

eWON

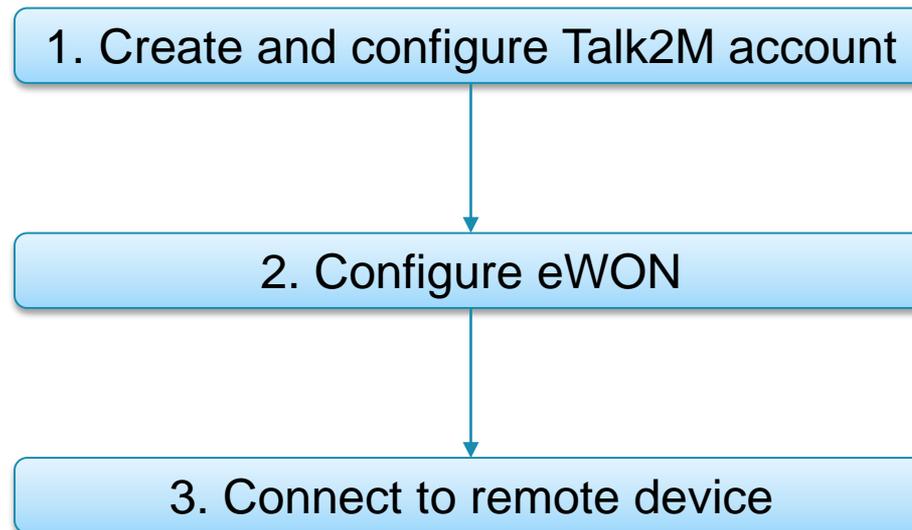
# Overview

- eWON COSY setup
- Firewall options
- User management

# Technology Overview

- OpenVPN cloud
- Firewall rules configurable in cloud
- User management in cloud

# eWON COSY setup



# eWON COSY setup

## 1. Create and configure Talk2M account

- Download and install eCatcher

 [support.ewon.biz/software](https://support.ewon.biz/software)

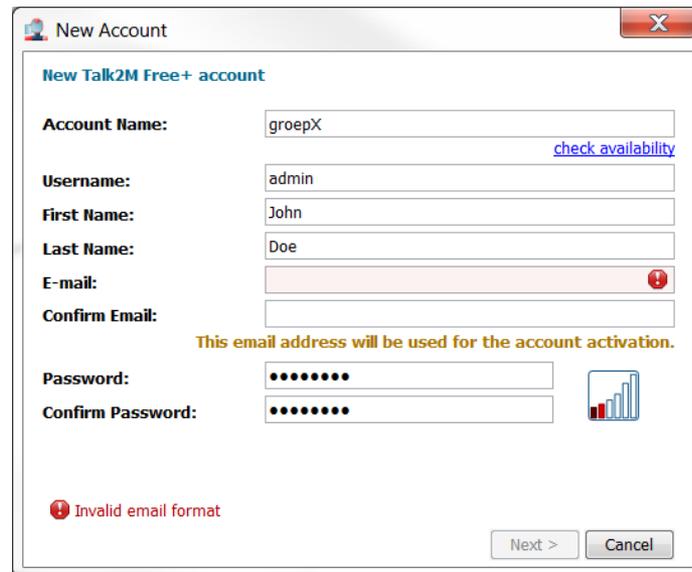
### eWON Software

 eBuddy, the eWON software companion helps you to find, assign an IP address, upgrade your firmware, backup and restore eWON.	<a href="#">eBuddy Setup</a> 	8.0.1.60 <a href="#">releases notes</a> 
 eVCOM: eWON Virtual Com Port	<a href="#">eVCOM Setup</a> 	1.3.1.34 <a href="#">releases notes</a> 
 eCatcher: your Talk2M connector. Services Free+ and Pro	<a href="#">eCatcher Setup</a> 	5.0.2.17663 <a href="#">releases notes</a> 
Check if your network allows Talk2M connections.	<a href="#">Talk2MConnectionChecker</a>	
 viewON	<a href="#">viewON setup</a> 	3.0.1.15694 <a href="#">releases notes</a> 
 eGrabit	<a href="#">eGrabit setup</a> 	3.1.0 <a href="#">release notes</a> 
SNMP: eWON MIB file	<a href="#">actl_mib.mib</a> 	

# eWON COSY setup

## 1. Create and configure Talk2M account

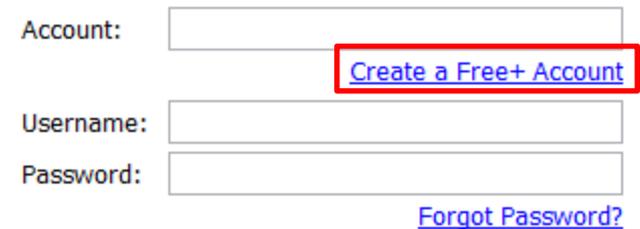
- Create a new account by clicking “Create a Free+ Account”



The screenshot shows a 'New Account' dialog box with the following fields and options:

- Account Name:** groepX (with a [check availability](#) link)
- Username:** admin
- First Name:** John
- Last Name:** Doe
- E-mail:** (empty field with a red error icon and 'Invalid email format' message)
- Confirm Email:** (empty field)
- Password:** (masked with dots)
- Confirm Password:** (masked with dots)

Additional text in the dialog includes: "This email address will be used for the account activation." and buttons for "Next >" and "Cancel".



