

Remote Access via VPN Configuration (May 2011)







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Important Considerations



Some Internet service suppliers (ISP from now on) restrict the traffic through VPN. For further information ask your ISP.



It is possible that the indicated configuration does not work with other router models different than the specified.



Make sure the router has the latest firmware version installed (currently 3.6). Otherwise see: "ANNEX A: Firmware update".



In installations where it is not possible to substitute the main router (for instance, if the client has Imagenio), we recommend connecting a 3G USB modem to the router. For further information see: "ANNEX B: Internet access through 3G USB modem".







Supported router models

The tested router models are from Draytek. Specifically, depending on the needs, we recommend to use one of the following models:

- Vigor 2710: It has the ability to connect simultaneously until 2 VPN. It has firewall functionalities, besides having a USB port to connect storage devices, printers and 3G modems (see annex). It does not support wireless connections.
- Vigor 2710N: It has the ability to connect simultaneously until 2 VPN. It has firewall functionalities, besides having a USB port to connect storage devices, printers and 3G modems (see annex). It does support wireless connections.

For further information visit: <u>http://www.draytekonline.com</u>.

Installation Topology



In the previous scheme we indicate the necessary physical connections for the router. The KNX IP Router – Gateway would connect as any other PC (to a router LAN port).







Dynamic IP Configuration (DynDNS)

NOTE: This section is only necessary in the case of not having a fixed IP. For further information consult your ISP.

Most ISP provide their clients with a dynamic IP to access Internet. Since this IP can be modified anytime, it is necessary to configure the *DynDNS* service in order to establish connections without having to know every time the public IP of the installation.

First of all go to: <u>http://www.dyndns.com/</u>.









Next, go to "Sign In" -> "Create an Account".



Afterwards, you will be asked to register a user name and password, as well as an e-mail address where you will receive a verification mail.









Once you have received the confirmation mail, you will be asked to confirm the password to activate the account.

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With the *DynDNS* account created, a window as the one bellow will appear. Select "Add Hostname".

	https://www.dyndns.com/confirm/cre	ate/kvYuMUS3cirNZF8NcxL15	Q		C (Q+ Go	ogle		
camera	view con Google VGA tutorial Mer	mory VHDL Imprimir en m	ac Memory YouTube	AtajosTeclado Inte	grator Google Maps il	Phone Dev Center Apple	e Time Tracker	Apple
JynDNS.com -	User Into Confirm			DUC	Barris I Frankright			
				Divis a	Domains Email Service	s Performance & Securi	ity	
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		congratulati	0115. 1001 / G	ccount is n	ow riccive.			
	Account ho	useinhand-prueba has be	en confirmed and acti	ivated. Please explor	e following options to g	et started.		
			March Dave	ula a				
	DurDNG		Most Pop	ular	DD	If Custom		
	DynDNS I	Free	Most Pop DynDNS	ular Pro	DynDN	IS Custom		
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Next, a window as the one bellow will appear:



The fields to fill in are:

- **Hostname:** Name assigned to the service. It is possible to introduce any name. Select the extension **.dyndns.org**. An example would be *hih-prueba.dyndns.org*.
- Service Type: Leave it in "Host with IP address".
- **IP Address:** Current public IP address. Fill it in with the one indicated in the field "Your current location's IP address is ..."
- Mail Routing: Disabled.







Finally, select "Proceed to checkout" to finish the configuration.







Vigor 2710 Router Configuration

This section has been divided in the following points:

ΚΝΧ

- **ADSL Parameters:** Set of necessary parameters to Access Internet through the router.
- **DynDNS:** Configuration of *DynDNS* service in the router.
- **VPN Server Parameters:** Necessary configuration in order to create the VPN server in the router and allow the remote connections.

Moreover, in the case of having the Vigor 2710N model, the wireless network will have to be configured.

Once the router is connected (according to the connection parameters in the section *"Installation topology"*), connect the computer to a router LAN port and access the configuration web <u>http://192.168.1.1/.</u>

A window as the following will appear, where you must introduce the user name and password (by default *admin – admin*).

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□ Ⅲ	camera view con Google	VGA tutorial	Memory V	HDL Imprimir en mac	Memory	YouTube	AtajosTeclado	Integrator	Google Maps	iPhone Dev Center	Apple	Time Tracker	Apple	>>
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ADSL Parameters

The first step will be to introduce the necessary parameters to establish Internet connection.

