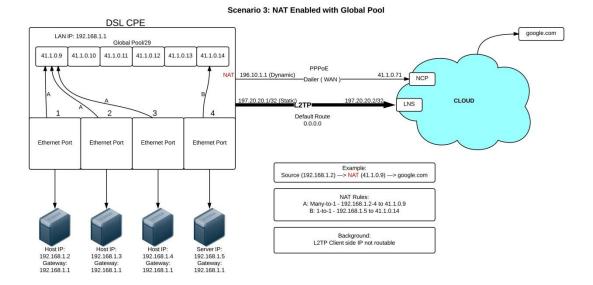
# ZyXEL

# L2TP Setup Guide (NAT Enabled with Global Pool)



DATE: 08/08/2013

VERSION: 1.0

## L2TP (NAT Enabled with Global Pool)

#### Scenario 3

- Open your web browser and type in the address bar the LAN IP of the P-2812HNU-F1 (default LAN IP is 192.168.1.1)
- You are now at the login page of the P-2812HNU-F1

ZyXEL	Welcome		
	Welcome to P-28	12HNU-F1 configura Ind password to log	ation interface. Pleas in.
	Username:	admin	
	Password:	••••	
			Login

- Default Username = admin
- Default Password = 1234
- Click on the Login button

ZyXEL	
	Change Password It is highly recommended to setup a new password instead of using the default one for security concern. New Password: Verify New Password: Skip Apply

• At this Change Password-page you can click on Skip or you can change the Password of the admin account (your choice)

LAN Device					Viewing mode:	Refresh Interval:	None	
	_							
Internet								
	Gerhar <del>.</del>							
P-2812HNU-F1	_							
								6
								Syst Info
Check the problems								
Check the problems P-2812HNU-F1 is disconne	cted from the internet, p	olease check WAN se	ttings or contact yo	ur ISP.				
	cted from the internet, p	blease check WAN se	ttings or contact you	ur ISP.			OK	

• You are now logged into the GUI of the P-2812HNU-F1; No PPPoE connection has been setup, hence the reason the Internet line in the diagram is red

LAN Device			Viewing mode: 🖳 🚍	Refresh Interval: None	Ŧ
internet					
P-2812HNU-F1	<ul> <li>&gt; Broadband</li> <li>&gt; Wireless</li> <li>&gt; Home Networking</li> <li>&gt; Static Route</li> </ul>				Syste
Check the problems P-2812HNU-F1 is disconnected from the inte	DNS Route     OoS     NAT     Dynamic DNS     Interface Group	s or contact your ISP.		OK	

• Mouse over the Network Setting tab

LAN Device				Viewing mode	: 🔚	Refresh Interval:	None 👻
Internet							
	<ul> <li>&gt; Broadband</li> <li>&gt; Wireless</li> <li>&gt; Home Networking</li> <li>&gt; Static Route</li> </ul>						Syste
Check the problems P-2812HNU-F1 is disconnected from the inte	<ul> <li>DNS Route</li> <li>QoS</li> <li>NAT</li> <li>Dynamic DNS</li> <li>Interface Group</li> </ul>	s or contact ye	our ISP.				ок

• Click on Broadband

roadi	hand —															
		3G Backup														
(	You can	configure the	e Internet set	ttings of this	device. Co	rrect configur	ations buil	d successf	ul Internet co	nnection.						
	Switch	WAN Mod	e			ADSL	•	Switch W	AN Interface	]						
	Add net	w WAN Inter	face													
	Interne #	Name	Туре	Mode	Encap	IPv6/IP	VPI	VCI	Vlan80	VlanM	ATM QoS	IGMP	NAT	Defaul	Modify	
	1	EtherW	EtherW	Routing	PPP <sub>0</sub> E	IPv4 Only	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled	Yes	21	
	2	AdsIW	ADSL	Routing	PPP <sub>0</sub> E	IPv4 Only	8	35	N/A	N/A	UBR	Enabled	Enabled	Yes	21	
	3	VdsIW	VDSL	Routing	PPPoE	IPv4 Only	N/A	N/A	0	835	N/A	Enabled	Enabled	Yes	21	
					~	~										
						<u>.</u>				(	$\sim$	i i				

• Click on Edit AdsIWAN interface (click on the paper icon on the right hand side under the Modify heading)

