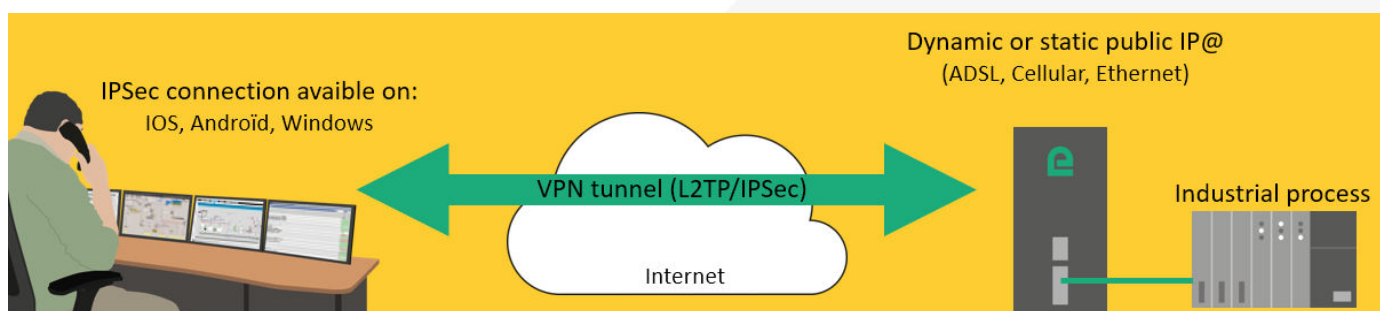


Application note

Setting an L2TP/IPSec remote connection

- Target of the solution
- Pre-requisites
- Configuration of the Etic Telecom device (RAS or IPL families)
- Configuring the Windows10 L2TP/IPSec client
- Configuring the IOS L2TP/IPSec client
- Hot line during your tests
- Virtual showroom

Latest update **09/25/2018**



1) AIM OF THE SOLUTION

The target of this document is to explain how to configure a secured remote connection to an Etic router through the Internet without any intermediate service.

The main advantages of L2TP/IPSec tunnels are that it is fully secured and integrated on all the main OSes.

This application note explains how to configure the router and the Windows or IOS client.

2) PRE-REQUISITES

- The ETIC router must have a public access from the Internet.
- For an ethernet ETIC router, the port UDP 500 and UDP 4500 should be redirected to the ETIC router.
- For a cellular ETIC router, you need to contact your provider to have a subscription that gives a public IP address.
- If you have a dynamic public IP address, you can use the EticDNS service to obtain a domain name that is automatically updated when the IP@ changes (see [Starting with Etic DNS solution](#)).

3) CONFIGURATION OF THE ETIC TELECOM DEVICE (RAS OR IPL FAMILY)

Installation and setup of the Etic Telecom device is described in the [Etic Telecom Starter kit](#).

A. ENABLING L2TP/IPSEC:

- SETUP / REMOTE ACCESS / REMOTE ACCESS SERVERS
- Check "Enable L2TP/IPSec"
- Choose a "key value" (Pre-shared key)
- "Cipher algorithm": AES
- "Message digest algorithm": SHA1
- "Message digest algorithm": SHA1



Home > Setup > Remote access > Remote access servers

HTTPS Application server

Enable HTTPS application server	☒
Enable HTTPS application server on WAN	☐

L2TP/IPsec properties

Enable L2TP/IPSec	☒
Cipher algorithm	AES ▼
Message digest algorithm	SHA1 ▼
Authentication method	Pre Shared Key ▼
Key value	azertyuiop

Protocols allowed for authentication

PAP	☐
CHAP	☒
MS-CHAP	☒
MS-CHAP v2	☒

OpenVPN properties

B. USER CREATION

- SETUP / REMOTE ACCESS / USER LIST
- Add user on user list table
- Choose a "name", "username" and "password"
- Give him Access rights to the devices you want to access



RAS-ECW-230

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Home > Setup > Remote access > Users List > User Configuration