The screenshot shows a web form with the following fields and options:

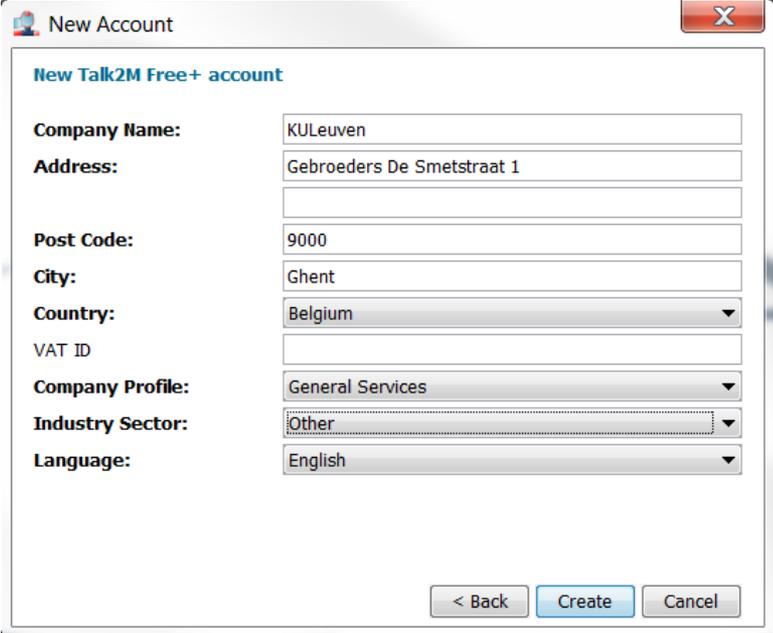
- Account:** (empty field)
- Username:** (empty field)
- Password:** (empty field)

Additional text includes: "Create a Free+ Account" (highlighted with a red box), and a [Forgot Password?](#) link.

- Use the email address **TBD**

# eWON COSY setup

## 1. Create and configure Talk2M account



The screenshot shows a 'New Account' dialog box with the following fields and values:

Field	Value
Company Name:	KULeuven
Address:	Gebroeders De Smetstraat 1
Post Code:	9000
City:	Ghent
Country:	Belgium
VAT ID	
Company Profile:	General Services
Industry Sector:	Other
Language:	English

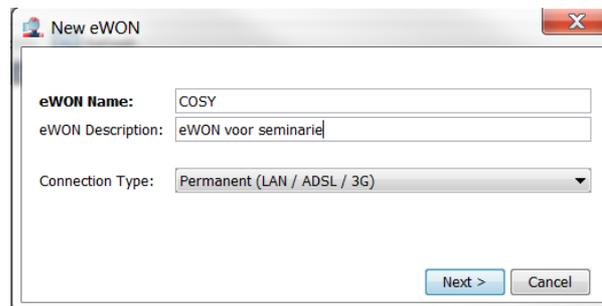
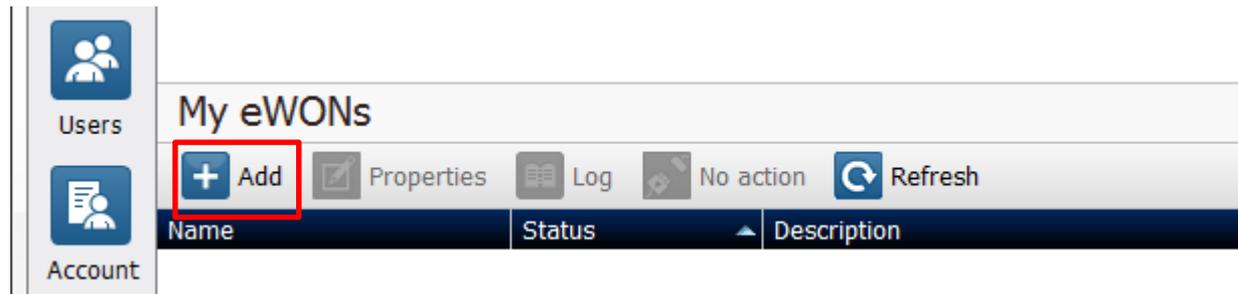
At the bottom of the dialog box, there are three buttons: '< Back', 'Create', and 'Cancel'.

- Confirm with “Create”
- Activate the account by clicking the URL sent in the confirmation email

# eWON COSY setup

## 1. Create and configure Talk2M account

- Log in eCatcher and add your eWON by clicking the “Add” button



The 'New eWON' dialog box is shown with the following fields:

- eWON Name: COSY
- eWON Description: eWON voor seminarie
- Connection Type: Permanent (LAN / ADSL / 3G)

The 'Next >' button is highlighted.

- Confirm with “Next >” > “Create”

# eWON COSY setup

## 1. Create and configure Talk2M account

- Copy the Activation Key to your clipboard

Select your preferred method to configure your eWON:

### SMS



Send an SMS to the eWON with its activation key.  
It will trigger the remote auto-configuration.

Send SMS to eWON

### Activation Key

Every eWON is assigned an Activation Key during its creation in Talk2M.  
This key cannot be changed.



Activation Key:

Copy to Clipboard

### eWON Name



eWON Name:

Copy to Clipboard

- This key will be used during the configuration of the eWON
- Close the eCatcher application

# eWON COSY setup

## 2. Configure eWON

- Download and install eBuddy

 [support.ewon.biz/software](https://support.ewon.biz/software)

### eWON Software

	eBuddy, the eWON software companion helps you to find, assign an IP address, upgrade your firmware, backup and restore eWON.	<a href="#">eBuddy Setup</a> 	8.0.1.60 <a href="#">releases notes</a> 
	eVCOM: eWON Virtual Com Port	<a href="#">eVCOM Setup</a> 	1.3.1.34 <a href="#">releases notes</a> 
	eCatcher: your Talk2M connector. Services Free+ and Pro	<a href="#">eCatcher Setup</a> 	5.0.2.17663 <a href="#">releases notes</a> 
	Check if your network allows Talk2M connections.	<a href="#">Talk2MConnectionChecker</a>	
	viewON	<a href="#">viewON setup</a> 	3.0.1.15694 <a href="#">releases notes</a> 
	eGrabit	<a href="#">eGrabit setup</a> 	3.1.0 <a href="#">release notes</a> 
	SNMP: eWON MIB file	<a href="#">act1_mib.mib</a> 	