Broadband 3G Ba	WAN Interface Edit			×	
You can config	General			Î	
	Name :	AdsIWAN1		=	
Switch WAN	Type :	ADSL -			
Type :	Mode :	Routing -			
Add new WAI	WANServiceType :	PPP over Ethernet(PPPoE) -			
Internet Set	PPPoE Passthrough IPv6/IPv4 Mode:	IPv4 Only 🗸		ul Mo	odify
1 Eth	VLAN			s 🖉	T
2 Ads	Enable VLAN :			s 🖉	1
3 Vds	Enter 802.1P Priority [0-7] :			s 🖉	
	Enter 802.1Q VLAN ID [1-4094] :	(3900 ~ 3905 are reserved.)			
	ATM PVC Confiduration			-	
			[	Apply Back	

• On the WAN Interface Edit page, scroll down to the PPP Information section

Broadband     30 B     WAN Interface Edit       You can config     VPI [0-255]:     8       You can config     VCI [32-65535]:     35       Switch WAN     Encapsulation Mode :     ELC/SNAP-BRIDGING        Type :     Service Category :     UBR Without PCR	
Vou can config         VPI [0-255]:         8           You can config         VCI [32-65535]:         35           DSL Link Type :         EoA ~           Switch VVAN         Encapsulation Mode :         LLC/SNAP-BRIDGING ~	
VCI [32-65535]:     35       DSL Link Type :     EoA ~       Encapsulation Mode :     LLC/SNAP-BRIDGING ~	
Switch WAN Encapsulation Mode : LLC/SNAP-BRIDGING V	
Type: Service Category: UBR Without PCR -	
Add new WAI PPP Infomation	
Internet Set PPPUserName : http://www.setable.co.za	
# N PPPPassword:	Modify
1 Eth Authentication Method : Auto 🗸	21
2 Ads Use Static IP Address	21
3 Vds Dial on demand (with idle timeout timer)	21
мти	
Apply Back	

• On the PPP Information section, enter your PPPoE Username and PPPoE Password (PPPoE account details provided by your ISP)

oadband 3G B	AN Interface Edit			X	
	MTU	1492		A	
You can config	Routing Feature				
	NAT Enable :	3			
Switch WAN	Address Mapping Enable :				
Type :	Address Mapping Set :	1 👻			
Add new WAI	IGMP Proxy Enable :				
Internet Set	Apply as Default Gateway :	<b>V</b>			
# N	DNS Server				I Modify
1 Eth	Obtain DNS info Automatically				
2 Ads	Use the following Static DNS IF	Address			
3 Vds	6 to 4 Tunnel				
	6 to 4 Tunneling				
	Cito4 runnening			-	
				Apply Back	
	- *				
				<b>1</b> 2	
	Connection Status Network Se	tting Security		Maintenance	

Scroll down and click on Apply once the PPPoE details has been entered

Broadband	3G Backup													
You can	configure the	Internet se	ttings of this	device. Co	rrect configura	ations bui	ild successf	ul Internet co	nnection.					
	WAN Mode	•												
Type :	w WAN Interf				ADSL	•		AN Interface						
	et Setup	ace					C							
Concession of the local division of the loca	Name						Loading							Modify
1	EtherW	EtherW	Routing	PPPoE	IPv4 Only	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled	Yes	BI
2	AdsIW	ADSL	Routing	PPP0E	IPv4 Only	8	35	N/A	N/A	UBR	Enabled	Enabled	Yes	BI
3	VdsIW	VDSL	Routing	PPPoE	IPv4 Only	N/A	N/A	0	835	N/A	Enabled	Enabled	Yes	21

• P-2812HNU-F1 applying the PPPoE details that was entered

Broad	lband	3G Backup														
	You can	configure the	e Internet se	ttings of this	device. Co	rrect configur:	ations bui	ld success	ful Internet co	nnection.						
		WAN Mod	e			ADSL		Quitet 1	/AN Interface							
	Type : Add nev	w WAN Inter	face			ADSL	•	Switch	AN Interface							
	Interne	t Setup														
	#	Name	Туре	Mode	Encap	IPv6/IP	VPI	VCI	Vlan80	VlanM	ATM Qo S	IGMP	NAT	Defaul	Modify	
	1	EtherW	EtherW	Routing	PPP0E	IPv4 Only	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled	Yes	2	
	2	AdsIW	ADSL	Routing	PPP0E	IPv4 Only	8	35	N/A	N/A	UBR	Enabled	Enabled	Yes		
	3	VdsIW	VDSL	Routing	PPP0E	IPv4 Only	N/A	N/A	0	835	N/A	Enabled	Enabled	Yes	21	

