

雙向 SSL (Java)

範例程式

```
<%@ page language="java" contentType="text/html; charset=BIG5" pageEncoding="BIG5"%>
<%@ page import="org.apache.axis.client.Service"%>
<%@ page import="org.apache.axis.client.Call"%>
<%@ page import="javax.xml.namespace.QName"%>
<%@ page import="javax.xml.rpc.encoding.XMLType"%>
<%@ page import="javax.xml.rpc.ParameterMode"%>
<%@ page import="java.util.Map,org.dom4j.Document,org.dom4j.DocumentException,org.dom4j.DocumentHelper,org.dom4j.Node"%>
<%
//驗證碼
    System.setProperty("javax.net.ssl.keyStore", "D:\\temp\\ssows.pfx");//指定 .pfx 憑證檔的路徑
    System.setProperty("javax.net.ssl.keyStoreType", "pkcs12");
    System.setProperty("javax.net.ssl.keyStorePassword", "123456"); //設定憑證檔的密碼
    //於呼叫服務前加上這三行

String TokenServiceURL = "https://124.219.33.34:8182/SSOWSToken/services/GetToken.GetTokenHttpSoap11Endpoint";
String action          = "urn:GetTokenID";//取得TokenID的路徑

java.sql.Timestamp dealTime = new java.sql.Timestamp( (new java.util.Date()).getTime() );

//輸入參數
```

```
String systemid = request.getParameter("systemid");//系統帳號
```

```
String password = request.getParameter("password");//密碼
```

```
String TOKENID = "";
```

```
String FLAG = "";
```

```
String INFO = "";
```

```
String SSOKEY = "";
```

```
//回傳參數
```

```
String ws_return = ""; //回傳XML
```

```
if(systemid !=null && password !=null){
```

```
    Service service = new Service();
```

```
    Call call = null;
```

```
    try {
```

```
        //基本設定
```

```
        call = (Call) service.createCall();
```

```
        call.setTargetEndpointAddress(TokenServiceURL);
```

```
        call.setPortName(new QName("", "GetTokenPortType"));
```

```
        call.setOperationStyle("WRAPPED");//style
```

```
        call.setOperationUse("literal");
```

```
        System.out.println("BB");
```

//使用SOAP

```
call.setUseSOAPAction(true);
```

```
call.setSOAPActionURI(action);
```

//呼叫的方法名

```
call.setOperationName(new QName("http://com.thinkon.sso", "GetTokenID"));
```

//設定參數(輸入)

```
call.addParameter(new QName("http://com.thinkon.sso", "systemid"), XMLType.XSD_STRING, String.class, ParameterMode.IN);
```

```
call.addParameter(new QName("http://com.thinkon.sso", "password"), XMLType.XSD_STRING, String.class, ParameterMode.IN);
```

//設定參數 (回傳)

```
call.addParameter(new QName("http://com.thinkon.sso", "return"), XMLType.XSD_STRING, ParameterMode.OUT);
```

//設定回傳型態

```
call.setReturnType(org.apache.axis.encoding.XMLType.AXIS_VOID);
```

//傳值

```
call.invoke(new Object[] {systemid,password});
```

```
Map output = call.getOutputParams();
```

```
ws_return = (String) output.get(new QName("http://com.thinkon.sso", "return"));
```

```
System.out.println("ws_return::"+ws_return);
TOKENID = getSpecificXmlTag(ws_return, "//TOKENID");
FLAG     = getSpecificXmlTag(ws_return, "//FLAG");
INFO     = getSpecificXmlTag(ws_return, "//INFO");
```

