



## How to create VPN L2TP connection on Windows 7 or Windows 10

1. Login in your device, the default user is adm and password is 123456, then go to the main menu, select the option VPN, then L2TP as shown.

The screenshot displays the InHand Router Web Console interface. The browser address bar shows 'https://166.139.135.52'. The page title is 'VPN >> L2TP'. The left sidebar contains a navigation menu with categories like Administration, Network, Services, Link Backup, Routing, Firewall, VPN, Python, Tools, and Wizards. The main content area is divided into two sections: 'System Status' and 'Network Status'. The 'System Status' section lists various system parameters and their values. The 'Network Status' section shows the status of Cellular 1, including signal level, register status, IP address, netmask, gateway, and DNS. An 'Alarm' panel on the right indicates 'Total Alarms: 0' and has a 'Stop' button.

2. Now, select L2TP tab and set up your InHand IR915 router following these steps
  - a. Enable the L2TP server
  - b. Create a user name
  - c. Type a password
  - d. Type the local IP address
  - e. Start the IP range for local network
  - f. End the IP range for local network
  - g. Apply and save changes



VPN >> L2TP

Enable  a

Username inhand b

Password c

Authentication Type Auto

Local IP Address 172.16.10.1 d

Client Start IP Address 172.16.10.2 e

Client End IP Address 172.16.10.100 f

Link Detection Interval 60 s

Max Retries for Link Detection 5

Enable MPPE

Enable Tunnel Authentication

Expert Options(Expert Only)

Apply & Save Cancel

g

Alarm

Total Alarms: 0

Alarm Summary

3 s

Stop

Save Configuration

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- Go to VPN and then IPsec in the left menu then, select the IPsec tab and click to the checkbox to enable this feature. Then configure IKEv1, IKEv2 and IPsec Policy as shown, do not forget press Apply & Save button:

VPN >> IPsec

Enable

IKEv1 Policy

ID	Encryption	Hash	Diffie-Hellman Group	Lifetime
1	AES256	SHA1	Group14	4000
	AES128	SHA1	Group2	86400

Add

IKEv2 Policy

ID	Encryption	integrity	Diffie-Hellman Group	Lifetime
1	AES128	SHA1	Group2	3000
	AES128	SHA1	Group2	86400

Add

IPsec Policy

Name	Encapsulation	Encryption	Authentication	IPsec Mode
1	ESP	NULL	SHA1	Transport Mode
	ESP	AES128	SHA1	Tunnel Mode

Add

Alarm

Total Alarms: 0

Alarm Summary

3 s

Stop

Save Configuration



- In the same screen, you will find IPsec tunnels, please click Add and fill as shown. In this case Shared Key will be 123456. Destination address is 0.0.0.0 because this device will work as server. Please don't forget Apply and save.

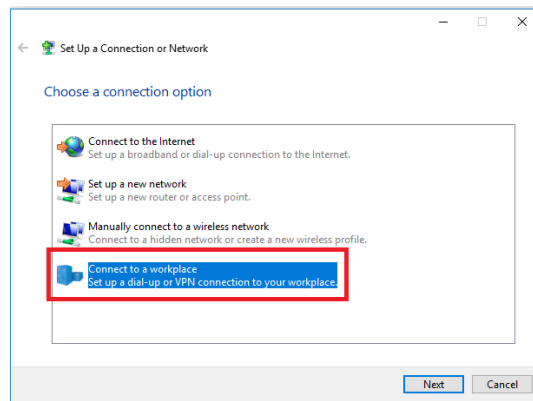
The screenshot shows the InHand Networks web interface for configuring an IPsec tunnel. The 'IPsec Setting' tab is active. Under 'Basic Parameters', the 'Destination Address' is set to 0.0.0.0, 'Map Interface' is 'cellular 1', 'IKE Version' is 'IKEv1', 'IKEv1 Policy' is '1', 'IPsec Policy' is '1', and 'Negotiation Mode' is 'Main Mode'. The 'Authentication Type' is set to 'Shared Key', with the key value '123456' entered in the adjacent field. Below these are sections for 'IKE Advance(Phase1)', 'IPsec Advance(Phase2)', and 'Tunnel Advance', each with an unchecked checkbox. At the bottom, there are 'Apply & Save', 'Cancel', and 'Back' buttons. A sidebar on the left contains navigation options like Administration, Network, Services, etc. An 'Alarm' panel on the right shows 'Total Alarms: 0' and a 'Stop' button.

