BT Global Solutions



Y&HGFL Proxy settings advice Document Version 1

Table of Contents

1.	Intro	duction	3
	1.1	Purpose and Scope	3
2.	Statu	S	3
	2.1	Ownership Details	3
3.	Solut	ion Overview	3
	3.1	No local DNS server onsite	3
	3.2	Local DNS server onsite	3
	3.3	Current proxy server settings	4
4.	Scen	arios Covered	4
	4.1	No on site proxy server and no proxy configured within the users browser.	4
	4.2	No on site proxy server and the proxy server configured within the users browser	4
	4.3	Proxy server onsite with no upstream config.	4
	4.4	Proxy server onsite with no upstream config and local authentication.	5
	4.5	Onsite proxy server with upstream server set.	5
	4.6	Onsite proxy server with upstream server and authentication set.	5
	4.7	Onsite proxy server with upstream config and local authentication and filtering.	5
5.	Prox	y Configurations Within The Users Browser	6
	5.1	Standalone PC's onsite	6
	5.2	PC's onsite are members of a domain	8
6.	IIS P	roxy 2.0 Configuration	. 13
7.	Micr	osoft ISA Server Configuration	. 18
8.	Trou	ble Shooting Guide	. 26
9.	Revis	sion History	. 27
		end of table of contents	

Y&HGFL : Proxy Settings Guide

1. INTRODUCTION

1.1 Purpose and Scope

This document has been produced to assist the LEA's within the Y&HGFL that take their ISP services from the Leeds POP (Point of Presence) in Leeds Westgate ATE.

2. STATUS

2.1 Ownership Details

All documents to which this instruction applies shall have their status shown in this section.

Owner	Tim Needham	Title	Solution Architect
Tel:	01977 594528	e-mail	Tim.needham@bt.com
Security Classification	N/A	Pilot Review Date	N/A
Controlled Release	No	Periodic Review Period/Date	N/A

3. SOLUTION OVERVIEW

In this document we will try and document most of the common configuration scenarios and the expected behaviour of the browser in each case.

3.1 No local DNS server onsite

The first point to note is the importance that DNS is configured correctly; if you have no DNS server on your site then all clients should be set to use 10.0.4.21 and 10.0.4.22 as their DNS servers and no others.

This will enable you to use the names we provide for our services. If you choose not to follow this advice then you have problems accessing sites on the internet. Additionally you will have to change the settings when the services we offer have their addresses changed. The whole point of using an address is to prevent you as a user from having unnecessary work.

3.2 Local DNS server onsite

If you have a DNS server locally on your site your clients should be set to use your local DNS server and the DNS server should be configured to forward requests to 10.0.4.21 and 10.0.4.22 and no others. If the options to configure forwarding on your DNS server are greyed out check for a '.' Zone within the list of zones, if this zone exists delete it and restart the DNS service. Full configuration of DNS is beyond the scope of this document.

This will enable you to use the names we provide for our services. If you choose not to follow this advice then you have problems accessing sites on the internet. Additionally you will have to change the settings when the services we offer have their addresses changed. The whole point of using an address is to prevent you as a user from having unnecessary work.

3.3 Current proxy server settings

proxy.bty-h.org.uk using port 80 - This challenges for a username and password.

primaryproxy.bty-h.org.uk using port 80 - This provides automatic filtering at a primary level.

secondaryproxy.bty-h.org.uk using port 80 - This provides automatic filtering at a pre 16 level.

shefproxy.bty-h.org.uk using port 80 - This is a duplicate of secondaryproxy and should not be used.

The associated IP addresses for these proxies are to be changed shortly which is why we are emphasizing the use of the names!

4. SCENARIOS COVERED

- 1. No on site proxy server and no proxy configured within the users browser.
- 2. No on site proxy server and the proxy server configured within the users browser.
- 3. Proxy server onsite with no upstream config.
- 4. Proxy server onsite with no upstream config and local authentication.
- 5. Onsite proxy server with upstream server set.
- 6. Onsite proxy server with upstream server and authentication set.
- 7. Onsite proxy server with upstream config and local authentication and filtering.

