桓嘉-設備健康度API規格書

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1. 新建DB各表單(建購新環境時使用)

|  |  |
| --- | --- |
| Request | GET /create/new\_table |
| Parameters | No |
| Header | application/json |
| Request body | No |
| Responses | {  "message": [  "Created the repair\_table data",  "Created the machine\_table data",  "Created the part\_table data",  "Created the part\_statistic\_table data",  "Created the machine\_state\_table data",  "Created the create\_huan\_jia\_table data",  "Created the create\_part\_list data",  "Created the create\_device\_table data",  "Created the create\_machine\_list data"  ],  "state": true  } |

1. 定時重新統計與新增又得馬資料

|  |  |
| --- | --- |
| Request | GET /schedule\_retrain/{tool} |
| Parameters | No |
| Header | application/json |
| Request body | No |
| Responses | {  "message": "Start retraining."  } |

1. 停止定時

|  |  |
| --- | --- |
| Request | GET /stop\_schedule/{tool} |
| Parameters | No |
| Header | application/json |
| Request body | No |
| Responses | {  "message": "Stop scheduling."  } |

1. 又得馬所有設備id – 擷取

|  |  |
| --- | --- |
| Request | POST /read/device\_list |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {"status": "ok",  "data": [{"id": 1,  "serverId": 1,  "machineId": 10,  "enabled": True,  "name": "Test 1",  "aliasId": "T1",  "comment": "",  "createdAt": "2022-12-27T23:14:27.810Z",  "updateAt": "2023-01-03T04:00:16.000Z"},  {"id": 2,  "serverId": 2,  "machineId": 11,  "enabled": True,  "name": "Test 2",  "aliasId": "T2",  "comment": "",  "createdAt": "2022-12-27T23:14:27.810Z",  "updateAt": "2023-01-03T04:00:16.000Z"},  {"id": 3,  "serverId": 3,  "machineId": 12,  "enabled": True,  "name": "Test 3",  "aliasId": "T3",  "comment": "",  "createdAt": "2022-12-27T23:14:27.810Z",  "updateAt": "2023-01-03T04:00:16.000Z"},  ]} |
| 備註 |  |

1. 又得馬設備資料 – 擷取

|  |  |
| --- | --- |
| Request | POST /read/device\_data |
| Parameters | No |
| Request body | {  " endAt": "2023-02-01"  } |
| Request example | {  " endAt": "2023-02-01"  } |
| Responses | {   "status": "ok",   "data": [     {       "id": 35,       "deviceId": 1,       "startAt": "2023-01-31T16:00:00.000Z",       "endAt": "2023-02-01T15:59:59.000Z",       "count": 0,       "createdAt": "2023-01-31T16:00:00.931Z",       "updateAt": "2023-01-31T16:00:00.931Z"     }   ] }  {   "status": "ok",   "data": [     {       "id": 36,       "deviceId": 2,       "startAt": "2023-01-31T16:00:00.000Z",       "endAt": "2023-02-01T15:59:59.000Z",       "count": 1000,       "createdAt": "2023-01-31T16:00:00.931Z",       "updateAt": "2023-01-31T16:00:00.931Z"     }   ] } |
| 備註 |  |

1. 又得馬資料 – 執行匯入device list資料

|  |  |
| --- | --- |
| Request | POST /export/insert\_device |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "message": "Created the device data",  "state": true  } |
| 備註 | **定期執行** |

1. 又得馬資料 – 執行匯入device data資料

|  |  |
| --- | --- |
| Request | POST /export/insert\_huan\_jia |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "message": "Created the iot data",  "state": true  } |
| 備註 | **定期執行** |

1. 機台管理 – 連結現有可配對的device id

|  |  |
| --- | --- |
| Request | POST /link/use\_device\_id |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "data": [  [  {  "device\_id": 1,  "serverid": 10,  "machineid": 10,  "enabled": 1,  "name": "test",  "aliasid": "t1",  "comment": "123",  "createdat": "2023-02-07",  "updateat": "2023-03-07"  },  {  "device\_id": 2,  "serverid": 11,  "machineid": 11,  "enabled": 1,  "name": "test2",  "aliasid": "t2",  "comment": "456",  "createdat": "2023-02-08",  "updateat": "2023-03-07"  }  ]  ],  "message": "Finished reading data",  "state": true  } |
| 備註 | 提供UI介面選取可用的device id |

1. 機台管理 – 新增機台 & device id

|  |  |
| --- | --- |
| Request | POST /insert/new\_machine |
| Parameters | No |
| Request body | {  "machine\_name": "string",  "device\_id": 0,  "init\_val": 0,  "remark": "string"  } |
| Request example | {  "machine\_name": "TXT001",  "device\_id": 1,  "init\_val": 30,  "remark": "testing"  } |
| Responses | {  “message”: “Created the machine data”,  “state”: ture  } |
| 備註 | 如果使用者沒有選擇device id 或沒有 device id 可選，UI 請自動填寫零 (device id編寫應該沒有存在零，如果有請替換一個數值)； 如果使用者有填寫重複的 machine name，API 會回傳 “state”: false |

