FAQ COMBIVIS connect

LAN-WAN Routing with C6 Router   FAQ No.0002

Part	Version	Revision	Date	Status
en	9.0.031	001	2019-01-01	Released

Content
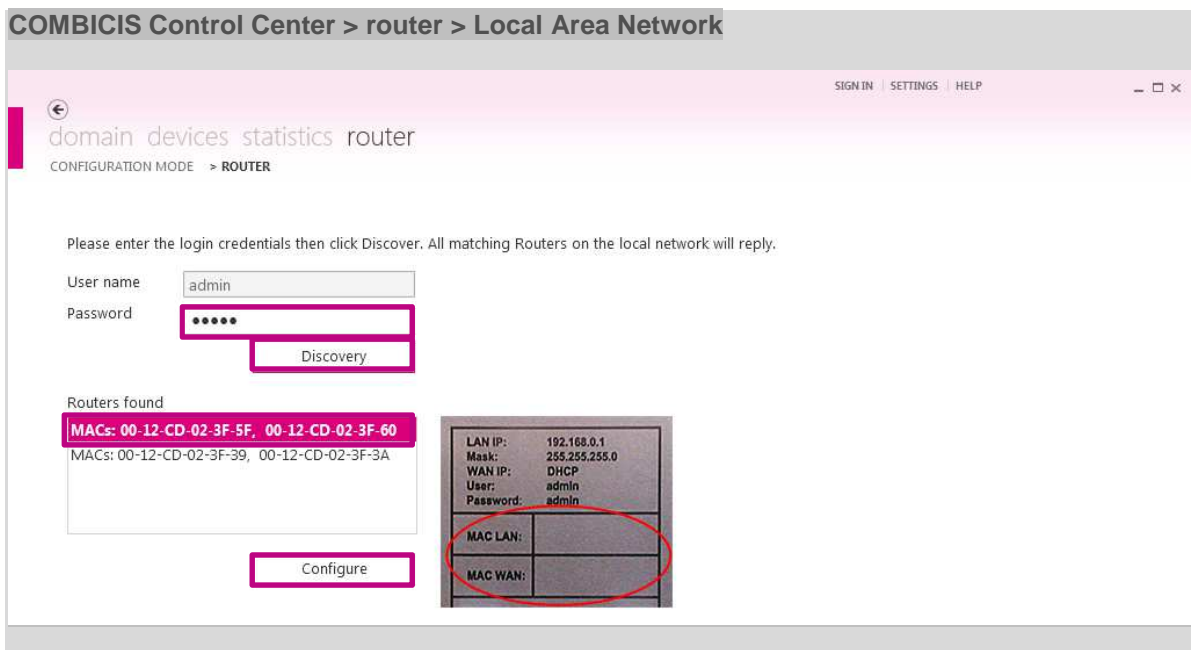
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Introduction