4.1 No on site proxy server and no proxy configured within the users browser.

In this scenario when a user opens a browser they will be prompted for a user ID and password. They will not be challenged again for a username or password until there is no internet browsing activity for a period of over a minute. After a minute of inactivity, whether they have kept there browser window open or not, they will be challenged again for a username and password.

4.2 No on site proxy server and the proxy server configured within the users browser.

If the proxy and DNS servers are correctly configured on the users PC (refer sections 5, 6, 7) when they open a browser window they will be challenged for a username and password they should then be able to browse the internet inside this browser window without being challenged again for a userID and password. If the user opens a new browser window from within the current browser window they will not be challenged and should be able to continue browsing. If the user however opens a new instance of IE from either the 'start menu' the 'quick launch bar' or a shortcut on the desktop they will then be challenged again for a username and password.

4.3 **Proxy server onsite with no upstream config.**

In this configuration the first user who opens a web browser at the beginning of the day will be prompted for a user name and password, this userID is then cached within the proxy server and all the other users on the network will connect without being challenged, they will all effectively be using the same user ID. If there is a period of greater than a minute of inactivity across all the users on the network then the next user who opens a web browser or clicks on a web link will be challenged for a user ID and password. It will then be this user ID that is cached and used until the timeout occurs again.

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

4.4 Proxy server onsite with no upstream config and local authentication.

If your local proxy server is configured to challenge user for a user ID and password, (for IIS3/Proxy 2.0 ref. section 6, for ISA 2000 server ref. section 7, for ISA 2004 server ref. section 8) then when a user first opens a web browser they will be challenged for a username and password by your local proxy server then they will be challenged for a userID and password by our proxy server. The challenge and response from our proxy server will be cached inside your local proxy and subsequently when then next user on the network opens a web browser they will only be challenged once, by your local proxy server.

This is not an advisable or desirable configuration and if you are seeing multiple authentication requests in this manner check the configuration of your proxy server.

4.5 Onsite proxy server with upstream server set.

If you have configured your proxy server to point to the upstream proxy server in Leeds (ref. Sections 5, 6, 7) it can lead to some unexpected results. When a user opens a web browser they may receive a web page telling them that upstream authentication has failed and the page cannot be displayed. Or they may be challenged for a userID and password. If they are challenged for a userID and password then this configuration will behave in the same manner as 3. Proxy server onsite with no upstream config.

4.6 Onsite proxy server with upstream server and authentication set.

Refer to sections 5, 6, 7 on how to configure this in either IIS3/Proxy 2.0 or Microsoft ISA sever.

In this configuration the users will never be challenged for a userID and password and everyone who uses the network will be authenticated to our proxy server in Leeds using the credentials that have been setup within your local proxy server. All of the web content filtering will be applied at the level of the user account configured within your local proxy server.

4.7 Onsite proxy server with upstream config and local authentication and filtering.

This is a configuration that could be used to give you autonomous control of who has access to the internet and the filtering levels applied.

If you configure you local proxy server with the upstream setting but in the user account field use the proxy pass-through account this would allow all users through with no challenge for a userID and completely unfiltered access to the internet. It would then be possible to add to your proxy server your own content filtering software which would be under your local control; you would also be required to turn on local authentication on your proxy server.

In this configuration all users would be challenged for a username and password by your local proxy server and all content filtering would be provided by your local content filtering system. This configuration would give you full local control over internet access but it would also add a great deal of management and extra support to your local network environment; however it may be a configuration that is appropriate for some installations.

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Proxy Guide	Date:	02/11/2005 6:19 PM

5. **PROXY CONFIGURATIONS WITHIN THE USERS BROWSER**

5.1 Standalone PC's onsite

If all of the user PC's on your network are configured in a stand-alone manner i.e. not part of a Windows 2000 domain, then this configuration change will have to be manually made on each of the users PC's.