1. 機台管理 – 讀機台名稱、零件名稱與各零件狀態

|  |  |
| --- | --- |
| Request | POST /read/machine\_table |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "data": [  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "儲紗輪(第一段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "儲紗輪(第二段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "儲紗輪(第三段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "儲紗輪(第四段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "送紗皮帶(第一段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "送紗皮帶(第二段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "送紗皮帶(第三段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "送紗皮帶(第四段)",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "羅拉捲布皮帶",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "馬達皮帶",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "主機傳動皮帶",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "捲布齒輪",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  },  {  "machine\_name": "TXT001",  "device\_id": 0,  "init\_val": 100,  "part\_name": "test",  "use\_state": "Y",  "part\_healthy": "G",  "system\_date": "2023-03-07",  "mean\_count": 0,  "mean\_day": 100,  "used\_count": 0,  "used\_day": 0,  "part\_healthy\_val": 0  }  ],  "message": "Finished reading data",  "state": true  } |
| 備註 | 不提供remark資訊，因為此部分直接關聯機台資訊與零件列表 |

1. 機台管理 – 讀已新增machine name & device id

|  |  |
| --- | --- |
| Request | POST /read/machine\_list |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "data": [  {  "machine\_name": "TXT001",  "device\_id": 0,  "remark": "testing"  }  ],  "message": "Finished reading data",  "state": true  } |
| 備註 | 用於UI顯示已新增的機台資訊 |

1. 機台管理 – 刪除已新增machine name & device id

|  |  |
| --- | --- |
| Request | POST /del/machine\_list\_data |
| Parameters | No |
| Request body | {  "machine\_name": "string"  } |
| Request example | {  "machine\_name": "TXT002"  } |
| Responses | {  "message": "Delete the machine\_name(TXT002)",  "state": true  } |
| 備註 | 刪除machine name & device id 列表時會同步刪除 machine table 內容。不提供修改machine name 或 device id，有需要可刪除後使用 /insert/new\_machine 重新新增資料 |

1. 機台管理 – 修改機台&零件的初始值或狀態

|  |  |
| --- | --- |
| Request | POST /update/update\_m\_table |
| Parameters | No |
| Request body | {  "machine\_name": "string",  "init\_val": 0,  "part\_name": "string",  "use\_state": "string",  "update\_target": "string"  } |
| Request example | Ex 1. 修改init\_val  {  "machine\_name": "TXT001",  "init\_val": 10,  "part\_name": "儲紗輪(第一段)",  "use\_state": "N",  "update\_target": "init\_val"  }  Ex 2. 修改use\_state  {  "machine\_name": "TXT001",  "init\_val": 0,  "part\_name": "儲紗輪(第四段)",  "use\_state": "N",  "update\_target": "use\_state"  } |
| Responses | Ex 1. 修改init\_val  {  "message": "Update the init\_val completed",  "state": true  }  Ex 2. 修改use\_state  {  "message": "Update the use\_state completed",  "state": true  } |
| 備註 | use\_state 固定為 “Y”: 使用、”N”: 不使用；  如果update\_target 輸入錯誤會回傳“state”: false |

1. 機台管理 – 刪除單筆資料

|  |  |
| --- | --- |
| Request | POST /del/machine\_table\_data |
| Parameters | No |
| Request body | {  "machine\_name": "string",  "part\_name": "string"  } |
| Request example | {  "machine\_name": "TXT001",  "part\_name": "儲紗輪(第四段)"  } |
| Responses | {  "message": "Delete the machine\_name = TXT001 & part\_name = 儲紗輪(第四段)",  "state": true  } |
| 備註 | 如果不想勾選不使用時可用此API刪除零件，但是刪除後將無法復原。此功能可先不做於UI介面作為後台備用功能 |

1. 零件列表 – 初始設定

|  |  |
| --- | --- |
| Request | GET /create/init\_part |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "init": {  "儲紗輪(第一段)": {  "message": "Created the part\_list data",  "state": true  },  "儲紗輪(第二段)": {  "message": "Created the part\_list data",  "state": true  },  "儲紗輪(第三段)": {  "message": "Created the part\_list data",  "state": true  },  "儲紗輪(第四段)": {  "message": "Created the part\_list data",  "state": true  },  "送紗皮帶(第一段)": {  "message": "Created the part\_list data",  "state": true  },  "送紗皮帶(第二段)": {  "message": "Created the part\_list data",  "state": true  },  "送紗皮帶(第三段)": {  "message": "Created the part\_list data",  "state": true  },  "送紗皮帶(第四段)": {  "message": "Created the part\_list data",  "state": true  },  "羅拉捲布皮帶": {  "message": "Created the part\_list data",  "state": true  },  "馬達皮帶": {  "message": "Created the part\_list data",  "state": true  },  "主機傳動皮帶": {  "message": "Created the part\_list data",  "state": true  },  "捲布齒輪": {  "message": "Created the part\_list data",  "state": true  }  },  "message": "Created the initial part data",  "state": true  } |
| 備註 | **初始設定** |