# eWON COSY setup

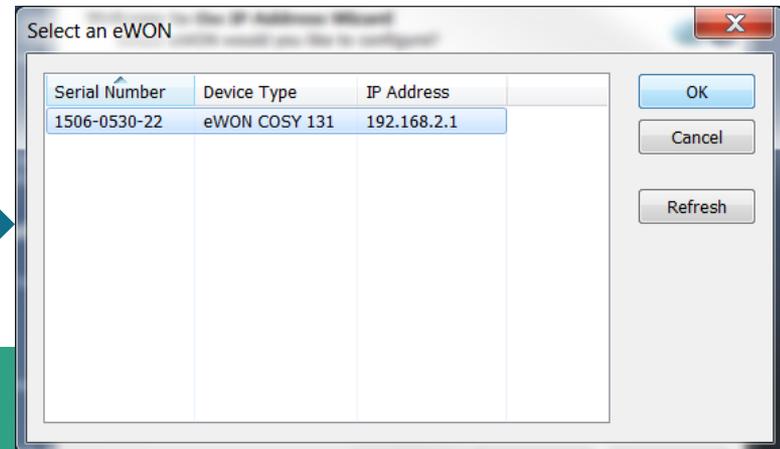
## 2. Configure eWON

- Connect an Ethernet cable from your computer to the eWON's LAN port 1



- Launch eBuddy and select “Set IP address”
- Click “Browse...” and choose the eWON COSY 131 in the following dialog

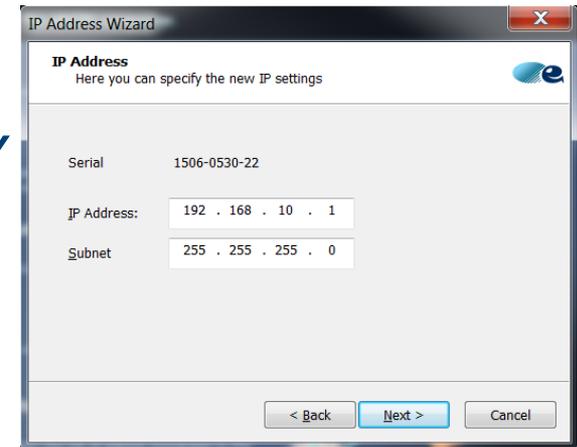
Serial



# eWON COSY setup

## 2. Configure eWON

- Click “Next >”
- Set the IP address of the eWON COSY
  - IP Address: 192.168.10.1
  - Subnet: 255.255.255.0
- Confirm with “Next >”



# eWON COSY setup

## 2. Configure eWON

- Open Control Panel “Start” > “Control Panel”

A rectangular button with a dark grey background and a thin border, containing the text "Control Panel" in a light grey font.

- Open “Network and Sharing Center”

Adjust your computer's settings

View by: Small icons ▾



# eWON COSY setup

## 2. Configure eWON

- Select “Change adapter settings”

Control Panel Home

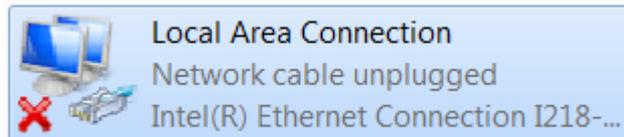
Manage wireless networks

[Change adapter settings](#)

Change advanced sharing settings

- Open the Local Area Connection Properties

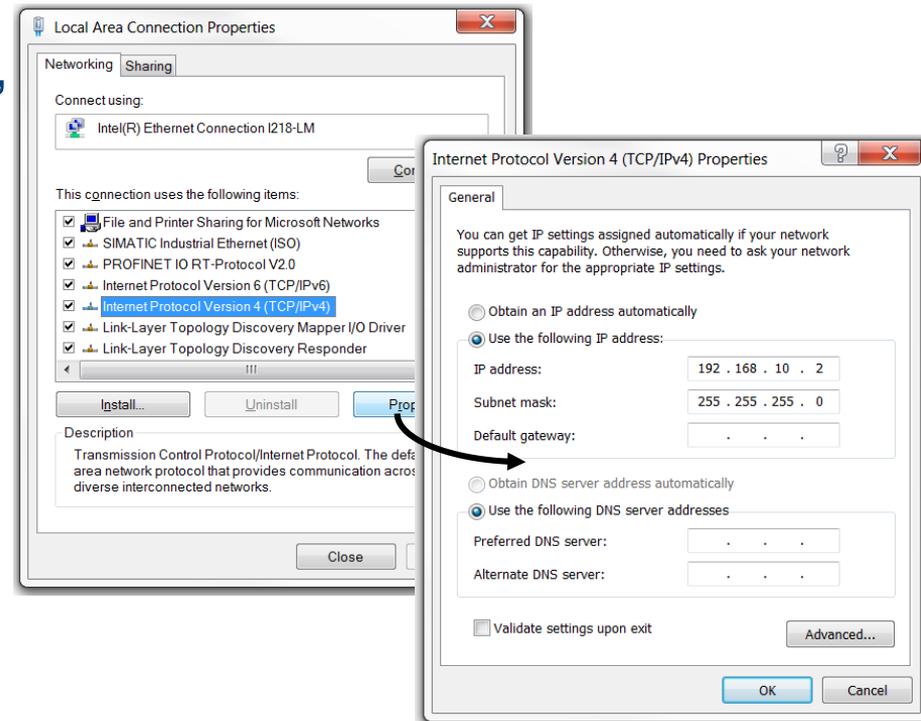
Doubleclick “Local Area Connection”, then click “Properties”



# eWON COSY setup

## 2. Configure eWON

- Click the “Properties” button
- Select “Use the following IP”
- Enter the following values
  - IP Address: 192.168.10.2
  - Subnet: 255.255.255.0
- Close the dialogs with “Ok” and close Control Panel



# eWON COSY setup

## 2. Configure eWON

- Launch the web browser and enter the address “http://192.168.10.1”



- Click the “Settings” button
- The default username & password are both “adm”

# eWON COSY setup

## 2. Configure eWON

- Run the “Quick Launch Wizard”

Quick Launch Wizard.