Open the Web browser on the PC, this document assumes that Internet Explorer is being used, however the process is very similar for Netscape and other web browsers. Go to the tools menu:



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Proxy Guide	Date:	02/11/2005 6:19 PM

Click on the Internet options menu item and select the 'Connections' tab:



Now click on the LAN settings button:

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

Local Area Network (LAN) Settings ? 🗙							
Automatic configuration Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.							
Automatically detect settings							
Use automatic configuration script							
Address http://acl.intra.bt.com/default.pac							
Proxy server							
Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).							
Address: proxy.bty-h.orc Port: 80 Advanced							
Bypass proxy server for local addresses							
OK Cancel							

Untick 'Automatically detect settings' and 'Use automatic configuration script', tick 'Use a proxy server for your LAN'. In the address field type in proxy.bty-h.org.uk and in the port field 80, if you have a local proxy server, in the address field fill in the name or the IP address of your proxy server.

Tick the 'Bypass proxy server for local addresses' tick box and click 'OK'.

5.2 PC's onsite are members of a domain

If all of the PC's in your network are part of a Windows 2000 domain the change can be made to all of the users PC's centrally using Windows 2000 group policy.

Open Active Directory users and Computer from the Administrative Tools menu:

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Proxy Guide	Date:	02/11/2005 6:19 PM

🐗 Active Directory Users and C	omputers			_ 8 ×
] 🌍 <u>C</u> onsole <u>W</u> indow <u>H</u> elp				<u>_8×</u>
] Action ⊻iew] ← → 🗈) 🖬 🖻 🔂 😼 📑	🗑 🖉 💩 💎 4	ž 🗇	
Tree	leemanmt.local 20 objects			
Tree Active Directory Users and Com Hemannt local Hemannt local	leemannt.local 20 objects Name Infrastructure Admins Application Servers Builtin Computers NO Policy Domain Controllers ForeignSecurityPrincipals Iocked down LostAndFound Member servers Microsoft Exchange Syst Mobile Works 2000 users Office XP SP1 test Phase one users System Terminal server Test Machine Users	Type infrastructureU Organizational Organizational builtinDomain Container Organizational Organizational lostAndFound Organizational Organizational Organizational Organizational Organizational Organizational Container Organizational Container	Description Default container for upgr Default container for new Default container for secu Default container for orph Builtin system settings Default container for upgr	
<u>۱</u>				

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Proxy Guide	Date:	02/11/2005 6:19 PM

Right click on your domain at the top of the right hand window and select properties, now select the 'Group policy' tab:

leemanmt.local Properties ? 🗙				
General Managed By Object Security Group Policy				
Current Group Policy Object Links for leemanmt				
Group Policy Object Links No Override Disabled				
∰∰sp1				
Group Policy Objects higher in the list have the highest priority. This list obtained from: leemanph2.leemanmt.local				
New Add <u>E</u> dit Up				
Options Delete Properties Down				
□ <u>B</u> lock Policy inheritance				
OK Cancel Apply				

Select the 'Default Domain Policy' and click edit.

Expand the 'Computer Configuration', 'Administrative Templates', 'Windows Components' and select 'Internet Explorer' in the left-hand window. Now double click on the 'Make proxy setting per machine' option in the right hand window and set the option to 'Enable'.

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Proxy Guide	Date:	02/11/2005 6:19 PM

gr Group Policy			
📙 Action View 🗍 🖙 🔿 🗈 💽	7 🖶 😫		
Tree Policy	/	Setting	
Irree Policy \$ sp1 [leemanph2.leemanmt.local] Po \$ Set \$ Computer Configuration \$ Set \$ Software Settings \$ Dis \$ Administrative Templates \$ Dis \$ MetMeeting \$ Dis \$ NetMeeting \$ Dis \$ NetWork \$ Dis \$ Software Settings \$ Dis \$ Software Settings \$ Dis \$ Metwork \$ Printers \$ Software Settings \$ Mindows Settings \$ Mindows Settings \$ Mindows Settings	curity Zones: Use only machine settings socurity Zones: Do not allow users to change policies icurity Zones: Do not allow users to add/delete sites ake proxy settings per-machine (rather than per-user) sable Automatic Install of Internet Explorer components sable Periodic Check for Internet Explorer software updates sable software update shell notifications on program launch sable showing the splash screen	Setting Not configured Not configured Not configured Not configured Not configured Not configured Not configured	

Now in the left-hand pane expand 'User Configuration', 'Windows Settings', 'Internet Explorer Maintenance' and select 'Connection'. Now double click 'Proxy Settings' in the right-hand window.