Save Cancel Page has unsaved changes

User information

Active ☒

Full name Etic

Company

E-mail address

Phone number (International format : +33611223344)

User name etic

Password Password strength medium

For security reasons, choose a password longer than 8 characters with uppercase and lowercase letters, numbers and special characters

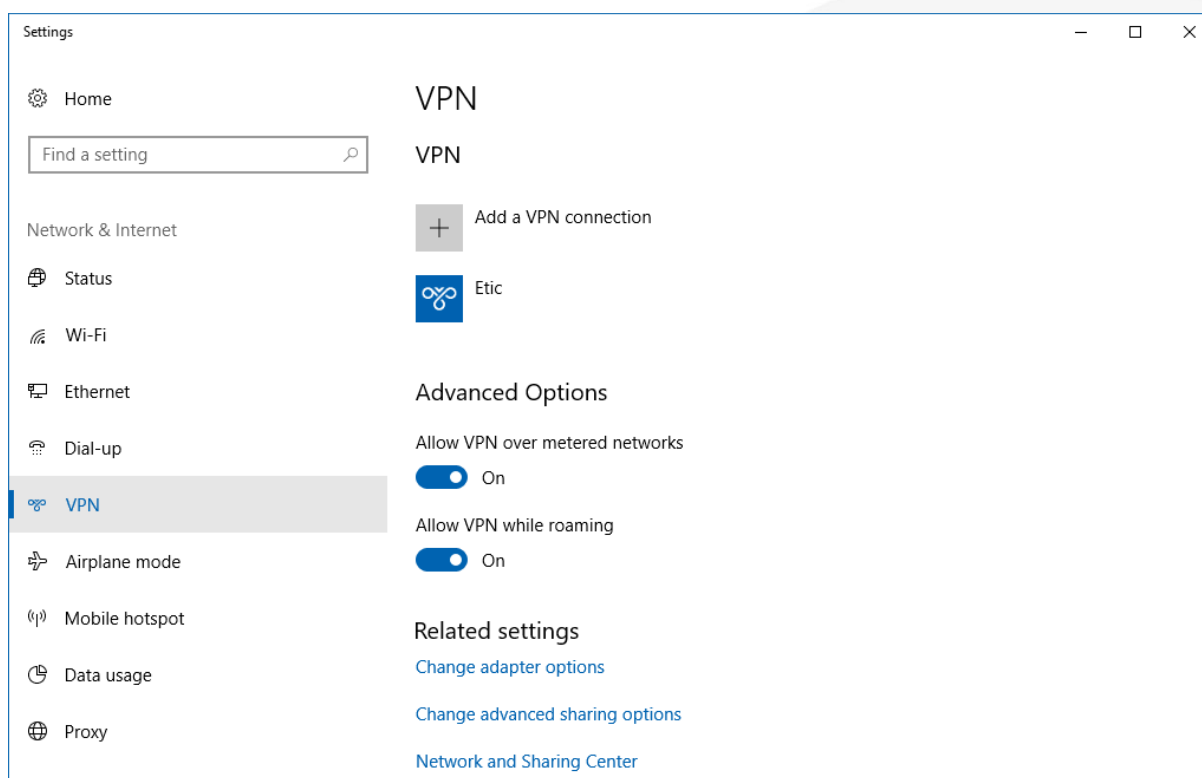
Access rights

Select on the table below the devices and services the user will be authorized to access.

Authorize	Device	Services
☒	All the devices	+ All
☐	All devices on the LAN	+ All
☐	All devices on the additional LAN	+ All

4) CONFIGURING WINDOWS 10 L2TP/IPSEC CLIENT

- Network & Internet settings
- Select VPN tab
- Add a VPN connection



Settings

Edit VPN connection

These changes will take effect the next time you connect.

Connection name

Etic

Server name or address

server.eticdns.com

VPN type

L2TP/IPsec with pre-shared key

Pre-shared key

.....

Type of sign-in info

User name and password

User name (optional)

dj

Password (optional)

.....

