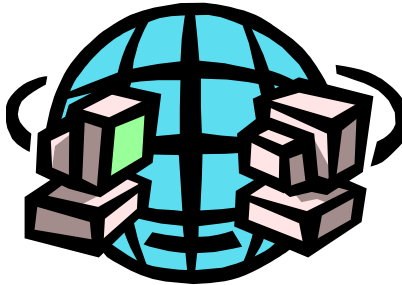


eWON 4000

Getting started
Rev 3.0



COOL INTERNET TELECONTROL SOLUTION

<http://www.ewon.be>



TABLE OF CONTENTS

- 1 First connection 3
 - 1.1 Overview3
 - 1.2 Physical installation3
 - 1.3 Set-up TCP/IP configuration4
 - 1.3.1 Choosing an IP address for the eWON under MS Windows4
 - 1.3.2 Assigning the address to the eWON.....6
 - 1.3.3 Trouble shooting8
 - 1.4 Final check: use the explorer8

- 2 Basic eWON configuration 9
 - 2.1 Introduction.....9
 - 2.2 Logon9
 - 2.3 Create your user account10
 - 2.4 Create tags and monitor values11
 - 2.5 Monitor your tags.....13
 - 2.6 Update an output14
 - 2.7 Build a graph14
 - 2.8 Monitor an alarm.....15
 - 2.9 Check the alarm history17
 - 2.10 Download files from the eWON17

- 3 Using scripts 18
 - 3.1 Create as script18
 - 3.2 Run the program.....21

- 4 Send an EMail (with a modem) 23
 - 4.1 Collect information about your provider account23
 - 4.2 Configure the eWON to send mail by modem25
 - 4.3 Validate your setup.....26
 - 4.4 Configure an alarm to send an EMail27

- 5 Learn more 30

1 First connection

1.1 Overview

To configure and use the eWON, you will use a Web Browser like Internet Explorer. Before you can connect to the eWON using your explorer, you will need to connect and configure the Ethernet TCP/IP connection of the eWON (if you want to connect to the eWON using a modem, please check the "User Manual").

The eWON set-up procedure includes the following steps:

1. Power up eWON and set-up physical connections
2. Assign an IP address to the eWON

1.2 Physical installation

The eWON must be powered up with 110/240V (240 AC version).



The Power indicator must go solid green.

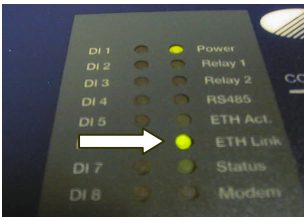
Now you must connect the eWON to your Ethernet LAN or directly to your PC Ethernet adaptor. The eWON Ethernet interface is 10/100 BASE TX using an RJ45 connector.

If you want more information about straight connection and "through hub" connection please check the "Installation Manual".



The Ethernet interface is the rightmost connector.

As soon as the Ethernet network is connected successfully, the "ETH. Link" led should go solid green, indicating that the eWON has sensed the network speed (10 or 100MBits).



1.3 Set-up TCP/IP configuration

Your must assign to the eWON an IP address compatible with your LAN configuration. The eWON works with a fixed IP configuration (Different from DHCP or BOOTP configuration, not available with the eWON). You must select a valid IP address for the eWON. Usually, a network administrator keeps track of fixed IP addresses on a LAN, but the following method can be used to select an address.

1.3.1 Choosing an IP address for the eWON under MS Windows¹

¹ With Windows 95 use the WINIPCFG.EXE instead of IPCONFIG

```
Command Prompt
C:\>ipconfig

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection 2:

    Media State . . . . . : Cable Disconnected

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . : 
    IP Address . . . . . : 10.0.0.57
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 

C:\>_
```