🚮 Group Policy			_ 8 ×
Action View 🗢 🔶 🔃 🔝	r 🖪 🔒		
Tree	Name	Description	
 sp1 [leemanph2.leemanmt.local] Policy Computer Configuration Software Settings Administrative Templates Vindows Settings Windows Settings Software Settings Windows Settings Software Settings Softy Settings Softy Settings Software Settings	Connection Settings Automatic Browser Configuration Proxy Settings User Agent String	Settings for connection settings Settings for automatic browser c Settings for proxy Settings for user agent string	

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

Proxy Settings Proxy Settings You can specif separate entri	y what proxy servers, if any es.	, you want your users to	connect to. Use semicolons (;) t	2 X
Enable pro	xy settings		Eventions	
-Proxy Server	Address of proxy	Port	Do not use proxy server for	
<u>1</u> . HTTP:	proxy.bty-h.org.uk	: 80	addresses beginning with:	
2, Secure;	proxy.bty-h.org.uk	: 80		
3, FTP;	proxy.bty-h.org.uk	: 80		
4, Gopher:	proxy.bty-h.org.uk	: 80		
5, Socks;	proxy.bty-h.org.uk	: 80		for
✓ Use the	same proxy server for all ad	Idresses	local (intranet) addresses	s.
		ОК	Cancel Apply	Help

Tick the 'enable proxy settings' box in line 1. type in proxy.bty-h.org.uk or the name of your local proxy server, fill in the port 80 for the Leeds proxy server, tick the 'Use the same proxy sever for all addresses' and click 'OK'. Close the group policy window and the Active directory users and computers window. This new policy will be implemented when the users PC's are rebooted.

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

6. **IIS PROXY 2.0 CONFIGURATION**

Configuring Upstream Proxy with a user account

Open the IIS3 management console:

Dicros	oft Internet Service	Manager					_ 8 ×
Properties	⊻iew <u>T</u> ools <u>H</u> elp						
2			•				
Computer		Service	State	Comments			
🧐 downp	тоху	Socks Proxy	Running				
downp	гоку	WinSock Proxy	Running				
🕒 downp	лоху	Web Proxy	Running				
downp	току	WWW	Running				
🕼 downp	гоху	FTP	Running				
<u> </u>					 	(1. a. 1. :	
Ready						1 Server(s)	5 Service(s) Running
🔀 Start	💑 C:\WINNT\Syster	n32\cm 🛛 📷 Microsoft Inte	rnet Ser 🌯 New	Connection - HyperT			III 12:04 PM

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Proxy Guide	Date:	02/11/2005 6:19 PM

Double click on the Web Proxy Icon for your server to open the general configuration page, now select the routing tab:

Upstre	am Routing					
01	Use direct connection					
Θt	Use <u>W</u> eb Proxy or array;	10.	0.4.248	[Modify	
	Enable backup route -					
0	Use direct <u>c</u> onnection					
	Use Web <u>Proxy</u> or array:				M <u>o</u> dify	
- Routin	g within array					

Select the radio button 'Use Web Proxy or array' and click the 'Modify' button:

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

Advanced routin	g options	×
Upstream Web	b Proxy Server	
Pro <u>x</u> y 10.0	4.248 Port 80	
L <u>A</u> uto-poll u	pstream proxy for array configuration]
Array <u>U</u> RL:	http://10.0.4.248:80/array.dll	
Use <u>c</u> rede User <u>n</u> ame:	ntials to communicate with upstream proxy/array	
Password:	*******	
Allow basi	ic/clear text authentication	
C Allow <u>e</u> nc	rypted authentication (NT CR)	
	OK Cancel <u>H</u> elp	

In the Proxy field enter proxy.bty-h.org.uk and port 80. Ensure the 'Auto-poll upstream proxy' check box is unticked.

