



Share internet about connect

FAQ No.0003

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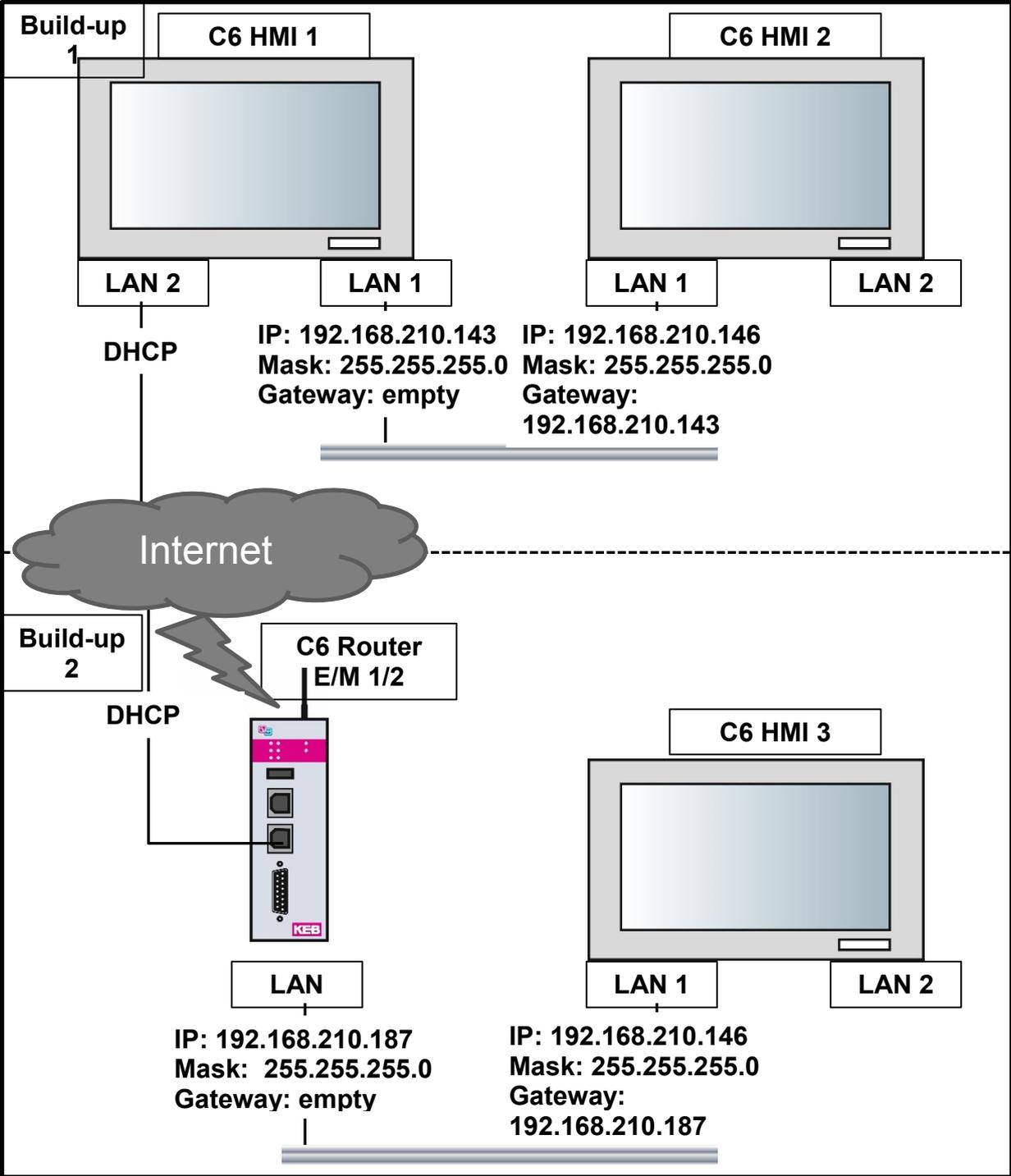
Introduction

This document describes how to use the internet-sharing function of C6 devices (Router and HMIs). The setup of two possible build-ups is shown on the next pages.

Note: It's mandatory for internet sharing to open the Port 80 on the internet side!