- On Windows 7 or 10 select "Control Panel", then "Network and Internet" and then "Network and Sharing Center", here, you will find an option called "Set up a new connection or network"

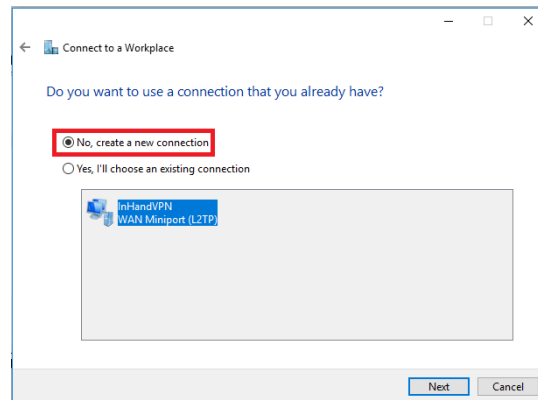
The screenshot shows the Windows 'Network and Sharing Center' window. The breadcrumb path is 'Control Panel > Network and Internet > Network and Sharing Center'. The main content area shows 'View your active networks' with a network named 'inhandnetworks 2' (Private network). Below this, under 'Change your networking settings', the option 'Set up a new connection or network' is highlighted with a red box. The text below it reads: 'Set up a broadband, dial-up, or VPN connection; or set up a router or access point.' Other options include 'Change adapter settings', 'Change advanced sharing settings', and 'Troubleshoot problems'.



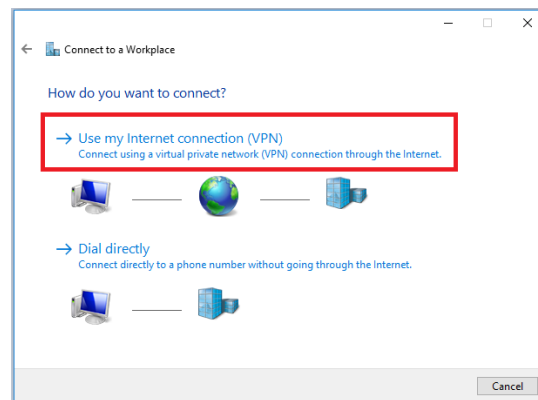
6. You will see a small screen, please select the option: “Connect to the work place” as shown



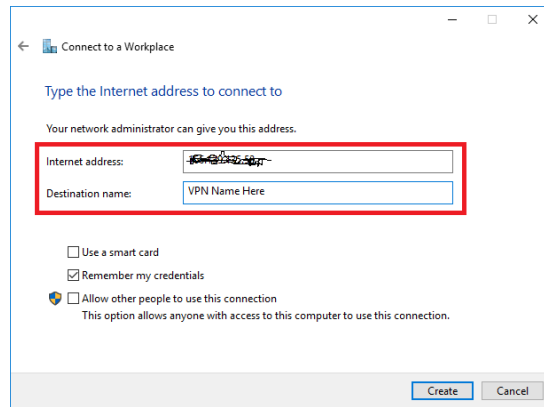
7. In the next screen, select “No, create a new connection”



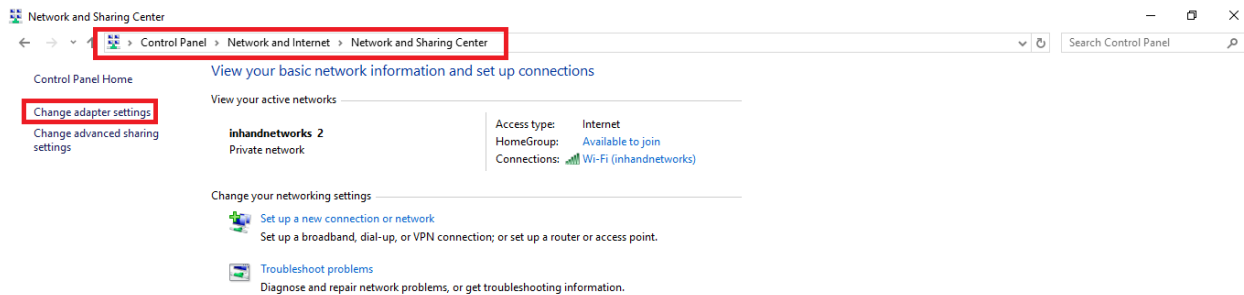
8. In the next screen select “Use my internet connection” as shown.



