

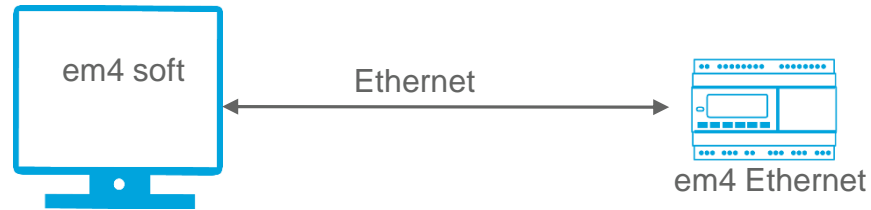
EM4 ETHERNET TUTORIAL

REMOTE CONNECTION

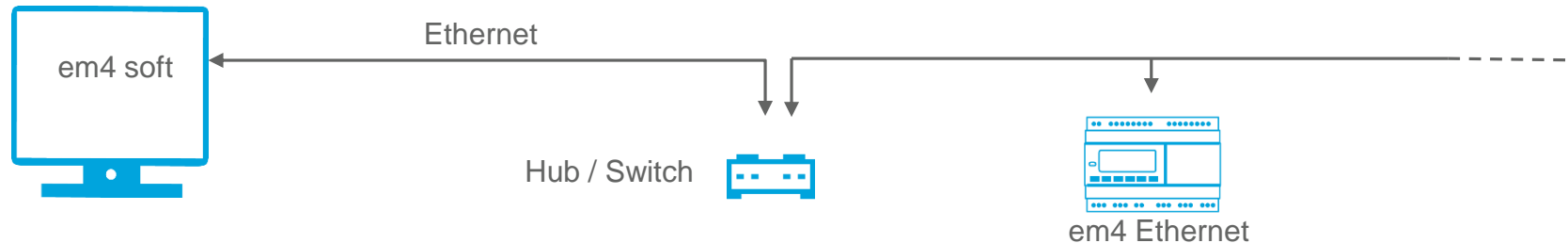


3 possibilities to connect em4soft with em4 Ethernet

- Direct connection: em4 point to point with PC



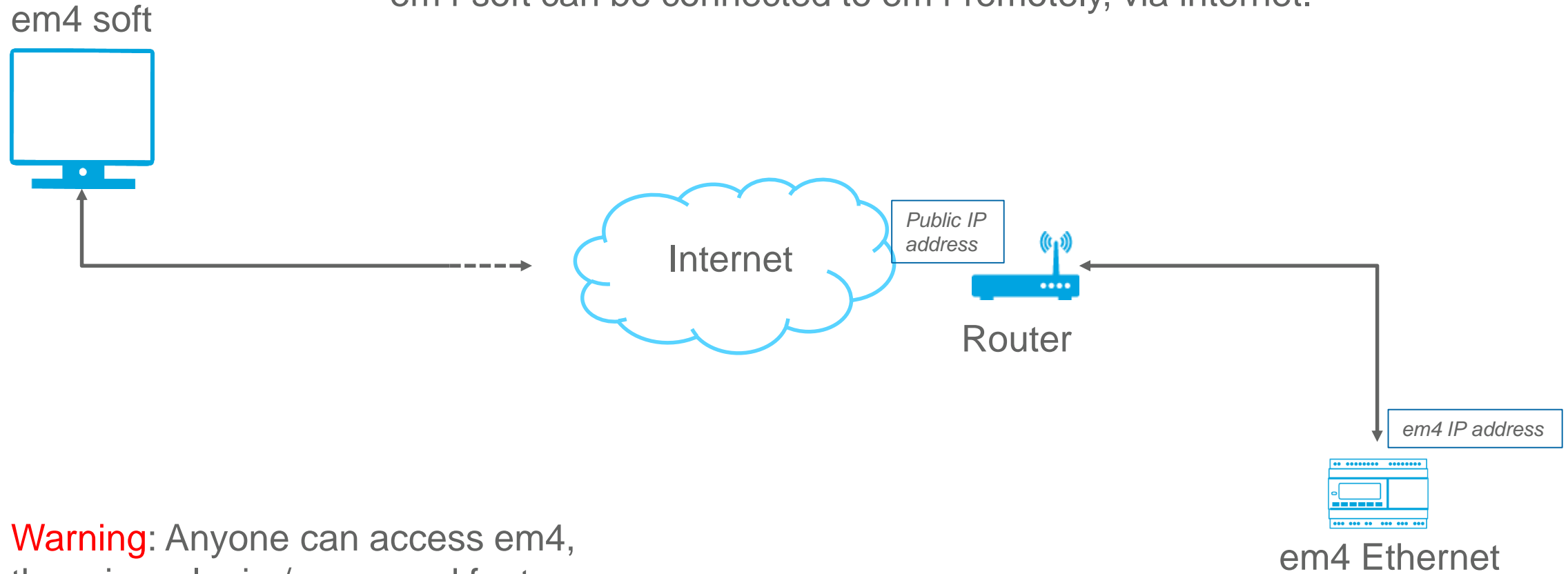
- LAN connection: em4 inside a local network



- WAN connection: connection via internet detailed in next pages

WAN connection (connect to em4 via internet)

em4 soft can be connected to em4 remotely, via internet.



