

AC MOBILE CONTROL INSTALLATION GUIDE SUPPLEMENT

Router configuration for control over Internet functionality

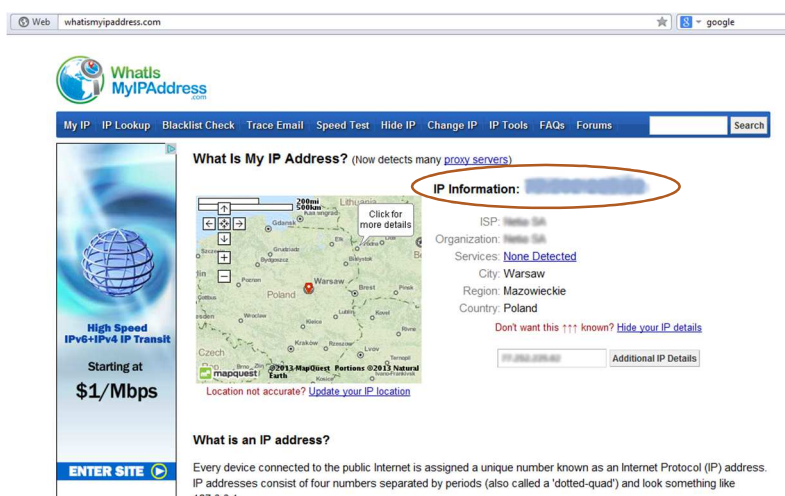
This guide will help users and installers to configure local router to enable remote control and monitoring of Air Conditioning System equipped with AC Mobile Control Gateway.

What do I need?

1. Basic computer skills
2. This Guide
3. Router access data (user name and password)
4. Active Internet connection (with **PUBLIC IP ADDRESS**)
5. 15 minutes of work

The procedure:

1. **Determine your Internet (external) IP address if you do not know it.**
 - a) Go to the one of many Internet services offering IP information.
You can use this one: <http://whatismyipaddress.com>



The screenshot shows a web browser at the URL <http://whatismyipaddress.com>. The page title is "What is My IP Address?". A map shows the location in Warsaw, Poland. The IP information is displayed as "IP Information: 123.456.789.0". Other details include: ISP: Netia SA, Organization: Netia SA, Services: None Detected, City: Warsaw, Region: Mazowieckie, Country: Poland. There is a link to "Hide your IP details" and a button for "Additional IP Details".

Your external (Internet) IP should be on the top of the page. Let's say it is: 123.456.789.0.

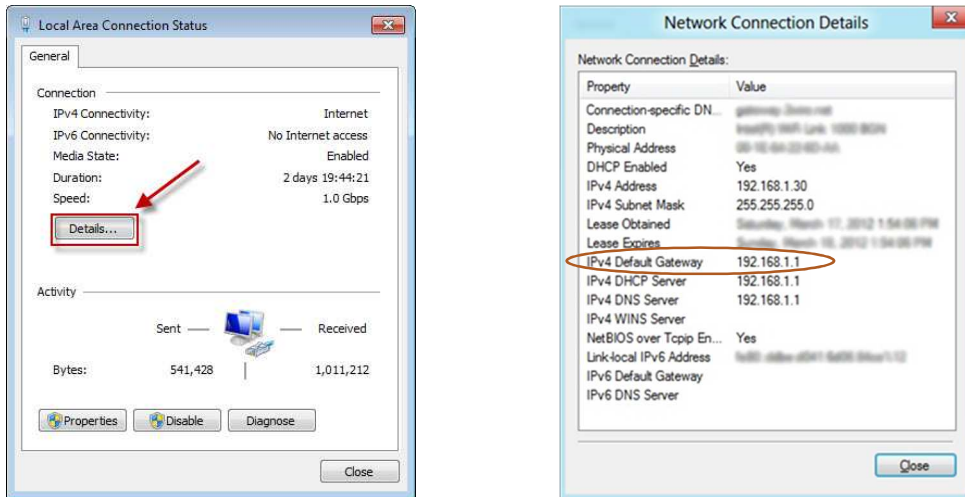
- b) Check it later on your router configuration page.

2. Check your router network address.

On Microsoft Windows Operating System: press START, then go to Control Panel -> Network and Internet -> Network and Sharing Center and click Manage network connections.



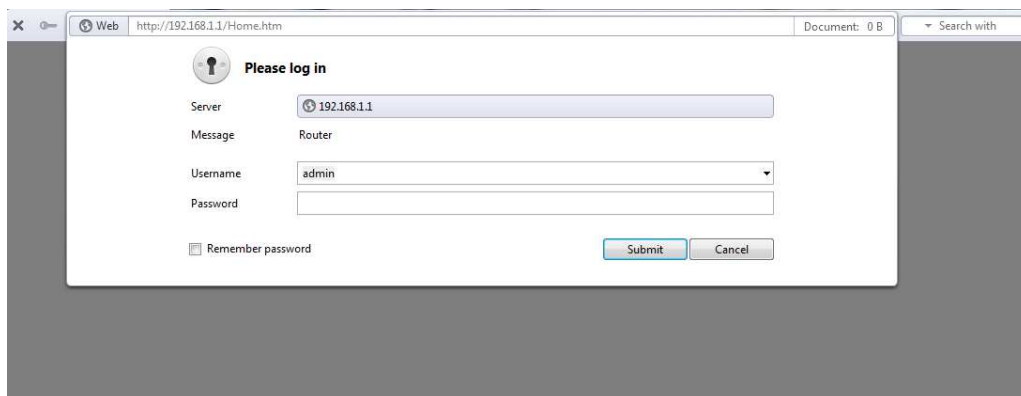
Select your active Internet connection and double click it. Then select Details button.