This document contains a description how to setup the LAN-WAN routings with a C6 router.
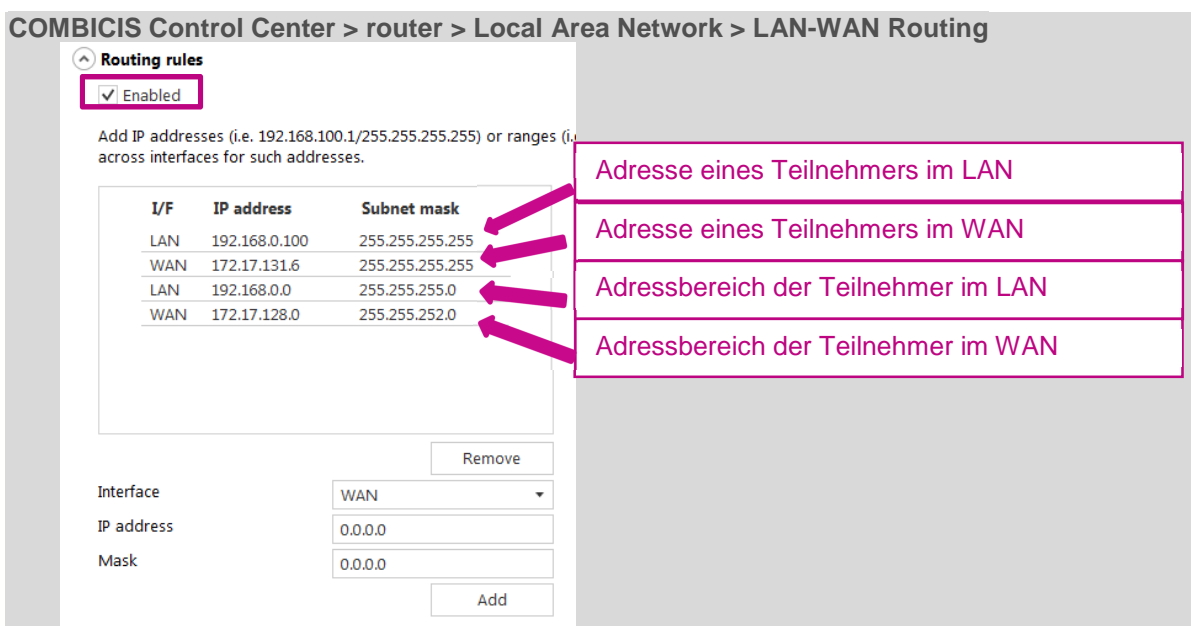The build-up structure is shown below:
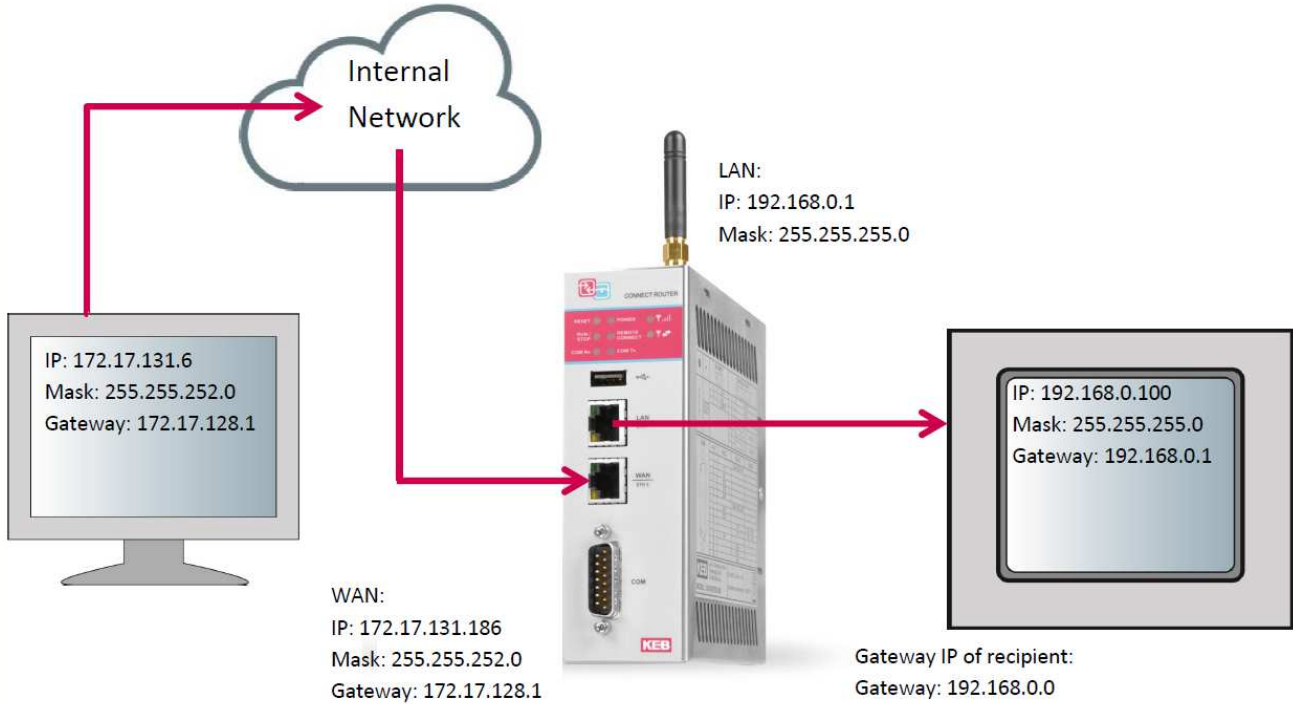
Procedure

1. For changing the settings, you have to search the router by COMBIVIS Connect Control Center. The user name and password are by default "**admin**". If you press the button "**Discovery**", the actual PC-network will be scanned and found routers with Mac address will be displayed.