For that purpose, select option "Quick Start Wizard".

First, you will have to modify the password to access the router (you can continue without modifying it).

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Vigor 2710 Series ADSL2/2 + Firewall Router	Dray Tek www.draytek.com
Auto Logout 🗧	Quick Start Wizard
Quick Start Wizard Service Activation Wizard	Enter login password
Online Status Internet Access LAN NAT Firewall Objects Setting CSM Bandwidth Management Applications	Please enter an alpha-numeric string as your Password (Max 23 characters). Old Password New Password Confirm Password
VPN and Remote Access Certificate Management USB Application System Maintenance Diagnostics	
Support Area Product Registration	< Back Next > Finish Cancel
Logout All Rights Reserved.	
Admin mode Status: Ready	

Next, introduce the contracted ADSL parameters using the autodetection option. In the next window you will be asked the user name and password provided by your ISP.

In case you do not know those parameters, your ISP will provide them.







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Vigor2710 Series			+
Vigor2710 Series ADSL2/2+ Firewall Router			Dray Tek
Auto Logout 🗘	Quick Start Wizard		_
Quick Start Wizard Service Activation Wizard	Connect to Internet		_
Online Status	VPI	8 Auto detect	
Internet Access	VCI	32	
	Protocol / Encapsulation	PPPoE LLC/SNAP 🗘	
Firewall	Fixed IP	Yes No(Dynamic IP)	
Objects Setting	IP Address		
CSM Bandwidth Management	Subnet Mask		
Applications	Default Gateway		
VPN and Remote Access Certificate Management	Primary DNS		
USB Application	Second DNS		
System Maintenance			
Diagnostics			
Support Area Product Registration		< Back Next > Finish Cancel	
Topore			
All Rights Reserved.			
Admin mode Status: Ready			li

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Auto Logout 🗘	Quick Start Wizard								
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Online Status	User Name								
Internet Access	Password Confirm Password								
NAT	Committeesword								
Firewall Objects Setting									
CSM Bandwidth Management									
Applications									
Certificate Management									
USB Application System Maintenance									
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Product Registration									
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Admin mode Status: Ready									







Once all the parameters are introduced, the router will be able to Access Internet, being possible to check out the status of the connection in the option *"Online Status"* -> *"Physical Connection"*.

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Vigor2710 Series		
Vigor2710 Series ADSL2/2+ Firewall Route	1	Dray Tek www.draytek.cor
Auto Logout 🗘	Online Status	
Quick Start Wizard	Physical Connection System Uptime: 25:19:11	
Inline Status	LAN Status Primary DNS: 80.58.61.250 Secondary DNS: 80.58.61.254	
Physical Connection	IP Address TX Packets RX Packets	
Virtual WAN	192.108.1.1 3/19// 444829	
nternet Access	Finable Line Name Mode Un Time	
AN	Yes ADSL PPPoE 24:31:39	
AT	IP GW IP TX Packets TX Rate(Bps) RX Packets RX Rate(Bps)	
bjects Setting	83.51.7.246 80.58.68.4 244795 339 306781 1000	
SM	ADSL Information (ADSL Firmware Version: 211011_A)	
andwidth Management	ATM Statistics TX Cells RX Cells TX CRC errs RX CRC errs	
PN and Remote Access	842863 6324178 0 223	
ertificate Management	ADSL Made State Up Grand Daws Grand SND Marrie Lass Att	
SB Application	Status Mode State Op Speed Down Speed SNR Margin Loop Att.	
iagnostics	ADSL2+(G.992.5) SHOWTIME 832000 10046935 10 30	
upport Area		
roduct Registration		
Logout		
All Rights Reserved.		







DynDNS

NOTE: This section is only necessary in case of not having a fixed IP. For further information ask your ISP.

Once the *DynDNS* account is created (see section "*Dynamic IP Configuration*"), it is necessary to configure the router so that it updates the *DynDNS* service every time the public IP is modified.

To that end, select "Applications" -> "Dynamic DNS". It will appear a window as the one below, where you will activate "Enable Dynamic DNS Setup" and press index 1.