1. 零件列表 - 刪除

|  |  |
| --- | --- |
| Request | POST /del/del\_part\_item |
| Parameters | No |
| Request body | {  "part\_name": "string"  } |
| Request example | {  "part\_name": "儲紗輪(第二段)"  } |
| Responses | {  "message": "Delete id = 2: 儲紗輪(第二段) completed",  "state": true  } |
| 備註 | **刪除零件列表將不影響過往已新增的於機台管理的零件，如有需要連動刪除可再討論** |

1. 零件列表 - 修改

|  |  |
| --- | --- |
| Request | POST /update/update\_part\_item |
| Parameters | No |
| Request body | {  "id": 0,  "part\_name": "string",  "remark": "string"  } |
| Request example | {  "id": 2,  "part\_name": "儲紗輪(第二段)",  "remark": "test"  } |
| Responses | {  "message": "Update id = 2: 儲紗輪(第二段) completed",  "state": true  } |
| 備註 | **修改零件列表將不影響過往已新增的於機台管理的零件，如有需要連動修改可再討論** |

1. 零件列表 – 新增

|  |  |
| --- | --- |
| Request | POST /insert/new\_part |
| Parameters | No |
| Request body | {  “id”: int,  "part\_name": "string",  “use\_state”: ‘Y’  "remark": "string"  } |
| Request example | {  "id": 13,  "part\_name": "儲紗輪(第五段)",  "use\_state": "Y",  "remark": "string"  } |
| Responses | {  "message": "Created the part\_list data",  "state": true  } |
| 備註 | 如果輸入的 “id” 或 “part name” 任一個在列表中有重複會 “state” 會為 false;  Ex.  {  "message": "Input request body error",  "state": false  }  **新增零件列表將不影響過往已新增的於機台管理的零件，如有需要連動新增可再討論** |

1. 零件列表 – 讀取

|  |  |
| --- | --- |
| Request | GET /read/part\_list |
| Parameters | No |
| Header | application/json |
| Request body | No |
| Responses | {  "state": true,  "data": [  [  {  "id": 1,  "part\_name": "儲紗輪(第一段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 2,  "part\_name": "儲紗輪(第二段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 3,  "part\_name": "儲紗輪(第三段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 4,  "part\_name": "儲紗輪(第四段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 5,  "part\_name": "送紗皮帶(第一段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 6,  "part\_name": "送紗皮帶(第二段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 7,  "part\_name": "送紗皮帶(第三段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 8,  "part\_name": "送紗皮帶(第四段)",  "use\_state": "Y",  "remark": ""  },  {  "id": 9,  "part\_name": "羅拉捲布皮帶",  "use\_state": "Y",  "remark": ""  },  {  "id": 10,  "part\_name": "馬達皮帶",  "use\_state": "Y",  "remark": ""  },  {  "id": 11,  "part\_name": "主機傳動皮帶",  "use\_state": "Y",  "remark": ""  },  {  "id": 12,  "part\_name": "捲布齒輪",  "use\_state": "Y",  "remark": ""  }  ]  ],  "message": "Imported data completed"  } |

1. 新增維修表

|  |  |
| --- | --- |
| Request | POST /insert/new\_repair |
| Parameters | No |
| Request body | {  "machine\_name": "string",  "part\_name": "string",  "repair\_date": "2023-01-31",  "repair\_man": "string",  "director": "string",  "remark": "string"  } |
| Request example | {  "machine\_name": "TXT001",  "part\_name": "儲紗輪(第二段)",  "repair\_date": "2023-02-23",  "repair\_man": "丁丁",  "director": "太陽",  "remark": "測試資料"  } |
| Responses | {  "message": [  {  "insert\_message": "Created the repair data"  },  {  "update\_message": "Finished statistic and update part table data"  }  ],  "state": true  } |
| 備註 | 維修表的machine\_name & part\_name 可使用/read/all\_name 讀取後讓使用者選擇 |

1. 讀取機台健康資訊

|  |  |
| --- | --- |
| Request | POST /read/machine\_healthy |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "data": {  "machine\_name": [  "TXT001"  ],  "healthy\_state": [  "G"  ]  },  "message": "Read the results have been completed.",  "state": true  } |

1. 讀取維修資料

|  |  |
| --- | --- |
| Request | POST /read/repair\_data |
| Parameters | No |
| Request body | No |
| Request example | No |
| Responses | {  "data": [  {  "machine\_name": "TXT003",  "part\_name": "儲紗輪(第一段)",  "repair\_date": "2023-02-23",  "repair\_man": "string",  "director": "string",  "remark": "string"  }  ],  "message ": "Read repair data OK! ",  "state": true  } |
| 備註 | 會給所有已增加的維修資料 |

1. 刪除維修資料

|  |  |
| --- | --- |
| Request | POST /del/del\_repair\_data |
| Parameters | No |
| Request body | {  "machine\_name": "string",  "part\_name": "string",  "repair\_date": "string",  "repair\_man": "string",  "director": "string"  } |
| Request example | {  "machine\_name": "TXT003",  "part\_name": "AAA111",  "repair\_date": "2023-02-01",  "repair\_man": "填表人",  "director": "主管"  } |
| Responses | {  "message": "Delete repair data completed",  "state": true  } |