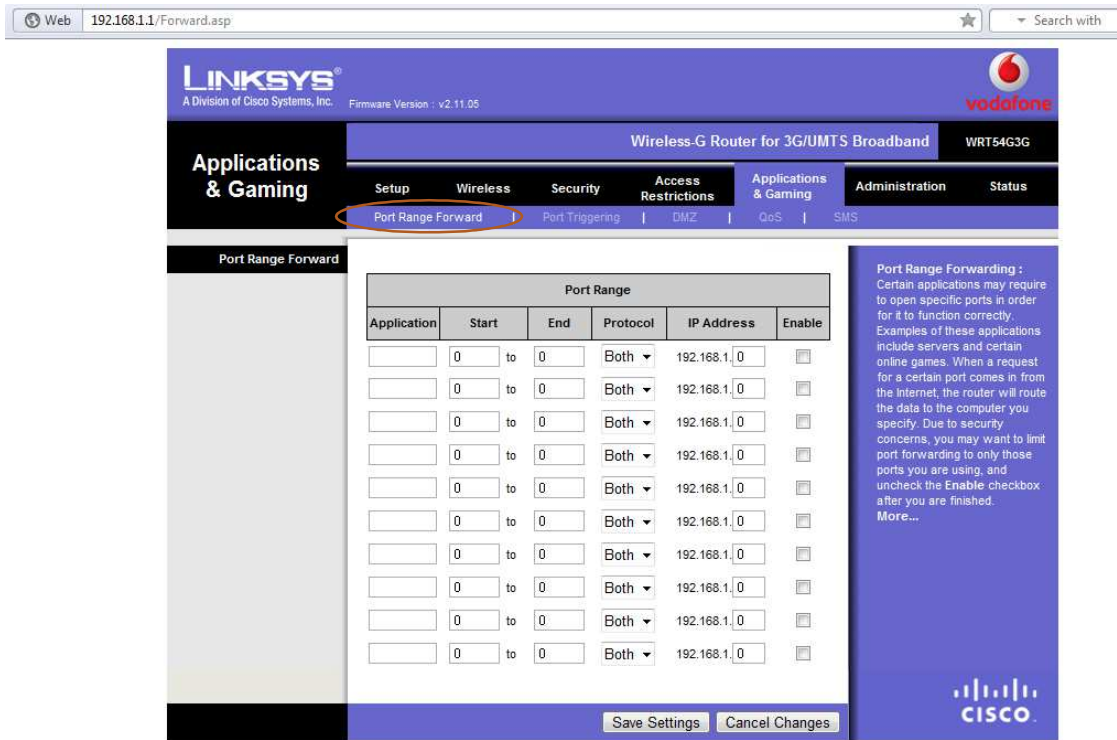
IPv4 Default Gateway is the IP address of your router in local network. In this case: 192.168.1.1.

3. Open router port forwarding configuration

Type the router's IP in address field of your internet browser. You should get login window/page. Login using your username and password.



Find Port Forwarding menu (name may be different depending on model and manufacturer).



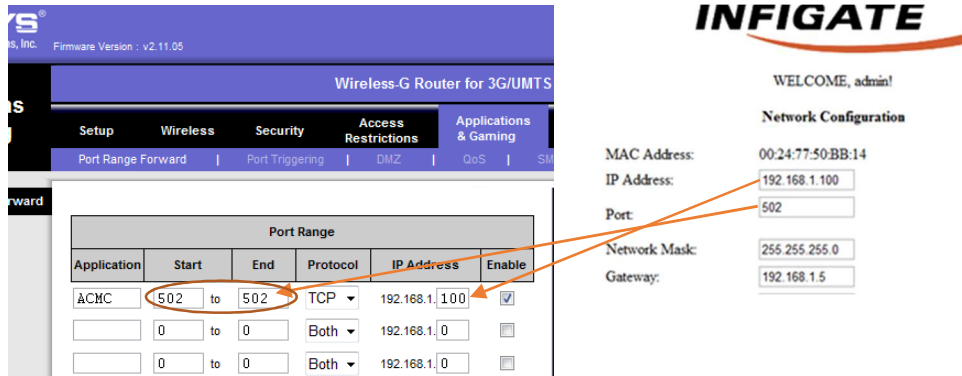
4. Check network configuration of your ACMC Gateway

Type the ACMC Gateway IP in address field of your internet browser (if you do not know Gateway IP address, you can check it in the ACMC Application settings under “Local network (home)”). You should get login window/page. Login using your username and password.



5. Configure port forwarding

Copy information from ACMC configuration page to router port forwarding page.



- Application** – custom name – this field is just a name
- Start** – beginning of redirected port range; in our case there is only one port
- End** – ending of redirected port range; since we are redirecting only one port, start = end.
- Protocol** – Gateway is using only TCP connections. You can leave “Both” if you like.
- IP Address** – address of the Gateway in the local network.
- Enable** – enables current setting.

Then press “Save settings” button, wait for save confirmation and log out.

6. Set network gateway address in ACMC Gateway

Go back to the ACMC Gateway configuration page and change “Gateway” to your router IP. In this case: 192.168.1.1.



Save new settings and reboot the Gateway.

7. Configure ACMC Application on your device.

Open application, go to settings and fill second set of network settings (“Remote access”).

ACMC Gateway network address – your external IP address (or host name when using NO IP or Dynamic DNS service) determined in 1st step of this guide.

ACMC Gateway port – port number configured in router port forwarding.

8. Check if everything works fine

Use mobile internet connection or another WiFi access point to connect over Internet.

If your IP address is dynamic (it changes from time to time), you can use Dynamic DNS service to avoid constant application reconfiguration.

Configuration of Dynamic DNS service is more complicated and will not be described in this guide. Please refer to the on-line help of the Dynamic DNS service providers.