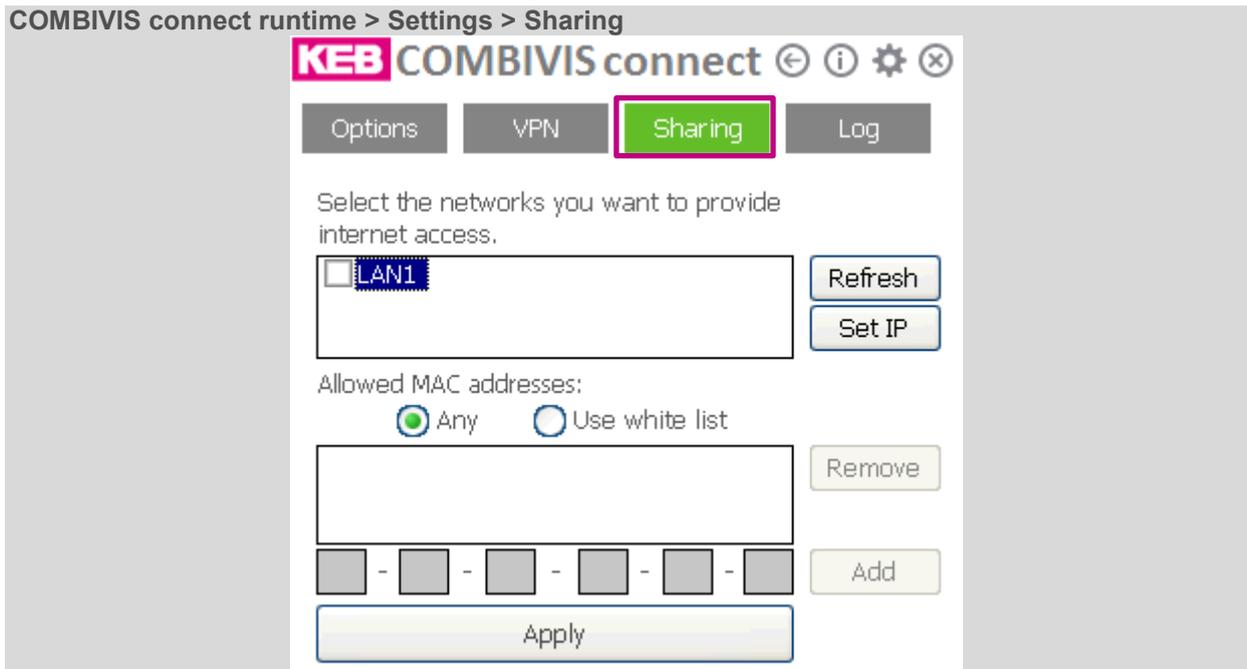
Note: Some settings of the Ethernet are just possible if a device is connected to the Ethernetport!

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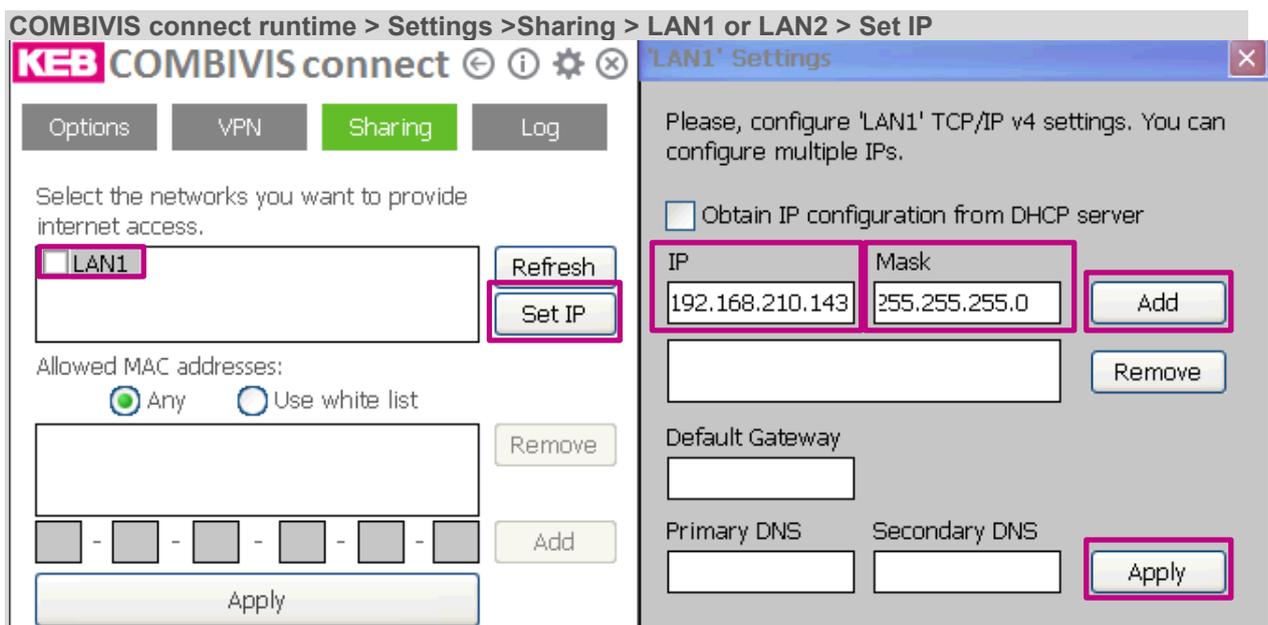