//顯示呼叫GettokenID的回傳值於網頁中

```
out.println("呼叫GetTokenID"+"<br>");
out.println("TOKENID : "+TOKENID+"<br>");
out.println("FLAG : "+FLAG+"<br>");
out.println("INFO : "+INFO+"<br>");
```

```
} catch (Throwable ex) {
```

```
    out.println(ex + "<br>["+ testmsg +"]");
```

```
}
```

```
if(FLAG.equals("true")){
```

```
    String xml = "<?xml version='1.0' encoding='UTF8'?>" +
```

```
    "<PERSON>" +
```

```
    "<UID>F142160614</UID>" +
```

```
    "<CN>測試人員名稱</CN>" +
```

```
    "<BIRTHDAY>20090826</BIRTHDAY>" +
```

```
    "<TEL>04-23421211</TEL>" +
```

```
    "<FAX>04-23011011</FAX>" +
```

```
"<MOBILE>0988222111</MOBILE>" +  
"<EMAIL>test@thinkon.com.tw</EMAIL>" +  
"<ADDR>台中縣</ADDR>" +  
"<HOSPITALCODE>111201211</HOSPITALCODE>" +  
"<ORGANIZATIONALCODE>44402021</ORGANIZATIONALCODE>" +  
"<USERID>L199000530</USERID>" +  
"</PERSON>";
```

```
ws_return = getAddUser(TOKENID,xml);
```

```
try{
```

```
    SSOKEY = getSpecificXmlTag(ws_return, "//SSOKEY");
```

```
    FLAG    = getSpecificXmlTag(ws_return, "//FLAG");
```

```
    INFO    = getSpecificXmlTag(ws_return, "//INFO");
```

```
}
```

```
catch (Throwable e){
```

```
    System.out.println("AddUserERR_ex:."+e+"["+ testmsg +"]");
```

```
}
```

```
//顯示呼叫執行新增帳號功能的回傳值於網頁中
```

```
out.println("執行新增帳號功能"<br>");
```

```
out.println("SSOKEY : "+SSOKEY<br>");
```

```
out.println("FLAG : "+FLAG<br>");
```

```
out.println("INFO : "+INFO<br>");
```

```
}
```

```
}
```

```
%>
```

```
<%!
```

```
/**
```

```
 * 傳入XML格式文件，以XPath方式取得元素值
```

```
 * @param xmlDocument
```

```
 *           XML 格式文件
```

```
 * @param xPath
```

```
 *           XPath 語法
```

```
 */
```

```
public String getSpecificXmlTag(String xml,String xPath) throws DocumentException, Throwable {
```

```
    String content = "";
```

```
    Document document = DocumentHelper.parseText(xml);
```

```
    Node nodeId = document.selectSingleNode(xPath);
```

```
    content = nodeId.getText();
```

```
    return content;
```

```
}
```

```
//取得AddUser新增帳號
```

```
public String getAddUser(String TokenID,String xml){
```

```
    String AddUser_XML = "";//回傳參數XML
```

```
    String SSOServiceURL = "https://124.219.33.34:8182/SSOWS/services/SSO.SSOHttpSoap11Endpoint";
```

```
String action_AddUser = "urn:AddUser";//取得AddUser的Action
Service service = new Service();
Call call = null;
try{
    //基本設定
    call = (Call) service.createCall();
    call.setTargetEndpointAddress(SSOServiceURL);
    call.setPortName(new QName("", "SSOPortType"));
    call.setOperationStyle("WRAPPED");//style
    call.setOperationUse("literal");
    System.out.println("BB");
    //使用SOAP
    call.setUseSOAPAction(true);
    call.setSOAPActionURI(action_AddUser);
    System.out.println("CC");

    //呼叫的方法名
    call.setOperationName(new QName("http://com.thinkon.sso", "AddUser"));
    System.out.println("DD");

    //設定參數(輸入)
    call.addParameter(new QName("http://com.thinkon.sso", "TokenID"), XMLType.XSD_STRING, String.class, ParameterMode.IN);
    call.addParameter(new QName("http://com.thinkon.sso", "xml"), XMLType.XSD_STRING, String.class, ParameterMode.IN);
}
```

```
//設定參數 (回傳)
call.addParameter(new QName("http://com.thinkon.sso", "return"), XMLType.XSD_STRING, ParameterMode.OUT);

//設定回傳型態
call.setReturnType(org.apache.axis.encoding.XMLType.AXIS_VOID);

//傳值
call.invoke(new Object[] {TokenID,xml});
Map output = call.getOutputParams();

AddUser_XML = (String) output.get(new QName("http://com.thinkon.sso", "return"));
System.out.println("AddUser_XML::"+AddUser_XML);
}catch(Exception ex){
    System.out.println("AddUserERR_ex::"+ex);
}
return AddUser_XML;
}
%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=BIG5">
```



```
<script type="text/javascript">
function test(){
    document.form1.submit();
}
</script>
<title>Insert title here</title>
</head>
<body>
<form name="form1" action="">
<input type="text" name="systemid" maxlength="10" value=""><br>
<input type="text" name="password" maxlength="10" value=""><br>
<input type="button" value="確定" onclick="test()">
</form>
</body>
</html>
```