



## Web Proxy Auto Discovery (WPAD)

### Configuration Guide

Revision 1.0.1

#### **Warning and Disclaimer**

This document is designed to provide information about the configuration and installation of the **CensorNet Professional (CNPRO)**. Every effort has been made to make this document as complete and accurate as possible, but no warranty or fitness is implied.

CensorNet Ltd does not accept any liability for poorly designed or malfunctioning networks.

## Table of Contents

Table of Contents .....	2
Introduction .....	3
Requirements.....	3
Creating, Configuring and Deploying WPAD.....	4
Creating the wpad.dat file .....	4
Configuring Apache .....	5
Deploying WPAD to Client Machines .....	6
By DHCP.....	6
By DNS.....	6
Configuring Web Browsers on Client Machines .....	7
Internet Explorer 5 and above .....	7
Firefox 2 and above .....	7
Technical Support.....	8

## **Introduction**

The Web Proxy Autodiscovery Protocol (WPAD) is a method used by clients to locate a proxy auto-configuration file and use this to configure the Web browser proxy settings automatically.

WPAD is an alternative to using Active Directory Group Policies to force Web browser proxy settings and should be used when the client machines are mobile (e.g. a laptop) and the proxy settings should only be set when the client machine is joined to the network where CensorNet resides.

## ***Requirements***

- Root access to the CensorNet server, either using PuTTY or console.
- Windows 2003 server.
- Web browser.

## Creating, Configuring and Deploying WPAD

### *Creating the wpad.dat file*

1. Login as **root** on the CensorNet server using SSH or at the command line console (keyboard connected to CensorNet server).
2. Change to the Web root directory by typing `cd /var/www/`
3. Create a new file, called **wpad.dat** by typing: `nano wpad.dat`
4. Copy the following exactly, replacing **192.168.0.1** with the IP address of your CensorNet server.

```
function FindProxyForURL(url, host) {  
    return "PROXY 192.168.0.1:8080; DIRECT";  
}
```

5. Hold down **Ctrl** and press **O** and then press **Enter** to save the file.
6. Hold down **Ctrl** and press **X** to exit the editor.
7. Typing: `cat /var/www/wpad.dat` should display the contents of the file as shown in point4.

## Configuring Apache

The next step is to reconfigure the Apache Web server so that it knows how to handle the WPAD file.

1. Type: `nano /etc/apache/httpd.conf`
2. Hold down **Ctrl** and press **W** to start a search. Type "AddType" and press enter. This will move you to the part of the configuration that handles MIME types.
3. On a new line, add the following:-

```
AddType application/x-ns-proxy-autoconfig .dat
```

4. Your configuration file should now look similar the screenshot below:-

```
#
# AddType allows you to tweak mime.types without actually editing
# it, or to make certain files to be certain types.
#
# For example, the PHP 3.x module (not part of the Apache
# distribution - see http://www.php.net) will typically use:
#
#AddType application/x-httpd-php3 .php3
#AddType application/x-httpd-php3-source .phps
#
# And for PHP 4.x, use:
#
#AddType application/x-httpd-php .php
#AddType application/x-httpd-php-source .phps

AddType application/x-tar .tgz
AddType image/bmp .bmp

# hhtml
AddType text/x-hhtml .hhtml

AddType application/x-ns-proxy-autoconfig .dat

#
# AddHandler allows you to map certain file extensions to "handlers",
# actions unrelated to filetype. These can be either built into
# the server or added with the Action command (see below).
#
```

5. Hold down **Ctrl** and press **O** and then press **Enter** to save the file.
6. Hold down **Ctrl** and press **X** to exit the editor.
7. Now you must restart Apache, by typing:- `/etc/init.d/apache restart`

## ***Deploying WPAD to Client Machines***

There are two methods to deploy the WPAD file to client machines. You can use either one method or both, depending on your network configuration.

