教育體系身分認證服務 IDP 介接規範

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一、 規格說明

本介接規範主要說明其標準欄位之規範格式、說明及使用範例,身分認證 服務提供者(Identity Provider,IdP)應支援 OpenID Connect 1.0 與 OAuth 2.0 之標準規格,參考文件如下列表:

OpenID Connect 1.0	http://openid.net/specs/openid-connect-core-	
	1_0.html	
OAuth 2.0	https://tools.ietf.org/html/rfc6749	

二、標準欄位規範 (claims, scopes)

1. openid (ID Token)

2. fullname (姓名)

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "title": "姓名",
    "description": "使用者的姓名",
    "type": "object",
    "properties": {
```

```
"fullname":{
                "type":"string"
              }
            },
              "required": [
                "fullname"
              1
    範例:
       "fullname": "王小明"
    }
    email (電子郵件)
3.
           "$schema": "http://json-schema.org/draft-04/schema#",
           "title": "電子郵件",
           "description": "使用者個人的教育部校園雲端電子郵件或備用
             電子郵件。",
           "type": "object",
            "properties": {
              "email":{
                "type":"array",
                      "items":{
                        "type":"string"
              "required": [
                "email"
              ]
    範例:
    {
       "email": ["test@mail.edu.tw","mymail@mail.ilc.edu.tw"]
    }
```

4. schoolid (單位代碼)

```
"$schema": "http://json-schema.org/draft-04/schema#",
      "title": "單位代碼",
      "description": "教育部統計處所訂之各級學校代碼、教育部資
       訊及科技教育司所訂之縣市教育主管機關代碼及其縣市教育
       網路中心代碼。",
      "type": "object",
      "properties": {
        "schoolid":{
          "type":"string"
        },
        "comment":{
          "type":"string",
          "enum":[
                  "研究所(博士班)","研究所(碩士班)","大學部",
                  "進修部","高中部","國中部","國小部","分校","
                  分部"
        }
      },
        "required": [
          "schoolid"
        1
範例:
   "schoolid": "123456"
}
titles (單位職稱別)
      "$schema": "http://json-schema.org/draft-04/schema#",
      "title": "單位職稱別",
      "description": "使用者隸屬單位所賦予之複合職稱",
      "type": "array",
      "items": {
        "title": "單一單位職稱",
        "type": "object",
```

5.

```
"properties": {
  "schoolid": {
     "description": "教育部學校代碼",
     "type": "string"
  },
  "titles":{
     "description":"職稱",
     "type":"array",
     "items":{
       "type":"string"
     }
},
"required": [
  "schoolid",
  "titles"
]
```

```
範例:
[

    "schoolid": "064725",
    "titles": [
        "教師"
    ]
},
{
    "schoolid": "064723",
    "titles": [
        "其他"
    ]
}
```

6. classinfo (年級班級別)

```
"$schema": "http://json-schema.org/draft-04/schema#",
"title": "年級班級別",
"description": "師生年班資訊欄位",
"type": "array",
"items": {
  "title": "單一年班資訊",
  "type": "object",
  "properties": {
    "schoolid": {
      "description": "教育部學校代碼",
      "type": "string"
    },
    "year": {
      "description": "學年度(3 碼),長度不足者前置補 0",
      "type": "string"
    },
    "semester": {
      "description": "學期(2碼),長度不足者前置補 0",
      "type": "string"
    "grade": {
      "description": "年級(2 碼),長度不足者前置補 0",
      "type": "string"
    },
    "classno": {
      "description": "班級(10 碼),長度不足者前置補 0",
      "type": "string"
    },
    "seatno": {
      "description": "座號(3碼),長度不足者前置補0",
      "type": "string"
    },
    "classtitle": {
      "description": "班級名稱",
      "type": "string"
```

```
"required": [
                  "schoolid",
                  "grade",
                  "classno",
                  "seatno",
                  "classtitle"
               ]
     範例:
     "schoolid": "064725",
         "year": "105",
         "semester": "02",
         "grade": "01",
          "classno": "0000000002",
          "seatno": "015",
         "classtitle": "一年乙班"
       },
          "schoolid": "080308",
         "year": "105",
         "semester": "02",
         "grade": "10",
         "classno": "0000000002",
         "seatno": "001",
         "classtitle": "高一孝班"
     ]
7. relation (師生資料)
              "$schema": "http://json-schema.org/draft-04/schema#",
              "title": "師生資料",
              "description": "師生關係資料欄位",
              "type": "array",
              "items": {
```

```
"title": "師生資料",
"type": "object",
"properties": {
   "schoolid": {
      "description": "教育部學校代碼",
      "type": "string"
   },
   "year": {
      "description": "學年度(3 碼),長度不足者前置補 0",
      "type": "string"
   },
   "semester": {
      "description": "學期(2 碼),長度不足者前置補 0",
      "type": "string"
   },
   "grade": {
      "description": "年級代碼(2碼),長度不足者前置補 0",
      "type": "string"
   },
   "classno": {
      "description": "班級代碼(10 碼),長度不足者前置補 0",
      "type": "string"
   },
   "classtitle": {
      "description": "班級名稱,不得為空值",
      "type": "string"
   },
   "curriculum": {
      "description": "課程資料,不得為空值",
      "type": "array",
      "items": {
         "title": "教師授課資料",
         "type": "object",
         "properties": {
             "courseid": {
                "description": "課程代碼,不得為空值",
                "type": "string"
```