This wizard will drive you through the eWON configuration steps:

- 1- System
- 2- Internet
- 3- Talk2M

You can also run the configuration steps separately by using the above menus.

# eWON COSY setup

## 2. Configure eWON

- Go through the System wizard

### User Setup

**Erase all first:**  All configuration parameters will be reset.

eWON name:   
Will help you to identify eWON

User name:   
The user name is not editable

Password:

Retype-Password:



### Date and time

Date:  dd/mm/yyyy

Time:



### LAN/WAN Configuration



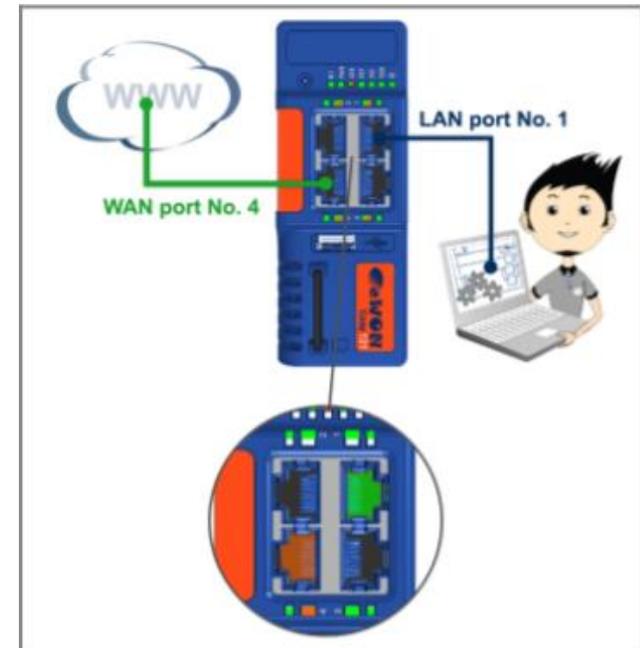
Click on switch ports to select ports attributions to LAN (default) or WAN.

WAN port are used for internet connection  
LAN port are used for local access

# eWON COSY setup

## 2. Configure eWON

- Plug the internet cable into the WAN port  
The WAN port can be distinguished by the red led beneath the ethernet port



# eWON COSY setup

## 2. Configure eWON

- Complete the Internet wizard

**Internet connection**

Initialize configuration This will also erase the Talk2M configuration.

Interface:

---

**Connectivity conditions**

Physical protection:

Connection trigger:

**Ethernet WAN connection**

Address Setup   DNS via DHCP

---

**HTTP Proxy**

Connect to Talk2M through Proxy  
Do you connect to Talk2M through an HTTP Proxy?

**Internet connection is ready for test and configuration**

Click Next to start the **Internet connection test**.

Test online address.  
If this checkbox is selected, eWON will perform an online IP check.  
If you have configured a connection through proxy or on an intranet, do not select this test.

Current operation

Finished	4
----------	---

Results

- Internet connection
- Online IP Check

Diagnosis

SUCCESS: Internet connection tested

# eWON COSY setup

## 2. Configure eWON

- Start the Talk2M wizard
- Select “Register with ACTIVATION KEY”

Select your preferred method for registering the eWON on [Talk2M.com](http://Talk2M.com)?



### Register with eWON NAME

Use the eWON Talk2m name and your Talk2m login and password. The eWON must first be defined in Talk2M.



### Register with ACTIVATION KEY

Use the eWON 'Activation Key' provided by talk2M.com. The eWON must first be defined in Talk2M.

**Important:** [Your eWON must have a working Internet Connection](#)

Before using the wizard, the eWON Internet access must be correctly configured.

# eWON COSY setup

## 2. Configure eWON

- Fill in the activation key received on eCatcher

Select your preferred method for registering the eWON on [Talk2M.com](http://Talk2M.com)?

 **Register with eWON NAME**  
Use the eWON Talk2m name and your Talk2m login and password.  
The eWON must first be defined in Talk2M.

 **Register with ACTIVATION KEY**  
Use the eWON 'Activation Key' provided by talk2M.com.  
The eWON must first be defined in Talk2M.

Activation Key:

**Important:** Your eWON must have a working Internet Connection  
Before using the wizard, the eWON Internet access must be correctly configured.

# eWON COSY setup

## 2. Configure eWON

- Complete the Talk2M wizard

### Connect via HTTP proxy

Enable this option only if you are connected to Internet via proxy (ask your network administrator if not sure)

### Force to TCP

In rare cases where Talk2M connection is known to fail in UDP in spite of detection test working, enable this option to force connection to TCP (in case of doubt, leave unchecked).



Current operation

**Finished** 5

Results

- ✓ WAN connection
- ✓ UDP connection
- ✓ HTTP direct connection
- ⚠ HTTP Proxy connection
- ✓ Read Talk2M config
- ✓ Test VPN connection

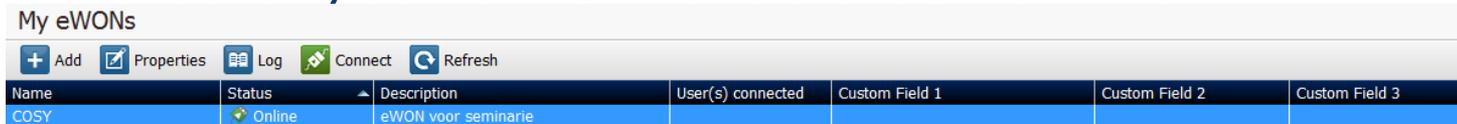
Operation skipped  
The device serial number was already defined in Talk2M. Previous instance was disabled.