• PPPoE details has been applied to the P-2812HNU-F1

oadbar	nd _															
Broadba	nd	3G Backup														
_																
Y	ou can (	configure the	Internet set	tings of this	device. Co	rrect configur	ations buil	d successf	ul Internet co	nnection.						
		WAN Mode	_													2
	witch pe:	WAN MODE	2			ADSL	•	Switch W	AN Interface							
	Add nev	w WAN Inter	ace													
Ir	nterne	t Setup														
	#	Name	Туре	Mode	Encap	IPv6/IP	VPI	VCI	Vlan80	VlanM	ATM QoS	IGMP	NAT	Defaul	Modify	
	1	EtherW	EtherW	Routing	PPPoE	IPv4 Only	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled	Yes	21	
	2	AdsIW	ADSL	Routing	PPPoE	IPv4 Only	8	35	N/A	N/A	UBR	Enabled	Enabled	Yes		
L	3	VdsIW	VDSL	Routing	PPP0E	IPv4 Only	N/A	N/A	0	835	N/A	Enabled	Enabled	Yes	21	
			_		_											
			_		~	<b>1</b>				14		T.				

• Click on the Connection Status tab

<b>ZyXEL</b> P-2812H	NU-F1						Language : <mark>English</mark>	- 🕒 Logout
LAN Device					Viewing mode	e: 📘	Refresh Interval:	None -
	Г							
Internet								
P-2812HNU-F1	Gerhar+							
								Svetarr
								System Info
		Ø	Ŵ	â		<b>B</b>		
	Connection Status	Network Setting	Security	VoIP	System Monitor	Maintenance		

• PPPoE details has been correctly entered, the diagram show that an internet connection is up (the internet line changed from red to green)

ZyXEL P-2812HNU-	F1						Language : English 👻	🕒 Logout
LAN Device					Viewing mod	e: 📕 🗐	Refresh Interval:	None 👻
Internet	-							
P-2812HNU-F1	Gerhar <del>v</del>							
								Svstem
			Firewall					System Info
			MAC Filter Parental Control					
			Certificates					
			IPsec VPN L2TP VPN					
		*		â				
				1999	P and	124		

• Mouse over the Security tab

ZyXEL P-2812HNU-F1						Language : English 🗨	C Logout	
LAN Device				Viewing mode	e: 🛃 🗐	Refresh Interval:	None 👻	-
Internet								
P-2812HNU-F1	Gerhar						System	н
		<ul> <li>Firewall</li> <li>MAC Filter</li> <li>Parental Control</li> <li>Certificates</li> <li>IPsec VPN</li> <li>L2TP VPN</li> </ul>					System Info	
c	onnection Status	etting Security	VoIP	System Monitor	Maintenance			

• Click on L2TP VPN

YXEL P-2812HNU-F1			Language	e: English 👻 📑 Logo
2TP VPN				
Setup Monitor				
Using L2TP VPN or L2TP over IPSec VPN to cr	eat a security tunnel.			
Туре				
Type Select	Dial out 👻			
Dial out Details				
Dial out	Active			
Name				
Server IP Address(or Domain Name)				
Connection Type	LAN to LAN 👻			
Peer Network IP Address				
Peer Network Mask				
NAT	Enable			
Address Mapping Enable :				
Address Mapping Set :	1 👻			
Auth. Type	PAP CHAP			
	🔺 🏫			
<b>~</b> 3	🦈 🔊		<b>1</b> 8	
Connection Status	Network Setting Security	VoIP System Mon	itor Maintenance	