Launch a DOS command prompt and execute the command IPCONFIG. The program will return the IP configuration of the TCP/IP adapters of your PC. In the previous example the PC has address **10.0.0.57** and the subnet mask is 255.255.255.0 (you will need that information too).
To select an IP address for the eWON take for example 10.0.0.58 (one more than yours) and test if it is not in use with the PING command:

```
Command Prompt
C:\>ping 10.0.0.58

Pinging 10.0.0.58 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.0.0.58:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Type PING 10.0.0.58. The program should return the above result: Request Timeout (this means that no other device on you LAN uses that IP address).

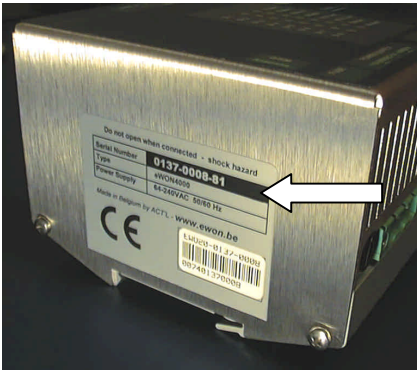
In the above example, the IP address chosen for the eWON would be

IP Address: 10.0.0.58
IP Mask: 255.255.255.0
IP Gateway: 0.0.0.0 (not used)

The mask is the same for all devices of the LAN, so the value returned by IPCONFIG is used (255.255.255.0).

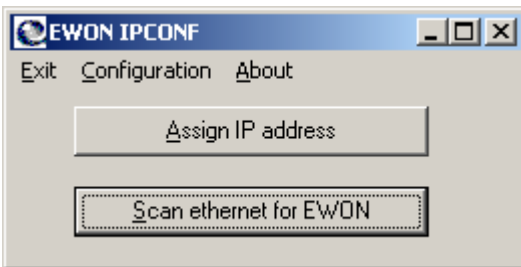
1.3.2 Assigning the address to the eWON

In order to assign the IP address to the eWON for the first time, check the eWON serial number on its label (eWON left side)

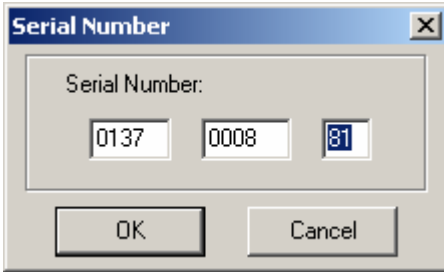


The serial number has the following format: 0137-0008-81 (for example)

Run the program **EWONCFG.EXE** to assign the eWON's IP address, the program is available from the <http://www.ewon.be/SupDnlSft.htm> and is called "eWON IP configurator".

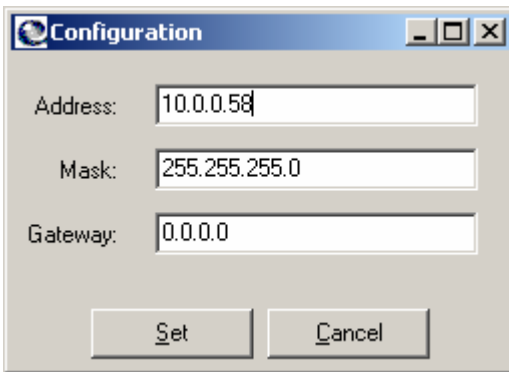


The program has the above interface. Click the "Assign IP address" button. The following dialog box appears, enter the eWON's serial number.



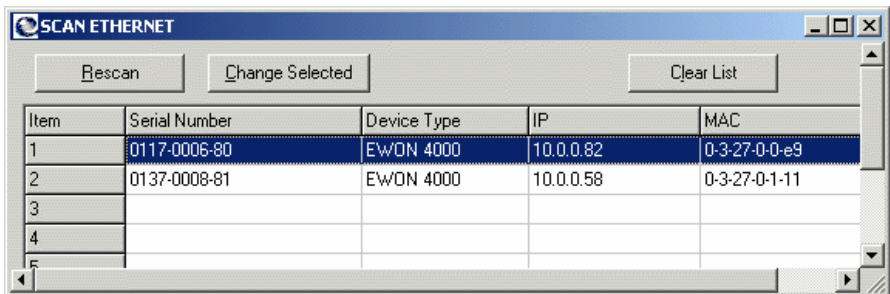
Then click OK.

The following dialog box appears to allow entering the IP address, net mask and default gateway. Enter the parameters as previously defined.



Then click "Set" and look at the eWON's "ETH Link" led, after a few seconds, this led should go OFF indicating that the eWON is restarting while taking its new IP address. When the led is back ON, go back to the EWONCfG main screen and click the "Scan Ethernet for eWON" button.

The following window will open:



Your eWON must appear in the list. If not click "Rescan" in the above window until it appears. If the eWON does not appear after 15 seconds, go back to the "Assign IP address" operation and try again.

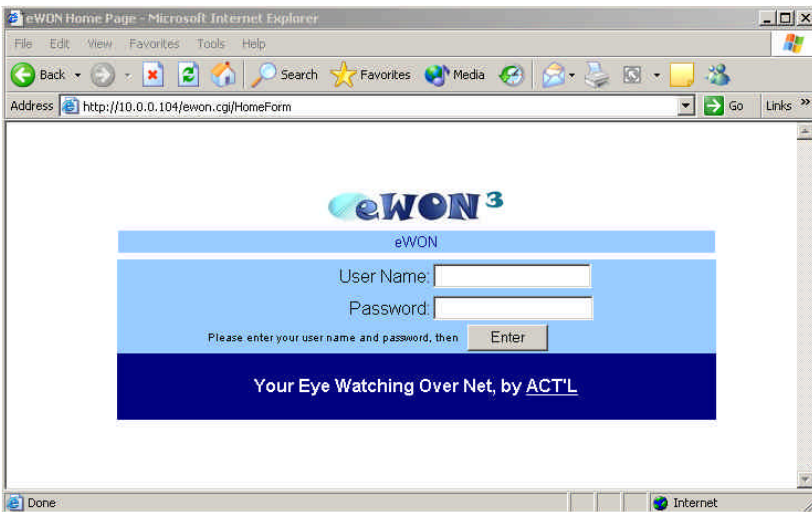
1.3.3 Trouble shooting

- If the eWON "ETH Link" does not go OFF after "Set" is clicked, check Ethernet connection between PC and eWON. Check the serial number of the eWON (the "ETH Link" must be ON before starting assignment).
- The eWON restarts ("ETH Link" goes OFF then ON) but when you click "Scan..." your eWON is not listed. The eWON must be in the same subnet to be visible with "Scan...". When you click "Scan..." the "ETH Act." led of the eWON should blink. If the led does not blink, it means that the eWON did not respond to the Scan request. There cannot be 2 devices with the same IP address on the LAN, use the PING command when eWON is unconnected to check duplicate device (described in "1.3.1 Choosing an IP address for the eWON under MS Windows. ").
- PC configured using DHCP: if your PC is using an IP address allocated by a DHCP server, you cannot disconnect your PC from the network, or its IP address may change. Use IPCONFIG to check your IP address if you think it has changed.

1.4 Final check: use the explorer

When the eWON has been configured and it responds to the "Scan..." command, launch your preferred browser to try a connection.

Type the eWON IP address in the browser's address bar (example: 10.0.0.58) then look at the eWON, you should see the "ETH Act" blink and the eWON's home page will be displayed in the browser.



You have successfully configured the eWON IP address, and you may now configure any of its features using the browser.

2 Basic eWON configuration

2.1 Introduction

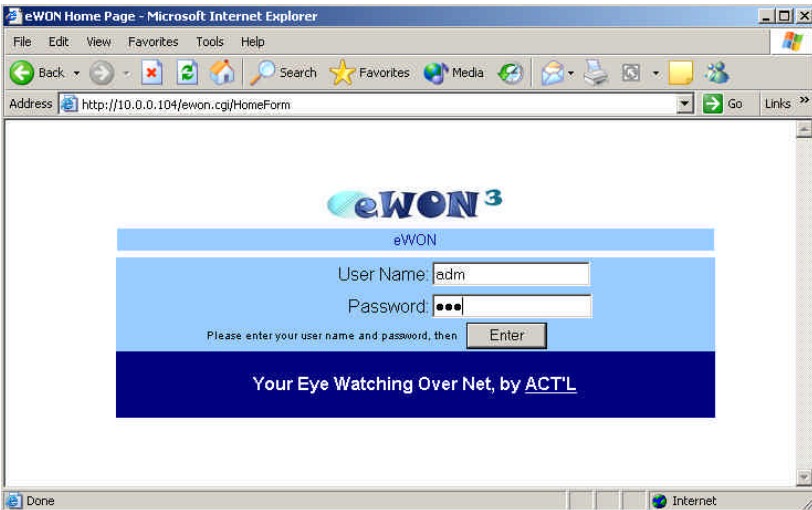
This chapter is not supposed to be a user manual for the eWON, it will rather describe a simple configuration in order to quickly browse through the various eWON's screens and features. This will provide you with an overview of the eWON's features.

2.2 Logon

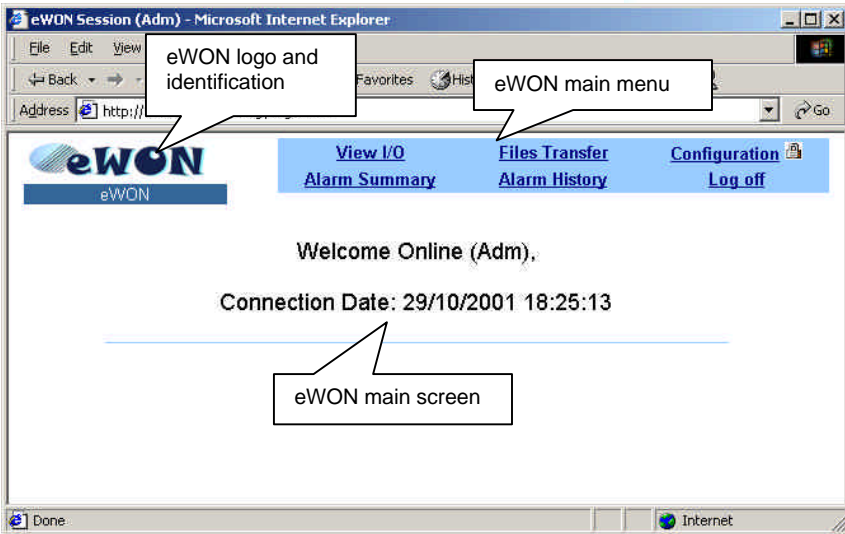
Launch your browser and type the eWON IP address in the address bar. In the eWON logon screen that appears, enter the default administrator user name and password:

Username: adm

Password: adm



You will then see the Welcome screen with the eWON logo and identification, eWON menu and main area.



2.3 Create your user account

The eWON manages a list of users with their assigned rights. The first operation that you will perform is to create your user account.

Click on the [Configuration](#) menu. The following menu will replace the main menu:



Select the [Users Setup](#) menu.



User Login	First Name	Last Name	Rights	Information
<input type="checkbox"/> Adm			v o a c	

The list of users defined appears, only the Administrator account is defined. Select the [Create New User](#) in the local menu.



First Name:	<input type="text" value="Marc"/>	Last Name:	<input type="text" value="SMITH"/>
User Login:	<input type="text" value="smith"/>	Password:	<input type="password" value="AAAAAAAA"/>
		Confirm Password:	<input type="password" value="AAAAAAAA"/>
Information:	<input type="text" value="Test User"/>		

Rights	
<input type="text" value="All"/>	Tag Page allowed (Default is always allowed)
<input type="text" value="All"/>	User Directory allowed (/usr/ is always allowed)
<input checked="" type="checkbox"/>	View IO
<input checked="" type="checkbox"/>	Force Outputs
<input checked="" type="checkbox"/>	Acknowledge Alarms
<input checked="" type="checkbox"/>	Change Configuration

