



用 Open ID 建立 SSO

國網中心 莊子民

tmchuang@nchc.org.tw

2011/3/8

Outline

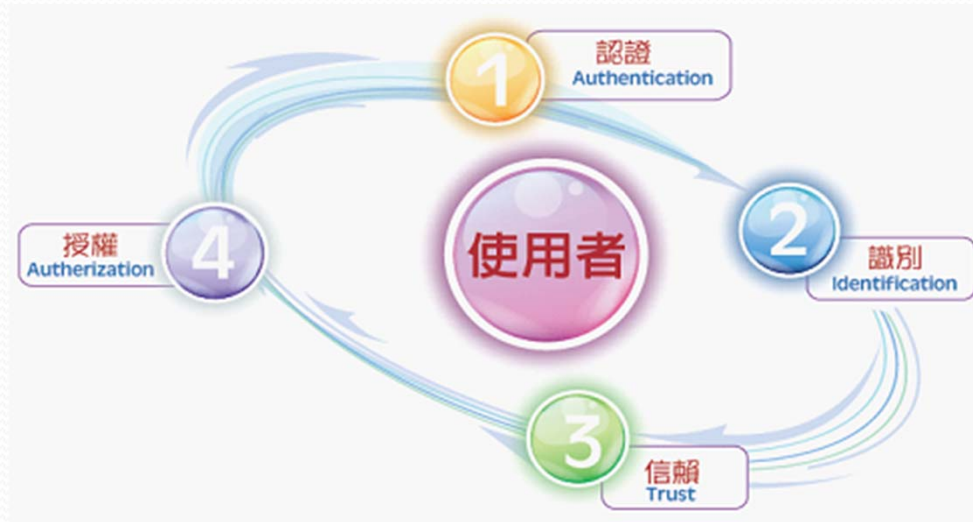
- 什麼是 OpenID ?
- 為什麼我們要用 OpenID ?
- OpenID 怎麼運作的 ?
 - OpenID 的三個角色
 - OpenID 帳號提供者
 - Delegating Authentication 說明與介紹
 - 個人資料交換
- 你要想要 OpenID 為你做什麼
- OpenID 技術探討

什麼是 OpenID

- 你還在用 excel 表格來管理自己的帳號密碼嗎？
- OpenID 是實現了 Single Sign-On (單一簽入) 技術的其中一種作法。
- 2006 年由數個網路服務公司，整合既有的想法與技術，共同提出的規範。
- 一套『**開放標準**』的規範，目前 OpenID 規範由 OpenID.net 開發中。
- 目前規範 OpenID 2.0

為什麼我們要用 OpenID ？

- OpenID 是一個以**使用者為中心**所推出的網路身份認證服務。
- 以**網站為基礎**的認證協定，適用於網路的服務，結合了認證、識別、信賴、授權等服務。



圖片截取自 <http://myid.tw>

OpenID 特性

● 方便性

- 只要向 OpenID 帳號發行者註冊，就可以登入。
- 認證流程由 OpenID 帳號發行者負責
- 身份資料交換機制

● 突破性

- OpenID 是 Identity 2.0 的實踐
- Identity 2.0
 - 源自 Web 2.0 理論，也被稱為 digital identity，網際網路身份認證。
 - 使用以使用者為中心的技術，強調的是一個簡單並且開放的身份辨識方法。
- 2008年 Google, Microsoft, Yahoo! 與 MySpace 等宣布支援
- 2009年5月 Facebook 宣布加入

OpenID 特性(續)

- **獨特性**

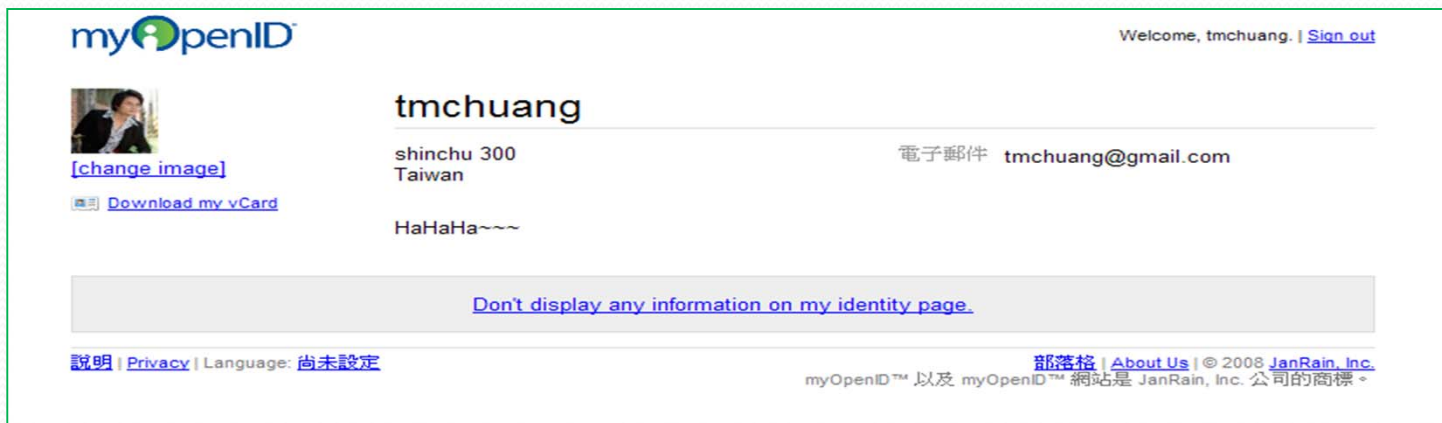
- 使用者為中心(User-Centric)的身份認證機制
- 就擁有專屬於自己的個人認證識別 (OpenID URI)
- 此 URI 可轉為 URL 做為該 OpenID 擁有者的個人資料頁面
- 提供代理認證 (Delegating Authentication) 的機制

- **整合性**

- 利用代理認證的機制，整合網路上的身份，方便其他使用者辨認又可清楚代表自己。
- 提供管理已認證的網站、是提供已登入過的網站歷史紀錄 及追蹤不正常的登入情形 etc...

OpenID 長相

- 利用 URI (Uniform Resource Identifier) 作為專屬識別
 - URI 是在網路上呈現一串如網址般的文字及符號的字串，用來識別名字資源。
 - 格式就如同網址一般，網址所含的內容完全沒有限制
Ex: <http://tmchuang.myopenid.com>
<http://openid2.colife.org.tw/user.aspx?tmchuang>



The screenshot shows a user profile page for 'tmchuang' on the myOpenID platform. The page includes a profile picture, a name, a location (shinchu 300 Taiwan), and an email address (tmchuang@gmail.com). There are links for changing the image and downloading a vCard. A message box at the bottom indicates that no information is displayed on the identity page. The footer contains links for privacy, language settings, and a disclaimer about the JanRain, Inc. trademark.

myOpenID[™] Welcome, tmchuang. | [Sign out](#)