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Vigor2710 Series			
Vigor 2710 Serie ADSL2/2 + Firewall	es Router		Dray Tel www.draytek.co
Auto Logout 🗘	Applications >> Dynamic DNS So	etup	
Quick Start Wizard	Dynamic DNS Setup	Sett	o Factory Default
nline Status	Enable Dynamic DNS Setup	View Log	Force Update
nternet Access	Auto-Update interval 14400 Min((s) (1~14400)	
AN	Accounts:		
AT	Index	Domain Name	Active
bjects Setting	1.		v
SM	2.		x
andwidth Management	3.		×
Dynamic DNS	Y		
Schedule			
		OK Clear All	
IGMP			
Wake on LAN			
PN and Remote Access			
SB Application			
ystem Maintenance			
agnostics			
ipport Area			
roduct Registration			
Logout			
All Rights Reserved.			
Admin mode Status: Ready			
Status: Ready			

In the following window, configure these parameters:

- "Enable Dynamic DNS Account": Activate the box.
- "Service Provider": Select dyndns.org (www.dyndns.org).
- "Service Type": Select "Dynamic".
- "Domain Name": Hostname created in the *DynDNS* service. Select the extension *.dyndns.org*. In the previous example *hih-prueba.dyndns.org*.
- "Login Name": DynDNS account's user name.
- "**Password**": *DynDNS* account's password.







The rest of the parameters must remain blank.

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Auto Logout	Applications >> Dynamic DNS Setup >> Dynamic DNS Account Setup	
Quick Start Wizard Service Activation Wizard Online Status Internet Access LAN NAT Firewall Objects Setting CSM Bandwidth Management Applications P Schedule P Schedule P Schedule P Schedule P Schedule P KANUS P UPINP P Wate on LAN VPN and Remote Access Certificate Management USB Application System Maintenance Diagnostics Support Area Product Registration	Index : 1 If Enable Dynamic DNS Account Service Provider dyndms.org (www.dyndms.org) Domain Name hub-prueba dyndms.org dyndms.org Login Name houseinhand-prueba (max. 64 characters) Password (max. 23 characters) Wildcards Backup MX Mail Extender OK Clear Cancel	







VPN Server Parameters

First of all, select the in the left bar "VPN and Remote Access" -> "Remote Access Control" and mark all three options.

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Vigor 2710 Series ADSL2/2+ Firewall Router		Dray Tek www.draytek.com
Auto Logout 🗘	VPN and Remote Access >> Remote Access Control Setup	
Quick Start Wizard Service Activation Wizard	Remote Access Control Setup	1
Online Status	Enable PPTP VPN Service	
Internet Access	Enable IPSec VPN Service	
LAN	Enable L2TP VPN Service	
NAT	Note: If you intend running a VPN server inside your LAN, you should uncheck the appropriate	
Firewall Objects Setting	protocol above to allow pass-through, as well as the appropriate NAT settings.	
CSM		
Bandwidth Management	(OK) Clear Cancel	
Applications		
P Remote Access Control		
PPP General Setup		
▶ IPSec General Setup		
IPSec Peer Identity		
Remote Dial-in User IAN to IAN		
Connection Management		
Certificate Management		
USB Application		
Diagnostics		
Support Area		
Product Registration		
Loqout Admin mode Status: Ready		

Next, select *"IPsec General Setup"* and introduce a shared password (from now on defined as **secret**). In the section *"IPSec Security Method"* unmark all the boxes but *"3DES"*.

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+ Shttp://192.168.1.1/	C Qr Google	
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Vigor2710 Series ADSL2/2+ Firewall Router		DrayTek www.draytek.com
Auto Logout 🗘	VPN and Remote Access >> IPSec General Setup	
Quick Start Wizard Service Activation Wizard Online Status	VPN IKE/IPSec General Setup Dial-in Set up for Remote Dial-in users and Dynamic IP Client (LAN to LAN).	
	IKE Authentication Method	
Internet Access	Pre-Shared Key	
NAT	Confirm Pre-Shared Key	
Firewall	IPSec Security Method	
CSM	Medium (AH)	
Bandwidth Management	Data will be authentic, but will not be encrypted.	
Applications	High (ESP) 🛛 DES 🗹 3DES 🔄 AES	
Remote Access Remote Access	Data will be encrypted and authentic.	
PPP General Setup		
IPSec General Setup	OK Cancel	
Remote Dial-in User		
► LAN to LAN		
Connection Management		
USB Application		
System Maintenance		
Diagnostics		
Support Area		
Product Registration		
Admin mode Status: Ready		ĥ







Once all the modifications are accepted, select *"Remote Dial-in User"* and activate the box *"Enable this account"*.