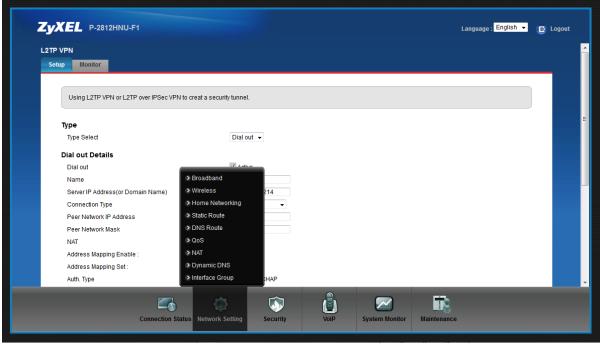
• L2TP VPN setup page

			Language : English 👻	🕒 Logou
creat a security tunnel.				
Dial out 👻				
Active				
MWEB-TUN				
196.22.160.214				
LAN to LAN -				
0.0.0.0				
0.0.0.0				
Inable				
1 -				
PAP CHAP				
	Dial out ▼ ✓ Active MWEB-TUN 196.22.160.214 LAN to LAN ▼ 0.0.0 0.0.0 ✓ Enable ✓ 1 ▼	Dial out       ▼         ✓ Active	Dial out ▼ ✓ Active MWEB-TUN 196.22.160.214 LAN to LAN ▼ 0.0.0 0.0.0 ✓ Enable ✓ 1 ▼	Dial out

- Always use Dial out with Connection Type set to LAN-LAN
- NAT must be Enabled
- Address Mapping must be Enabled
- Address Mapping Set must be set to 1

ZyXEL P-2812HNU-F1					Language : E	English 👻	🕒 Lo	gout
Server IP Address(or Domain Name)	190.22.100.214							
Connection Type	LAN to LAN 👻							
Peer Network IP Address	0.0.0.0							
Peer Network Mask	0.0.0.0							
NAT	🗹 Enable							
Address Mapping Enable :								
Address Mapping Set :	1 -							
Auth. Type	PAP CHAP							
User Name	21281539@uncap.busdsl	.co.za						
Password	•••••							
Tunnel Authentication	Enable							
Secret								
Remote Host Name(Optional)								
Local Host Name(Optional)								
L2TP over IPsec	Enable							
IPsec	Enable							
					Apply	Cancel		
			-					
	💮 🔊		~	12				
Connection Status	Network Setting Security	VolP	System Monitor	Maintenance				

• Once all the L2TP details have been entered (L2TP details provided by your ISP), click on Apply



