## APIKey申請

提供一組專屬Factory ID，用於存取API服務。

→

### 1.1 API 串接網址

|  |  |
| --- | --- |
| 正式環境 | http://192.168.0.125:62459/ |
| 測試環境 | https://192.168.0.125:62459/ |

### 1.2測試帳號＆APIKey

|  |  |
| --- | --- |
| Factory ID | Fid自行創建 |
| API Key | 尚未使用 |

### 1.3 提供IP 白名單

|  |  |
| --- | --- |
| Access IP | 請廠商提供呼叫此API的伺服器/程式 實體固定IP。(目前未使用) |

### 1.4 方法說明

|  |  |
| --- | --- |
| **項目** | **說明** |
| **Request Method** | 除GetCurrentTime為Get以外其餘請使用  HTTP(s) POST (FromBody)傳遞json格式資料予 API 。 |
| **Time Stamp** | 格式如下: 140。3389030，由1970年1月1日UTC 時間開始計算，每經過1秒，數字就會加1。除GetCurrentTime為預設外，每一個 Request 都需要包含有 TimeStamp。  ※注意：請使用 api/Time/GetCurrentTime 來取得。  ※注意：超過10分鐘即逾時，需要重新取得 TimeStamp。  ※注意：同一組FactoryID經取得下一組TimeStamp則上一組隨即失效。 |
| **DataFormat** | Json字串或一般字串。(詳見該方法說明) |
| **製作簽章Signature** | **\*請注意順序和大小寫\***  **Signature = MD5(**FactoryID+ Timestamp)  **[Sample]**  FactoryID =TestAccount  Timestamp= 1720491794  **Signature = MD5(**TestAccount1522233328)  =E088BA2DBF3BE49AEA58936450A8E826（※注意：大寫字體） |
| **回應格式–JSON** | |  |  | | --- | --- | | **成功** | {  “result”: 1,  “code”: “0000”,  “msg”: “”,  “data”:1522233328  } | | **失敗** | {  “result”: 0,  “code”: “9999”,  “msg”: “Timestamp is expired”,  “data”:  } | |

### 1.5 注意事項

|  |
| --- |
| **為資料交換順利，並降低串接廠商不必要之困擾，請配合注意事項如下：**  **●****API存取方式：**  **係使用POST方法［FromBody］ , 而非［FromUri］請悉知；否則將造成傳送之參數無法成功遞送的結果。**  **Ex.9999 Unexpected character encountered…**  **●API存取次數限制：**  **1分鐘內,存取次數以60次為上限。（所有涉及DB存取之次數總和）**  **( 各廠商請在此範圍內合理叫用API , 否則將可能因違反存取次數限制，導致API拒絕叫用)**  **●關於測試帳號：**  **測試帳號為各廠商之共用資源，故請勿將各公司機密之敏感資料以測試帳號上傳**  **(有需要專屬測試帳號之廠商可於使用前2個工作天提出申辦)**  **→ Email申辦，並請檢附公司名稱中／英文、網址、電話及存取IP即可)**  **●關於API維護時段：**  **關於API維護時段為每個工作天之中午12:00~13:00 為API固定維護時段，客戶於串接時應請避開此時段作存取，以免存取失敗。**  **以上敬請悉知　Thanks.** |

## 二、串接範例／步驟

* 1. 取得Timestamp

<https://api.test.com.tw/api/Time/GetCurrentTime?fid=TestAccount>

* 1. 製作簽章 Signature (請參考前段落資訊)

|  |
| --- |
| **[Sample]**   1. FactoryID =TestAccount 2. Timestamp= 1720491794   **Signature = MD5(**TestAccount1720491794)  = **E088BA2DBF3BE49AEA58936450A8E826** (需轉為大寫字串) |

* 1. 組成data format (請參考下列JSON格式)