C6 HMI as sharing device

1. Open the COMBIVIS Connect runtime of the C6 HMI 1 and go to the setting “Sharing”



2. Select the Ethernet-adapter, which shall share the internet, and click on “Set IP” to insert the needed settings. Set the IP address as static and to the same area as the second network (e.g. production-network). After applying the settings, a reboot of the device is necessary.

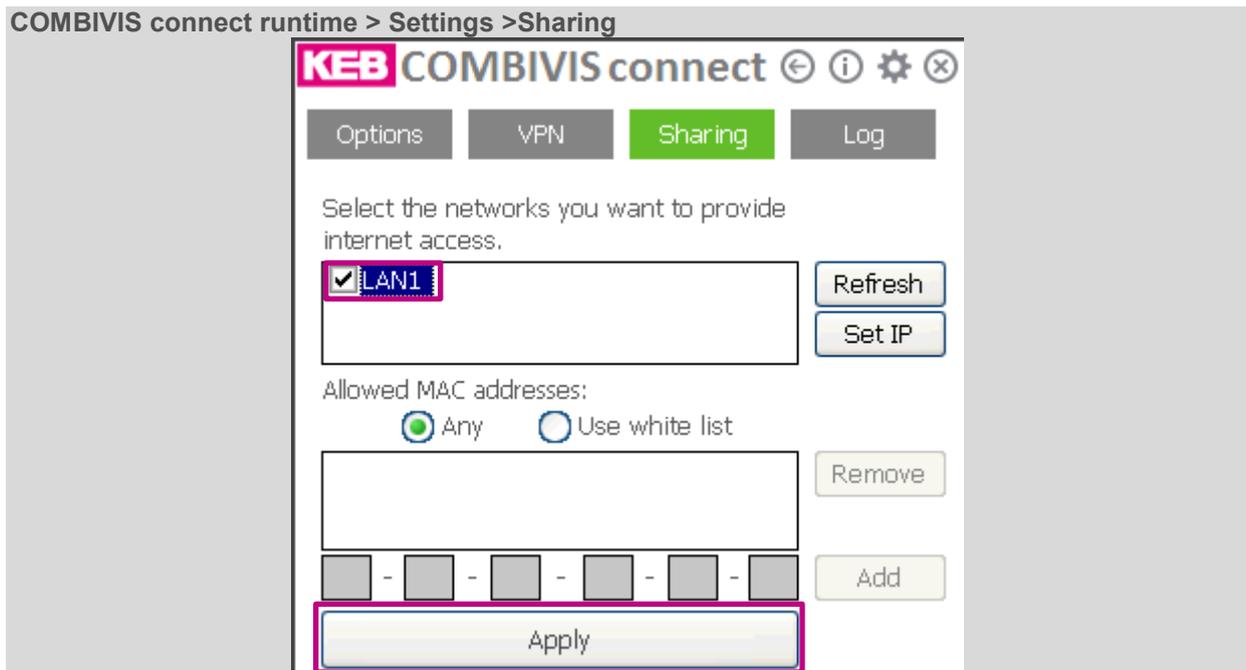


Note: The ports will be displayed if there is no Default-Gateway inserted.