Tick the 'Use credentials to communicate with an upstream proxy' check box. Fill in an appropriate username and password in the fields remember that this is the user account all of your users will be passed to the content filtering system with, so ensure it is at a level you are happy with all of your users being filtered at.

Select the 'Allow basic or clear text' radio button and then click ok.

All of your users should now be able to browse the internet without being challenged for a username and password.

Configuring / Checking the local authentication setting of the proxy server

Open the IIS3 management console and double click on the Web Proxy Icon for your server to open the general configuration page and select the 'permissions' tab:

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

Web Proxy Service Properties For downproxy
Service Permissions Caching Routing Publishing Logging
Web Proxy Server access control is disabled.
Erotocol: FTP Read
Grant access to:
E <u>d</u> it
Copy <u>I</u> o
Bemove From.
OK Cancel Apply Help

If you do not want your proxy server to challenge users for a password ensure that the 'Enable access control' tick box is unchecked.

If you want your local proxy server to challenge users ensure the tick box is selected, you can then select a protocol and select the user accounts or groups that you want to grant permissions to have access:

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

Web Proxy Service Properties For downproxy	×
Service Permissions Caching Routing Publishing	Logging
Web Proxy Server access control is enabled.	
Enable access control	
Protocol:	
<u> </u>	
Serveryone	E <u>d</u> it
	Сору <u>Г</u> о
	Remove From
OK Cancel	

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Proxy Guide	Date:	02/11/2005 6:19 PM

7. MICROSOFT ISA SERVER 2000 CONFIGURATION

Open the ISA management console and under your proxy server expand the 'Network configuration' section and select the 'Routing' folder. There should only be a single rule visible in the right-hand window, double click it:

ISA Management									_ 8 ×
Tree	Order	Name	Description	Action		Destination	Cache		
Internet Security and Acceleration Server Servers and Arrays Servers and Arrays Monitoring Computer Computer Computer Computer Computer Computer Computer Configuration Co	B ^C Lost	Default rule		Route		All destinations	Connect	I vald object not in cache	cache the r

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Proxy Guide	Date:	02/11/2005 6:19 PM

On the dialog box that opens select the 'Action' tab:

Default rule Properties	? ×
General Destinations Action Cache Bridging	
Process requests by	
C Retrieving them directly from the specified destinati	ion
Routing them to a specified upstream server	
Primary route: Upstream server	Settings
Backup route: None	Settings
C Redirecting them to a hosted site	
Site:	Browse
Port: 80	
SSL Port: 443	
Automatic dial-out	
Use dial-up entry for primary route	
Use dial-up entry for backup route	
OK Cance	el Apply

Select the 'Routing them to a specified upstream server' radio button and then click the settings button:

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

Upstream Server	Setting		<u>?×</u>
Specify upstrea	m server or array co	nfiguration	
Server or an	ay: proxy.bt	y-h.org.uk	Browse
Port:	80		
SSL Port:	443		
L Automatical	y poll upstream serve	er for array configuration	
Array URL:	http://p	roxy.bty-h.org.uk:80/array	y, dll
🔲 Use this acc	ount: ptest		Set Account
Authenticatio	n: Basic		
	OK	Cancel	

In the 'Server' field enter proxy.bty-h.org.uk the port is 80 and the SSL port is 443. Tick the 'Use this account' check box and click the 'Set Account' button:

Set Account		<u>?</u> ×
Use this following accoun	:	
User:	wak-16 Browse	e
Password:	*****	
Confirm password:	*****	
	OK Canc	el

Fill in an appropriate username and password in the fields remember that this is the user account all of your users will be passed to the content filtering system with, so ensure it is at a level you are happy with all of your users being filtered at. Click 'OK' and on the previous window ensure that the 'Authentication' drop down is set to 'Basic'.

All of your users should now be able to browse the internet without being challenged for a username and password.

Configuring / Checking the local authentication setting of the proxy server

This section will vary depending whether your ISA server is Active Directory integrated with your domain, or if it's a stand alone ISA server.