**{**

**"fid":"TestAccount",**

**"ts": 1720491794,**

**"s": "E088BA2DBF3BE49AEA58936450A8E826",**

**"data": 欲抛入的資料或JSON物件**

**}**

* 1. Http POST 呼叫 API 並取得回應資訊格式如下。

**{**

**"result": 1,**

**"code": "0000",**

**"msg": "",**

**"data":取回的資料**

**}**

## API 內容說明

### 1、時間戳 (Timestamp)

#### 1 取得系統Timestamp時間

##### 1.1.1. [API 說明]

|  |  |
| --- | --- |
| Attribute | Value |
| API URL | {API 網址}/api/Time/GetCurrentTime?fid={factoryID} |
| **API 描述** | 回應系統 Timestamp 時間 |

##### 1.1.2. [要求欄位]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| fid | String | 10 | Y | Factory ID |

##### 1.1.3. [要求結果]

|  |
| --- |
| URL+/api/Time/GetCurrentTime?fid={factoryID} |

##### 1.1.4. [回應欄位]

|  |  |  |  |
| --- | --- | --- | --- |
| 欄位 | 型態 | 範例 | 說明 |
| result | int | 1 | 執行結果 (1:成功；0:失敗) |
| code | string | "0000" | 狀態碼 (請參照狀態碼對照表) |
| msg | string | "" |  |
| data | long | 1720491794 | timestamp |

##### 1.1.5. [回應結果]

|  |
| --- |
| {  "result": 1,  "code": "0000",  "msg": "",  "data": 1720491794  } |

### 2登入 (Login)

#### 1 帳號登入(Read)

##### 2.1.1. [API 說明]

|  |  |
| --- | --- |
| Attribute | Value |
| API URL | {API 網址}/api/Login/Read |
| API 描述 | 帳號登入確認 |

##### 2.1.2. [要求欄位]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| fid | String | 8 | Y | Factory ID |
| ts | long |  | Y | Timestamp（有效之Timestamp） |
| s | String | 32 | Y | Signature |
| data | JSON |  | Y | 帳號資料 |

##### 2.1.3. [要求data欄位說明]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| emID | string | 50 | Y | 帳號 |
| emPwd | string | 50 | Y | 密碼 |

|  |
| --- |
| [  {  "emID":"HRDC015",  "emPwd":"0000"  }  ] |

##### 2.1.4. [要求結果]

|  |
| --- |
| {  "fid": "TestAccount",  "ts": 1720491794,  "s": "E088BA2DBF3BE49AEA58936450A8E826",  "data": [  {  "emID":"HRDC015",  "emPwd":"0000"  }  ]} |

##### 2.1.5. [回應欄位]

|  |  |  |  |
| --- | --- | --- | --- |
| **欄位** | **型態** | **範例** | **說明** |
| result | int | 1 | 執行結果 (1:成功；0:失敗) |
| code | string | "0000" | 狀態碼 (請參照狀態碼對照表) |
| msg | string | "" | 完成筆數 |
| data | string | "" | 新增動作，data欄位無資料 |

##### [回應data欄位說明]

|  |
| --- |
| {  "result": 1,  "code": "0000",  "msg": "",  "data": "[  {  "emID":"HRDC015",  "emName":"王小明"  }  ]"  } |

### 3租借報到 (Lease)

#### 1 報到(CheckIn)

##### 3.1.1. [API 說明]

|  |  |
| --- | --- |
| Attribute | Value |
| API URL | {API 網址}/api/Lease/CheckIn |
| API 描述 | 帳號登入確認 |

##### 3.1.2. [要求欄位]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| fid | String | 8 | Y | Factory ID |
| ts | long |  | Y | Timestamp（有效之Timestamp） |
| s | String | 32 | Y | Signature |
| data | JSON |  | Y | 租借資料 |