- Finish the wizards with “All done”
- Unplug the Ethernet cable between the eWON and your computer

# eWON COSY setup

## 3. Connect to remote device

- Open the eCatcher application and log in
- The status of your eWON should be “Online”



My eWONs

+ Add Properties Log Connect Refresh

Name	Status	Description	User(s) connected	Custom Field 1	Custom Field 2	Custom Field 3
COSY	Online	eWON voor seminarie				

- Highlight your eWON and click the “Connect” button



Talk2M e COSY 10.210.158.28 (LAN:192.168.10.1) eWON voor seminarie Disconnect

LAN: 192.168.10.1/24 All devices on the network are reachable by connected users.

My eWONs

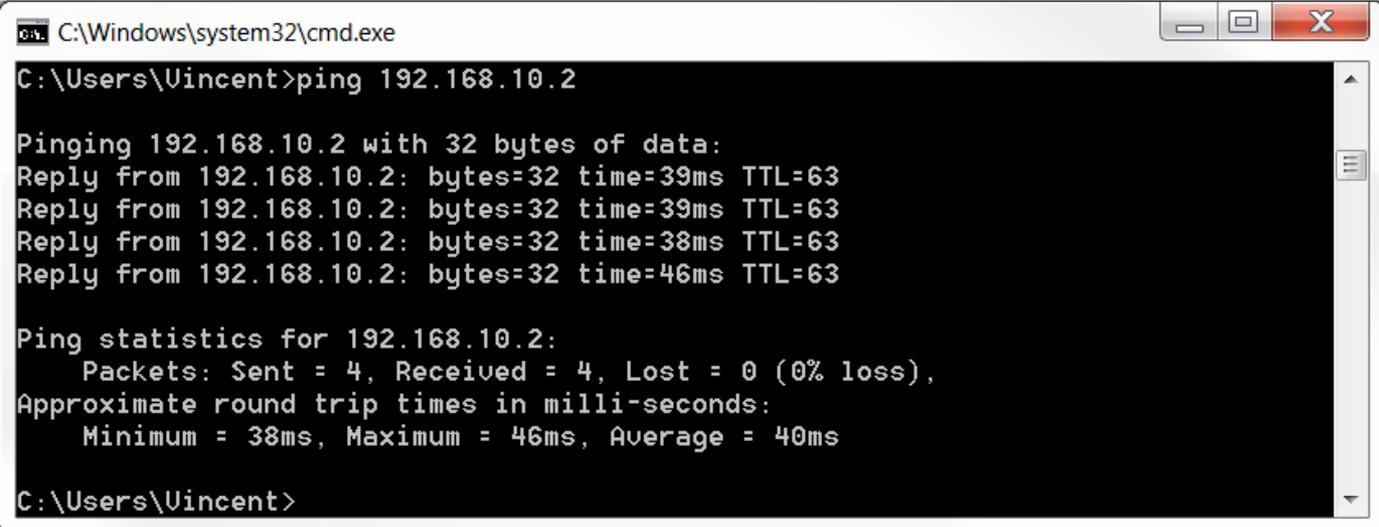
+ Add Properties Log Disconnect Refresh

Name	Status	Description	User(s) connected	Custom Field 1	Custom Field 2	Custom Field 3
COSY	Connected	eWON voor seminarie	admin			

# eWON COSY setup

## 3. Connect to remote device

- You can now ping a device behind the eWON COSY
- Open the command prompt on “Start” > ”All programs” >”Accessories” > ”Command Prompt”
- Enter the ping command to the remote device  
“ping 192.168.10.2”



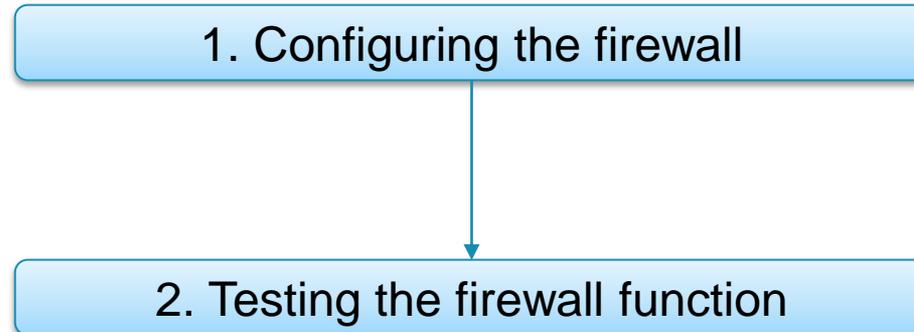
```
C:\Windows\system32\cmd.exe
C:\Users\Uincent>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:
Reply from 192.168.10.2: bytes=32 time=39ms TTL=63
Reply from 192.168.10.2: bytes=32 time=39ms TTL=63
Reply from 192.168.10.2: bytes=32 time=38ms TTL=63
Reply from 192.168.10.2: bytes=32 time=46ms TTL=63

Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 38ms, Maximum = 46ms, Average = 40ms

C:\Users\Uincent>
```

# Firewall Options



# Firewall Options

## 1. Configuring the firewall

- In eCatcher, highlight your eWON and click the “Properties” button



Talk2M COSY 10.210.158.28 (LAN:192.168.10.1) eWON voor seminarie Disconnect

LAN: 192.168.10.1/24 All devices on the network are reachable by connected users.