Open the main ISA management console and right click on your server at the top of the left-hand window. The dialog box that opens is the same in both cases, select the 'Outgoing web requests tab':

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

ABNWEB1 Properties ?	×			
Incoming Web Requests Auto Discovery Performance Security General Outgoing Web Requests				
Identification Use the same listener configuration for all internal IP addresses. C Configure listeners individually per IP address				
Server IP Address Display N Authentic Server C				
ABNWEB1 <all basic<="" inter="" td=""><td></td></all>				
Add Remove Edit				
SSL port: 8443 Enable SSL listeners				
Connections				
Connection settings: Configure				
OK Cancel Apply				

Inside the window select the 'Listener' and click 'edit':

Add/Edit Listeners		? ×
Server:	ABNWEB1	
IP Address:	All internal IP addresses	>
Display Name:		
🔲 Use a server certificate	to authenticate to web clie	nts
		Select
Authentication		
🔲 🔲 Basic with this domain	n:	
		Select domain
Digest with this doma	in:	
		Select domain
Integrated		
🔲 Client certificate (sect	ure channel only)	
	ОК	Cancel

The default setting for ISA server is 'Integrated', this means the ISA server will try and authenticate the user using the username and password they logged onto their Windows desktop with. If your ISA server is part of a domain and all of your users PC's are part of the same domain you should not have any problems. If your ISA

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

server is configured as a stand alone server you may need to make a slight change if you do not want your users to be challenged by your local proxy.

If you are being challenged for authentication by your local ISA server and it is a stand alone server open the computer management console, you can find this inside the 'Administrative tools' menu:



In the left-hand window expand the 'Local Users and groups' section and select the user's folder:



In the right-hand window there should be a guest account with a red cross on it. Right click on the 'Guest' user and select properties:

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

Guest Properties	? ?	<
General Member Of	Profile	
Guest		
Full name:		
Description:	Built-in account for guest access to the computer/d	
 User must change User cannot change Password never e Account is disable Account is locked 	e password at next logon ge password xpires xd lout	
	OK Cancel Apply	

Untick the 'Account is disabled' tick box and select 'OK'. For security reasons we now need to rename this account and reset it's password. Right click on the guest user and select rename, enter a new name for the account which is meaningful to you. Right-click on the user again and select 'Set password', again set a password that is complex but you can remember or in this case you could take a note of it and keep this in a safe place.

Once these steps have been taken your users should no longer be challenged by your local proxy server.

If your ISA server is a member of a Domain and your users PC's are not part of the domain, open the main ISA server management console and right on the Enterprise policy at the top of the right-hand window and select properties. On the security tab click add browse through the list to find the 'Domain guest's' group and add it to the list, you may also need to enable and rename the guest user account as detailed above.

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

8. MICROSOFT ISA SERVER 2004 CONFIGURATION

Open the ISA management console and under your proxy server expand the 'Configuration' section and select the 'Networks' folder. In the right hand window click on the "Web Chaining" tab. There should only be a single rule visible in the right-hand window:

🖾 Microsoft Internet Security	and Acceleration Server 200	4		
<u>File Action View H</u> elp				
← → € 🖪 😫 🗉	ኇ 🗉 🏵 📀			
Microsoft Internet Security an BC-WSGT-RVP1 Monitoring G Firewall Policy	Microsoft Internet Security & Acceleration Server 20 Standard Edition	2004		Networks
Virtual Private Networ Onfiguration Networks	Networks			Tasks Templates Help
Cache Add-ins General rbc-wsgt-rvp2	Edge Firewall		S)	Web Chaining Tasks
		External N (Intern	N Clients Network letwork net)	 Define SSL Bridging for Selected Rule Edit Selected Rule
	(all	Local Host		Related Tasks
	Internal Network			Properties
	Networks Network Sets N	letwork Rules Web Chaining	\	 (Allow traffic to the Web sites specified in Web chaining rules)
	Name	To	Action	Specity Dial-up Preferences
< F	Last Default rule	All Networks (and F	Retrieve request directly	 Export Web Chaining Rules Import Web Chaining Rules

Edit this rule, and click on the "Action" tab.

