

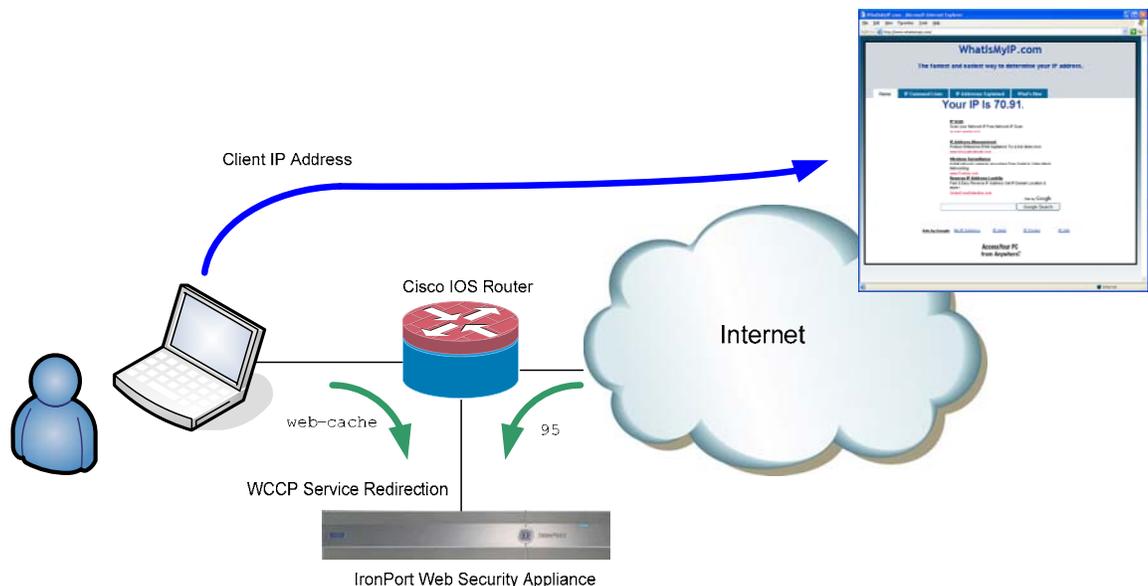
# Configuring IP Spoofing

## Cisco ISR and IronPort Web Security Appliance

### Abstract:

In a traditional proxy deployment the client's IP address is replaced with that of the proxy/cache server. While this provides inherent security by masking the address of the end user, in some cases certain web applications require access to the originating clients IP address.

By implementing the "IP Spoofing" feature in the IronPort Web Security Appliance (WSA) and configuring the appropriate WCCP service groups on a Cisco IOS device, it is possible to present the client's IP address to web applications instead of that of the WSA. The following document describes the necessary configuration steps for this implementation.



### Description:

To implement the "IP Spoofing" feature, two unique WCCP service groups needed to be created on IOS router. The first WCCP web-cache group redirects http/port 80 traffic from the user to the WSA. Specific access control lists can be configured (as shown in the example below) to control which users are protected by the IronPort appliance. The user interface on the router is configured to redirect inbound traffic to this WCCP service group

The second WCCP service group needs to be defined as "95". Again an access list is used to control what users are protected (i.e. allow for bypassing of the system altogether). For the return web traffic, the outside interface on the router is configured to redirect its inbound traffic to the WCCP service group 95.

## Equipment:

Cisco ISR Router

Tested w/ 12.4(15)T – Advanced Enterprise

Note: There is nothing specific to the IOS release tested - should would on any router that supports WCCPv2

IronPort S-650

Tested w/ 5.2.0-428

## Configuration:

Router –

```
ip wccp web-cache redirect-list redirect-list group-list group-list password cisco
ip wccp 95 redirect-list redirect-return group-list group-list password cisco
```

```
interface GigabitEthernet0/0
description Trunk
no ip address
duplex auto
speed auto
```

```
interface GigabitEthernet0/0.10
description Outbound Interface
encapsulation dot1Q 10
ip address 10.10.42.2 255.255.255.0
ip wccp 95 redirect in
```

```
!
interface GigabitEthernet0/0.65
description Cache Network
encapsulation dot1Q 65
ip address 10.10.10.2 255.255.255.0
```

```
!
interface GigabitEthernet0/0.99
description User Network
encapsulation dot1Q 99
ip address 192.168.99.2 255.255.255.0
ip wccp web-cache redirect in
```

```
!
ip access-list standard group-list
permit 10.10.10.65
```

```
!
ip access-list extended redirect-list
permit tcp 192.168.99.0 0.0.0.255 any eq www
```

```
ip access-list extended redirect-return
permit tcp any eq www 192.168.99.0 0.0.0.255
```

WCCP Service for outbound traffic

IRONPORT S650 Help  
Logged in as: admin on s650.timtown.com  
Change Password | Log Out

Monitor Web Security Manager Security Services Network System Administration

No changes are pending  
Commit Changes...