Warning: Anyone can access em4, there is no login / password feature.

- Setup and prerequisite
 - An em4 Ethernet connected to a router (with internet access)
 - The public IP address of the router must be known (you can request a static public IP address from your provider or use a dynamic DNS service)
 - The em4’s local IP address must be known (use static IP for example)
 - Router setup:
 - NAT/PAT settings: Create 2 rules to open / redirect 2 ports to em4 IP address

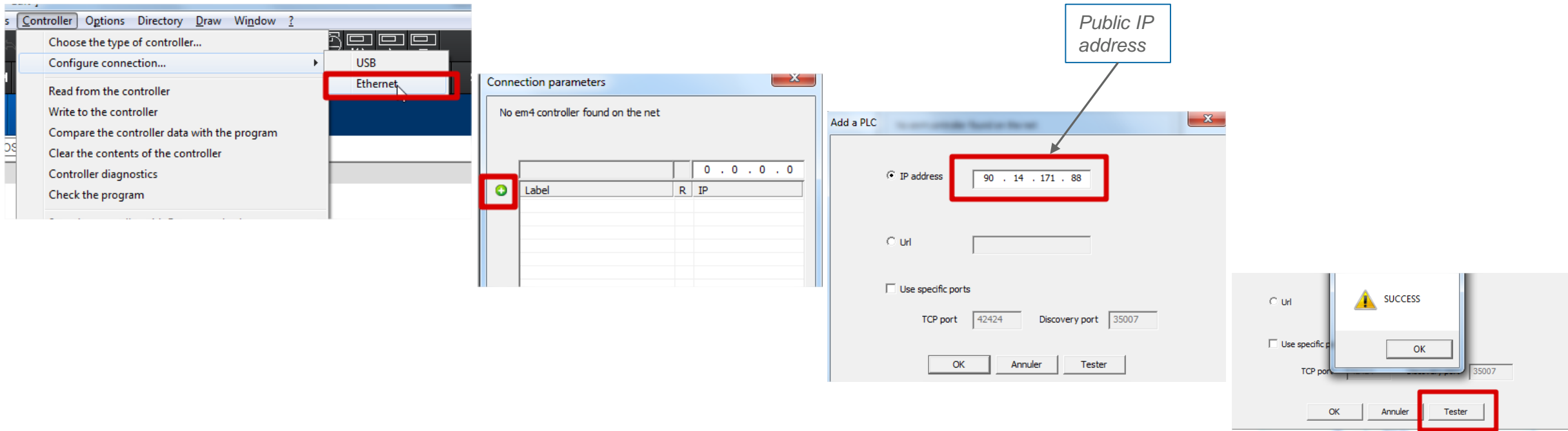
customize rules						
application / service	internal port	external port	protocol	device	activate	
Support_em4Soft	42424	42424	TCP	192.168.1.170	<input checked="" type="checkbox"/>	<button>delete</button>
Support_em4Discovery	35007	35007	UDP	192.168.1.170	<input checked="" type="checkbox"/>	<button>delete</button>

What is NAT/PAT ?
 Some applications require to open specific ports to ensure correct function.
 To allow communication between your device and the distant server or client you must enter a NAT rule specifying the type of application, internal (local network) and external (Internet) ports, protocols and device receiving information.