• Mouse over the Network Setting tab

Monitor     Using L2TP VPN or L2TP over IPSec VPN to creat a security tunnel.     Type   Type Select   Dial out •   Dial out Cetails   Dial out   Server IP Address(or Domain Name)   Connection Type   Peer Network IP Address   Peer Network IP Address   Peer Network Mask   NAT   Address Mapping Enable :   Address Mapping St:   Auth. Type				Language : English 👻	🕒 Log
Using L2TP VPN or L2TP over IPSec VPN to creat a security tunnel.  Type Type Select Dial out Dial out Name Server IP Address(or Domain Name) Connection Type Peer Network IP Address Peer Network IP Address Peer Network Mask NAT Address Mapping Enable : Address Mapping Set: Auth, Type Hand Connection Type HAP	IP VPN				
Type         Type Select         Dial out Potalis         Dial out         Name         Server IP Address(or Domain Name)         Connection Type         Peer Network IP Address         Peer Network Mask         NAT         Address Mapping Enable :         Address Mapping Set:         Auth. Type	ietup Monitor				
Type         Type Select         Dial out Potalis         Dial out         Name         Server IP Address(or Domain Name)         Connection Type         Peer Network IP Address         Peer Network Mask         NAT         Address Mapping Enable :         Address Mapping Set:         Auth. Type					
Type Select   Dial out   Dial out   Dial out   Name   Server IP Address(or Domain Name)   Connection Type   Home Networking   Peer Network IP Address   Static Route   Peer Network Mask   DNS Route   NAT   Address Mapping Enable :   Address Mapping Set:   Dynamic DNS   Auth. Type	Using L2TP VPN or L2TP over IPSec VF	N to creat a security tunnel.			
Type Select   Dial out   Dial out   Dial out   Name   Server IP Address(or Domain Name)   Connection Type   Home Networking   Peer Network IP Address   Static Route   Peer Network Mask   DNS Route   NAT   Address Mapping Enable :   Address Mapping Set:   Dynamic DNS   Auth. Type					
Dial out Details         Dial out         Name         Server IP Address(or Domain Name)         Connection Type         Peer Network IP Address         Peer Network IP Address         Static Route         Peer Network Mask         NAT         Address Mapping Enable :         Address Mapping Set:         Address Mapping Set:         Auth. Type	Туре				
Dial out   Name   Name   Server IP Address(or Domain Name)   Server IP Address(or Domain Name)   Onnection Type   Home Networking   Peer Network IP Address   Static Route   Peer Network Mask   DINS Route   NAT   Address Mapping Enable :   Address Mapping Set:   Dynamic DNS   Auth, Type	Type Select	Dial out 👻			
Name     > Broadband       Server IP Address(or Domain Name)     > Wireless       Connection Type     > Home Networking       Peer Network IP Address     > Static Route       Peer Network Mask     > DNS Route       NAT     > QoS       Address Mapping Enable :     > NAT       Address Mapping Set:     > Dynamic DNS       Auth, Type     > Interface Group	Dial out Details				
Server IP Address(or Domain Name)     > Wireless     214       Connection Type     > Home Networking        Peer Network IP Address     > Static Route       Peer Network Mask     > DNS Route       NAT     > QoS       Address Mapping Enable :     > NAT       Address Mapping Set:     > Dynamic DNS       Auth, Type     > Interface Group	Dial out	C Activo			
Connection Type     > Home Networking       Peer Network IP Address     > Static Route       Peer Network Mask     > DNS Route       NAT     > QoS       Address Mapping Enable :     > NAT       Address Mapping Set:     > Dynamic DNS       Auth, Type     > Interface Group	Name	Broadband			
Peer Network IP Address     > Static Route       Peer Network Mask     > DNS Route       NAT     > QoS       Address Mapping Enable :     > NAT       Address Mapping Set :     > Dynamic DNS       Auth, Type     > Interface Group	Server IP Address(or Domain Name)	> Wireless 214			
Peer Network Mask     > DNS Route       NAT     > QoS       Address Mapping Enable :     > NAT       Address Mapping Set :     > Dynamic DNS       Auth. Type     > Interface Group	Connection Type	Home Networking			
NAT     > QoS       Address Mapping Enable :     > NAT       Address Mapping Set :     > Dynamic DNS       Auth. Type     > Interface Group	Peer Network IP Address	Static Route			
Address Mapping Enable :  Address Mapping Set :  Address Mapping Set :  Auth. Type : HAP	Peer Network Mask	DNS Route			
Address Mapping Ended: DNS Address Mapping Set : Dynamic DNS Auth. Type HAP	NAT	≥ QoS			
Auth. Type :HAP	Address Mapping Enable :	NAT			
- men	Address Mapping Set :	Dynamic DNS			
		➢ Interface Group :HAP			
	Connection S	tatus Network Setting Security	tem Monitor Maintenance		

• Click on Static Route

Routing								
Static Route	IPv6 Static Route							
The pu than tw	pose of Static Route o Internet connection	is to save time and s available in your h	bandwidth usage who ome or office.	en LAN devices within	an Intranet are transferr	ng files or packets, espe	cially when there are	e more
Add N	ew Static Route							
#	Active	Status	Name	Destination IP	Gateway	Subnet Mask	Interface	Modify

• Click on Add New Static Route

CyXEL P-2812HNU-F1 Routing Static Route IPv6 Static Route				Languago : English 👻	E Logout
Add New Static Route           #         Active			Apply Bac	sk     Interface       k	ity
	tion Status Retwork Setting	Security Vo	IP System Monitor	Maintenance	

• Add New Static Route page

<b>ZyXEL</b> P-2812HNU-F1 Routing				Language ; English	- E Logout
Static Route IPv6 Static Route	me and bandwidth usage when Add New Static Route	I AN devices within an I	intranet are transferring files	or packets, especially when there are mor	•
Add New Static Route	Active Route Name : Destination IP Address : IP Subnet Mask : Gateway IP Address : Bound Interface	MWEB-LNS 196.22.160.214 255.255.255 255 255 255 255 255 255 255	Apply B		Acdify
		<b>i</b>			

- Active should be checked to enable this route
- Give the route a descriptive name
- Enter Destination IP Address, IP Subnet Mask and Gateway IP Address (if applicable) provided by your ISP
- Bound the LNS IP address over the AdsIWAN1 interface (your ISP will provide you with the required information)
- Click on Apply