Interfaces  
Transparent Redirection  
Routes  
Authentication  
Upstream Proxy  
DNS

### Edit WCCP v2 Service

WCCP v2 Service	
Service Profile Name:	web-cache
Service:	<input checked="" type="radio"/> Standard service ID: 0 web-cache (destination port 80) <input type="radio"/> Dynamic service ID: <input type="text" value="0"/> 0-255 Port numbers: <input type="text" value="80"/> <small>(up to 8 port numbers, separated by commas)</small> <input type="radio"/> Redirect based on destination port <input type="radio"/> Redirect based on source port (return path) <small>For IP spoofing, define two services, one based on destination port and another based on source port (return path).</small>
Router IP Addresses:	<input type="text" value="10.10.10.2"/> <small>Separate multiple entries with line breaks or commas.</small>
Router Security:	<input checked="" type="checkbox"/> Enable Security for Service Password: <input type="password" value="....."/> Confirm Password: <input type="password" value="....."/>
Advanced: Optional settings for customizing the behavior of the WCCP v2 Router.	

Cancel Submit

WCCP Service for return traffic

IRONPORT S650 Help  
Logged in as: admin on s650.timtown.com  
Change Password | Log Out

Monitor Web Security Manager Security Services Network System Administration

No changes are pending  
Commit Changes...

Interfaces  
Transparent Redirection  
Routes  
Authentication  
Upstream Proxy  
DNS

### Edit WCCP v2 Service

WCCP v2 Service	
Service Profile Name:	web-return
Service:	<input type="radio"/> Standard service ID: 0 web-cache (destination port 80) <input checked="" type="radio"/> Dynamic service ID: <input type="text" value="95"/> 0-255 Port numbers: <input type="text" value="80"/> <small>(up to 8 port numbers, separated by commas)</small> <input type="radio"/> Redirect based on destination port <input checked="" type="radio"/> Redirect based on source port (return path) <small>For IP spoofing, define two services, one based on destination port and another based on source port (return path).</small>
Router IP Addresses:	<input type="text" value="10.10.10.2"/> <small>Separate multiple entries with line breaks or commas.</small>
Router Security:	<input checked="" type="checkbox"/> Enable Security for Service Password: <input type="password" value="....."/> Confirm Password: <input type="password" value="....."/>
Advanced: Optional settings for customizing the behavior of the WCCP v2 Router.	

Cancel Submit

# Enable IP Spoofing



IRONPORT S650

Help

Logged in as: admin on s650.timtown.com  
[Change Password](#) | [Log Out](#)

Monitor

Web Security Manager

Security Services

Network

System Administration

No changes are pending

[Commit Changes...](#)

Web Proxy

L4 Traffic Monitor

IronPort URL Filters

Web Reputation Filters

Anti-Malware

End-User Notification

SenderBase

## Edit Web Proxy Settings

Web Proxy Settings	
<input checked="" type="checkbox"/> <b>Enable Proxy</b>	
<b>Basic Settings</b>	
Ports to Proxy:	<input type="text" value="80, 3128"/>
Caching:	<input checked="" type="checkbox"/> Enable
IP Spoofing:	<input checked="" type="checkbox"/> Enable <small>When enabling IP spoofing, if using a WCCP router, ensure that Service ID 95 is used.</small>
<b>Advanced Settings</b>	
Reserve Timeouts:	Client Side: <input type="text" value="300"/> seconds
	Server Side: <input type="text" value="300"/> seconds
Persistent Timeouts:	Client Side: <input type="text" value="300"/> seconds
	Server Side: <input type="text" value="300"/> seconds
Simultaneous Persistent Connections	Client Maximum Number: <input type="text" value="32"/>
	Server Maximum Number: <input type="text" value="2000"/>
Headers:	X-Forwarded-For: <input type="radio"/> Send <input checked="" type="radio"/> Do Not Send
	VIA: <input checked="" type="radio"/> Send <input type="radio"/> Do Not Send

[Cancel](#)

[Submit](#)