

教育體系身分認證服務 IDP 介接規範

106 年 09 月 05 日 v1.0 版

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)

http://openid.net/specs/openid-connect-core-1_0.html#IDToken

範例：

```
{
  "sub": "f44e00d1-ce44-4513-9eb5-1ab1b4cdebd6",
  "aud": "ba3a199485df7b35c351fa6b73032863",
  "iss": "https://sso.edu.tw",
  "preferred_username": "khtesta",
  "email": "khtesta@mail.edu.tw",
  "exp": 1497844495,
  "iat": 1497840895,
  "nonce": "2uiUII93G1x3t2WXiO22nFk7KRFOhrGR_xu8xGaAY28",
  "open2_id": [
    "http://openid.kh.edu.tw/S9923779"
  ]
}
```

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"
    ]
  }
}
```

範例：

```
{
  "fullname": "王小明"
}
```

3. email (電子郵件)

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "title": "電子郵件",
  "description": "使用者個人的校園電子郵件 (ID_Token) 或備用電子郵件 (UserInfo)。",
  "type": "object",
  "properties": {
    "email": {
      "type": "string"
    }
  },
  "required": [
    "email"
  ]
}
```

範例：

```
{
  "email": "test@mail.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"
  }
},
"required": [
  "schoolid"
]
}
```

範例：

```
{
  "schoolid": "123456"
}
```

5. 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",
    "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": [
      "組長",
      "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)",
      "type": "string"
    },
    "semester": {
      "description": "學期(2 碼)",
      "type": "string"
    },
    "grade": {
      "description": "年級(2 碼)",
      "type": "string"
    },
    "classno": {
      "description": "班級(10 碼)",
      "type": "string"
    },
    "classtitle": {
      "description": "班級名稱",
      "type": "string"
    }
  },
  "required": [
    "schoolid",
    "grade",
    "class",
    "classtitle"
  ]
}
```

範例：

```
[
  {
    "schoolid": "064725",
    "year": "105",
    "semester": "02",
    "grade": "01",
    "class": "0000000002",
```

```

        "classtitle": "電機一乙"
    },
    {
        "schoolid": "064725",
        "year": "105",
        "semester": "Ab12302cde",
        "grade": "02",
        "class": "0000000002",
        "classtitle": "臺大 JAVA 程式設計 B 班"
    }
]

```

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 SHA256 字串",
    "description": "大寫身分證字號經過 SHA56 編碼後的 16 進位字串",
    "type": "object",
    "properties": {
        "guid": {
            "type": "string"
        }
    },
    "required": [
        "guid"
    ]
}

```

範例：

```

{
    "guid":
    "92d4fe71eaae036ff7209b87cb36a74200dc64a1fb792beebfcdf622d838dbbf"
}

```

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"  
  }  
}  
}
```

範例：

```
{  
  "usage": "教育雲",  
  "roles": [  
    {  
      "appname": "edumail",  
      "schoolid": "553612",  
      "titles": [  
        "學生"  
      ]  
    }  
  ]  
}
```

五、縣市代碼表

| 縣市別 | 縣市教育 主管機關代碼 | 縣市教育 網路中心代碼 | 認證服務網址 |
|-----|----------------|----------------|---|
| 教育部 | 009999 | 009998 | https://moe.sso.edu.tw |
| 新北市 | 019999 | 019998 | https://ntpc.sso.edu.tw |
| 宜蘭縣 | 029999 | 029998 | https://ilc.sso.edu.tw |
| 桃園市 | 039999 | 039998 | https://tyc.sso.edu.tw |
| 新竹縣 | 049999 | 049998 | https://hcc.sso.edu.tw |
| 苗栗縣 | 059999 | 059998 | https://mlc.sso.edu.tw |
| 彰化縣 | 079999 | 079998 | https://chc.sso.edu.tw |
| 南投縣 | 089999 | 089998 | https://ntct.sso.edu.tw |
| 雲林縣 | 099999 | 099998 | https://ylc.sso.edu.tw |
| 嘉義縣 | 199999 | 109998 | https://cyc.sso.edu.tw |
| 屏東縣 | 139999 | 139998 | https://ptc.sso.edu.tw |
| 臺東縣 | 149999 | 149998 | https://ttct.sso.edu.tw |
| 花蓮縣 | 159999 | 159998 | https://hlc.sso.edu.tw |
| 澎湖縣 | 169999 | 169998 | https://phc.sso.edu.tw |
| 基隆市 | 179999 | 179998 | https://kl.sso.edu.tw |
| 新竹市 | 189999 | 189998 | https://hc.sso.edu.tw |
| 嘉義市 | 299999 | 209998 | https://cy.sso.edu.tw |
| 臺北市 | 399999 | 309998 | https://tp.sso.edu.tw |
| 高雄市 | 649999 | 649998 | https://kh.sso.edu.tw |
| 臺中市 | 669999 | 669998 | https://tc.sso.edu.tw |
| 臺南市 | 679999 | 679998 | https://tn.sso.edu.tw |
| 金門縣 | 719999 | 719998 | https://cnc.sso.edu.tw |
| 連江縣 | 729999 | 729998 | https://matsu.sso.edu.tw |