 **tmchuang**

[\[change image\]](#) shinchu 300
Taiwan 電子郵件 tmchuang@gmail.com

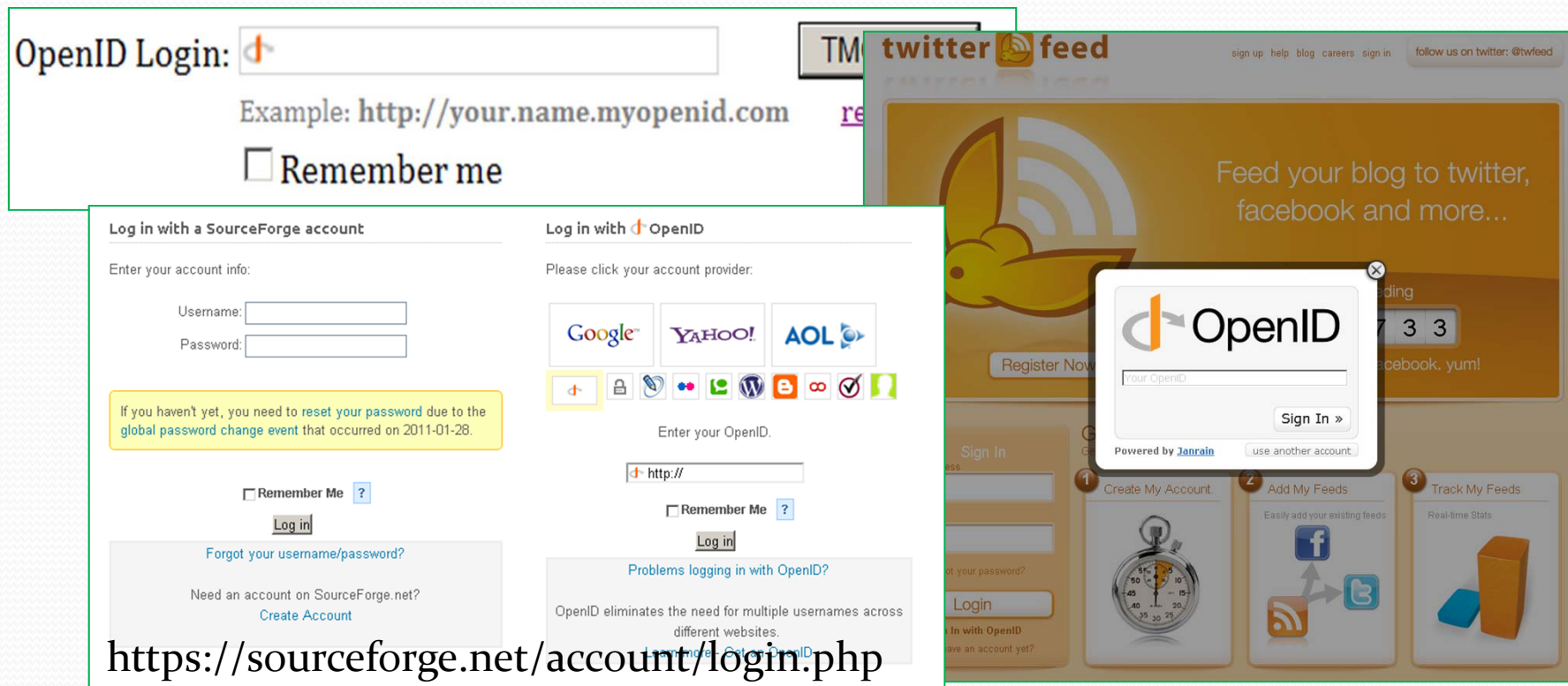
 [Download my vCard](#) HaHaHa~~~

[Don't display any information on my identity page.](#)


[說明](#) | [Privacy](#) | Language: [尚未設定](#) [部落格](#) | [About Us](#) | © 2008 JanRain, Inc.
myOpenID[™] 以及 myOpenID[™] 網站是 JanRain, Inc. 公司的商標。

OpenID 怎麼運作的

-  這個符號就是代表 OpenID，提示使用者輸入 OpenID URI 的意思。



The image shows a screenshot of the SourceForge login page. On the left, there is a "SourceForge account" login form with fields for "Username" and "Password", a "Remember Me" checkbox, and a "Log in" button. A yellow warning box states: "If you haven't yet, you need to [reset your password](#) due to the global password change event that occurred on 2011-01-28." Below the form, there are links for "Forgot your username/password?" and "Need an account on SourceForge.net? [Create Account](#)".

On the right, there is an "OpenID" login section. It says "Log in with  OpenID" and "Please click your account provider:". Below this are buttons for "Google", "YAHOO!", and "AOL". A row of smaller icons includes the OpenID logo, a lock icon, and various social media icons. Below the icons is an "Enter your OpenID:" field with a dropdown menu showing "http://". There is also a "Remember Me" checkbox and a "Log in" button. A link for "Problems logging in with OpenID?" is provided.

At the bottom of the OpenID section, there is a text box: "OpenID eliminates the need for multiple usernames across different websites. [Learn more](#) [Get OpenID](#)".

At the bottom of the entire screenshot, the URL <https://sourceforge.net/account/login.php> is displayed.

OpenID 的三個角色

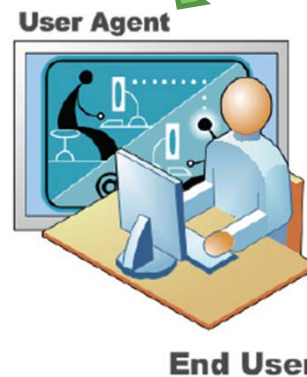


OpenID Provider (OP)
OpenID 帳號提供者
提供註冊 OpenID ，如 Yahoo 、
Google 、 Microsoft Live
Message 、 MyOpenID 、 myid.tw

由不同 Provider 提供的 OpenID
就會被視為不同的 ID



Relying Party (RP)
受信任的網站
支援 OpenID 驗證的網站
如 facebook 等



使用者

OpenID Login

- <http://bingo.handlino.com/login>

Random Life 和多繽紛樂

Login

CREATE LIST VIEW BY TAG

OpenID Login

OpenID

Remember this URL

SUBMIT

Y! Sign in with a Yahoo! ID

填入已註冊的 OpenID
<http://tmchuang.myopenid.com/>

OpenID Login (con't)

myOpenID
SECURE OPENID PROVIDER

登入

Notice

You must sign in to authenticate to <http://bingo.handlino.com/> as <http://tmchuang.myopenid.com/>

使用者名稱 <http://tmchuang.myopenid.com/>

密碼

保持登入狀態

[使用 SSL 憑證登入](#)
[我不能存取我的帳號](#)

[說明](#) | [提供意見](#) | [Privacy](#) | Language: [尚未設定](#)

myOpenID
SECURE OPENID PROVIDER

Continue »

You are signing in to bingo.handlino.com as <http://tmchuang.myopenid.com/>.

Skip this step next time I sign in to bingo.handlino.com [back to bingo.handlino.com](#)

[說明](#) | [提供意見](#) | [Privacy](#) | Language: [尚未設定](#)

myOpenID
SECURE OPENID PROVIDER

Continue »