Save Cancel

- Server name or address: Public Internet IP or domain name
- Pre-shared key: chosen on §2. A
- User name and Password: of the user created on §2. B
- Save and connect

5) CONFIGURING IOS L2TP/IPSEC CLIENT

- SETTINGS / GENERAL / VPN
- Add VPN configuration
- “Type”: L2TP
- “Server”: RAS public IP address
- “Account”: username of the user created on the RAS
- “Password”: password of the user created on the RAS

The screenshot shows the 'Add New VPN' configuration screen in iOS. At the top are 'Cancel' and 'Done' buttons. The 'Type' is set to 'L2TP'. Below this, the 'Description' is 'Etic', 'Server' is '1.2.3.4', and 'Account' is 'etic'. There are fields for 'RSA SecurID' (with a toggle switch), 'Password' (masked with dots), and 'Secret' (masked with dots). The 'Send All Traffic' toggle switch is turned on. At the bottom, there is a 'PROXY' section with three buttons: 'Off' (selected), 'Manual', and 'Auto'.

- Touch “done” button
- Slide “Status” switch to connect the VPN

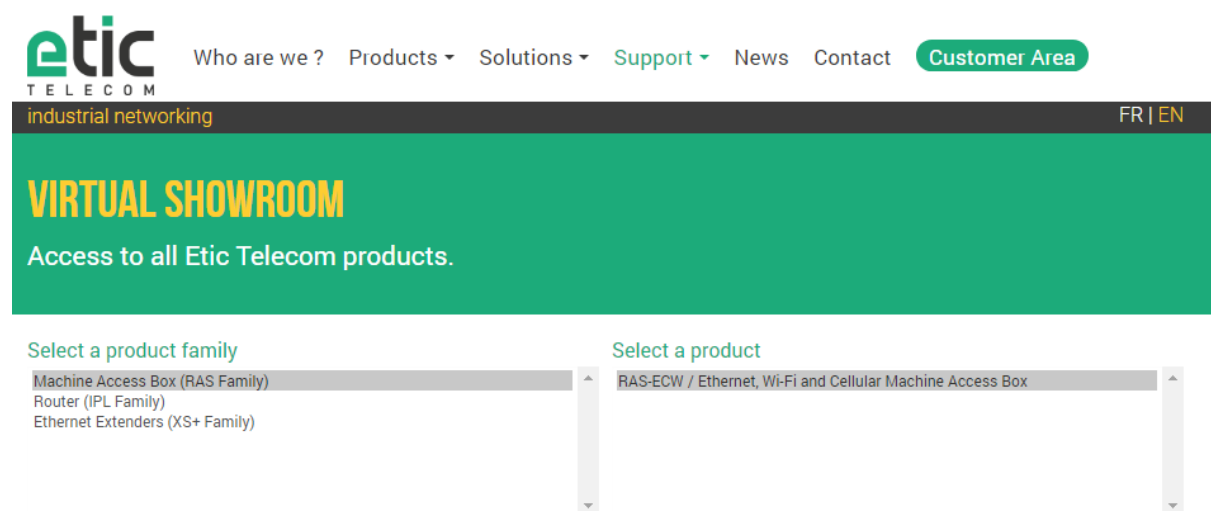
The screenshot shows the 'VPN' status screen in iOS. At the top, there is a back arrow and 'General' label, and a 'VPN' title. Below this is a section titled 'VPN CONFIGURATIONS'. The 'Status' is shown as 'Connected' with a green toggle switch. Below that, there is a list of VPN configurations. The first one is 'Etic' with a checkmark and the word 'Unknown' below it, and an information icon to its right.

6) HOT LINE SUPPORT DURING YOUR TESTS

You can contact our hotline at any time during this training phase with the Alert & Display solution at +33 4 76 04 20 05 or via hotline@etictelecom.com.

7) VIRTUAL SHOWROOM

You also have the possibility by simply logging on our website <http://www.etictelecom.com> ("Support" and then "Virtual showroom") to familiarize you with the configuration of our products.



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