Static Route     IPv6 Static Route       The purpose of Static Route is to save time and bandwidth usage when LAN devices within an Intranet are transferring files or packets, especially when there are more than two Internet connections available in your home or office.       Add New Static Route     # Active Status Name Destination IP Gateway Subnet Mask Interface Modify       1     Image: MWEB-LNS     196.22.160.214     197.87.215.1     255.255.255     AdsiWAN1     Image: The Status Name New York N	The purpose of Static Route is to save time and bandwidth usage when LAN devices within an Intranet are transferring files or packets, especially when there are more than two Internet connections available in your home or office.         Add New Static Route         # Active       Status         Name       Destination IIP         Gateway       Subnet Mask         Image: Content of the status       Modify         1       Image: Content of the status         MWEB-LNS       196.22.160.214         1       Image: Content of the status         MWEB-LNS       196.22.160.214         1       Image: Content of the status         Image: Content of the status       Modify         1       Image: Content of the status		g								
than two Internet connections available in your home or office.           Add New Static Route         Easternation IP         Gateway         Subnet Mask         Interface         Modify	than two Internet connections available in your home or office. Add New Static Route # Active Status Name Destination IP Gateway Subnet Mask Interface Modify 1 ♀ ♀ MWEB-LNS 196.22.160.214 197.87.215.1 255.255.255 AdsiWAN1	Static	: Route	IPv6 Static Ro	oute						
than two Internet connections available in your home or office.           Add New Static Route         Add New Static Route         Mame         Destination IP         Gateway         Subnet Mask         Interface         Modify	than two Internet connections available in your home or office. Add New Static Route # Active Status Name Destination IP Gateway Subnet Mask Interface Modify 1 ♀ ♀ MWEB-LNS 196.22.160.214 197.87.215.1 255.255.255 AdsiWAN1	0									
Add New Static Route           #         Active         Status         Name         Destination IP         Gateway         Subnet Mask         Interface         Modify	#       Active       Status       Name       Destination IP       Gateway       Subnet Mask       Interface       Modify         1 <ul> <li></li></ul>		The pur than two	pose of Static Ro Internet connect	ute is to save time a tions available in you	nd bandwidth usage wh r home or office.	en LAN devices within	an Intranet are transferr	ring files or packets, espe	cially when there ar	e more
# Active Status Name Destination IP Gateway Subnet Mask Interface Modify	#     Active     Status     Name     Destination IP     Gateway     Subnet Mask     Interface     Modify       1     Image: Comparison of the state of the sta	L L									
	1 ♀ ♀ MWEB-LNS 196.22.160.214 197.87.215.1 255.255.255 AdsiWAN1 📝 🗍		Add Ne	ew Static Route	]						
1 🤗 🤗 MWEB-LNS 196.22.160.214 197.87.215.1 255.255.255 AdsIWAN1 📝 🗍			#	Active	Status	Name	Destination IP	Gateway	Subnet Mask	Interface	Modify
			1	9	9	MWEB-LNS	196.22.160.214	197.87.215.1	255.255.255.255	AdsIWAN1	2 📋
							$\overline{\mathbf{N}}$				