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3. Mark the adapter and apply the sharing-options. It's possible to share the internet just for selected devices. To enable this option set "Use white list" as active and add the MAC-addresses of the devices to the list. All other connected devices will be ignored.



4. Open the Ethernet adapter settings of the C6 HMI 2 and set as described below:
 - a. Insert a static IP address, which lies in the production network area
 - b. Set the Subnet-Mask, which belongs to the IP address
 - c. Set the default gateway as the IP address of the sharing Ethernet adapter of the C6 HMI 1.
 - d. Edit the DNS
(public DNS server are also available, like the google server 8.8.8.8)

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Start > Settings > Network and Dial-up Connection > LAN1 or LAN2

The screenshot shows the Windows XP 'Network and Dial-up Connections' window. The 'LAN1' and 'LAN2' icons are highlighted with red boxes, and red arrows point upwards from below. A red arrow points from the 'Settings' option in the Start menu to the 'Network and Dial-up Connections' folder. Another red arrow points from the 'Network and Dial-up Connections' folder to the 'FEC Ethernet Driver' Settings dialog box.

'FEC Ethernet Driver' Settings

IP Address | Name Servers

An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space provided.

Obtain an IP address via DHCP
 Specify an IP address

IP Address: 192.168.210.146
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.210.143

'FEC Ethernet Driver' Settings

IP Address | Name Servers

Name server addresses may be automatically assigned if DHCP is enabled on this adapter. You can specify additional WINS or DNS resolvers in the space provided.

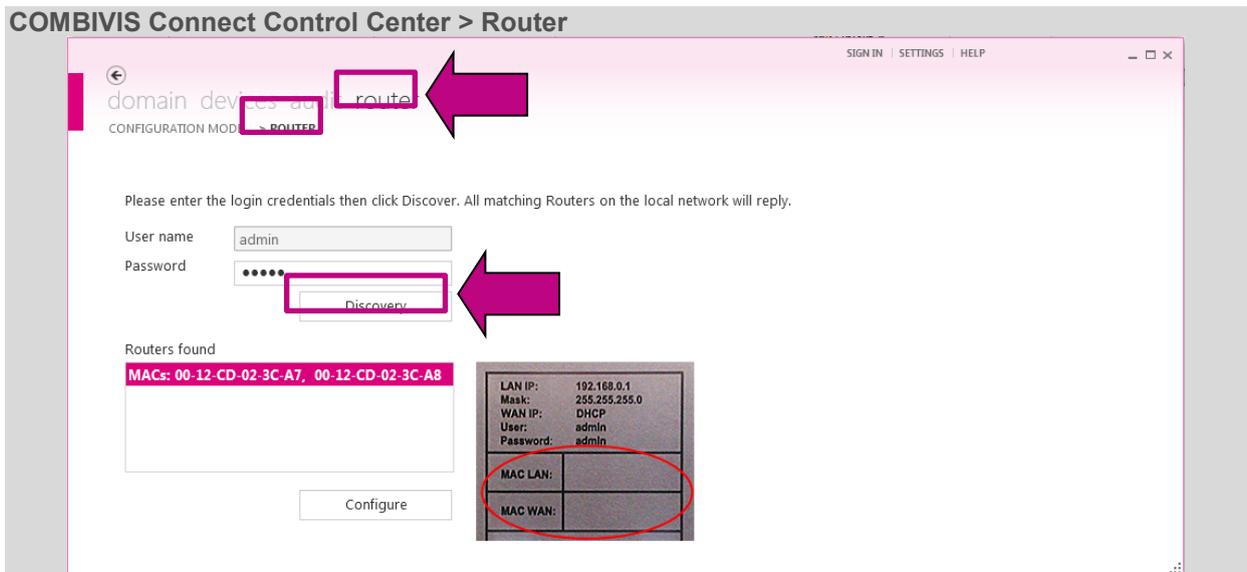
Primary DNS: 8.8.8.8
Secondary DNS: 8.8.8.8
Primary WINS: . . .
Secondary WINS: . . .