Modify the box *"Idle Timeout"* to 0. Next, activate the boxes *"PPTP"* and *"L2TP with IPSEC Policy"* (with the option *"Must"*).

Next, mark the box "Specify Remote Node" and edit the user name and password (which will be the ones to introduce in your iPhone).

The next step will be to introduce the secret previously configured (section "IKE Authentication Method") and, in section "IPSec Security Method" unmark all the options but "3DES".

As an option, you can activate the box *"Multicast via VPN"* (from *"Block"* to *"Pass"*), in order to enable the **IP Autofindging** option for remote connections.



Once all the parameters are introduced, press "OK".







Finally, it will be necessary to come back to this window, unmark the option "Specify Remote Node" and save changes (see the following image).

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<pre>if the http://192.168.1.1/ if amera viewcon Google VGA tutorial Memor Vigor2710 Series Vigor2710 Series</pre>	y VHDL Imprimir en mac Memory YouTube AtajosTeclado Integrator Google Maps iPhone Dev Center Apple Time Tracker Apple
ADSL2/2 + Firewall Route	VPN and Remote Access >> Remote Dial-in User Index No. 1 User account and Authentication ✓ Enable this account Password
Internet Access LAN NAT Firewall Objects Setting CSM Bandwidth Management Applications VPN and Remote Access PRemote Access Centrol > PRPSc General Setup > IPScs Central Setup	Idle Timeout 0 second(s) Allowed Dial-In Type IKE Authentication Method Ø PPTP IPSec Tunnel Ø Pre-Shared Key Ø Specify Remote Node Digital Signature(X.509) Ø Specify Remote Node IPSec Security Method Ø Mone © IPSec Security Method Ø Medium(AH) High(ESP) Notios Naming Packe Pass Ø Paso Block (for some IGMP,IP-Camera,DHCP Relay.etc.) Local ID (optional)
USB Application System Maintenance Diagnostics Support Area Product Registration Logout Admin mode Status: Ready	OK Clear Cancel

The rest of the available options must remain as they are by default.



With the next steps, we will configure the mobile device so that you can access the remote network (where KNX set up is found) by means of a VPN connection.

- 1. Access "Settings" ->"General" ->"Network" ->"VPN".
- 2. Select the option: "Add VPN Configuration".



- 3. Fill in the next fields in the "L2TP" type:
 - Description: Name assigned to the configured VPN.
 - Server: If you have configured the *DynDNS* service, fill it with the configured server address (xxx.dyndns.org). On the contrary, introduce the fixed IP assigned by the ISP.
 - Account: User name inserted in the section "Remote Dial-in User" of the router.
 - RSA SecurID: Disabled.
 - **Password:** Password introduced in the section *"Remote Dial-in User"* of the router. If it is left blank, every time you activate the VPN, the password will be asked.
 - Secret: Secret configured in the router, in section *"IKE Authentication Method".*
 - Send all traffic: Enabled.
 - Proxy: Select No.







}	18:10	31 % 📰
Cancelar Ai	ñadir config.	Guardar
L2TP	PPTP	IPSec
Descripció	n Prueba- Hih	
Servidor	hih-prueba.dy	ndns.org
Cuenta	test	
RSA Secur	ID	0
Contraseña		
Secreto	•••••	
Enviar todo	el tráfico	
Proxv		

4. Save configuration.









5. Activate the VPN. The status will go from: "Connecting" ->"Starting" - >"Authenticating" ->"Connected".

	18:11	31 % 💻
Ajustes	VPN	
VPN		
Estado	Conectado: 0	:18 >
Seleccione una	configuración	1
✓ Prueba-Hih Personalizado		$\overline{\mathbf{O}}$
Añadir confi	guración VPN.	>

6. From that moment on, in the main page of settings, it will appear a switch to activate/deactivate the VPN connection. Connection is ready, being able to connect both by 3G/GPRS and WiFi.

≁	18:19	30% 📰	
	Ajustes		
•	Modo Avión		
Ŷ	Wi-Fi	No >	
VPN	VPN	0	
	Notificaciones	Sí 🔉	
	Sonidos	>	
*	Brillo	>	
*	Fondo de pantalla	>	
	General	>	







ANNEX A: Draytek Vigor 2710 (2710N) router firmware Update

Due to modifications introduced by Apple from the IOS version n 4.0, it is necessary to update the router's firmware so that the VPN connection works correctly.