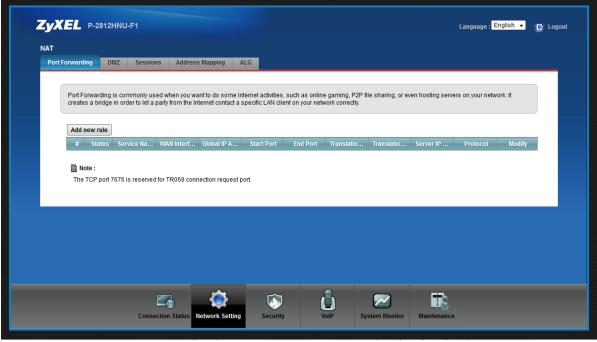
• Static Route rule has been created

Static Route       Pye6 Static Route         Add New Static Route         #       Active       Status       Name       Destination IP       Gateway       Subnet Mask       Interface       Modify         1       ♥       MWEB-LNS       196.22.160.214       197.87.215.1       255.255.255       AdsIWAN1       Image: The Networking         > Home Networking       > Static Route       > Home Networking       > Static Route       > DNS Route       > QoS       > NAT       > Dynamic DNS       > Dy	Static Route								
than two Internet connections available in your home or office.          Add New Static Route       #       Active       Status       Name       Destination IP       Gateway       Subnet Mask       Interface       Modify         1		IPv6 Static	Route						
than two Internet connections available in your home or office.          Add New Static Route       #       Active       Status       Name       Destination IP       Gateway       Subnet Mask       Interface       Modify         1									
Add New Static Route         #       Active       Status       Name       Destination IP       Gateway       Subnet Mask       Interface       Modify         1 <ul> <li> </li> <li> </li> <li> </li></ul> <ul> <li> </li> <li> </li></ul> <ul> <li> </li> <li> </li></ul> 3					en LAN devices within	an Intranet are transfer	ing files or packets, espe	cially when there ar	e more
#     Active     Status     Name     Destination IP     Gateway     Subnet Mask     Interface     Modify       1     ?     ?     MWEB-LNS     196.22.160.214     197.87.215.1     255.255.255     AdsIWAN1     Image: Comparison of the comparison									
1       ♀       MWEB-LNS       196.22.160.214       197.87.215.1       255.255.255       AdsIWAN1       ☑       Im         >       Broadband       >       Wreless       >       Home Networking       >       Static Route       >       DNS Route       >       OS       >       NAT	Add	New Static Rout	e						
	#	Active	e Status	Name	Destination IP	Gateway	Subnet Mask	Interface	Modify
Wireless  Home Networking  Static Route  DNS Route  QoS  NAT	1	9	9	MWEB-LNS	196.22.160.214	197.87.215.1	255.255.255.255	AdsIWAN1	21
Home Networking  Static Route  DNS Route  QoS  NAT				> Broadband					
Static Route DNS Route				> Wireless					
> DNS Route > QoS > NAT				Home Networking					
> QoS > NAT				Static Route					
> NAT				DNS Route					
				> QoS					
Dynamic DNS				NAT					
				Dynamic DNS					
> Interface Group				Interface Group					

• Mouse over the Network Setting tab

yXI	EL P	-2812HNU-F1						Language : E	nglish 👻 🕒
outing									
Static F	Route	IPv6 Static Rout	e						
	than two I	nternet connectio	e is to save time a ns available in you	nd bandwidth usage whe Ir home or office.	en LAN devices within :	an intranet are transferi	ing files or packets, espec	cially when there ar	e more
l	Add New	Active	Status	Name	Destination IP	Gateway	Subnet Mask	Interface	Modify
	1	9	9	MWEB-LNS	196.22.160.214	197.87.215.1	255.255.255.255	AdsIWAN1	
			0	Broadband Wireless Home Networking					
				Static Route DNS Route					
				QoS NAT					
				Dynamic DNS Interface Group					
			Connection Status	Network Setting	Security	VoIP System	m Monitor Maintenan	69	

Click on NAT



• On the NAT page, click on the Address Mapping tab

ZyXEL P-2	812HNU-F1					Language :	English 👻 📴 Lo
NAT Port Forwarding	DMZ Sessio	ons Address Mappin	a ALG				
FortForwarding	DML Sessi	Address Mappin	ALO				
The Address	s Mapping allows yo	ou to map the local IP add	ress(es) to global IP addre	ss(es) accordingly.			
Add							
#	Set	Local Start IP	Local End IP	Global Start IP	Global End IP	Туре	Modify
			<b>\$</b>	Ô			
			Setting Security	VoIP	System Monitor		

• On the Address Mapping tab, click on the Add button

<b>ZyXEL</b> P-2812HN						English 👻 📑 Logour
Port Forwarding DMZ	Sessions Address Mapping	) ALG				
Add #	dd Service Name : WAN Interface : Local Start IP Local End IP Global Start IP Global End IP Mapping Set	One-to-One   EtherWAN1  1			Apply Back	Modify
	Connection Status	Setting Security	VoIP	System Monitor	Maintenance	

• Add Address Mapping rule page

ZyXEL P-2812HNU					Language : Eng	lish 🔹 🕒	
NAT PortForwarding DMZ The Address Ma Add	Sessions Address Mapping d Service Name : WAN Interface : Local Start IP Local End IP Global Start IP Global Start IP Mapping Set	ALG One-to-One Many-to-Many 1 •			×	Modify	
					Apply Back		
	Connection Status Network S	etting Security	VoIP	System Monitor	Maintenance		