5. Now the internet will be shared to the devices.

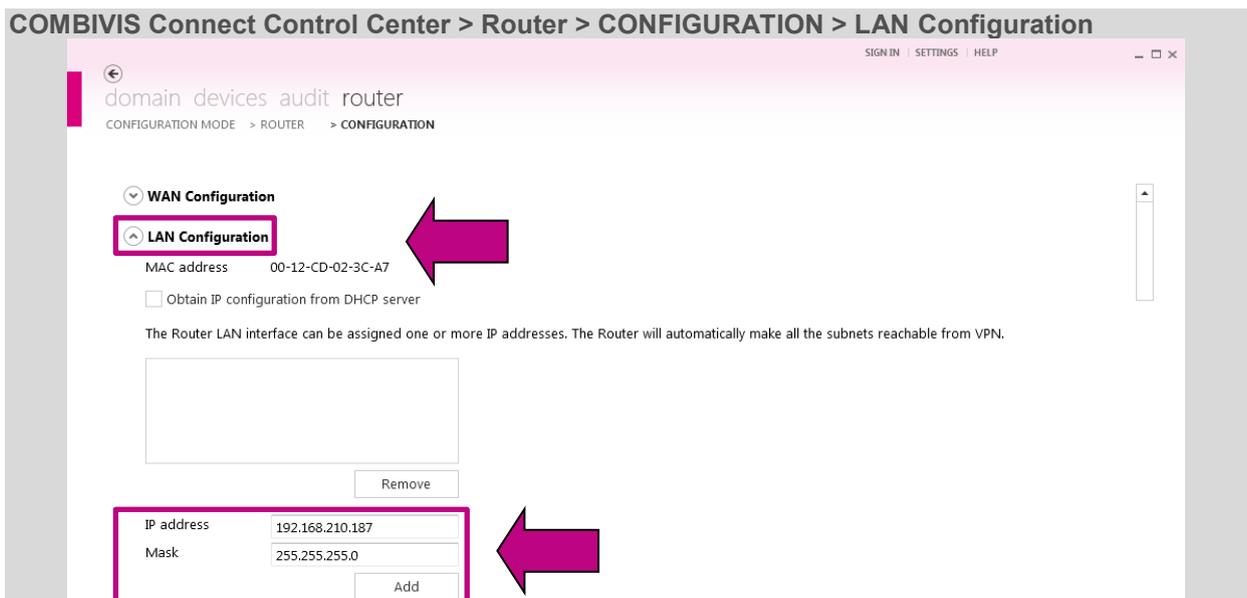
C6 Router as sharing device

1. Connect to the C6 Router (via VPN or direct cable connection to WAN port), scan for the device via COMBIVIS connect Control Center and connect to the device.

Note: The default password and MAC address of the router is printed on the router side.