The above screen will appear (callback configuration is not displayed here, default values can be used), you can enter your name and login. First and Last name are used for information purpose. The "User login" is actually used in all authentication procedures². Leave the options as shown in the example above; this will assign all the rights to you.

Then click "Add/Update" to validate your changes.
 Now you can see your user account displayed in the list.

	User Login	First Name	Last Name	Rights	Information
<input type="checkbox"/>	Adm			v o a c	
<input type="checkbox"/>	smith	Marc	SMITH	v o a c	Test User

Go back to the user menu by clicking [Main Menu](#) and then log off the eWON by clicking [Log off](#).

Then logon again with your own account: Smith (password is case sensitive, user name is not case sensitive).

2.4 Create tags and monitor values

This is the more important step in eWON usage it describes how to monitor physical or computed values by creating and configuring tags.

A tag is a variable defined in the eWON, this variable is connected to a physical source that makes it change (a digital input of the eWON or a remote modbus register for example), the tag can also be used to update an output (like one of the eWON's digital output relays). There is also a special type of tag called "memory tag" that allows monitoring computed values.

² Dial up connection, FTP server login, Main Web access login



Let us create our tags.

Go back to the configuration menu:

Tag Setup	System Setup	Main Menu
Script Setup	Users Setup	More Config >>

and select [Tag Setup](#).

We will create 2 tags:

- 1 tag connected to the digital relay 1 of the eWON
- 1 memory tag that we will use for a computed value later.

The list is currently empty; select the [Create New Tag](#), to show the tag configuration window:

In this window, enter the parameters of the tag connected to the eWON's relay Nr 1:

Tag Name: **Light**

Tag Description: **My desk light**

Server Name: **EWON**

Address: **DO1**

Type: **Boolean**

Historical Logging Enabled: **Checked**

Logging deadband: **0**

Logging interval: **0**

Tag Name:	<input type="text" value="Light"/>	Page:	<input type="text" value="Default"/>
Tag Description:	<input type="text" value="My desk light"/>		
I/O Server Setup			
Server Name:	<input type="text" value="EWON"/>	Topic Name:	<input type="text"/>
Address:	<input type="text" value="DO1"/>	Type:	<input type="text" value="Boolean"/> Force Read Only: <input type="checkbox"/>
eWON value = IO Server Value * <input type="text" value="1"/> + <input type="text" value="0"/>			
Historical Logging <input checked="" type="checkbox"/> Historical Logging Enabled			
Logging Deadband:	<input type="text" value="0"/> (put a negative value to disable deadband logging)		
Logging Interval:	<input type="text" value="0"/> Seconds (set to 0 will enable only Deadband logging)		
Real Time Logging <input type="checkbox"/> Real Time Logging Enabled			
Time Span:	<input type="text" value="600"/> Seconds		
Logging Interval:	<input type="text" value="10"/> Seconds		
<input type="button" value="Add/Update Only"/>		<input type="checkbox"/> Then Edit Notification	
<input type="button" value="Cancel"/>			

Click "Add/Update Only" to validate your changes.

REM: The IO server is the source of data. The integrated physical IO's of the eWON are managed by the "EWON" IO server.

The Historical logging is used to save changes of a variable in the EWON flash memory system (non volatile flash memory). A deadband of 0 means that any change is logged, interval time of 0 means that time based logging is disabled.

This tag will act directly on the eWON's relay number 1 and any action on the relay will be logged.

Now you can see your new tag in the list:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tag Name	Description	Type	IO Server	Topic	IO Address
<input type="checkbox"/>	X		Light	My desk light	Boolean	EWON		D01

If you want to edit the tag configuration, click on the [Light](#) hyperlink.

Repeat the same sequence to create a new tag called "Level":

Click on the [Create New tag](#) hyperlink and enter the following parameters:

Tag Name: Level	
Tag Description: Tank Level	
Server Name: MEM	
Type: ANALOG	
Alarm Enabled: Checked	
Alarm Level Low: -1	
Alarm Level High: 100	Alarm occurs if level goes above 100
Alarm Hint: Open the faucet	
Historical Logging Enabled: Checked	
Logging deadband: 2	Log change each time level changes by at least 2
Logging interval: 0	
Real Time Logging Enabled: Checked	Log level in eWON memory (volatile)
Time Span: 600	During 10 minutes
Logging Interval: 10	One point every 10 seconds

Click "Add update" to validate your edition.

Now your list must look like this

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tag Name	Description	Type	IO Server	Topic	IO Address
<input type="checkbox"/>	X	X	Level	Tank level	Analog	MEM		Level
<input type="checkbox"/>	X		Light	My desk light	Boolean	EWON		D01

2.5 Monitor your tags

Go back to the welcome menu by clicking [Main Menu](#) then in the menu select [View IO](#) and this is what you should see:

Show Graph For Selection
Page: [Update](#)
30/10/2001 12:44:54

<input type="checkbox"/>		Tag Name	Value	New Value		Description
<input type="checkbox"/>		Level	0	<input type="text" value="0"/>	Update	Tank level
<input type="checkbox"/>		Light	0	<input type="text" value="0"/>	Update	My desk light

Historical logging enabled

Real time logging enabled

Validate tag change

This is the main monitoring screen, you can see all the take current values, you can change the output tags values (if you have the right to do it in user's rights) there is

also some control allowing to check if tag is in alarm condition and hyperlink for real time graph display.

2.6 Update an output

