## How to setup L2TP with a Biguard S20 and Windows 7 OS.

For this example out Biguard S20 has the default IP address of 192.168.1.254.The WAN IP is 80.229.71.34.

The remote location (dialling in to the Biguard S20) has the Windows 7 machine on the network.

Please follow these steps to help you setup a L2TP connection with Windows 7.

Log into your Biguard S20

	SL/IPSEC V	/PN Security Gate	eway Si	emap			Powering commences with Security
Status	L2TP						
Quick Start	L2TP List						
Configuration	# Status	Connection Name	Remote IP	Туре			
Interface	1 active	test	192.168.1.134	dialin	Edit 🖸	Delete 💽	
Network Object	0						
Policy	Create						
IPSec							
System							
Advanced							
Static Route							
Static ARP							
Dynamic DNS							
SNMP							
Firewall							
Proxy							
Diagnostics							
L2TP							
Device Management							
SSI VPN				SAVE CONF	IG	RESTART	LOGOUT

Click on 'Configuration' >> 'Advanced' >> L2TP.

Then click on 'Create'

BILLION	5	SSL/IPSEC VPN Security G	Gateway	Sitemap		Powering
Status	^	L2TP				
Quick Start		Edit				
Configuration		L2TP Setup	💿 Enable 🔿 D	sable		
Interface		Connection Name	test			
Network Object		Idle Timeout	60000	seconds		
Policy		Auth Type	chap 💌			
IPSec		User Name	test			
System		Password				
Advanced		Туре	⊙ Dialin ◯ Dia	lout		
Static Route		Connection Type	<ul> <li>Remote Acc</li> </ul>	ess OLAN to LAN		
Static ARP		Private IP assigned to Dialin User	192.168.1.134			
Dynamic DNS						
SNMP		Apply Cancel				
Firewall		State of the State of the State of State				
Proxy						
Diagnostics						
L2TP						
Device Management						
SSI VPN	*			SAVE CONFIG	RESTART	LOGOUT

Now for this example we will use the username 'test' and password 'test' as shown in the screen shot above. I have also set a 'Private IP' for the dial in user, which is 192.168.1.134.

Once you have set your username etc you can click on 'Create.

Now that the configuration on S20 is complete we can move onto the settings for the Windows 7 machine.

## How to setup L2TP with Windows 7.

Please open 'Network and Sharing Center' as shown below.

0	Network and Internet V Network and Sharing Center	George Control Pariet
Control Panel Home Change adapter settings Change advanced sharing ettings	View your basic network information and TEST-PC (This computer) View your active networks	set up connections See full map Internet Connect or disconnect
	Network 4           Public network           Change your networking settings           Set up a new connection or network           Set up a wirelew broadband, dial-up, ad hoc	Access type: Internet Connections: Decal Area Connection
Please click on 'Se	et up a new connection or network'	or VPN network connection.
	Access the and princes located on other net	work compared, or enouge shalling settings.

Please click on 'Set up a new connection or network' as shown above.



Click on 'Connect to a workplace' and then click on 'Next'.

How do you want to connect?		
<ul> <li>Use my Internet connection (VPN) Connect using a virtual private network (VPN) connection through the Internet.</li> </ul>	Click on '	Use my Interne nnection'
<ul> <li>Dial directly Connect directly to a phone number without going through the Internet.</li> </ul>		
👰 — 🦫		

Click on 'Use my Internet connection' as shown above.

Internet address: B0.229.80.33 Destination name: VPN Connection Use a smart card Cuse a smart card Cu	Your network administr	daress to connect to	
Destination name: VPN Connection Use a smart card Callow other people to use this connection This option allows anyone with access to this computer to use this connection. Callow other people to use this connect later Callow other people to use this co	Internet address:	80.229.80.33	Enter the S20 WAN IP in the 'Internet addr.
Use a smart card Card Allow other people to use this connection This option allows anyone with access to this computer to use this connection. Don't connect now; just set it up so I can connect later Select 'Don't connect now; just set it up so I can connect later later'	Destination name:	VPN Connection	
	👹 🔲 Allow other peo	ble to use this connection	
Next Cancel	Allow other peo This option allow Don't connect n	we anyone with access to this computer to use this conne ow; just set it up so I can connect later	ection. Select 'Don't connect now; just set it up so I can conn later'

Enter the WAN IP of the S20 in the 'Internet address' section also select 'Don't connect now; just set it up so I can connect later'.

Then click on 'Next'

Type your user nar	ne and password		
User name:	test	Enter the username and passwork S20 L2TP section	ord set in you
Domain (optional):	☑ Show characters ☐ Remember this password		
		Then click on	'Create'

As we used the username 'test' and the password 'test' in the S20 L2TP section we will enter the same in username and password sections as shown above.

Then click on 'Create'

Connect to a Workplace			
The connection is ready to use			
<b></b>			
Connect now	2		Click on 'Close'
		¥	
		Close	

Click on 'Close' as shown above.



Go into 'Network and Sharing Center' and click on 'Connect to a network' as shown above.



The following box will appear. Right click on your new VPN connection and click on 'Properties'



Now click on the 'Security' tab as shown above. Select 'Layer 2 Tunnelling Protocol with IPSEC (L2TP/IPSEC) as shown above. Select 'Optional encryption (connect even if no encryption)' in the 'Data encryption' section as shown above.

Now click on 'OK'

Currently connected to: Network 4 Internet access	47	Click on your VPN Connetion, and click
Dial-up and VPN	· ~	on 'Connect'
VPN Connection	Connect	•
in the second		
Open Network and Sharing (	Denter	

Click on your network icon as shown above, the following box will appear as shown above.

Click on your VPN connection and click on 'Connect' as shown above.

Connect VF	PN Connection		Make sure your correct username and password are entered here, should be the same as the S20
User name:	test	4	L2 IP settings
Password:	••••		
Domain:		<mark></mark>	
Save this u	user name and password for the following users: y s who uses this computer.	-	Now click on 'Connect'
Connect	Cancel Properties Help		р <b>а — — — — — —</b> ВЗ

Make sure your username and passwords are correct, and set as the same in the Biguard S20 L2TP section.

Now click on 'Connect'

The command Prompt Aping 192.168.1100 -t Microsoft Windows [Version 6.1.7600] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	Currently connected to:
C:\Users\test>ping 192.168.1.100 -t Pinging 192.168.1.100 with 32 bytes af data: Reply from 192.168.1.100: bytes=32 time=312ms TTL=127 Reply from 192.168.1.100: bytes=32 time=31ms TTL=127	Dial-up and VPN  VPN Connected
	Shows your VPN connection is 'Connected'
Ping replies from a computer connected to the \$20	0

Now try to ping a device connected to the Biguard S20 which should come back with replies indicating you have successfully setup a L2TP connection with a Biguard S20.