My eWONs

+ Add Properties Log Disconnect Refresh

Name	Status	Description	User(s) connected	Custom Field 1	Custom Field 2	Custom Field 3
COSY	Connected	eWON voor seminarie	admin			

- In the “LAN & Firewall” section, click the “Configure LAN Devices & Firewall...” button

### LAN & Firewall

eWON LAN: 192.168.10.1/255.255.255.0

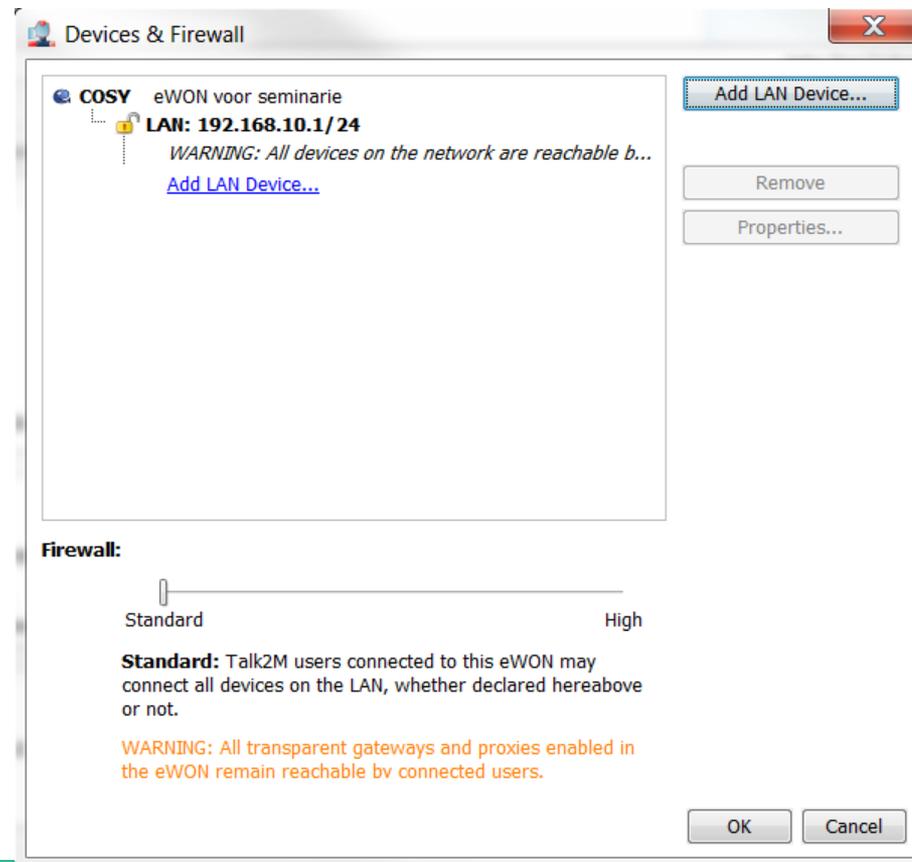
Configure LAN Devices & Firewall...

Modify LAN Subnet...

# Firewall Options

## 1. Configuring the firewall

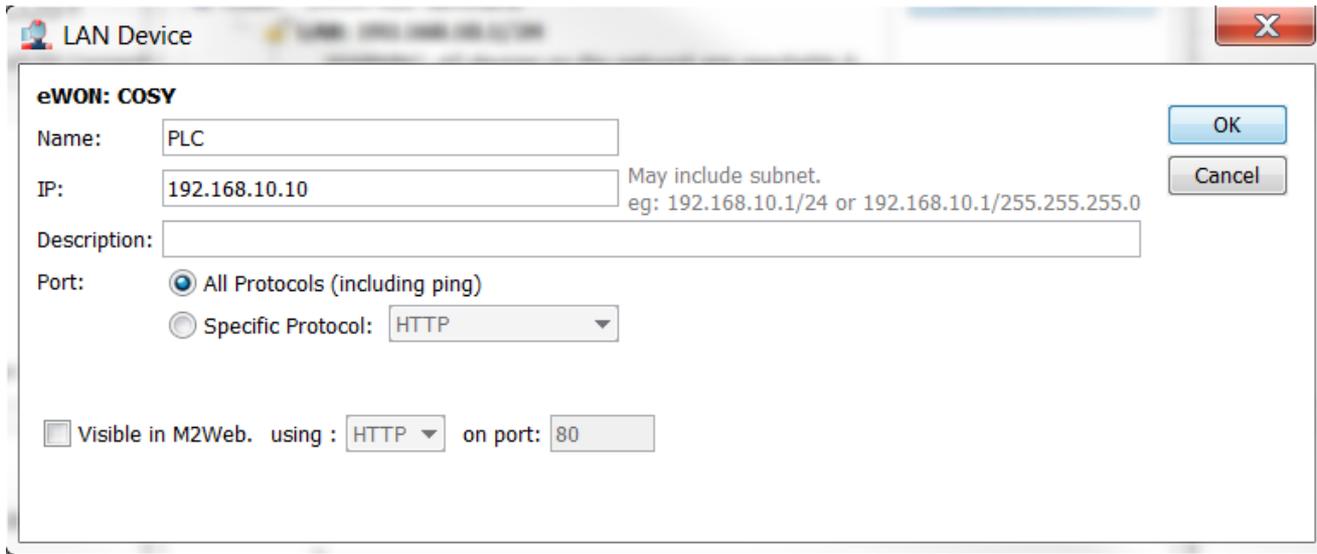
- Click “Add LAN Device...”



# Firewall Options

## 1. Configuring the firewall

- Add the PLC to the network
  - IP: 192.168.10.10



The screenshot shows a configuration window titled "LAN Device" for a device named "eWON: COSY". The window contains the following fields and options:

- Name:** A text box containing "PLC".
- IP:** A text box containing "192.168.10.10". To the right of this field is a note: "May include subnet. eg: 192.168.10.1/24 or 192.168.10.1/255.255.255.0".
- Description:** An empty text box.
- Port:** Two radio button options: "All Protocols (including ping)" (which is selected) and "Specific Protocol: HTTP" (with a dropdown arrow).
- Visible in M2Web:** A checkbox that is currently unchecked. To its right is a label "using : HTTP" with a dropdown arrow, followed by "on port: 80" with a text box containing "80".

At the top right of the window are "OK" and "Cancel" buttons. The window title bar includes a close button (X).

