$https://wiki.teltonika-networks.com/view/Connecting_to_the_office_network_remotely_from_your_home_via_VPN_(L2TP_over_IPsec)_using_RUT9xx$

Connecting to the office network remotely from your home via VPN (L2TP over IPsec) using RUT9xx

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Configuration overview and prerequisites

Prerequisites:

- One RUTxxx routers of any type (excluding <u>RUT850</u>)
- A Public Static or Public Dynamic IP addresses
- At least one end device with Windows 10

The topology above depicts the L2TP/IPsec scheme. - The router with the Public IP address (*RUT955*) acts as the L2TP/IPsec server and the Windows 10 device acts as client. L2TP connects the networks of **RUT955** and **Windows 10 client**, IPsec provides the encryption for the L2TP tunnel. Only LAN traffic is going to go through that tunnel, any other WAN traffic won't go through it. This way the VPN tunnel will not be under a huge load and will provide greater speeds.

When the scheme is realized, home workers will be able to reach corporation's internal network with all internal systems, allowing working from home to be possible.

Configuring HQ corporation router

L2TP

4. Don't forget to **Save** the changes

IPsec

 Go to the Services → VPN → IPsec page and do the following: 1. Enter a custom name for the IPsec instance. 2. Click the Add button. 3. Click the Edit button next to the newly created instance. 	×
In the IPsec Configuration page, do the following (and leave the rest as defaults, unless your specific configuration requires otherwise): 1. Enable the instance. 2. Select Type: Transport and Save changes.	×
After saving the changes, you will be redirected back to the main IPsec page. While there, locate the Pre-shared Keys section and do the following: 1. Click the Add button. 2. Enter your Pre-shared key . 3. Enter %any under Secret's ID selector . 4. Click the Save button.	×
Home worker's computer	
Type VPN settings in the Windows search bar:	×
Click the Add a VPN connection button:	×
 Configure the following parameters: 1. Select VPN provider: Windows (built-in). 2. Enter a custom Connection name. 3. Enter the router's WAN IP address into the Server name or address field. 4. Select VPN type: L2TP/IPsec with pre-shared key. 5. Enter the Pre-shared key exactly as it was specified on the router. 6. Select Type of sign-in info: User name and password. 7. Enter the User name and Password exactly as they were specified on the router router. 8. Click Save 	×
Type Network Connections in the Windows search bar:	×
Press right mouse click on your newly created VPN instance and select Properties :	X
Navigate to Networking section and double click Internet Protocol Version 4 (TCP/IPv4):	×
Go to Advanced settings:	×
Now disable Use default gateway on remote network and save settings:	×
Go back to the VPN settings page, locate your new connection and click the Connect button. If the connection was successful, you should see the word "Connected" appear under the connection name:	×
Results	
Home worker should now be able to access HQ network resources. To verify the connection you can ping some internal HQ server and if you get a reply, you have successfully connected to HQ's internal network.	×