##### 3.1.3. [要求data欄位說明]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| placeused\_serno | int |  | Y | Key 申請序號 |
| place\_serno | Int |  | Y | Key 場地序號 |
| placeno | int |  | Y | 場地編號 |
| placename | string | 50 | Y | 場地名稱 |
| use\_date | string | 10 | Y | 租借日期 |
| ck\_person | string | 50 | Y | 報到人 |
| ck\_id | string | 4 | Y | 身份證後四碼 |

|  |
| --- |
| [  {  "placeused\_serno":"30169",  "place\_serno":"7",  "placeno":"C101",  "placename":"101教室",  "use\_date":"2024-07-26",  " ck\_person ":"王小明",  " ck\_id ":"9999"  }  ] |

##### 3.1.4. [要求結果]

|  |
| --- |
| {  "fid": "TestAccount",  "ts": 1720491794,  "s": "E088BA2DBF3BE49AEA58936450A8E826",  "data": [  {  "placeused\_serno":"30169",  "place\_serno":"7",  "placeno":"C101",  "placename":"101教室",  "use\_date":"2024-07-26",  " ck\_person ":"王小明",  " ck\_id ":"9999"  }  ]} |

##### 3.1.5. [回應欄位]

|  |  |  |  |
| --- | --- | --- | --- |
| **欄位** | **型態** | **範例** | **說明** |
| result | int | 1 | 執行結果 (1:成功；0:失敗) |
| code | string | "0000" | 狀態碼 (請參照狀態碼對照表) |
| msg | string | "" | 回覆訊息 |
| data | string | "" | 新增動作，data欄位無資料 |

##### 3.1.5.6 [回應data欄位說明]

|  |
| --- |
| {  "result": 1,  "code": "0000",  "msg": "已完成報到手續",  "data": ""  } |

#### 2場地資訊(LeaseRead)

##### 3.2.1. [API 說明]

|  |  |
| --- | --- |
| Attribute | Value |
| API URL | {API 網址}/api/Lease/LeaseRead |
| API 描述 | 帳號登入確認 |

##### 3.2.2. [要求欄位]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| fid | String | 8 | Y | Factory ID |
| ts | long |  | Y | Timestamp（有效之Timestamp） |
| s | String | 32 | Y | Signature |
| data | JSON |  | Y | 場地編號、租借日期 |

##### 3.2.3. [要求data欄位說明]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| use\_date | string | 50 | Y | 日期 |
| placeno | string | 50 | Y | 場地編號 |

|  |
| --- |
| [  {  "use\_date":"2024-07-26",  "placeno":"C101"  }  ] |

##### 3.2.4. [要求結果]

|  |
| --- |
| {  "fid": "TestAccount",  "ts": 1720491794,  "s": "E088BA2DBF3BE49AEA58936450A8E826",  "data": [  {  "use\_date":"2024-07-26",  "placeno":"C101"  }  ]} |

##### 3.2.5. [回應欄位]

|  |  |  |  |
| --- | --- | --- | --- |
| **欄位** | **型態** | **範例** | **說明** |
| result | int | 1 | 執行結果 (1:成功；0:失敗) |
| code | string | "0000" | 狀態碼 (請參照狀態碼對照表) |
| msg | string | "" |  |
| data | string | "" | data欄位無資料 |

##### 3.2.6 [回應data欄位說明]

|  |  |  |  |
| --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 說明 |
| placeused\_serno | int |  | Key 申請序號 |
| place\_serno | int |  | 場地序號 |
| placeno | string | 50 | 場地編號 |
| placename | string | 50 | 場地名稱 |
| use\_date | string | 50 | 租借日期 |
| use\_usection | string | 10 | 租借時段 |
| peole\_cnt | string | 50 | 預計人數 |
| ck\_person | string | 80 | 報到人 |

|  |
| --- |
| {  "result": 1,  "code": "0000",  "msg": "",  "data": "[  {  "placeused\_serno":"30169",  "place\_serno":"7",  "placeno":"C101",  "placename":"101教室",  "cust\_id":"05",  "cust\_name":"多田測試3",  "use\_date":"2024-07-26",  "use\_usection":"8",  "peole\_cnt":"50",  "ck\_person":"王小明"  },  {  "placeused\_serno":"30170",  "place\_serno":"7",  "placeno":"C101",  "placename":"101教室",  "cust\_id":"05",  "cust\_name":"多田測試3",  "use\_date":"2024-07-26",  "use\_usection":"13",  "peole\_cnt":"50",  "ck\_person":"王小明"  }  ]"  } |