For the update, it is necessary a computer with Windows connected to the router and following these steps:

- 1. Go to http://www.draytek.com/.
- 2. Go to "Support" -> "Downloads" and select "Vigor 2710 series".
- 3. Once registered, select again the model "Vigor 2710 series" and download the option "Vigor2710 V3.3.6 AnnexA Standard.zip".

When unzipping the file, two files will appear. The one you need is .all.

At this point, it is possible to update the router in two different ways. The first one is to access the option *"System Maintenance" -> "Firmware Upgrade"* with the configuration web and update the router directly.

If this option does not work, download the utility from the producer's web site http://www.draytek.co.uk/support/downloads.html.

You can find this utility at the bottom of the page, in *"Router tools" -> "Firmware Upgrade V.3.6.2 (Windows)".*

When installing and executing this utility, you will have to introduce the router's IP, the downloaded firmware and the router's access password (by the default *admin*).

NOTE: It is necessary to disable the Windows firewall during the update.

🆄 Firmware Upgrade Utility 3.6.1	
Devideo VD:	
Router IP:	
192.168.1.1	
Firmware file:	
.all	
VoIP Module File:	
Password:	Port
••••	69
Time Out(Sec.) 5 Abort	Send







ANNEX B: Internet access through 3G USB modem

Optionally, it is possible to connect a 3G modem to the USB port. This functionality can be very useful in environments where it is not possible to substitute the main installation router (for instance, if you have Imagenio), as well as in facilities where permanent ADSL connection is not required (for example, secondary residences). Finally, it can be used as a second line in case of ADSL main service failure.

Configuration can vary according to the 3,5G USB modem that is chosen. In any case, it is necessary to activate some parameters of the router.

- 1. Go to "Internet Access" -> "PPPoE/PPPoA".
- 2. In the bottom of the window, select "Go to 3G USB Modem Setup".

Vigor2710 ADSL2/2+) Series Firewall Router	Dray Tek www.draytek.com
Auto Logodi C Quick Start Wizard Online Status Internet Access F PPRE (PPPAA F MAC (PPCAAD3/2004) > Multi-PVCS LAN NAT Firewall Objects Setting CSM Bandwidth Management Applications VPN and Remote Access Certificate Management Wireless LAN USB Application System Maintenance Diagnostics	Modulation Multimode PPPoE Pass-through PPPoE Pass-through Pro Wind LAN Pro Wind LAN Pro Windex LAN Note: If his box is checked while using the PPPoA protocit, the router will behave like a modern which only serves the PPPoE client on the LAN. WAN Connection Detection Mode ARP Detect Ping IP TTL: WAN Backup Setup SG USB Modern Dial Backup Mode Exable Go to 20 USB Modern Setup	Fixed IP Yes No (Dynamic IP) Fixed IP Address
Admin mode Status: Ready		

- 3. In the next window you will have to configure the following fields:
 - "PPP Client Mode": Select "Enable".
 - "SIM PIN Code": Introduce the PIN of your SIM card. The producer recommends deactivating the PIN previously.
 - "APN Name": Parameter assigned by your ISP. Next, select "Apply".
 - "PPP Username": Parameter assigned by your ISP.
 - "PPP Password": Parameter assigned by your ISP.







Press "OK" (both in this window and the previous one) in order for the configuration to be effective.

Auto Logovi Quick Start Wizard Online Status	WAN >> Internet Ac	cess	
nternet Access PPPo& PPPoA MPoA (RPC3483/2654) Multi-PVCs AN AT Grewall bjects Setting Set	20 USB Modern Setup PPP Cliant Mode SIM PIN code Modern Initial Sting APN Name Modern Dial Sting DDP Literration	Enable Disable APN-Standard as APN-Standard as ATDT+99# Approximate	(Default:AT&FE0V1X1&D2&C150=0) Apply (Default:ATDT'99#)
andwidth lanagement pplications PN and Remote	PPP Osemalitie PPP Password Index(1-15) in Scher	eeseesee	(Optional)
Artificate Anagement Vireless LAN JSB Application Status: Residy		OK Car	Default