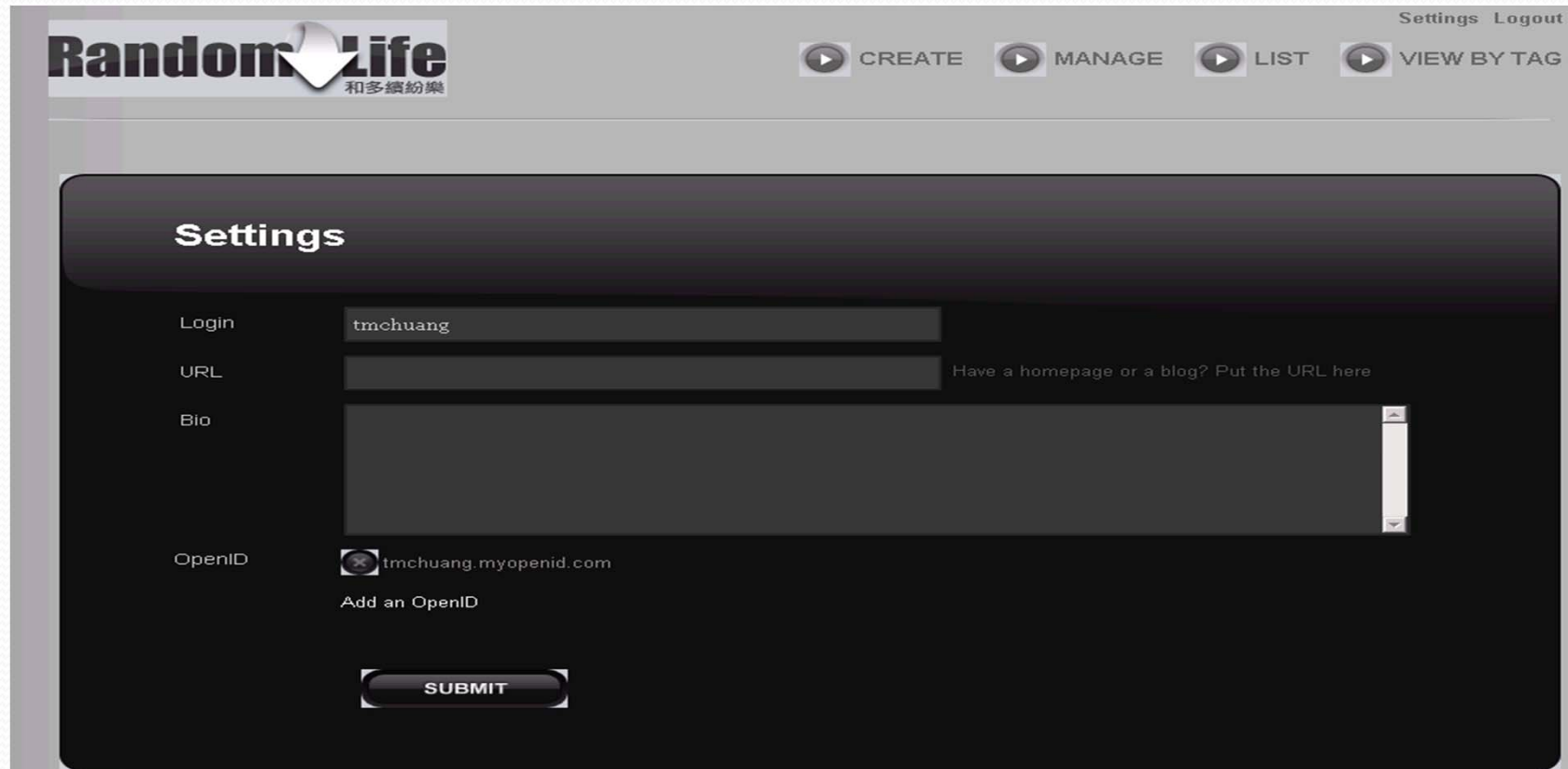
You are signing in to bingo.handlino.com as <http://tmchuang.myopenid.com/>.

Skip this step next time I sign in to bingo.handlino.com [back to bingo.handlino.com](#)

[說明](#) | [提供意見](#) | [Privacy](#) | Language: [尚未設定](#)

OpenID Login (con't)

- 已認證登入，但沒有使用者記錄，填寫之。




The screenshot shows the 'Settings' page of the 'RandomLife' website. The page has a dark theme. At the top left is the 'RandomLife' logo with the tagline '和多繽紛樂'. To the right of the logo are navigation buttons: 'CREATE', 'MANAGE', 'LIST', and 'VIEW BY TAG'. In the top right corner, there are links for 'Settings' and 'Logout'. The main content area is a dark box with the title 'Settings'. It contains several input fields: 'Login' with the value 'tmchuang', 'URL' with a placeholder 'Have a homepage or a blog? Put the URL here', and 'Bio' with a large empty text area. Below these is the 'OpenID' section, which shows a single entry 'tmchuang.myopenid.com' with a close button. Below the OpenID list is a link 'Add an OpenID'. At the bottom of the settings box is a 'SUBMIT' button.

Yahoo OpenID

YAHOO! [Login](#) [Yahoo! - Help](#)

Random

OpenID

OpenID 
 Remember


Why am I being asked for my password?

- To protect your account, you need to confirm your password periodically.**
Some Yahoo! services, such as Yahoo! Mail and Yahoo! Address Book, require you to periodically enter your password even though you are already signed in. We do this to protect your personal information.

You can adjust the length of time before password prompting--up to two weeks--by visiting [Account Info](#) and clicking on the Edit link for Member Information. ([more](#))

For your security, we will always prompt you for your password when accessing sensitive personal information, like [Account Info](#).
- Only one account can be signed in at a time.**
If you're not "lmchuang2002," [sign in with your own ID](#).

Please verify your password

 **Are you protected?**
Create your sign-in seal.
([Why?](#))

Yahoo! ID:
lmchuang2002

Password:

[Forget your ID or password?](#) | [Help](#)

Not lmchuang2002?
[Sign in as a different user.](#)

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Relevant advertising creates a better web experience. [See how](#)
NOTICE: We collect personal information on this site.
To learn more about how we use your information, see our [Privacy Policy](#)

Yahoo OpenID (con't)



Yahoo! - 常見問題

我們現在需要你的許可，允許 bingo.handlino.com 辨認你的 Yahoo! 用戶身份

按下面的「同意」按鈕後，意味著你同意 Yahoo! 可將你重新定向到 <http://bingo.handlino.com>，並允許 <http://bingo.handlino.com> 辨認你的 Yahoo! 用戶身份。但 <http://bingo.handlino.com> 不能知道你的 Yahoo! ID 和你的 Yahoo! 帳戶中的任何其他資料。

請記住：

- <http://bingo.handlino.com> 不能存取你在 Yahoo! 網站上保存的任何資料。
- Yahoo! 的私隱政策不適用於 <http://bingo.handlino.com>，故請仔細閱讀其私隱政策，了解他們如何使用你的個人資料。
- Yahoo! 與 <http://bingo.handlino.com> 沒有任何聯盟關係，對於你提供給 <http://bingo.handlino.com> 的任何用戶資料，雅虎不能保證其安全性。

登入許可

請檢視以下條款，並在下面表示你同意與否。

[全部檢視並列印](#)

自動登入服務條款 - 請仔細閱讀

您於第三人網站使用自動登入機制者，您必需自行承擔相關風險。Yahoo! 奇摩雖然已採取相關措施保護隱私權及使用者資料之完整，且 Yahoo! 奇摩對於其他公司並已實施安全