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

• <u>R</u> etrieving then	n directly from t	he specified destin	ation
Keairecting the	m to a specified ation of basic a	upstream server	ntials
	Upstream ser	ver	S <u>e</u> ttings
<u>B</u> ackup route:	None	Ŧ	Settings
C Redirecting the Site:	m to a hosted s	ite	Browse
<u>P</u> ort:	80	<u>S</u> SL Port:	443
Automatic dial-up -	dial-up for the p dial-up for the b	rimary route vackup route	

Click the radio button next to "redirect to an upstream server". Ensure "allow delegation" box is NOT ticked, click on the "settings" button for the upstream server.

<u>S</u> erver:	proxy.bty-h.org.uk	Browse
<u>P</u> ort:	80	
SSL Port:	443	
Automatically poll up	stream server for the configuration	rau dil
<u>A</u> utomatically poll up Server <u>U</u> RL:	stream server for the configuration	ray.dll
Automatically poll up Server URL: Use this account:	stream server for the configuration http://proxy.bty-h.org.uk:80/ar	ray.dll S <u>e</u> t Acco

Enter the details proxy.bty-h.org.uk on port 80. Click on use this account and select basic authentication from the drop down choice. Click on the "Set account" button.

<y&h></y&h>		Document Version 1
Proxy Guide	Date:	02/11/2005 6:19 PM

et Account		
Use the following acco	unt:	
<u>U</u> ser:	don-16	<u>B</u> rowse
<u>P</u> assword:	•••••	
<u>C</u> onfirm password:	•••••	
	01	K Cancel

Enter the user account you wish to use, to give the level of Websense filtering required.

Click OK three times to close all the windows and action the changes.

9. TROUBLE SHOOTING GUIDE

The first step is to decide which of the above scenario's your network fit's into. Follow the above guidelines and see if the expected results match your actual results.

If you have followed the guidelines and are still experiencing unexpected results we then need to test network connectivity and DNS.

The first round of tests should be carried out on your proxy server, it is assumed that your proxy server has two network interface cards one of which is connected to the same network as all your client PC's and the other network interface is connected to the network provided by the service. This interface should be using an IP address inside the range that has been assigned to you i.e. 10.32.x.x. If this is not the case it can add further complication to the problem, to carry out these tests you need to be at a PC that is using one of the allocated IP address and connected to the network provided by the service.

1. First open a command prompt and enter the command:

Ping 10.0.1.254

You should see a reply from this address go to step 2, if not check all of your connections check the router that has been provided to you to ensure it is powered up, if there are no obvious problems call the help desk to report a fault.

2. Now enter this command:

Ping www.bty-h.org.uk

You should see this reply with an address of 10.0.4.15 go to step 3, if you see no response or a response of 'Unknown host' at the command prompt type 'ipconfig /all' check the IP addresses listed for your DNS servers unless you have a local DNS server these should be 10.0.4.21 and 10.0.4.22 and only these. If you do not see these or there are other addresses listed open the properties of your network card and add these two entries and remove any others now try this test again. If you now see a response go to step 3 if not call the help desk and report a fault.

If you have a local DNS server then for the moment change your network properties as described above, remove the address of your DNS server and add 10.0.4.21 and 10.0.4.22 and repeat the above test, if you now receive a response there is a change that needs to be made to your local DNS server this change is described at the beginning of this document. If you've made these changes and still see no response then call the help desk to report a fault.

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Proxy Guide	Date:	02/11/2005 6:19 PM

3. If you have passed the above two tests you should now be able to test the whole solution from one of the client PC's on your network. Open a web page and see if the response is as you expect it. If not, check that your client can ping your local proxy server. In addition check the DNS settings on the client PC. If you are using an automated proxy setting then open a web page to <u>http://update.bty-h.org.uk</u> which is located in the POP at Leeds. If this page is displayed then try a page on the internet. If the page is not displayed, try using one of the other proxy settings to see if that server has failed. If at this stage you are still having problems please call the help desk to report a fault giving as much information about the configuration of your local network as possible.

10. REVISION HISTORY

Date	Version	Description	Author
26/09/2005	1	Updated with proxy details and ISA 2004	I George
23/02/2004	0	Proxy Guide	T Needham

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