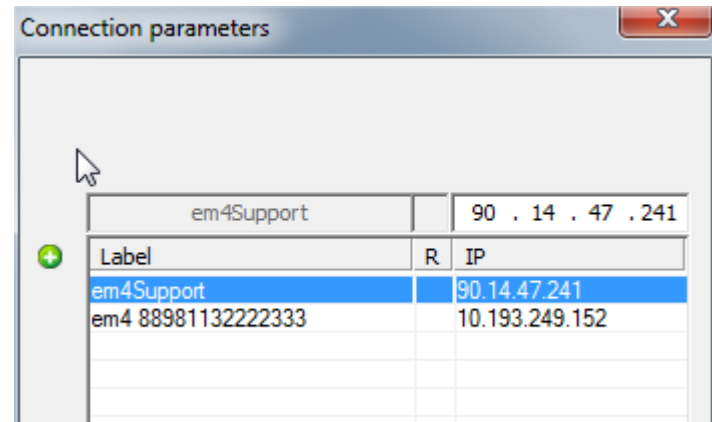
- Computer with em4 soft connected to the Internet

em4 IP address

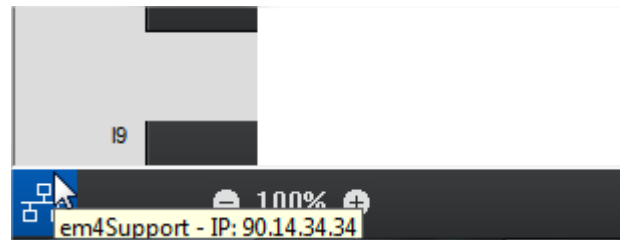
- em4 soft setup
 - Set connection parameters to add the **public IP address** of the **router**



- Select the em4 and click OK

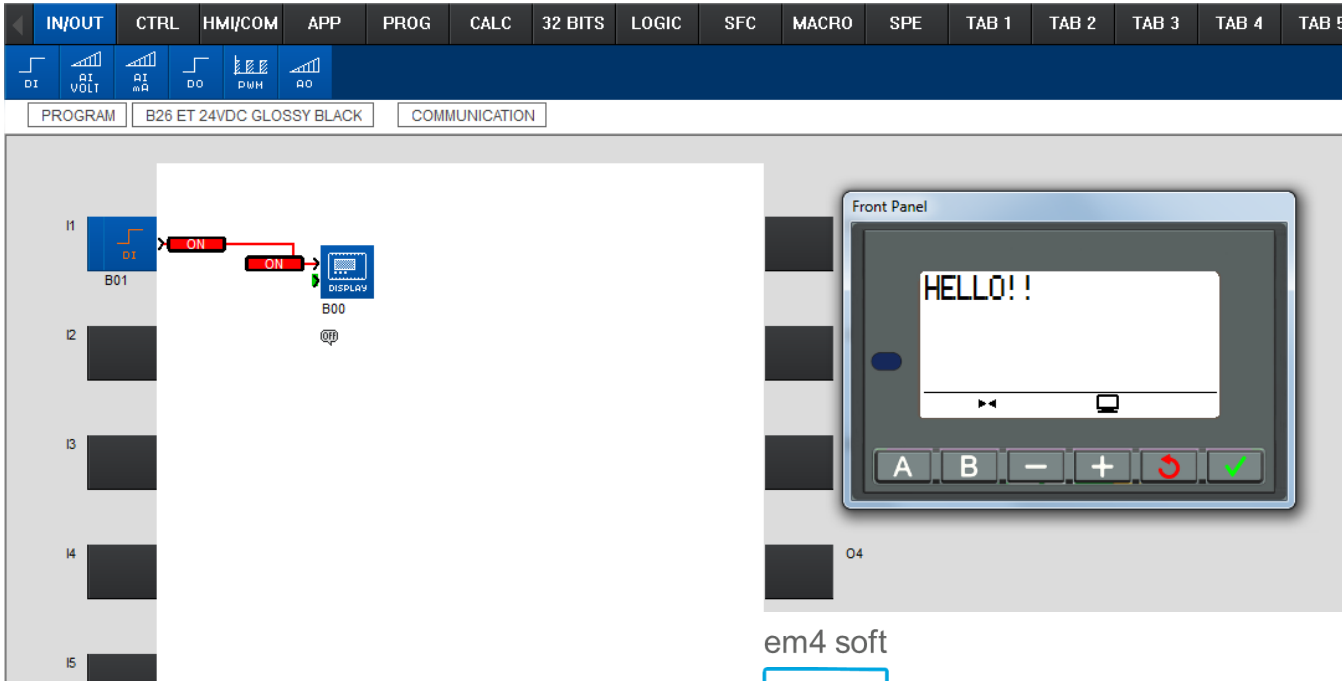


- Connection to the product is ready



Having established connection to em4 it is now possible to

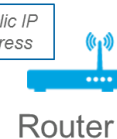
- Start / Stop the controller
- Read / Write / Clear application
- Enter Debugging mode
- Controller diagnostics
- Read / Write time and date
- Update firmware
- Remote control the front panel



em4 soft



Public IP address



Router

em4 IP address



em4 Ethernet

**THANK YOU
FOR YOUR ATTENTION**

WWW.CROUZET-AUTOMATION.COM