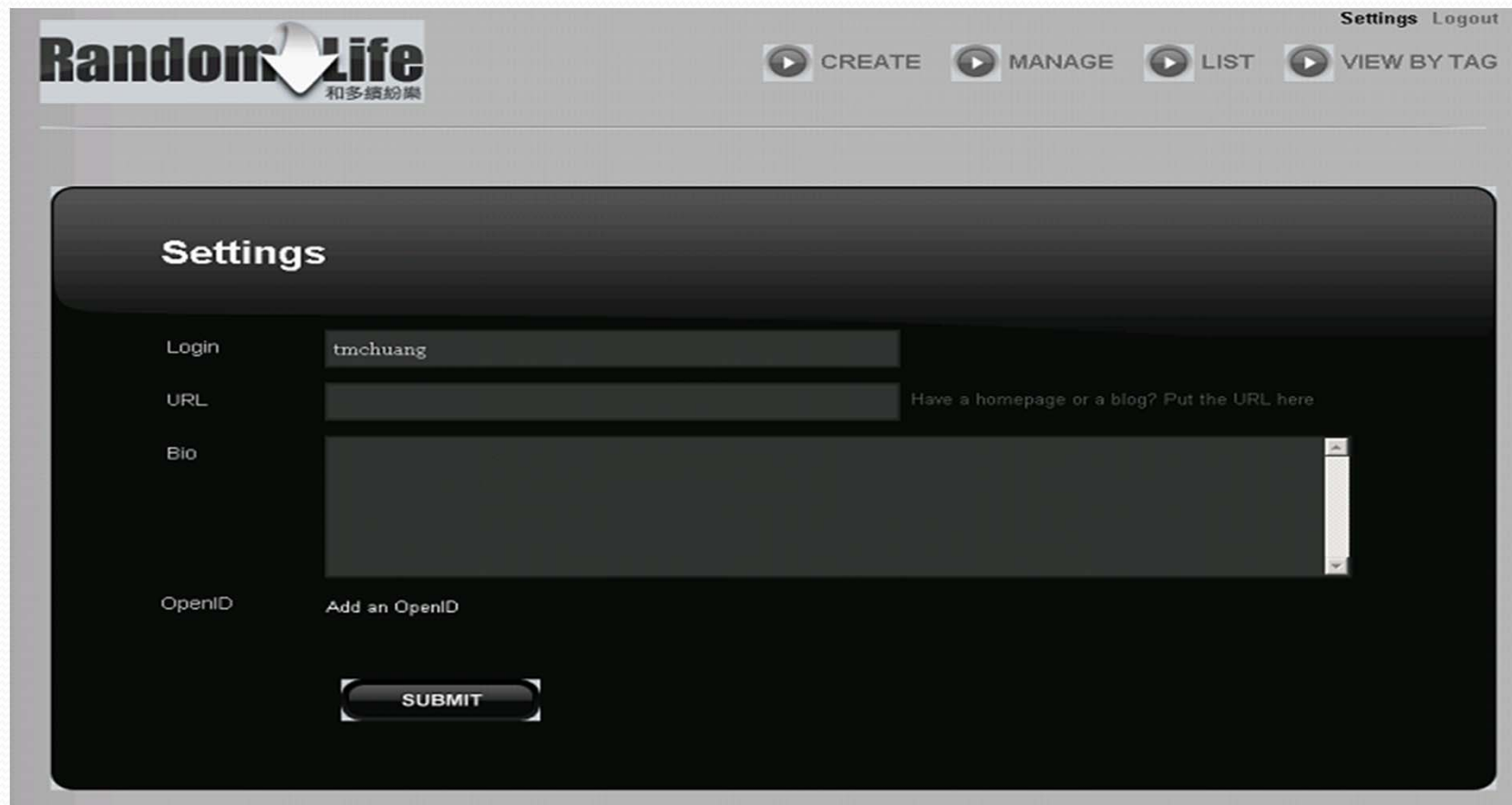
按「同意」按鈕表示你已閱讀並理解這些條款。

同意

不同意

Yahoo OpenID (con't)

- 用不同的方式登入，視為不同一個人



The screenshot shows the 'Settings' page of the 'RandomLife' website. The page has a dark grey header with the 'RandomLife' logo (and the Chinese text '和多繽紛樂') on the left, and navigation links 'Settings' and 'Logout' on the right. Below the header are four buttons: 'CREATE', 'MANAGE', 'LIST', and 'VIEW BY TAG'. The main content area is a dark grey box with a 'Settings' title. It contains four input fields: 'Login' (with the value 'tmchuang'), 'URL' (with a placeholder 'Have a homepage or a blog? Put the URL here'), 'Bio' (with a vertical scrollbar), and 'OpenID' (with the text 'Add an OpenID'). A 'SUBMIT' button is located at the bottom of the settings box.

RandomLife
和多繽紛樂

Settings Logout

CREATE MANAGE LIST VIEW BY TAG

Settings

Login

URL Have a homepage or a blog? Put the URL here

Bio

OpenID

SUBMIT

OpenID Providers

Other Well Known & Simple Providers

In addition, there are several dedicated OpenID providers that are generally recommended by various members of the community. While not a comprehensive list, each of these providers offers a free and secure OpenID to use across the web.



[Chi.mp](#) allows you to create your own social hub on an OpenID domain you own and control.



[ClaimID](#) is an easy way to manage your online identity with OpenID.



[myID.net](#) is an OpenID provider with support for groups and the Korean language.



[myOpenID](#) is the first standalone provider for both individuals and businesses, with secure multi-factor authentication.



[VeriSign's Personal Identity Provider](#) is an OpenID provider with support for multi-factor authentication.



[Your Internet ID](#) lets you build a social identity to use on the web.

OpenID Providers (con't)



中央研究院資訊科技創新研究中心
<http://myid.tw>



國網中心 Co-Life 團隊
<http://oepnid2.colife.org.tw>



<http://openid.org.cn>



http://87id.com/zh_CN

OpenID Providers (con't)

Surprise! You may already have an OpenID.

If you use any of the following services, you already have your own OpenID. Below are instructions on how to sign in with each of the following providers on an OpenID enabled website. (When you see bold text, you should replace it with your own username or screenname on that service.)



Look for the “Sign in with a Google Account” button or use your [Google Profile URL](#).



Look for the “Sign in with Yahoo” button.



Look for the “Yahoo! JAPAN IDでログイン” button.



Enter “**username.livejournal.com**”



Click the “Sign in with Hyves” button.



Enter your blog URL: “**blogname.blogspot.com**”



Look for the “Sign in with Yahoo” button or use your photostream URL



Click the “Sign in with Orange” button or enter “orange.fr”



[mixi](#) is a web service that allows users to communicate with their friends and acquaintances.



Look for the “Login with MySpaceID” button or enter “**www.myspace.com/username**”



Enter your WordPress.com URL, for example: “**username.wordpress.com**”



Look for a “Sign in with AOL” button or enter “**openid.aol.com/screenname**”

OpenID 代理認證機制

- MyOpenID URI
 - <http://tmchuang.myopenid.com>
- Google OpenID URI
 - https://www.google.com/accounts/o8/id?id=AItOawlWm3dFpddNJ0TWllz0h9J7-ImdMh_MPsI
- Yahoo Openid URI
 - <https://me.yahoo.com/a/ZsXnzPUlmcDMIJ6oMN422pIP6GXxOrDXQw--#bf1b4>

用你的熟悉的 URL 來取代上述的 OpenID URI

OpenID 代理認證機制(con't)

在自己擁有的網站首頁(<http://new.colife.org.tw>) 的 HTML 內加入
第一行是OpenID 認證伺服器的位址，第二行即為委任 OpenID URI 地址

```
<html>
<head>
  <title>tmchuang openid.delegate test</title>
  <link rel="openid.server" href="http://openid2.colife.org.tw">
  <link rel="openid.delegate" href="http://openid2.colife.org.tw/user.aspx?tmchuang">
  <link rel="openid2.provider" href="http://openid2.colife.org.tw">
  <link rel="openid2.local_id" href="http://openid2.colife.org.tw/user.aspx?tmchuang" >
  <meta http-equiv= "X-XRDS-Location" Content= "http://openid2.colife.org.tw/op_xrds.aspx" />
</head>
<body>

this is a testing...

</body>
</html>
```

OpenID 代理認證機制(con't)

The image illustrates the OpenID proxy authentication process in three stages:

- OpenID Login Dialog:** A dialog box prompts the user to enter their OpenID URL (e.g., `http://new.colife.org.tw`) and click "Sign In".
- Co-Life OpenID Login Page:** The user is redirected to the Co-Life OpenID login page, which includes a "會員登入" (Member Login) form with fields for "帳號" (username) and "密碼" (password).
- Twitter Feed "New Feed" Page:** After successful authentication, the user is redirected to the Twitter "New Feed" page. A green bar indicates "Logged in successfully". The page shows the "Step 1: Name Feed & Add Source URL" and "Step 2: Configure Publishing Services" steps.

OpenID 的個人資料交換

- 在 OpenID Simple Registration Extension 1.0 規格書中有定義九個交換屬性：

全名 (FullName)
暱稱 (Nickname)
E-mail (Email)
生日 (BirthDate)
性別 (Gender)
國家 (Country)
郵遞區號 (PostalCode)
語言 (Language)
時區 (TimeZone)



The screenshot shows the 'myOpenID' interface for editing a persona. The page title is 'EDIT PERSONAS'. Below the title, there is a section titled 'About this page' which explains that a Registration Persona is information about the user that can be sent to other sites. The main content area displays the profile for the user 'tmchuang'. On the left, there is a profile picture with a 'Change this image' link. To the right, a list of attributes and their values is shown:

全名	莊子民
暱稱	小民仔
性別	Male
生日	06 May, 1976
電子郵件	tmchuang@gmail.com
Web	http://colife.nchc.org.tw
郵遞區號	300 新竹市
國家	Taiwan
Language	Chinese (traditional)
時區	Asia/Taipei

At the bottom right of the profile area, there are two links: 'Edit this persona' and 'Delete this persona'.