• At the Service Name, click on the drop down list and select Many-to-One (Many-to-One allows for more than one private IP address internet breakout via the L2TP Tunnel interface)

ZyXEL P-2812HN				Language : E	nglish 👻 🕒 Logout
NAT Port Forwarding DMZ	Sessions Address Mapping	ALG			
Add The Address Ma	dd Service Name : WAN Interface : Local Start IP Local End IP Global Start IP Global End IP Mapping Set	Many-to-One  EtherWAN1 EtherWAN1 AdsWAN1 VdsWAN1 3G MVED-TUN 1		×	Modify
				Apply Back	
	Connection Status Network Settin	<b>~</b>	NP System Monitor	Maintenance	

• At the WAN Interface, select the newly created L2TP Tunnel

<b>ZyXEL</b> P-2812HN						e : English 👻 📑 Logout
The Address Ma Add #	dd Service Name : WAN Interface : Local Start IP Local End IP Global Start IP Global Start IP Global End IP Mapping Set	Many-to-One ▼ MWEB-TUN ▼ 192.168.133 192.168.165 41.134.63.9 1 ▼			×	Modify
			-		Apply Back	
	Connection Status	ing Security	VoIP	System Monitor	Maintenance	

- Setup an Address Mapping rule (NAT rule that NAT's the private IP to a global pool IP), as the L2TP client side IP is not routable. This rule will allow breakout to the internet via the L2TP tunnel (L2TP is setup as default route).
- Local Start IP and Local End IP specify the DHCP pool.
- Global Start IP (use the 1<sup>st</sup> available global pool IP). Your ISP will provide you with the global pool IP.
- Click on Apply

- 1/ 1	EL P-2	812HNU-F1					Language :	English 👻 📑	Logou
NAT Port	Forwarding	DMZ Sessi	ons Address Mapping	ALG					
	The Addres	s Mapping allows y	ou to map the local IP addre	ss(es) to global IP addr	ress(es) accordingly.				
	Add								
	#	Set	Local Start IP	Local End IP	Global Start IP	Global End IF	р Туре	Modify	
	1	1	192.168.1.33	192.168.1.65	41.134.63.9	41.134.63.9	Many-to-One	21	
			rection Status Network S	etting Security	VoiP	System Monitor	Maintenance		

• Address Mapping rule has been created

	P-20121	HNU-F1					Language :	English 🔻 🕒 Log
NAT Port Forw	varding DI	MZ Sessions	Address Mapping	ALG				
П	he Address Ma	pping allows you to	map the local IP address	s(es) to global IP addres	ss(es) accordingly.			
	Add	Set	Local Start IP	Local End IP	Global Start IP	Global End IP	Туре	Modify
	1	1	192.168.1.33	192,168,1,65	41.134.63.9	41.134.63.9	Many-to-One	
				➢ Firewall				
				MAC Filter				
				<ul> <li>MAC Filter</li> <li>Parental Control</li> </ul>				
		r	3	<ul> <li>MAC Filter</li> <li>Parental Control</li> <li>Certificates</li> <li>IPsec VPN</li> </ul>			ER:	

• Mouse over the Security tab

Port Forwarding	DMZ Session	s Address Mapping	ALG				
The Addre	ss Mapping allows you	to map the local IP addre	ss(es) to global IP addre	ss(es) accordingly.			
Add							
#	Set	Local Start IP	Local End IP	Global Start IP	Global End IP	Туре	Modify
1	1	192.168.1.33	192.168.1.65	41.134.63.9	41.134.63.9	Many-to-One	21
			> Firewall				
			MAC Filter				
			Parental Control				
			<ul> <li>Parental Control</li> <li>Certificates</li> </ul>				
			Parental Control				

• Click on L2TP VPN

XEL P-2812F	INU-F1						anguage : English 👻
P VPN							
etup Monitor							
Monitor Page will	show the active L2TP connec	tion status					
Туре	Active	Connection Type	Tunnel Co	nnected	Call Connected	Local IP Address	Remote IP Address
Dial in	9	Remote Access	9	1	lone	None	None
Dial out	9	LAN to LAN	9		I	10.24.172.207	197.81.146.2
							Refresh
	Connection Status	Network Setting	Security	VolP	System Monito	or Maintenance	

### • Click on the Monitor tab; this will indicate the status of the L2TP tunnel.