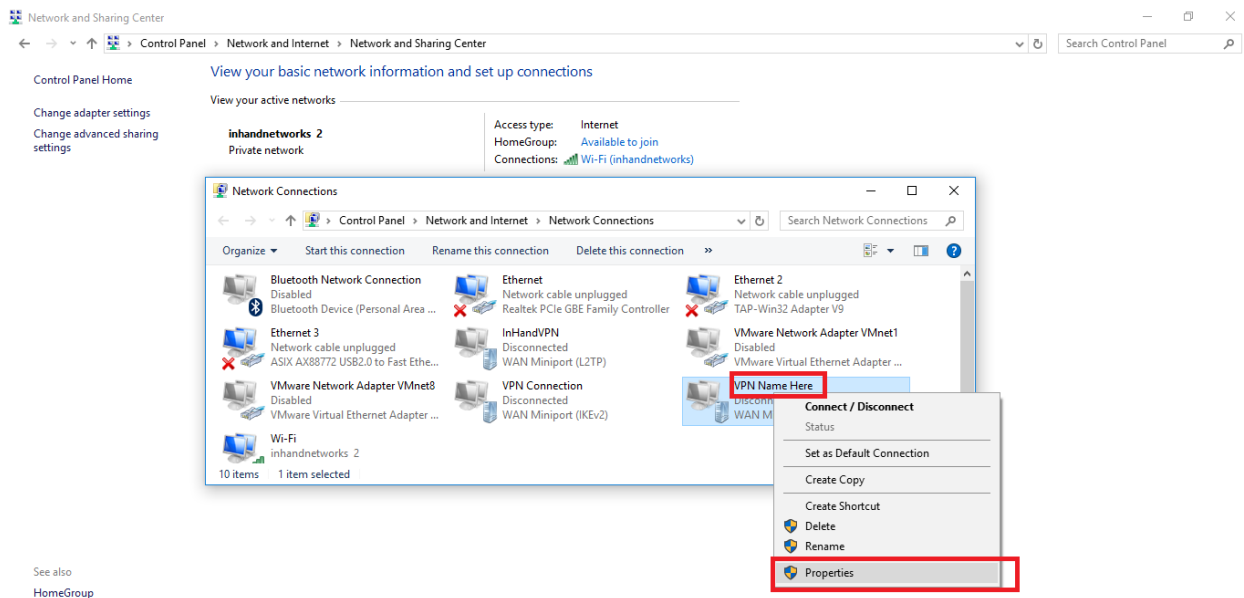
9. Now. You must type your IP address (server) and give a name to your VPN connection. And clic in “create” button.



10. On Windows 7 or 10 select “Control Panel”, then “Network and Internet” and then “Network and Sharing Center”, here, you will find an option called “Change adapter settings” and a new window will pop up.



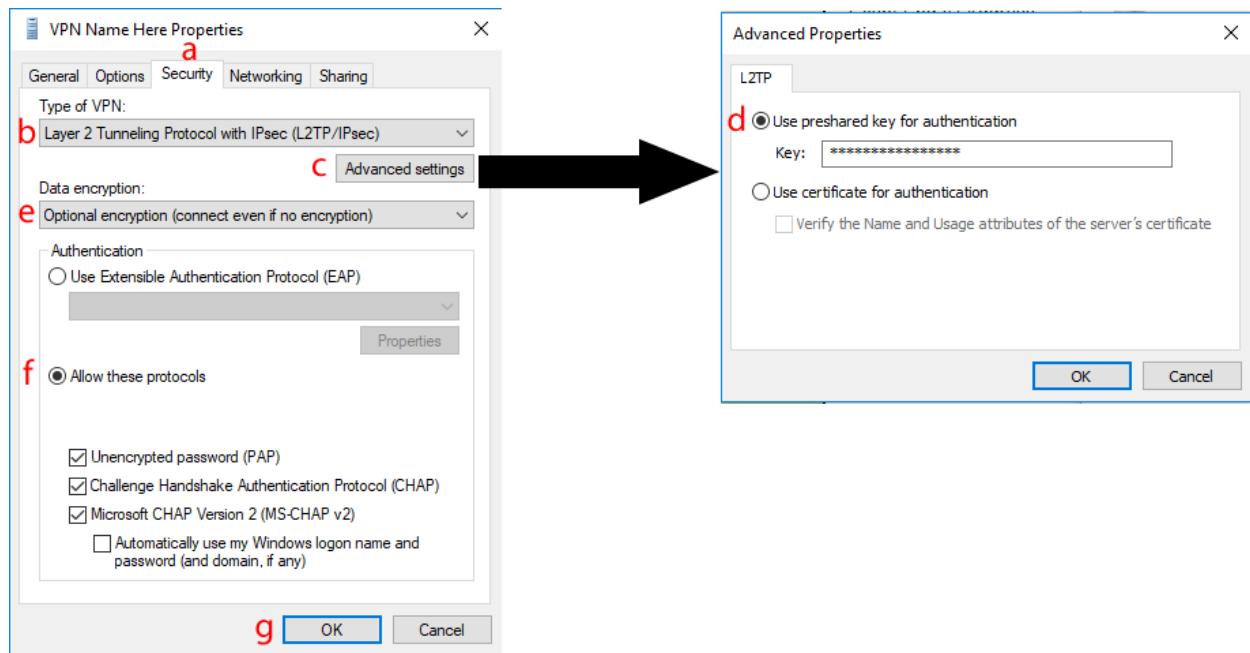
11. This window will show all your connections, please find your VPN connection previously created, then right click and the select properties as shown.