OpenID 的個人資料交換(con't)

- OpenID Attribute Exchange 1.0 – Final

5. Fetch Message

5.1. Fetch Request Format

5.2. Fetch Response Format

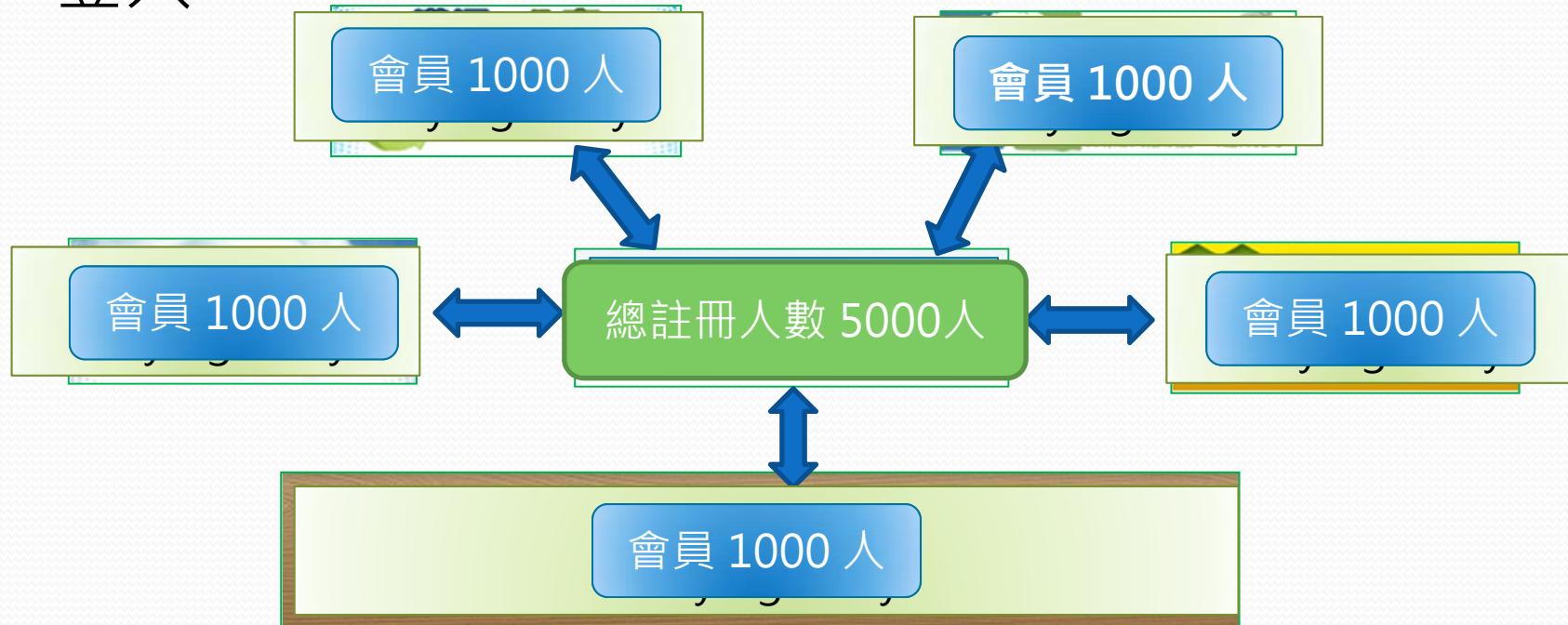
- openid.ax.mode
- **openid.ax.type.<alias>**
- openid.ax.required
- openid.ax.if_available
- openid.ax.count.<alias>
- openid.ax.update_url
-

回顧 OpenID 的功能

- OpenID 的三個角色
 - OpenID Provider (OP)
 - Relying Party (RP)
 - User
- 單一簽入(SSO) (OP) 及登入認證(RP)
- 代理認證機制
- 個人資料交換機制

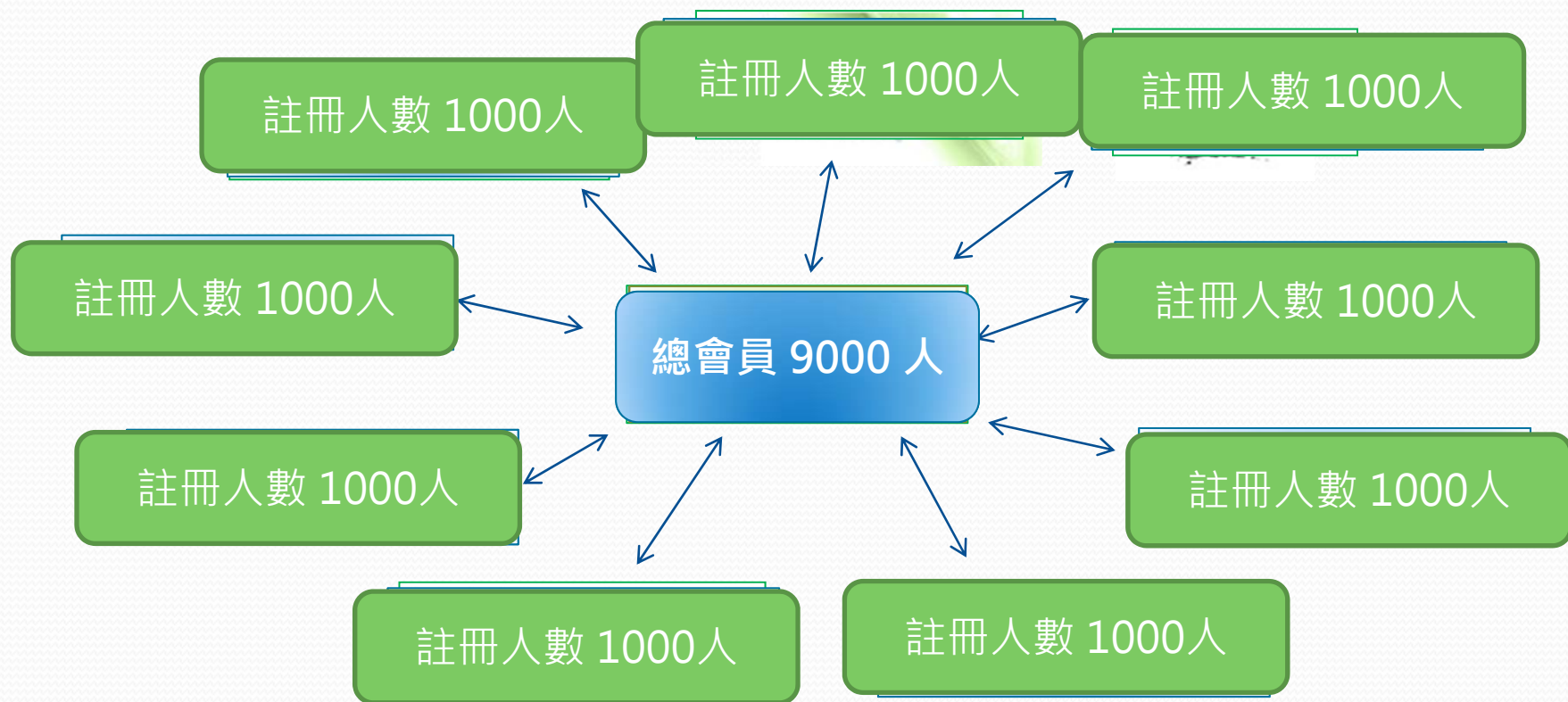
你要想要 OpenID 為你做什麼(OP)