COMBICIS Control Center > router > Local Area Network

2. After connecting to the device, you can create the routing table at the option "**LAN-WAN Routing**". It´s possible to add the IP-addresses of the WAN-LAN devices or the whole address-area.

COMBICIS Control Center > router > Local Area Network > LAN-WAN Routing

I/F	IP address	Subnet mask
LAN	192.168.0.100	255.255.255.255
WAN	172.17.131.6	255.255.255.255
LAN	192.168.0.0	255.255.255.0
WAN	172.17.128.0	255.255.252.0

Adresse eines Teilnehmers im LAN

Adresse eines Teilnehmers im WAN

Adressbereich der Teilnehmer im LAN

Adressbereich der Teilnehmer im WAN

3. The WAN-address of the router is used as the gateway and should be set to static. If the address should be set dynamically, you have to change the LAN-Routing on your PC on every IP-change of the LAN-port.

COMBICIS Control Center > router > Local Area Network > WAN Configuration

⌃ **WAN Configuration**

MAC address	00-12-CD-02-3F-60
☐ Obtain IP configuration from DHCP server	
IP address	172.17.129.186
Mask	255.255.252.0
Gateway	172.17.128.1
DNS 1	172.18.4.3
DNS 2	172.18.4.4

4. Now the routing table on the PC will be created with the windows prompt (Start > Run). The syntax is route add <Gateway IP of recipient> mask <Subnetmask of recipient> <IP address of the WAN port>

Start > Run

```
C:\WINDOWS\system32>route add 192.168.0.0 mask 255.255.255.0 172.17.129.186
OK!
```

Hint: The program has to be started as administrator!

5. Proof the route of the PC with the command **route print**. Every route, which is stored at the PC, will be displayed.

Start > Run

```
C:\WINDOWS\system32>route print
===========================================================================
Schnittstellenliste
 23...00 ff c2 77 3f 00 ......Ubiquity Ethernet Adapter
 18...00 ff 10 ed 26 38 ......TAP-Windows Adapter V9
 15...28 16 ad e6 23 72 ......Bluetooth-Gerät (PAN)
 11...d4 81 d7 cd 3b 29 ......Intel(R) Ethernet Connection (2) I219-LM
  1...........................Software Loopback Interface 1
 12...00 00 00 00 00 00 00 e0 Microsoft-ISATAP-Adapter
 17...00 00 00 00 00 00 00 e0 Teredo Tunneling Pseudo-Interface
===========================================================================

IPv4-Routentabelle
===========================================================================
Aktive Routen:
      Netzwerkziel         Netzwerkmaske         Gateway       Schnittstelle Metrik
         0.0.0.0             0.0.0.0        172.17.128.1     172.17.131.6     10
       127.0.0.0           255.0.0.0      Auf Verbindung       127.0.0.1    306
       127.0.0.1     255.255.255.255      Auf Verbindung       127.0.0.1    306
 127.255.255.255     255.255.255.255      Auf Verbindung       127.0.0.1    306
    172.17.128.0       255.255.252.0      Auf Verbindung    172.17.131.6    266
    172.17.131.6     255.255.255.255      Auf Verbindung    172.17.131.6    266
     192.168.0.0       255.255.255.0      172.17.129.186    172.17.131.6     11
       224.0.0.0           240.0.0.0      Auf Verbindung    172.17.131.6    266
 255.255.255.255     255.255.255.255      Auf Verbindung       127.0.0.1    306
 255.255.255.255     255.255.255.255      Auf Verbindung    172.17.131.6    266
===========================================================================
```

6. Transfer the settings from the layout to the HMI LAN port in the production network.
   Hint: It's necessary that the gateway of the LAN port of the C6 HMI contain the IP address of the LAN port of the C6 Router.

7. Now the production network is reachable. Check this with the command
   ping <IP address of a device in the subnet>.

Start > Run

```
C:\WINDOWS\system32>ping 192.168.210.102

Ping wird ausgeführt für 192.168.210.102 mit 32 Bytes Daten:
Antwort von 192.168.210.102: Bytes=32 Zeit=5ms TTL=63
Antwort von 192.168.210.102: Bytes=32 Zeit=3ms TTL=63
Antwort von 192.168.210.102: Bytes=32 Zeit=3ms TTL=63
Antwort von 192.168.210.102: Bytes=32 Zeit=3ms TTL=63
```

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