {"startlime":"201/-05-12 06:00:00", "endlime":"201/
{"parameterName": "34 , "parameterUnit :"C'}}}, {"IoCationName": 新订用 , "weatherLlement": {{"elementName": "WX", 'time
18:00:00", "parameter":{"parameterName":"多雲牛後短暫躍陣附", "parameterValue":"18"}},{"startlime":"201/-05-11 18:00:00"
{"parameterName":"多雲時晴","parameterValue":"/"}},{"startIime":"2017-05-12 06:00:00","endIime":"2017-05-12 18:00:00"
閒","parameterValue":"34"}}],{"elementName":"POP","time":[{"startTime":"2017-05-11 12:00:00","endTime":"2017-05-11
{"parameterName":"40","parameterUnit":"白分比"}},{"startTime":"2017-05-11 18:00:00","endTime":"2017-05-12 06:00:00","
比"}},{"startTime":"2017-05-12 06:00:00","endTime":"2017-05-12 18:00:00","parameter":{"parameterName":"60","paramete
[{"startTime":"2017-05-11 12:00:00","endTime":"2017-05-11 18:00:00","parameter":{"parameterName":"29","parameterUnit
18:00:00", "endTime": "2017-05-12 06:00:00", "parameter": {"parameterName": "25", "parameterUnit": "C"}}, {"startTime": "2017
18:00:00", "parameter":{"parameterName":"25","parameterUnit":"("}}]},{"elementName":"CI","time":[{"startTime":"2017-0
18:00:00", "parameter":{"parameterName":"許獨空闷熱"}},("startTime":"2017-05-11 18:00:00","endTime":"2017-05-12 06:00:

B. 以 google 所提供的 Advanced Rest Client 畫面說明由 header 進行授權之範例步驟。

[1]. 請至 Google plugin 搜尋並安裝 Advanced Rest Client

[2]. 在 Chrome 瀏覽器右上方出現 Advanced Rest Client 小圖示,點選『選項』開啟操作視窗。

- a、左欄選擇 Request
- b、輸入氣象資料擷取 URL。
- c、點選 GET 方法。
- d、在 Headers 的位置填入:

Authorization

{氣象局 opendata 會員的授權碼}

e、點選 SEND。

Advanced Rest Client	[Unnamed]				Open		
	▶ URL b、輸入資料摄取编址						
a、點選Request	c : 點選GET ● GET ● POST ● PUT ● PATCH ● DELETE ● HEAD ● OPTIONS ● Other						
Request	Raw	Form	d、點選Form後,再下方輸入Header相關資訊 Headers				
Proiects	Add new beader						
Saved	koy Author	instion			Y		
History	Ney Authonization		Value CWD Operiodia 自具反推动		^		
Settings				e、點選	Send		
About				Clear	Send		

2. JAVA REST Client 範例程式

[1]. 單一縣市、預設參數抓取範例程式 範例說明: 擷取宜蘭縣內所有鄉鎮未來兩天所有天氣預報因子之預報值。

```
/*
*
   此為cwb opendata資料擷取下載方式之範例程式
* 程式範例語言為Java
  此restful client 使用套件為Jersey
*
*
  欲使用此範例程式,請先引入Jersey-Client相關套件
*
*
  範例資料擷取下載URL為鄉鎮天氣預報-單一鄉鎮市區預報資料,宜蘭縣未來2天天氣預報
*
  所有參數皆為預設
*
* AUTHORIZATION KEY為CWB Opendata會員授權碼之名稱
  AUTHORIZATION VALUE為CWB Opendata會員授權碼
*
*
* */
   private static final String GET_CWB_OPENDATA_REST_URL =
          "https://opendata.cwb.gov.tw./api/v1/rest/datastore/F-D0047-001";
   private static final String AUTHORIZATION_KEY = "Authorization";
   private static final String AUTHORIZATION VALUE =
          public void cwbOpendataRestClient(Client client){
       final Response response = client.target(GET_CWB_OPENDATA_REST_URL)
              .request()
              .header(AUTHORIZATION_KEY, AUTHORIZATION_VALUE).get();
       String output = response.readEntity(String.class);
       client.close();
   }
```

}

[2]. 單一縣市、使用參數抓取特定資料

範例說明: 擷取宜蘭縣內羅東鎮及蘇澳鎮未來兩天 Wx 和 PoP 天氣因子之預報值。

```
/*
*
  此為cwb opendata資料擷取下載方式之範例程式
* 程式範例語言為Java

    * 此restful client 使用套件為Jersey

*
   欲使用此範例程式,請先引入Jersey-Client相關套件
*
*
  範例資料擷取下載URL為鄉鎮天氣預報-單一鄉鎮市區預報資料,宜蘭縣未來2天天氣預報
   參數locationName代表抓取羅東鎮、蘇澳鎮
*
* 參數elementName代表抓取Wx、PoP
*
* AUTHORIZATION KEY為CWB Opendata會員授權碼之名稱
*
  AUTHORIZATION VALUE為CWB Opendata會員授權碼
*
* */
   private static final String GET_CWB_OPENDATA_REST_URL =
          "https://opendata.cwb.gov.tw./api/v1/rest/datastore/F-D0047-001?"+
                  "locationName=羅東鎮,蘇澳鎮&elementName=Wx,PoP";
   private static final String AUTHORIZATION_KEY = "Authorization";
   private static final String AUTHORIZATION VALUE =
          public void cwbOpendataRestClient(Client client){
       final Response response = client.target(GET_CWB_OPENDATA_REST_URL)
              .request()
              .header(AUTHORIZATION_KEY, AUTHORIZATION_VALUE).get();
       String output = response.readEntity(String.class);
```

```
client.close();
```

}

[3]. 跨縣市、使用參數抓取特定資料

範例說明: 擷取新北市板橋區, 臺中市大肚區, 臺北市士林區, 高雄市楠梓區, 臺南市善化區 等鄉鎮未來兩天所有天氣預報因子之預報值。

- /* 此為cwb opendata資料擷取下載方式之範例程式
- * 程式範例語言為Java
- * 此restful client 使用套件為Jersey
- * 欲使用此範例程式,請先引入Jersey-Client相關套件
- *
- * 範例資料擷取下載URL為鄉鎮預報跨縣市抓取資料,每一個縣市內可全抓鄉鎮區資料,
- * 新北市(F-D0047-069)板橋區、臺中市(F-D0047-073)大肚區、臺北市(F-D0047-061)士林區、
- * 高雄市(F-D0047-065)楠梓區、臺南市(F-D0047-077)善化區
- *

```
* AUTHORIZATION KEY為CWB Opendata會員授權碼之名稱
```

* AUTHORIZATION_VALUE為CWB Opendata會員授權碼

```
* */
```

```
private static final String GET_CWB_OPENDATA_REST_URL =
    "https://opendata.cwb.gov.tw./api/v1/rest/datastore/F-D0047-093?"
    + "locationId=F-D0047-069,F-D0047-073,F-D0047-061,F-D0047-065,F-D0047-077"
    + "&locationName=板橋區,大肚區,土林區,楠梓區,善化區";
private static final String AUTHORIZATION_KEY = "Authorization";
private static final String AUTHORIZATION_VALUE =
    "CWB-xxxxxxxx-xxxx-xxxx-xxxx-xxxxx";
public void cwbOpendataRestClient(Client client){
    final Response response = client.target(GET_CWB_OPENDATA_REST_URL)
```

```
.request()
    .header(AUTHORIZATION_KEY, AUTHORIZATION_VALUE).get();
String output = response.readEntity(String.class);
client.close();
```

}