- 整合帳號，Single Sign-On (單一簽入)
- 協助入口網、網教中心及加盟單位進行統一會員登入



你要想要 OpenID 為你做什麼(RP)

- 提升網站登入人數及人次



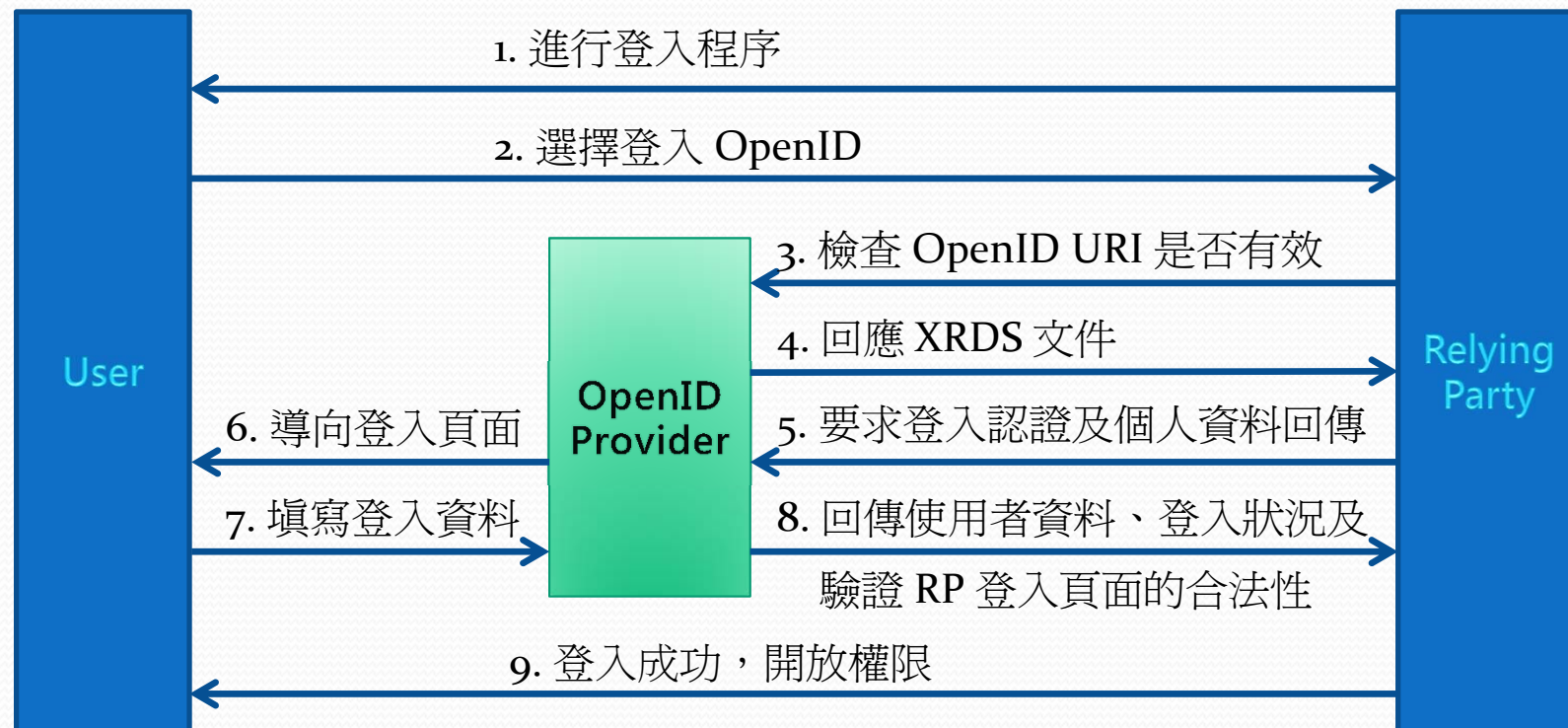
OpenID 技術探討

- 技術資料來源 <http://openid.net/>
- 目前規範 OpenID 2.0
- Support Language
 - <http://openid.net/developers/libraries/>
 - Asp.Net(C#)、PHP、Coldfusion、Java、Perl、Python、Ruby、Squeak/Smalltalk、Apache 2

導入規劃 --- OP or RP

- 規範 OpenID 1.0 或 2.0 ?
- To be an OpenID Provider or Relying Party ?
 - RP
 - 登入流程設計、相容原本的使用者系統、結合多個 OpenID 帳號
 - 需要什麼個人資料，OpenID Provider 是否有提供？
 - 帳號記錄的變更
 - OP
 - OP & RP
 - What is your OpenID URI format ?
ex: <http://tmchuang.myopenid.com>
<http://openid2.colife.org.tw/user.aspx?tmchuang>
 - 註冊欄位資料 (Simple Registration & Fetch Message)
 - 隱私權政策
- 使用何種開發語言

OpenID 登入流程



To be a RP -- 登入流程設計

- 重點：填帳號密碼的地方，是在 OpenID Provider 。

申請 | 中文

VCenter
http://vcenter.iis.sinica.edu.tw

首頁
數位典藏館
主題專家館
影片
申請
上傳檔案
影音地圖

使用 OpenID 登入:

VCENTER

myID^{beta}.tw

VCENTER

登入

Notice
You must sign in to authenticate to http://vcenter.iis.sinica.edu.tw/ as http://tmchuang.myopenid.com/

使用者名稱 http://tmchuang.myopenid.com/
密碼

保持登入狀態

• 使用 SSL 憑證登入
• 我不能存取我的帳號

說明 | Privacy | Language: 尚未設定

您的個人圖像

選項
首頁
刪除帳號
OpenID 站台目錄

myOpenID[™] http://www.myopenid.com

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http://vcenter.iis.sinica.edu.tw/lab/login/index.php

To be a RP -- 登入流程設計

- 獨立頁面處理

The image shows a screenshot of the Nano Institute of Nanotechnology Education website. The main navigation bar includes links for '會員登入' (Member Login) and '加入會員' (Join Member). A red arrow points from the '會員登入' button to a '會員登入' form on the right. The form has fields for '帳號' (Account) and '密碼' (Password), and buttons for '確定' (Confirm) and '取消' (Cancel). Below the form are links for '加入會員', '忘記密碼', and '忘記帳號'. A blue box highlights the 'Co-Life OpenID' authentication window, which contains the text: 'http://nano.narl.org.tw/ 要求登入 [Co-Life OpenID] 並取得某些個人資訊。如同意該請求，請登入，否則請取消。' and fields for '帳號' and '密碼'. A red arrow also points from the '會員登入' button to this window. A blue box at the bottom left contains the text '已進入 Co-Life OpenID 認證程序' (Already entered Co-Life OpenID authentication process).

變更直接輸入帳號/密碼

已進入 Co-Life OpenID 認證程序

To be a RP -- 登入流程設計

- 不建議使用的版型

Openid Login

knowledge.colife.org.tw/login.aspx

會員登入

* 帳號

* 密碼

確定 取消

[加入會員](#) [忘記密碼](#) [忘記帳號](#) [回首頁](#)

in 全國教師在職進修資訊網
SERVICE

已進入 OpenID
認證程式

To be a RP -- 登入流程設計

- 較好的做法一

Log in with a SourceForge account

Enter your account info:

Username:

Password:

If you haven't yet, you need to [reset your password](#) due to the [global password change event](#) that occurred on 2011-01-28.

Remember Me [?](#)

[Forgot your username/password?](#)

Need an account on SourceForge.net?

[Create Account](#)

Log in with OpenID

Please click your account provider:



Enter your OpenID.

Remember Me [?](#)

[Problems logging in with OpenID?](#)

OpenID eliminates the need for multiple usernames across different websites.