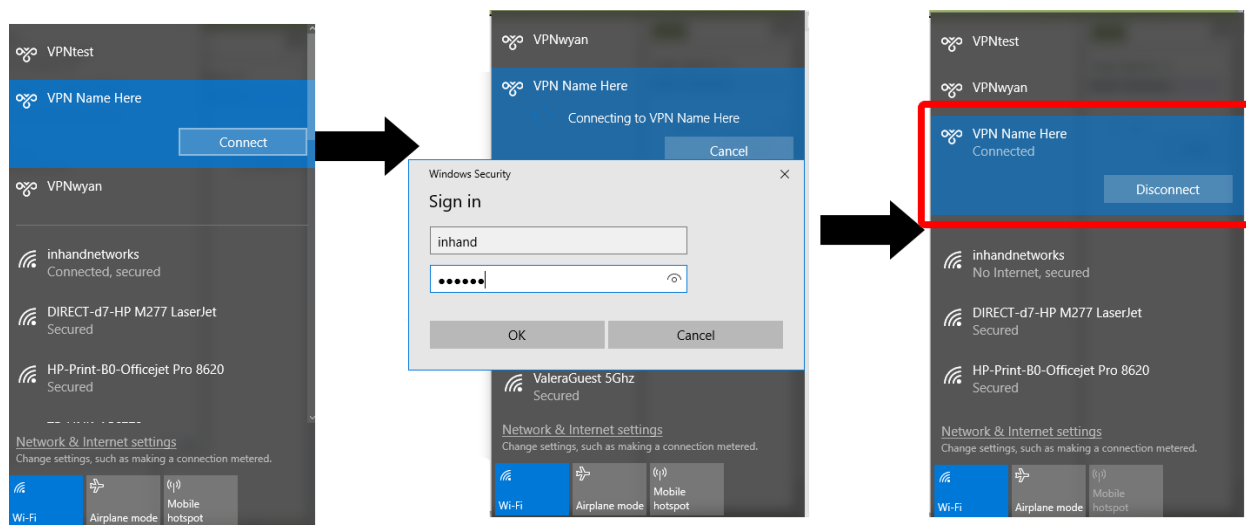


12. This small screen has important configurations:

- a. Please select “Security” tab.
- b. In the field “Type of VPN” please select “Layer 2 Tunneling Protocol with IPsec (L2TP/IPsec)”
- c. Click “Advance settings”
- d. Select “Use preshared key for authentication” Type it and then click in OK. Remember, we type the preshared key at step #4
- e. In “Data encryption” please choose “Optional encryption (connect even if no encryption)”
- f. In “Authentication field” please select “Allow these protocols” and mark PAP, CHAP and MS-CHAP v2 as shown
- g. Finally save this setting by clicking OK button. This configuration should be like the following picture.



13. Now you can make the connection. Please go to your wireless network manager. In Windows 7 or 10 it's in the right down corner. Then click in your VPN connection and finally click in connect button.



14. Enjoy your VPN connection.

If you have more question, please contact technical support.

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