```
"coursename": {
                         "description": "課程名稱,不得為空值",
                         "type": "string"
                     },
                     "students": {
                         "description": "課程學生",
                         "type": "array",
                         "items": {
                            "uuid": {
                                "description": "學生唯一代碼",
                                "type": "string"
                         }
                     }
                  }
          },
          "required": [
              "schoolid",
              "year",
              "semester",
              "grade",
              "classno",
              "classtitle",
              "curriculum",
              "courseid",
              "coursename",
              "students",
              "uuid"
   }
}
```

```
<u>範例</u>:
[
```

```
"schoolid": "014637",
"year": "108",
"semester": "02",
"grade": "05",
"classno": "0000000003",
"classtitle": "五年三班",
"curriculum": [
    {
       "courseid": "nature-z-3",
       "coursename": "自然",
       "students": [
           {
              "uuid": "00112233-4455-6677-8899-aabbccddeeff"
           },
              "uuid": "00112233-4455-6677-8899-aabbccddeeff"
       ]
    }
1
"schoolid": "014637",
"year": "108",
"semester": "02",
"grade": "05",
"classno": "0000000005",
"classtitle": "五年五班",
"curriculum": [
    {
       "courseid": "nature-z-4",
       "coursename": "自然",
       "students": [
              "uuid": "00112233-4455-6677-8899-aabbccddeeff"
           },
              "uuid": "00112233-4455-6677-8899-aabbccddeeff"
```

```
}
                     ]
              ]
           },
               "schoolid": "014601",
               "year": "108",
               "semester": "02",
               "grade": "06",
               "classno": "0000000005",
               "classtitle": "六年五班",
               "curriculum": [
                  {
                     "courseid": "information-z-1",
                     "coursename": "資訊",
                     "students": [
                         {
                            "uuid": "00112233-4455-6677-8899-aabbccddeeff"
                         },
                            "uuid": "00112233-4455-6677-8899-aabbccddeeff"
                     ]
              ]
        ]
三、強制加密欄位 (scopes)
        guid (使用者識別碼)
                "$schema": "http://json-schema.org/draft-04/schema#",
                "title": "身分證字號 SHA256 字串",
                "description": "大寫英文字串之身分證字號經過 SHA256 編碼
```

後的16進位大寫英文字串",

"type": "object",

四、 客制化角色欄位規範 (scopes)

educloudroles (教育雲應用系統)

```
"$schema": "http://json-schema.org/draft-04/schema#",
"title": "教育雲應用系統角色別",
"description": "使用者在教育雲應用系統上的角色 (縣市管理
 者、單位管理者、教師、學生、家長、其他)",
"type": "object",
"properties": {
  "type": "object",
  "usage": {
    "description": "用途",
    "type": "string"
  },
  "roles": {
    "description": "個人角色別",
    "type": [
      "array",
      "array"
    ],
    "items": {
```

```
"properties": {
         "appname": {
           "description": "應用系統名稱",
           "type": "string"
         },
         "schoolid": {
           "description": "教育部學校代碼",
           "type": "string"
         },
         "titles": {
           "description": "角色別",
           "items": {
              "type": "string"
           },
           "type": "array"
       },
       "type": "object"
}
```

五、縣市代碼表

縣市教育	縣市教育	認證服務網址
主管機關代碼	網路中心代碼	
009999	009998	https://moe.sso.edu.tw
019999	019998	https://ntpc.sso.edu.tw
029999	029998	https://ilc.sso.edu.tw
039999	039998	https://tyc.sso.edu.tw
049999	049998	https://hcc.sso.edu.tw
059999	059998	https://mlc.sso.edu.tw
079999	079998	https://chc.sso.edu.tw
089999	089998	https://ntct.sso.edu.tw
099999	099998	https://ylc.sso.edu.tw
109999	109998	https://cyc.sso.edu.tw
139999	139998	https://ptc.sso.edu.tw
149999	149998	https://ttct.sso.edu.tw
159999	159998	https://hlc.sso.edu.tw
169999	169998	https://phc.sso.edu.tw
179999	179998	https://kl.sso.edu.tw
189999	189998	https://hc.sso.edu.tw
209999	209998	https://openid.cy.edu.tw
309999	309998	https://tp.sso.edu.tw
649999	649998	https://kh.sso.edu.tw
669999	669998	https://tc.sso.edu.tw
679999	679998	https://openid.tn.edu.tw
719999	719998	https://oauth.km.edu.tw
729999	729998	https://matsu.sso.edu.tw
	主管機關代碼 009999 019999 029999 039999 049999 059999 079999 089999 109999 139999 149999 159999 169999 179999 189999 209999 309999 649999 669999 679999 719999	主管機關代碼 網路中心代碼