- Confirm with OK and place the firewall in “High” mode

# Firewall Options

## 2. Testing the firewall function

- Disconnect from the eWON and reconnect



The screenshot shows the Talk2M web interface. At the top, it displays the user 'COSY' with IP '10.210.158.28 (LAN:192.168.10.1)' and the device 'eWON voor seminarie'. A 'Disconnect' button is visible in the top right. Below this, the LAN configuration is shown as 'LAN: PLC 192.168.10.10'. The main section is titled 'My eWONs' and contains a toolbar with 'Add', 'Properties', 'Log', 'Disconnect', and 'Refresh' buttons. Below the toolbar is a table with the following data:

Name	Status	Description	User(s) connected	Custom Field 1	Custom Field 2	Custom Field 3
COSY	Connected	eWON voor seminarie	admin			

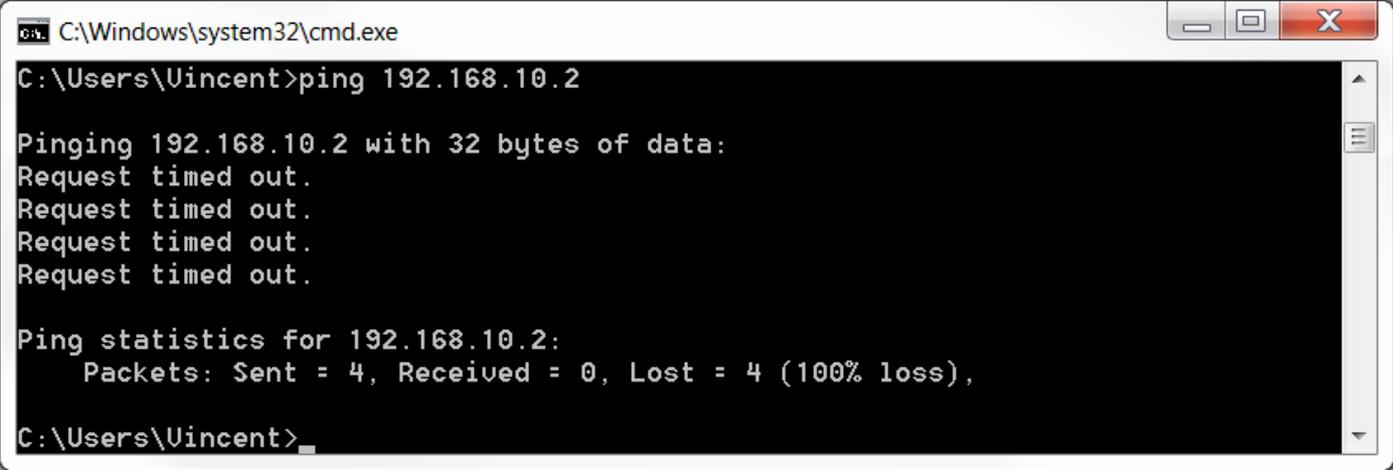
- The LAN network is now protected with only the specified device reachable

# Firewall Options

## 2. Testing the firewall function

- Open the command prompt and ping the protected remote device

“ping 192.168.10.2”



```
C:\Windows\system32\cmd.exe
C:\Users\Vincent>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\Vincent>
```

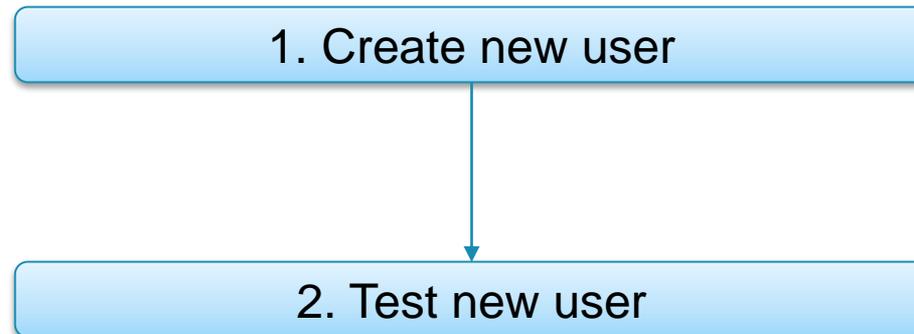
- The packets do not reach the protected device

# Firewall Options

## 2. Testing the firewall function

- Now try to connect to the available device
- Open the browser and enter the address “192.168.10.10”
- The web page of the PLC opens

