

## Creating a Java™ Servlet proxy for CLEAN\_Address web service

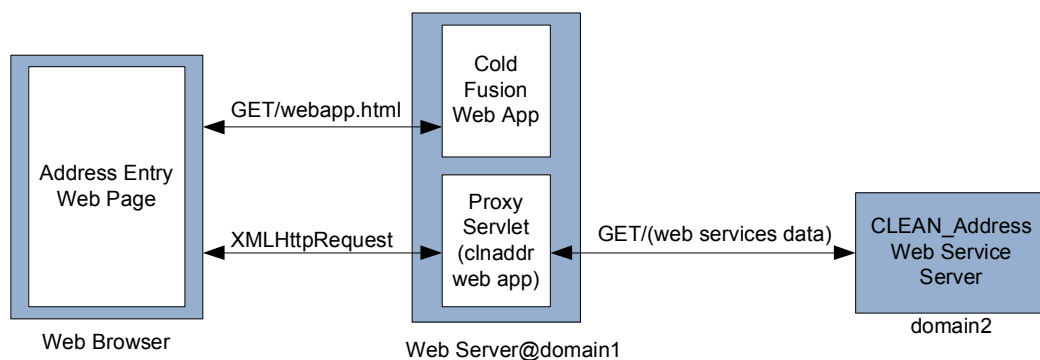
### Problem:

Modern web browsers impose a security restriction on network connection, which includes AJAX calls to XMLHttpRequest via Java Script. This restriction prevents a script (in this case Java Script) or application from making a connection to any web server other than the one the web page was served from. The exception is Internet Explorer which allows cross-domain requests if the option has been enabled in the browser preferences; however, there is no guarantee this preference has been set.

If both the web application and the request data come from the same server, you do not run into this restriction. However; if your web application is served from one web server, and you make web service data requests to another server, e.g., to the CLEAN\_Address Web Service on another server, the browser prevents the connection from being opened at all.

### Solution:

The most commonly used solution to this problem is to install a proxy on your web server, so instead of your web client making the XMLHttpRequest calls directly to the web service, the client makes the call to your web server proxy, the proxy in turn makes the web service call to the service, and passes the response back to your web client. Because the connection from the browser client is made to your server, and the response is also returned from your server, the browser cannot complain about a cross-domain security violation.



In order to support the development of remote applications requiring interface to clean address existing on its own domain, a reference implementation has been prepared. The following are:

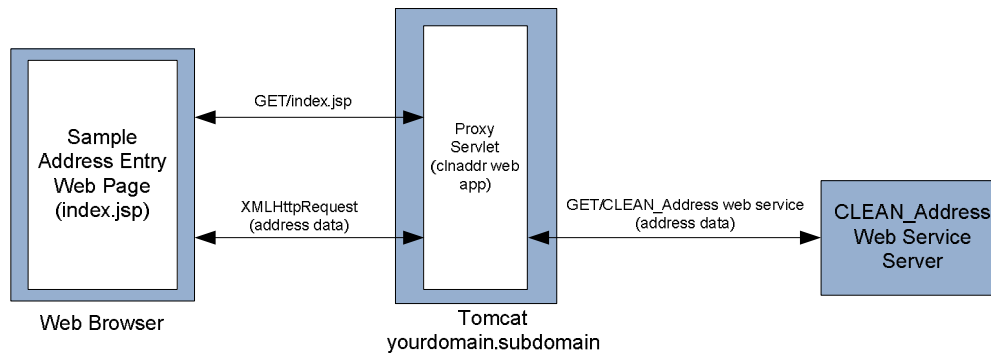
### Clnaddr-WebModule.zip

CLEAN\_Address archive containing reference source code in folders  
"clnaddr-war\src\java\clnaddr\servlets" and "clnaddr-war\src\java\clnaddr\ws"

### clnaddr.war

CLEAN\_Address deployable web archive file containing reference servlet implementation. After unzipping the clnaddr-WebModule.zip located in "dist" folder. Note: After installing, the properties file must be modified to point to your web service server. Configuration for the implemented servlet can be found in the web.xml file.

## YOUR CONFIGURATION



### Getting up-and-running on the Kwaltz.ntdom.cupdx windows server:

- Install CLEAN\_Address web server on C:\CLEAN\_Address (port=8097);
  - Configure host and port in file clnaddrws.ini found at c:\CLEAN\_Address\bin
 

```
WebServiceServerPort    = 8097
WebServiceServerHost     = 70.103.52.136
```
- Set clnaddrws.exe found in "C:\CLEAN\_Address \bin" to run as a windows service;
- Install Java runtime environment at c:\Program Files\Java\jre1.5.0\_22;
- Install Tomcat web server at c:\Program Files\Apache Software Foundation\Tomcat 5.5 (port = 8098);
  - This service is not set to startup automatically so remember to configure service;
- Deploy clnaddr (clnaddr.war) web application on web server (Tomcat);
- Modify global variable(see below) in index.jsp page found in the web application directory "c:\Program Files\Apache Software Foundation\Tomcat 5.5\webapps\clnaddr\" to point to servlet running in Tomcat server.

***gvAddressUrl = 'http://localhost:8098/clnaddr/verifyAddress';***

- Modified clnaddr properties file "clnaddr.properties" found at "c:\Program Files\Apache Software Foundation\Tomcat 5.5\webapps\clnaddr\WEB-INF\" to point to CLEAN\_Address web service server:
  - clnaddrws.serverHost=70.103.52.136
  - clnaddrws.serverPort=8097
- Stop and re-start web server (Tomcat) to use new properties file configuration;
- Tested sample address verification web page by opening resource at <http://localhost:8098/clnaddr/>, refer to page displayed below;

This reference implementation was prepared to assist in integrating your existing applications with the CLEAN\_Address web server, should you have questions or require further assistance, please contact us at [www.runnertechnologies](http://www.runnertechnologies) .

## web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/j2ee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation=http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-app\_2\_4.xsd version="2.4">

  <session-config>
    <session-timeout> 30</session-timeout>
  </session-config>

  <servlet>
    <servlet-name>VerifyAddress</servlet-name>
    <servlet-class>clnaddr.servlets.VerifyAddress</servlet-class>
    <load-on-startup>2</load-on-startup>
  </servlet>

  <servlet-mapping>
    <servlet-name>VerifyAddress</servlet-name>
    <url-pattern>/verifyAddress/*</url-pattern>
  </servlet-mapping>

  <welcome-file-list>
    <welcome-file>index.jsp</welcome-file>
  </welcome-file-list>

</web-app>
```

## clnaddr.properties

```
# CLEAN_Address Web Module properties file clnaddr.properties
clnaddrws.serverHost=72.35.74.35
clnaddrws.serverPort=8097
```