2. Add a static IP-address to the LAN-Port of the router.

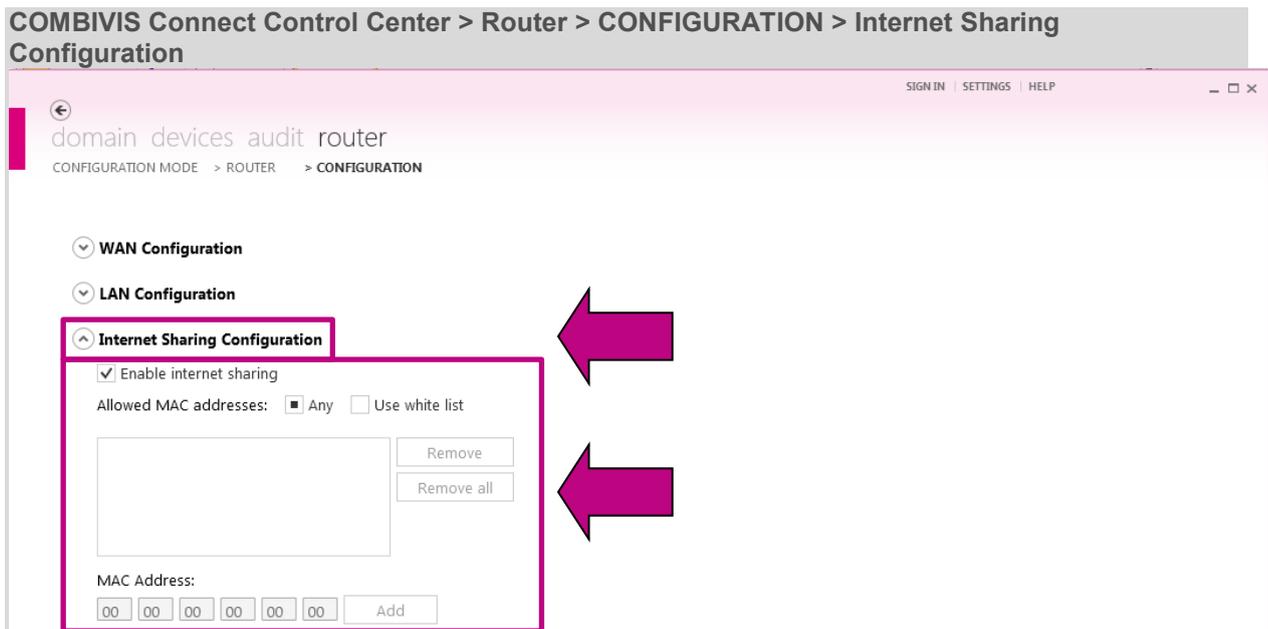


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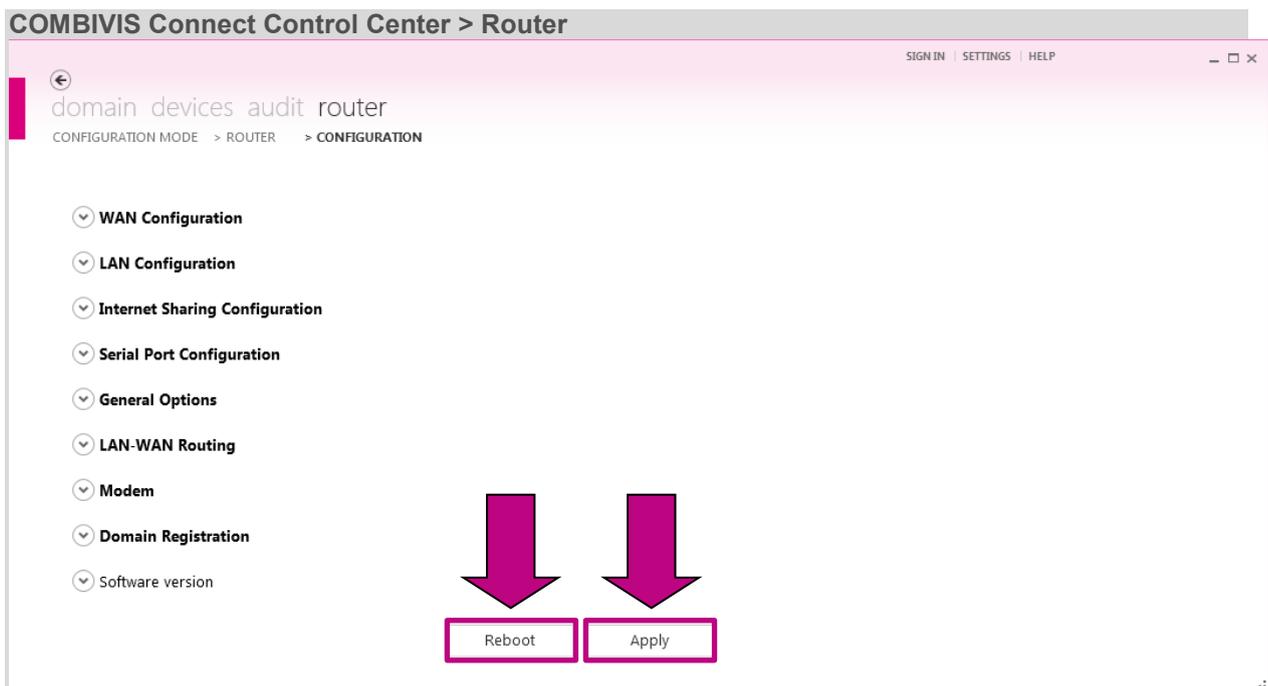


3. Open the “Internet Sharing Configuration” settings and enable it.

Note: It’s possible to allow all connected devices the sharing of the internet or just select some of them via the white list. If you want to make the sharing of the internet just for chosen devices possible, you have to insert the MAC address of these devices.