# User Management



# User Management

## 1. Create new user

- In eCatcher, select the “Users” tab
- Click the “Add” button to add a new user

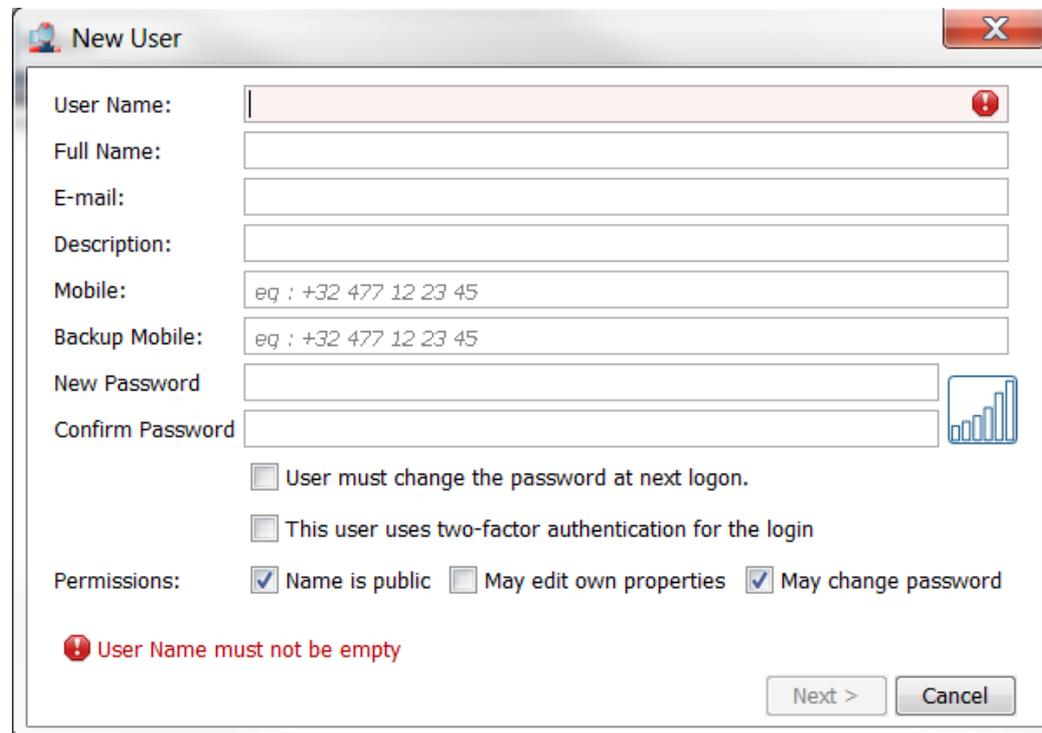


Users							
+ Add    Properties    Log    Refresh							
Name	Full name	E-mail	Description	Type	Custom Field 3	Custom Field 2	Custom Field 1
admin	John Doe	vinnieraer@msn.c...		Administrator			

# User Management

## 1. Create new user

- Fill in the information for the new user



The screenshot shows a 'New User' dialog box with the following fields and options:

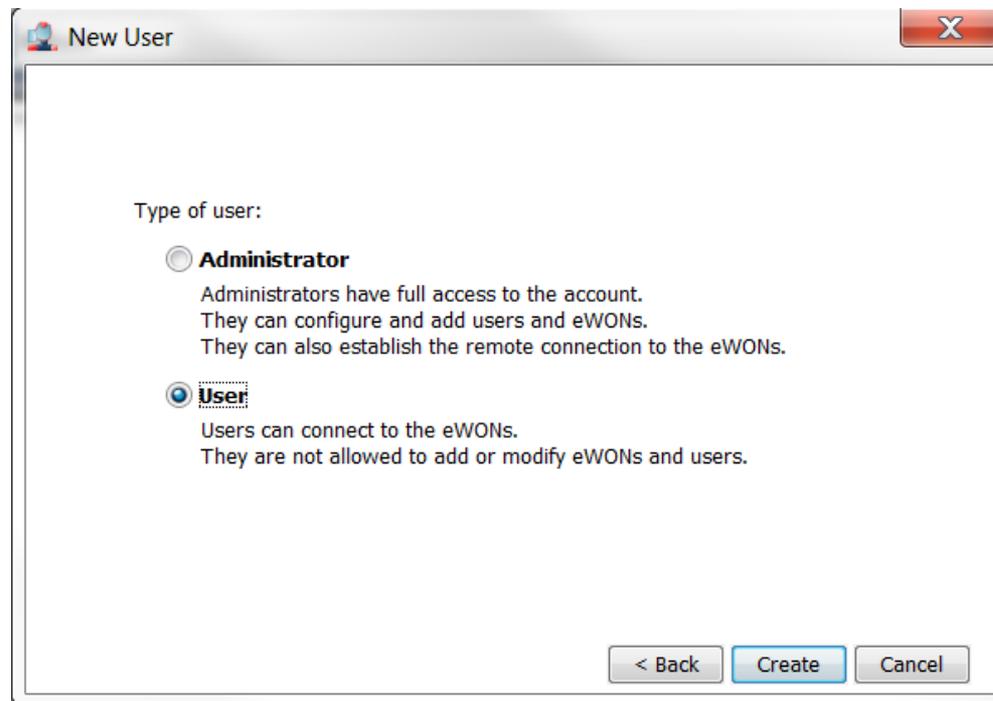
- User Name:** A text input field with a red warning icon and a red exclamation mark. A red error message at the bottom states: "User Name must not be empty".
- Full Name:** A text input field.
- E-mail:** A text input field.
- Description:** A text input field.
- Mobile:** A text input field containing the value "eq : +32 477 12 23 45".
- Backup Mobile:** A text input field containing the value "eq : +32 477 12 23 45".
- New Password:** A text input field with a strength indicator icon (a bar chart) to its right.
- Confirm Password:** A text input field.
- User must change the password at next logon.
- This user uses two-factor authentication for the login
- Permissions:**  Name is public  May edit own properties  May change password

At the bottom right, there are two buttons: "Next >" and "Cancel".

# User Management

## 1. Create new user

- Choose the type of user the new user is to be



The screenshot shows a 'New User' dialog box with a title bar containing a user icon and the text 'New User'. The main content area is titled 'Type of user:' and contains two radio button options. The first option is 'Administrator', which is unselected. Below it, the text reads: 'Administrators have full access to the account. They can configure and add users and eWONs. They can also establish the remote connection to the eWONs.' The second option is 'User', which is selected. Below it, the text reads: 'Users can connect to the eWONs. They are not allowed to add or modify eWONs and users.' At the bottom of the dialog box, there are three buttons: '< Back', 'Create', and 'Cancel'.

- Confirm with “Create”

# User Management

## 2. Test new user

- Log out, and log in as the new user
- Go to the eWONs properties

The screenshot displays the configuration page for an eWON. It is divided into three main sections:

- COSY**: Shows the eWON name 'COSY', its purpose 'eWON voor seminarie', and three custom fields. A note states 'This eWON serial number is : 1506-0530-22'. A 'Modify...' button is located at the bottom right of this section.
- VPN**: Shows the status 'OFFLINE since 24/09/15 12:35:32 , its vpn IP was 10.210.158.28'. A note indicates 'eWON connects using a permanent connection.'. A 'Modify...' button is located at the bottom right of this section.
- LAN & Firewall**: Shows the eWON LAN IP '192.168.10.1/255.255.255.0' and LAN devices 'PLC (192.168.10.10)'. Two buttons are present: 'Configure LAN Devices & Firewall...' and 'Modify LAN Subnet...'.

- Note that a user can not change any of the eWONs properties but can connect to it