[Learn more - Get an OpenID](#)

To be a RP -- 登入流程設計

- 較好的做法二

The screenshot shows the VCenter website interface. At the top right, there are links for '申請' (Apply) and a language dropdown set to '中文'. On the left, a blue sidebar contains the 'VCenter' logo and the URL 'http://vcenter.iis.sinica.edu.tw', along with a vertical menu of site sections: '首頁', '數位典藏館', '主題專家館', '影片', '申請', '上傳檔案', and '影音地圖'. The main content area is titled '使用 OpenID 登入:' and features a login form with an input field and a '登入' button. Below the form, text explains that VCenter supports OpenID and provides a link to '申請' one if the user does not have one. The 'myID.tw beta' logo is prominently displayed. On the right side, there is a 'UP 上傳' button with a bicycle icon. At the bottom right of the main content area, a link for 'VCENTER 會員登入' is visible.

To be a RP – 個人資料交換處理

- **OpenID Simple Registration Extension 1.0**
 - 全名 (FullName) 、暱稱 (Nickname) 、E-mail (Email)
 - 生日 (BirthDate) 、性別 (Gender) 、國家 (Country)
 - 郵遞區號 (PostalCode) 、語言 (Language) 、時區 (TimeZone)
 - Require (需要,可選擇)
 - Request (必需,一定要)
- **OpenID Attribute Exchange 1.0 – Final**
 - 5. Fetch Message
 - 5.1. Fetch Request Format
 - 5.2. Fetch Response Format

OpenID Attribute Exchange

<http://www.axschema.org/types/>

Attribute Types

If you would like to define a new attribute, you can follow the [process](#) outlined on the home page.

Simple Registration

If you are currently using the Simple Registration Extension with OpenID, you can use these properties to migrate to Attribute Exchange without having to store different user data.

Type URI	Label	SREG Property
http://axschema.org/namePerson/friendly	Alias/Username	openid.sreg.nickname
http://axschema.org/contact/email	Email	openid.sreg.email
http://axschema.org/namePerson	Full name	openid.sreg.fullname
http://axschema.org/birthDate	Birth date	openid.sreg.dob
http://axschema.org/person/gender	Gender	openid.sreg.gender
http://axschema.org/contact/postalCode/home	Postal code	openid.sreg.postcode
http://axschema.org/contact/country/home	Country	openid.sreg.country
http://axschema.org/pref/language	Language	openid.sreg.language
http://axschema.org/pref/timezone	Time zone	openid.sreg.timezone

http://www.axschema.org/types

Other Attribute Types

Attribute Exchange is capable of moving around many more types of data than Simple Registration. These are the types that are currently defined for use with Attribute Exchange.

Name

http://axschema.org/namePerson/friendly	Alias/Username
http://axschema.org/namePerson	Full name
http://axschema.org/namePerson/prefix	Name prefix
http://axschema.org/namePerson/first	First name
http://axschema.org/namePerson/last	Last name
http://axschema.org/namePerson/middle	Middle name
http://axschema.org/namePerson/suffix	Name suffix

Work

http://axschema.org/company/name	Company name
http://axschema.org/company/title	Job title

Date of Birth

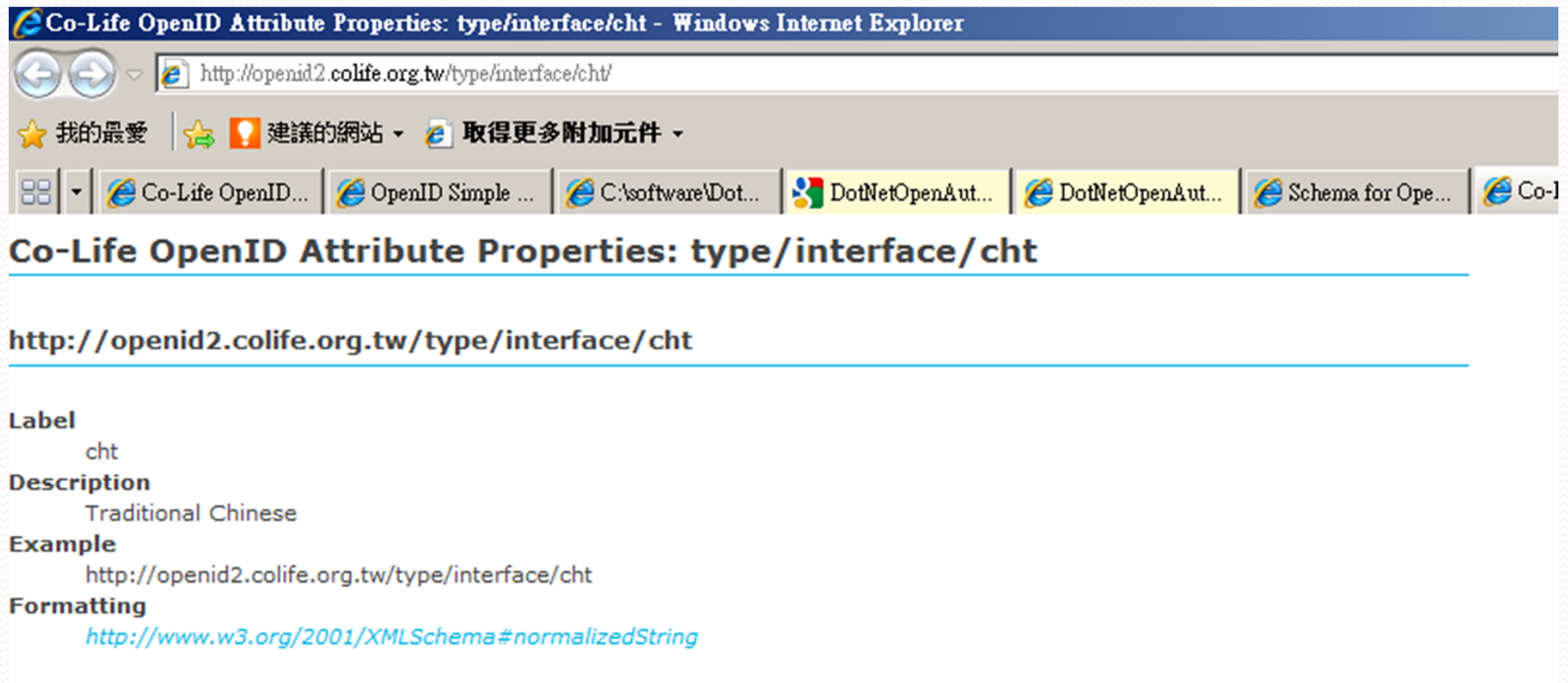
http://axschema.org/birthDate	Birth date
http://axschema.org/birthDate/birthYear	Birth year
http://axschema.org/birthDate/birthMonth	Birth month
http://axschema.org/birthDate/birthday	Birth day

Telephone

http://axschema.org/contact/phone/default	Phone (preferred)
http://axschema.org/contact/phone/home	Phone (home)
http://axschema.org/contact/phone/business	Phone (work)
http://axschema.org/contact/phone/cell	Phone (mobile)
http://axschema.org/contact/phone/fax	Phone (fax)

不存在的 Attribute

- <http://openid2.colife.org.tw/type/interface/cht>
- <http://openid2.colife.org.tw/type/interface/eng>



The screenshot shows a Windows Internet Explorer browser window. The title bar reads "Co-Life OpenID Attribute Properties: type/interface/cht - Windows Internet Explorer". The address bar contains the URL "http://openid2.colife.org.tw/type/interface/cht". Below the address bar are navigation buttons (back, forward) and a search bar. The main content area displays the following information:

Co-Life OpenID Attribute Properties: type/interface/cht

http://openid2.colife.org.tw/type/interface/cht

Label
cht

Description
Traditional Chinese

Example
<http://openid2.colife.org.tw/type/interface/cht>

Formatting
<http://www.w3.org/2001/XMLSchema#normalizedString>

To be a RP – 記錄帳號的欄位變更

- MyOpenID URI
 - <http://tmchuang.myopenid.com>
- Google OpenID URI
 - https://www.google.com/accounts/o8/id?id=AItOawIWm3dFpddNJ0TWllz0h9J7-ImdMh_MPsI
- Yahoo Openid URI
 - <https://me.yahoo.com/a/ZsXnzPUlmcDMIJ6oMN422pIP6GXxOrDXQw--#bf1b4>

To be a RP – 結合多個 OpenID 帳號

facebook 1 2 搜尋

我的帳號

設定 網路 通知 手機版 語言 交易付款 Facebook 廣告

名稱 [更改](#)
你的真實姓名。 Tzumin Chuang Tmchuang

短網址 [更改](#)
你的個人化網址

電郵地址 [更改](#)
設定你的聯絡電郵資料。 tmchuang@gmail.com

密碼 [更改](#)
登入時必填的資料。 *****

外部帳號連結 [隱藏](#)
在你登入任何一個已連結的外部帳戶時，你可同時自動登入 Facebook。

已建立連結的帳號：
 Google (移除)

OpenID...
http://openid2.colife.org.tw/user.aspx?tmchuang

[與外部帳號建立連結](#)

OpenID RP 驗證設定 by OP

登入頁 <http://rp.colife.org.tw/login.aspx>

<http://rp.colife.org.tw> 首頁內容

```
<html>
<head>
  <title>Openid Login</title>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <meta http-equiv="X-XRDS-Location" content="http://rp.colife.org.tw/xrds.aspx"/>
</head>
<body>
```

..... xrds.aspx

```
<?xml version="1.0" encoding="UTF-8"?>
<xrds:XRDS xmlns:xrds="xri://$xrds " xmlns:openid=http://openid.net/xmlns/1.0 xmlns="xri://$xrd*($v*2.0)">
<XRD>
  <Service>
    <Type>http://specs.openid.net/auth/2.0/return_to</Type>
    <URI priority="1">http://rp.colife.org.tw/loginprogrammatic.aspx</URI>
    <URI priority="2">http://rp.colife.org.tw/login.aspx</URI>
  </Service>
</XRD>
</xrds:XRDS>
```

To be an OP

- 需要一個 RP for 測試
- What is your OpenID URI format ?
ex: <http://tmchuang.myopenid.com> → Need DNS
<http://openid2.colife.org.tw/user.aspx?tmchuang>
- 決定所需的註冊欄位資料
 - **Simple Registration**
 - FullName 、 Nickname 、 Email 、 BirthDate 、 Gender 、 Country 、 PostalCode 、 Language 、 TimeZone
 - Require (需要,可選擇) 、 Request (必需,一定要)
 - **Fetch Message**
 - 5.1. Fetch Request Format
 - 5.2. Fetch Response Format
 - **User Define**

To be an OP – 隱私權政策

- 個資法的通過...
- 什麼資料可以給、什麼資料不能給

姓名: 林滿

性別: 女

電子郵件:
inservice3@colife.org.tw

我同意以上資料提供「知識大講堂」漫遊使用

登入

Notice [關閉](#)

You must sign in to authenticate to http://rp.colife.org.tw/ as http://tmchuang.myopenid.com/

使用者名稱 http://tmchuang.myopenid.com/

密碼

保持登入狀態

OpenID 開發語言

<http://openid.net/developers/libraries/>

Apache 2

mod_auth_openid

mod_auth_openid is an authentication module for the Apache 2 webserver.

License: MIT Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

C#

DotNetOpenId / DotNetOpenAuth

Supports OAuth, OpenID+OAuth extension, InfoCard. Includes easy ASP.NET controls.

License: Ms-PL Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0**

Coldfusion

OpenID CFC

Consumer library for OpenID auth framework.

License: **Apache v2** Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

CFOpenID

CFOpenID is the Coldfusion implementation of OpenID consumer specification. It is intended to details specific to OpenID and providing you with simple API to integrate it into your site.

License: **Apache v2** Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

CFKit OpenID

A hopefully easy to implement openid consumer component for coldfusion.

License: **Apache v2** Relying Party: **Yes** Identity Provider: **No** Compatibility: **1.1**

OpenID 開發語言 (con't)

Java

JOpenID

JOpenID is an OpenID 2.0 Java 5 implementation for Google Federated Login.

License: [Apache v2](#) Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

dyuproject

java REST framework, openid 2.0 relying party, oauth consumer and service provider, JSON IOC

License: [Apache v2](#) Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

JOID

JOID lets you create both OpenID 2.0 relying parties and identity providers.

License: [Apache v2](#) Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0**

OpenID4Java

This library allows you to OpenID-enable your Java webapp.

License: [Apache v2](#) Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0** Mailing list:

[OpenID4Java](#)

OpenID 開發語言 (con't)

Perl

OpenID4Perl

This library allows you to OpenID-enable your Java webapp.

License: [Apache v2](#) Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0** Mailing list:
[OpenID4Perl](#)

Net::OpenID::Consumer

Net::OpenID::Consumer - library for consumers of OpenID identities

License: [Perl](#) Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

Net::OpenID::Server

Net::OpenID::Server - library for building your own OpenID server

License: [Perl](#) Relying Party: **No** Identity Provider: **Yes** Compatibility: **2.0**

NetMesh InfoGrid LID

License: [Sleepycat](#) Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0**

OpenID 開發語言 (con't)

PHP

An PHP 5 library for easy openid authentication. Works only as a consumer.

License: **MIT License** Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

PHP OpenID Library

The PHP OpenID library lets you enable OpenID authentication on sites built using PHP. It features the OpenID consumer, Store implementations, and an OpenID server.

License: **Apache v2** Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0**

Simple OpenID PHP Class

Authenticate users with OpenID single sign-on

License: **Unknown** Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

OpenID component for CakePHP

An OpenID component for CakeP

License: **MIT** Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

sfOpenIDPlugin for Symfony

Module to handle authentication via OpenID

License: **Unknown** Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

EasyOpenID

A PEAR-free library for OpenID relying party.

License: **BSD/GPL** Relying Party: **Yes** Identity Provider: **No** Compatibility: **2.0**

OpenID 開發語言 (con't)

Python

Python OpenID Library

A Python library for verifying and serving OpenID identities. Python OpenID makes it easy to add OpenID authentication to your web applications.

License: **Apache v2** Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0**

Google App Engine Django OpenID Library

OpenID Consumer/Relying Party (RP) for Google App Engine Django projects implemented as a Django app.

License: **GPLv3** Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0** Mailing list: google-app-engine-django-openid

Ruby

Ruby OpenID Library

A Ruby library for verifying and serving OpenID identities. Ruby OpenID makes it easy to add OpenID authentication to your web applications.

License: **Apache v2** Relying Party: **Yes** Identity Provider: **Yes** Compatibility: **2.0**

Squeak/Smalltalk

OpenID for Squeak

This is an implementation of OpenID consumer based on OpenID Authentication 1.1. The consumer can discover XRD or OpenID descriptions and establish DH-SHA1 association with the provider.

License: **Unknown** Relying Party: **Yes** Identity Provider: **No** Compatibility: **1.1**

參考資料

- 10分鐘學會 OpenID OpenID 服務串接一路通 <http://myid.tw>
- OpenID.Net <http://openid.net/>
- OpenID Wikipedia <http://en.wikipedia.org/wiki/OpenID>
- OpenID Developer <http://openid.net/developers/>
- OpenID Libraries <http://openid.net/developers/libraries/>
- Google OpenID
<http://code.google.com/intl/zh-TW/apis/accounts/docs/OpenID.html>
- Yahoo OpenID <http://openid.yahoo.com/>
- MyOpenID <http://www.myopenid.com>
- Twitter Feed <http://twitterfeed.com/>
- DotNetOpenAuth <http://www.dotnetopenauth.net/>

謝謝指教