

# 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	<a href="http://openid.net/specs/openid-connect-core-1_0.html">http://openid.net/specs/openid-connect-core-1_0.html</a>
OAuth 2.0	<a href="https://tools.ietf.org/html/rfc6749">https://tools.ietf.org/html/rfc6749</a>

## 二、標準欄位規範（claims, scopes）

### 1. openid (ID\_Token)

[http://openid.net/specs/openid-connect-core-1\\_0.html#IDToken](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	<a href="https://moe.sso.edu.tw">https://moe.sso.edu.tw</a>
新北市	019999	019998	<a href="https://ntpc.sso.edu.tw">https://ntpc.sso.edu.tw</a>
宜蘭縣	029999	029998	<a href="https://ilc.sso.edu.tw">https://ilc.sso.edu.tw</a>
桃園市	039999	039998	<a href="https://tyc.sso.edu.tw">https://tyc.sso.edu.tw</a>
新竹縣	049999	049998	<a href="https://hcc.sso.edu.tw">https://hcc.sso.edu.tw</a>
苗栗縣	059999	059998	<a href="https://mlc.sso.edu.tw">https://mlc.sso.edu.tw</a>
彰化縣	079999	079998	<a href="https://chc.sso.edu.tw">https://chc.sso.edu.tw</a>
南投縣	089999	089998	<a href="https://ntct.sso.edu.tw">https://ntct.sso.edu.tw</a>
雲林縣	099999	099998	<a href="https://ylc.sso.edu.tw">https://ylc.sso.edu.tw</a>
嘉義縣	199999	109998	<a href="https://cyc.sso.edu.tw">https://cyc.sso.edu.tw</a>
屏東縣	139999	139998	<a href="https://ptc.sso.edu.tw">https://ptc.sso.edu.tw</a>
臺東縣	149999	149998	<a href="https://ttct.sso.edu.tw">https://ttct.sso.edu.tw</a>
花蓮縣	159999	159998	<a href="https://hlc.sso.edu.tw">https://hlc.sso.edu.tw</a>
澎湖縣	169999	169998	<a href="https://phc.sso.edu.tw">https://phc.sso.edu.tw</a>
基隆市	179999	179998	<a href="https://kl.sso.edu.tw">https://kl.sso.edu.tw</a>
新竹市	189999	189998	<a href="https://hc.sso.edu.tw">https://hc.sso.edu.tw</a>
嘉義市	299999	209998	<a href="https://cy.sso.edu.tw">https://cy.sso.edu.tw</a>
臺北市	399999	309998	<a href="https://tp.sso.edu.tw">https://tp.sso.edu.tw</a>
高雄市	649999	649998	<a href="https://kh.sso.edu.tw">https://kh.sso.edu.tw</a>
臺中市	669999	669998	<a href="https://tc.sso.edu.tw">https://tc.sso.edu.tw</a>
臺南市	679999	679998	<a href="https://tn.sso.edu.tw">https://tn.sso.edu.tw</a>
金門縣	719999	719998	<a href="https://cnc.sso.edu.tw">https://cnc.sso.edu.tw</a>
連江縣	729999	729998	<a href="https://matsu.sso.edu.tw">https://matsu.sso.edu.tw</a>