**Please note these instructions apply to Windows 2003 Server.**

### **By DHCP**

1. Click **Start -> Programs -> Administrator Tools** and then click **DHCP**.
2. In the console tree, right click on the DHCP server, click **Set Predefined Options** and then click **Add**.
3. In the Name field, type: **WPAD**
4. In the Code field, type: **252**
5. In the Data Type field select **String** and then click **OK**.
6. In the String Field, type the URL of the PAC file: **http://192.168.0.1:80/wpad.dat** replacing 192.168.0.1 with the IP address of your CensorNet server.
7. Right-click **Server Options** and click **Configure Options**.
8. Confirm that the **Option 252** option is selected.

You must now enable the option for a DHCP scope.

1. Click **Start -> Programs -> Administrator Tools** and then click **DHCP**.
2. Right-click **Scope Options** and then click **Configure Options**.
3. Click **Advanced**, and then in **Vendor Class** click **Standard Options**.
4. In **Available Options** select the **252 Proxy Autodiscovery** option and click **OK**.

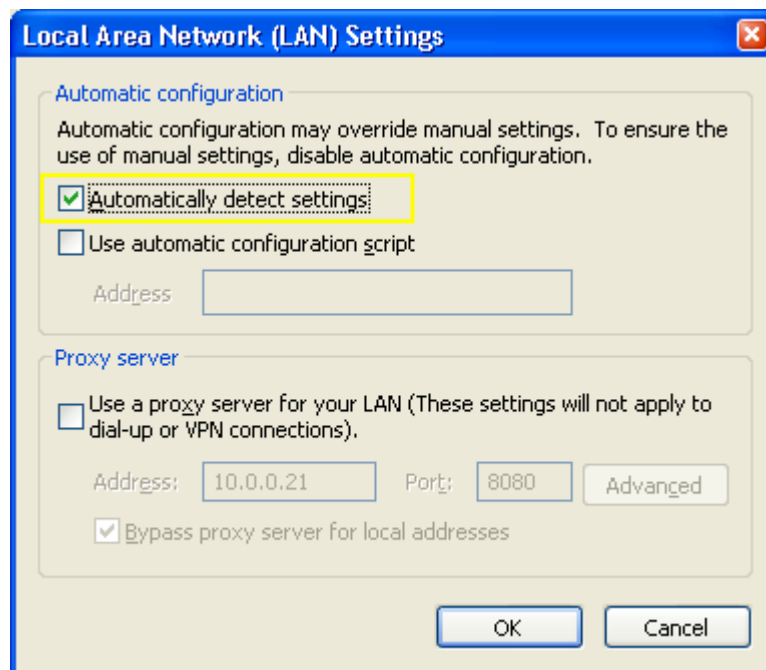
### **By DNS**

1. Click **Start -> Programs -> Administrator Tools** and then click **DNS**.
2. In the console tree, right-click on the applicable **Forward Lookup Zone** and click **New Host (A)** .
3. In the Name field, type: **wpad**
4. In the IP Address field, enter the IP address of the CensorNet server.

## Configuring Web Browsers on Client Machines

### *Internet Explorer 5 and above*

1. On the **Tools** menu, click **Internet Options**.
2. Click the **Connections** tab.
3. Click **LAN Settings**.
4. Click to select the **Automatically detect settings** check box, and then click **OK** two times.



Internet Explorer screenshot

### *Firefox 2 and above*

1. On the **Tools** menu, click **Options**.
2. Click the **Advanced** tab.
3. Click the **Network** tab.
4. Click the **Settings** button.
5. Click to select the **Auto-detect proxy settings for this network** check box, and then click **OK** two times.

## Technical Support

If you require help installing, configuring or activating CensorNet Professional please contact our Technical Support department in the following ways.

**Live Support**            <http://www.censornet.com/support>

**Telephone**            0845 230 9592 (9am-5:30pm Mon-Fri GMT)

**E-mail**                [support@censornet.com](mailto:support@censornet.com)