#### 3場地選單(VenueMenu)

##### 3.3.1. [API 說明]

|  |  |
| --- | --- |
| Attribute | Value |
| API URL | {API 網址}/api/Lease/VenueMenu |
| API 描述 | 帳號登入確認 |

##### 3.3.2. [要求欄位]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 必填 | 說明 |
| fid | String | 8 | Y | Factory ID |
| ts | long |  | Y | Timestamp（有效之Timestamp） |
| s | String | 32 | Y | Signature |
| data | JSON |  | Y |  |

##### 3.3.3. [要求結果]

|  |
| --- |
| {  "fid": "TestAccount",  "ts": 1720491794,  "s": "E088BA2DBF3BE49AEA58936450A8E826",  "data": "[{}]"  } |

##### 3.3.4. [回應欄位]

|  |  |  |  |
| --- | --- | --- | --- |
| **欄位** | **型態** | **範例** | **說明** |
| result | int | 1 | 執行結果 (1:成功；0:失敗) |
| code | string | "0000" | 狀態碼 (請參照狀態碼對照表) |
| msg | string | "" |  |
| data | string | "" | data欄位無資料 |

##### 3.3.5 [回應data欄位說明]

|  |  |  |  |
| --- | --- | --- | --- |
| 參數名稱 | 型別 | 長度 | 說明 |
| serno | int |  | Key 報到回傳用 |
| placeno | string | 50 | 場地編號 |
| placename | string | 50 | 場地名稱 |

|  |
| --- |
| {  "result": 1,  "code": "0000",  "msg": "",  "data": "[{"serno":1,"placeno":"H","placename":"大禮堂"},{"serno":2,"placeno":"C202","placename":"202階梯教室"},{"serno":3,"placeno":"C201","placename":"201地板教室"},{"serno":4,"placeno":"C204","placename":"204教室"},{"serno":5,"placeno":"C205","placename":"205教室"},{"serno":6,"placeno":"C203","placename":"203教室"},{"serno":7,"placeno":"C101","placename":"101教室"},{"serno":8,"placeno":"C102","placename":"102教室"},{"serno":9,"placeno":"S","placename":"研討室"},{"serno":10,"placeno":"R","placename":"餐廳"},{"serno":11,"placeno":"L","placename":"大廳"},{"serno":15,"placeno":"R204","placename":"4"},{"serno":16,"placeno":"R206","placename":"6"},{"serno":17,"placeno":"R213","placename":"13"},{"serno":19,"placeno":"R215","placename":"15"},{"serno":20,"placeno":"R218","placename":"18"},{"serno":21,"placeno":"R220","placename":"12"},{"serno":22,"placeno":"R307","placename":"5"},{"serno":23,"placeno":"R309","placename":"16"},{"serno":24,"placeno":"R321","placename":"11"},{"serno":25,"placeno":"R403","placename":"3"},{"serno":26,"placeno":"R408","placename":"20"},{"serno":27,"placeno":"R409","placename":""},{"serno":32,"placeno":"L00A","placename":"二樓講師休息室1-1"},{"serno":33,"placeno":"L00B","placename":"二樓講師休息室1-2"},{"serno":34,"placeno":"L00C","placename":"二樓講師休息室1-3"},{"serno":35,"placeno":"","placename":"1"},{"serno":36,"placeno":"L00D","placename":"一樓講師休息室"},{"serno":37,"placeno":"","placename":"2"},{"serno":38,"placeno":"","placename":""},{"serno":39,"placeno":"R214","placename":""},{"serno":40,"placeno":"R217","placename":""}]"} |