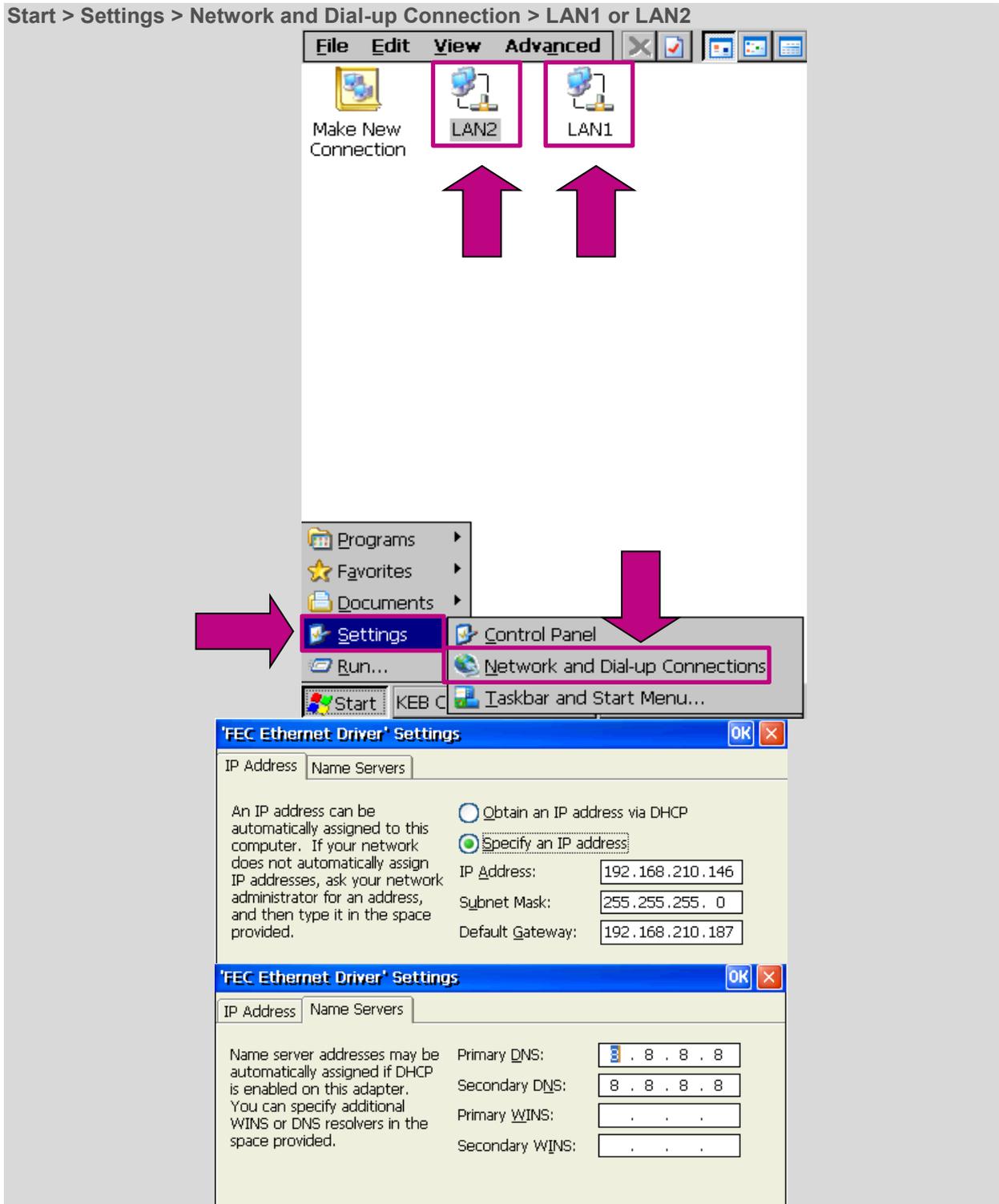
4. Apply the settings and reboot the device.





5. Open the Ethernet adapter settings of the C6 HMI 2 and set as described below:
 - a. Insert a static IP address, which lies in the production network area
 - b. Set the Subnet-Mask, which belongs to the IP address
 - c. Set the default gateway as the IP address of the sharing Ethernet adapter of the C6 Router LAN-Port.
 - d. Edit the DNS
(public DNS server are also available, like the google server 8.8.8.8)

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6. Now the internet will be shared to the devices.



Disclaimer

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KEB Automation KG
Südstraße 38 • D-32683 Barntrup
fon: +49 5263 401-0 • fax: +49 5263 401-116
net: www.keb.de • mail: info@keb.de