Use the "Light" tag combo box and set value to then click Update. You must hear the relay clicking in the eWON and the "Relay 1" LED on the eWON front plate must go solid green.
Repeat the operation and set the "Light" tag to 0.

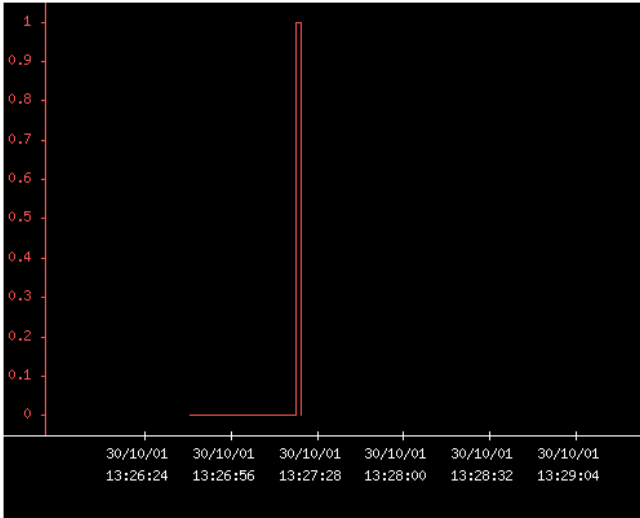
2.7 Build a graph

Now lets build a graph of this operation. Select the check box at the left of the "Light" row and click Show Graph For Selection.

<u>Show Graph For Selection</u>	
	Tag Name
<input type="checkbox"/>	Level
<input checked="" type="checkbox"/>	Light

The graph window will open.
The default **From To** dates are: FROM current time minus 1 day, TO: current time.
Change this setting and set the FROM date to current time minus 5 minutes and leave the TO time as is. Then click "update". The graph building operation takes about 10 second (depending also on the number of data logged) then the graph picture should appear. Please be patient during that operation.

REM: in the latest eWON firmware the background is not black but light gray for better printing result.



2.8 Monitor an alarm

Now we are going to trigger an alarm and view how the eWON reports the event. Tag "Level" has been defined with "alarm enabled", the alarm level is configured to 100.

Go to the [View IO](#) window and set the tag level to 110, click [Update](#) next to the "Level" tag value.

Click again on [View IO](#) in order to refresh the window.

REM: The Level tag is a memory tag, this means that its value must be set manually or by using the program features of the eWON. This can be very useful to combine the values of different tags into another tag. The resulting tag has the same features as any other tag, it can be logged, and monitored for alarm conditions, etc.

Now that the level is set to 110, the alarm level is reached and a small bell appears on the left side of the "Level" tag row,

	Tag Name	Value	New Value	Description
<input type="checkbox"/>	Level	110	<input type="text" value="110"/> Update	Tank level

This bell appears as long as an alarm state is present (even if alarm has disappeared but has not been acknowledged).

Click on the sign to go to the alarm summary window. You can also click the [Alarm Summary](#) item in the main menu.

The following window will be displayed:

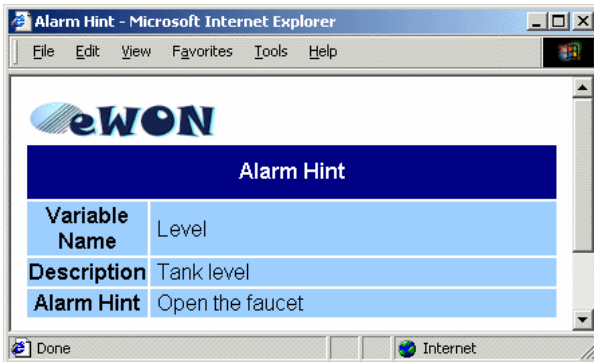
Acknowledge Selected	30/10/2001 15:33:33
----------------------	---------------------

Date	Name	Action/Date	User Ack	Description
<input type="checkbox"/> 30/10/2001 15:27:04	Level	ALM+ 30/10/2001 15:27:04		Tank level

This window lists the tag currently in alarm condition.
 This line contains a lot of information:

- ALM+ means high level reached (ALM- would mean low level)
- RED color means alarm present (GREEN is RTN-return to normal, BLUE is present but acknowledged).
- Date when alarm occurred at the left
- "Action/Date" logs the time when alarm returned to normal or was acknowledged.

If you click on the tag name ([Level](#)), a window with information about the tag will appear:



Now go back to the View IO window and set the "Level" tag to 50, this means that the tag is not any more in alarm condition, yet the bell sign is still present. This is normal because the alarm has not been acknowledged, so go back to the Alarm Summary window. Now it appears like this:



Date	Name	Action/Date	User Ack	Descr
<input type="checkbox"/> 30/10/2001 15:27:04	Level	RTN 30/10/2001 15:45:54		Tank level

You can see that the alarm is now returned to normal (RTN) with the time when it returned to normal in the Action/Date column.
 Check the checkbox at the left and click on the Acknowledge Selected in the local menu. When you do that, the list becomes empty because alarm is no more present and it has been acknowledged.
 You can also try to acknowledge an alarm that is still present to see what happens. This is how the alarm would appear in the list.

Date	Name	Action/Date	User Ack	Descr
<input type="checkbox"/> 30/10/2001 16:00:24	Level	ACK+ 30/10/2001 16:00:29	smith	Tank level

2.9 Check the alarm history

Each time an alarm event occurs, the eWON logs the event in its flash file system. To review the alarm history, Click on the [Alarm History](#) entry in the main menu. The following window will be displayed³:

<< Previous Page		Next Page >>		30/10/2001 16:02:50	
Date	Name	Type	User Ack	Description	
30/10/2001 16:00:29	Level	ACK	 smith	Tank level	
30/10/2001 16:00:24	Level	ALM		Tank level	
30/10/2001 15:58:46	Level	END	 smith	Tank level	
30/10/2001 15:45:54	Level	RTN		Tank level	
30/10/2001 15:27:04	Level	ALM		Tank level	

The alarm events are listed with the more recent event first. There is a maximum of 20 events displayed at the time, use the [<< Previous Page](#) and [Next Page >>](#) to browse through the history.

IMPORTANT: when an alarm occurs, you can generate actions like EMail or SMS. An example of EMail is given in 4.4 "Configure an alarm to send an EMail".

2.10 Download files from the eWON

The data logged in the flash file system can be downloaded to the host PC using the browser.

REM: You can also use an FTP client to retrieve the files, please look in the manual for details about the procedure.

Click on the [Files Transfer](#) option in the main menu, the following window is displayed:

File Name	Description
Events.htm	Events log as table
sstat.htm	Scheduled status as table
rt_alm.bt	Real time alarms
events.bt	Events log
hst_alm.bt	Alarms history
var_lst.bt	Variables list and details
var_lst.csv	Variables list and details
program.bas	Program
ewonfwr.edf	Firmware
remote.bas	Remote program
config.bin	Binary config
config.txt	Text config
ircall.bin	All historical logs
irc_Light.txt	Light Historical log
irc_Level.txt	Level Historical log

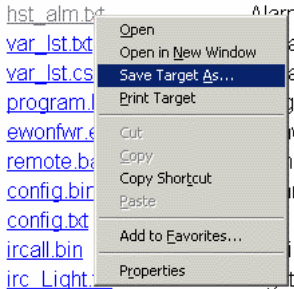
³ Since revision 3.1 the alarm Level is also reported.

Click on the [hst_alm.txt](#) item to download the alarm history we viewed in previous paragraph:

```
"EventDate";"TagName";"Status";"UserAck";"Description"
"30/10/2001 15:27:04";"Level";"ALM";"";"Tank level"
"30/10/2001 15:45:54";"Level";"RTN";"";"Tank level"
"30/10/2001 15:58:46";"Level";"END";"smith";"Tank level"
"30/10/2001 16:00:24";"Level";"ALM";"";"Tank level"
"30/10/2001 16:00:29";"Level";"ACK";"smith";"Tank level"
```

The result is a coma-separated output; this format can be read by Excel or by other programs.

Instead of clicking on the [hst_alm.txt](#) link you can right click on the link,



In the contextual menu displayed, select the "Save Target As..." option to download the data in a special file.

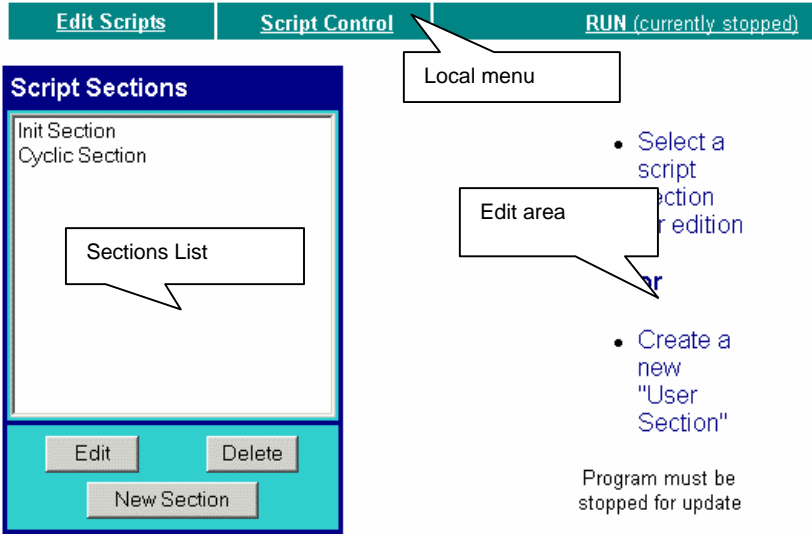
You can repeat the operation for other files to check the content.

3 Using scripts

3.1 Create as script

Here we will discover how to create a script. The script will update the "Level" tag to generate a ramp. The "level" tag will increase at the rate of 1 step per second.

Go to the [Configuration](#) menu, then select the [Script Setup](#) item, the following window will be displayed:



On the left side of the screen you can see the "Sections List" there are 2 default sections:

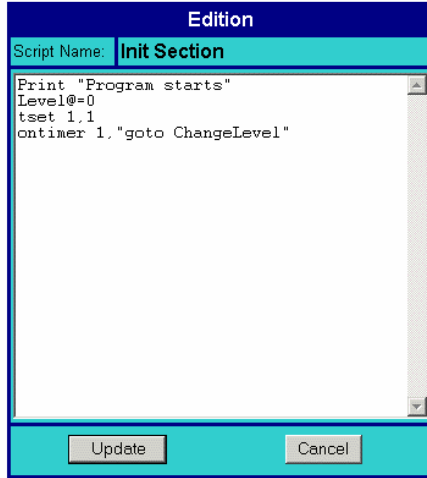
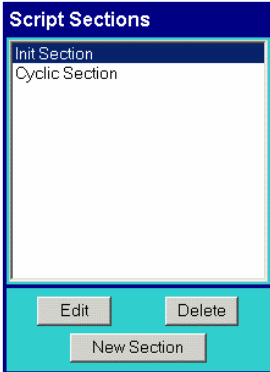
- Init Section
- Cyclic Section

The "Init Section" is executed when the program starts. Select the "Init Section" in the list and click on the "Edit" button.

In the right window, type the following program:

```
Print "Program starts"
Level@=0
tset 1,1
ontimer 1,"goto ChangeLevel"
```

The display should look like this:

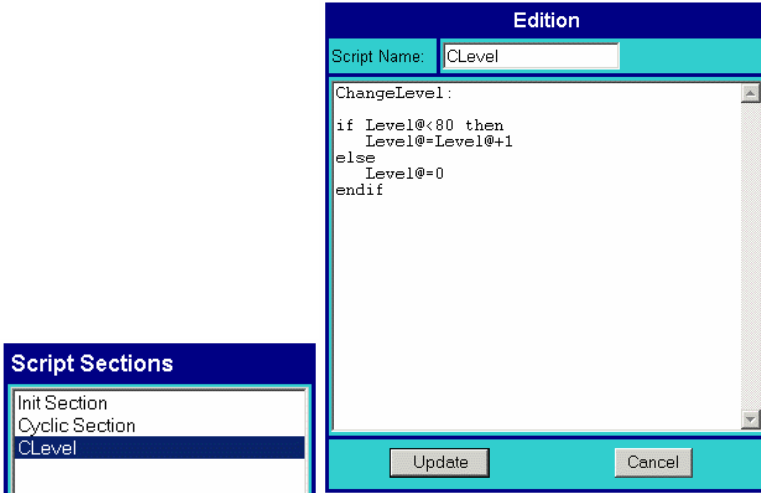


Click on the "Update" button to validate your change.

Now click on the "New Section" in the "Script List" area. In the top of the "Edit Area" enter a name for the new section: "CLevel". In the edit area enter the following program:

```
ChangeLevel:  
  
if Level@<80 then  
    Level@=Level@+1  
else  
    Level@=0  
endif
```

The display should appear like this:



Click "Update" to create the section. Now there is one additional section in the list.

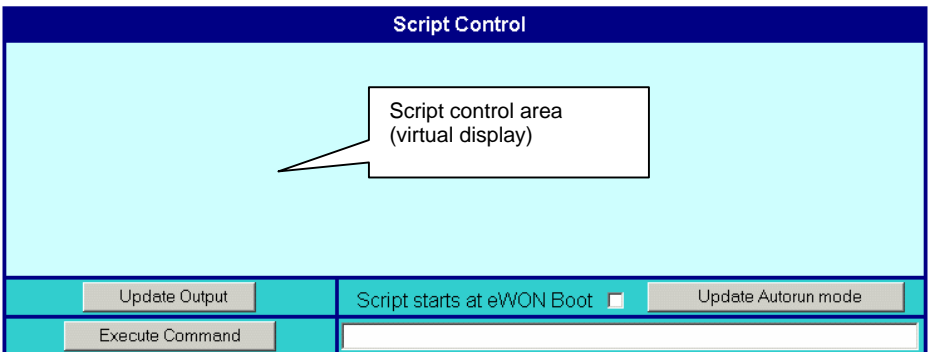
EXPLANATION: in this example, the Init section creates a timer – timer 1 – with a laps of 1 second (tset 1,1), then it registers the action:

```
goto ChangeLevel
```

when the timer expires (ontimer 1,"goto ChangeLevel"). The ChangeLevel label is defined in the CLevel section and will be called every second.

3.2 Run the program

From the Script local menu select the Script Control item, the following window is displayed:

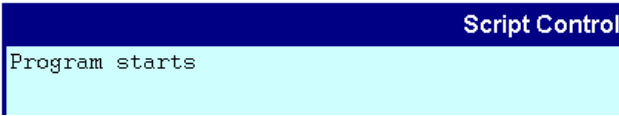


eWON 4000 Getting started



Click on the **Run** (currently stopped) in the local menu, this will execute the "Init Section" and will setup the 1 second timer.

If you click on the "Update Output" button, the window will display:



The first line of the "Init Section" generates the message "Program starts" using the PRINT command. This shows how the "Script Control" area can be used to output debugs information that can be read with your browser.

In the bottom of the script control screen, enter the CLS command:



CLS stands for "Clear Screen", the click the "Execute Command". Although the program is running, you can insert a command manually (this can also be done when the program is stopped).

Now click on the "Update Output" button, the "Program start" message has been cleared.

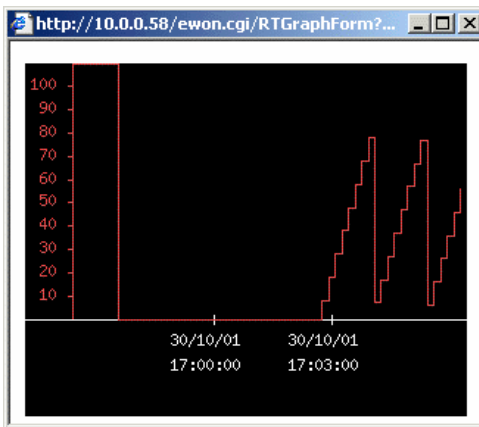
REM: The "Script starts at eWON Boot" can be checked if you want to run the program automatically when the eWON starts.



If you go to the View IO screen,



and you select the  link, the real time graph will be displayed in a separate window



The real time graph has been programmed on 10 minutes with a point every 10 seconds. After 10 minutes the older points will be erased. If the eWON is restarted, the older points will be erased.

4 Send an EMail (with a modem)

In this section we will learn how to configure the eWON to send an EMail using the modem.

If the mail server is reachable by ethernet the same operation can be done without the modem, but the usual case is to use a modem.

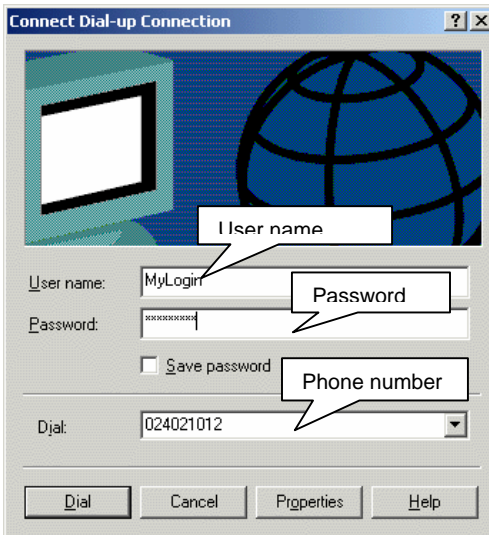
4.1 Collect information about your provider account

In order to configure the eWON to connect to a Mail server using a Dial Up connection you will need the following data:

- Provider phone number.
- User Name of your account to the provider.
- Password of your account to the provider.
- Mail server name or IP address of the provider (SMTP Server)

Here we will describe where that information is located by showing where it appears during the setup of a Dial Up connection to your provider.

When you setup the Dial Up connection using for example Windows 2000 the Dial Up dialog box shows the following entries.



The screenshot shows the 'Connect Dial-up Connection' dialog box. It contains the following fields and controls:

- User name:** MyLogin
- Password:** [Masked]
- Save password
- Dial:** 024021012

Buttons at the bottom: Dial, Cancel, Properties, Help.

eWON 4000 Getting started



This are exactly the information we need to setup the eWON. The last item you must provide to configure the "send mail" command is the SMTP server name or IP address.

Usually the SMTP server address is given as a name by your internet provider, the provider recommends to configure the OUTGOING and INCOMMMING mail configuration, example:

Server information

Outgoing mail (SMTP):

Incoming mail (POP3):

My incoming mail server is a server.

In our case we only need the Outgoing mail (SMTP).

Go to the eWON configuration menu **Configuration** option and select **System Setup** and then Main Setup. Fill the SMTP Server address case with the value found in the Outgoing mail (STMP)

Address Go Links >>

eWON Tag Setup Script Setup System Setup Users Setup Main Menu More Config >>

Main Setup Change Time COM Setup SNMP Setup

SETUP FOR OUTGOING ACTIONS (operations for which eWON must connect to the Internet/Intranet)

EMAIL Config		Configure Mail Transfer
SMTP Server Address:	<input type="text" value="smtp.swing.be"/>	Usually something like smtp.domain.com or mail.domain.com (can be an IP address)
SMTP Server Port:	<input type="text" value="25"/>	The default value is 25. It must only be changed in very special cases.
E-Mail "From" User name :	<input type="text" value="ewon@swing.be"/>	this will be used to send eMails, it must be compatible with your account name on the SMTP server.
E-Mail retriq interval:	<input type="text" value="86400"/> sec	
NTP Config		Configure update of eWON clock with an NTP time server
Enable NTP clock update	<input type="checkbox"/>	
NTP Server Address:	<input type="text"/>	
NTP Server Port:	<input type="text" value="123"/>	The default value is 123.

IMPORTANT: the EMail "From" User name field should contain the EMail address you received from your provider. Some providers will check this address to authorize you to send messages through their mail server.

4.2 Configure the eWON to send mail by modem

In this section we will suppose the following parameters collected in the previous section:

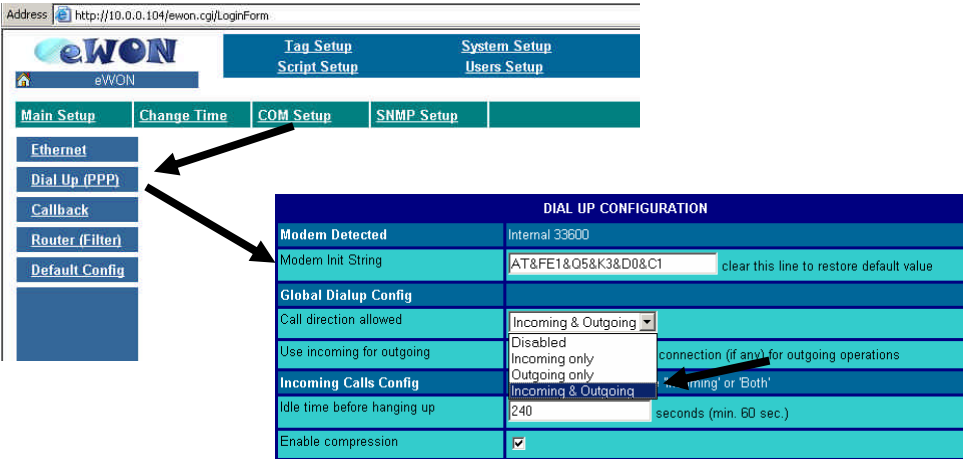
Dial Up phone number	025970000
User Name	ewon-login
Password	mypassword
SMTP server IP address	smtp.swing.be

Go to the eWON configuration menu using **Configuration** option, then select the **System Setup** item, and then select the **COM Setup** in this local menu, the following window will be displayed:

Enter the 3 parameters Server phone number, User Name, User password in this window. Then click the "Uplate COM setup" button.

Note: for reliability purpose, you can redo this step with a Secondary Server. In case of problem occurring with the Primary Server, the eWON will switch automatically to the Secondary server.

In the Local menu, click on the Main Setup link, the following screen will appear:



The " Call direction allowed " parameters must be either :

- Outgoing Only
- Incoming or Outgoing

This will allow the eWON to perform a call when an action requires it. For example, to send a mail the eWON needs to connect to the *smtp.swing.be* SMTP server and that will force an outgoing connection.

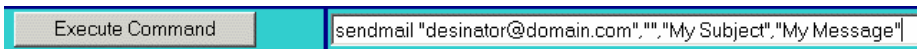
4.3 Validate your setup

With the setup defined above, your eWON is now ready to send EMail using the modem.

Go to the "Script Control" window and enter the following command:

```
sendmail "desinator@domain.com", "", "My Subject", "My Message"
```

The command has 4 parameters, destinator EMail address, then CC EMail address (empty here), then subject, then message.



Then click "Execute Command". and go to the Welcome menu, Files Transfer.

With a PSTN modem you should hear the modem dialing.

File Name	
Events.htm	Events log as table
sstat.htm	Scheduled status as table
rt_alm.txt	Real time alarms
events.txt	Events log

Select this link

The file transfer menu offers an interesting feature to trace the mail transfer operation.

The following information should be displayed:

ActionId	ActionType	StatusCode	StatusText	Start	End
1	Send Mail	-1	In Progress	30/10/2001 18:13:26	01/01/1970 00:00:00

Each action requiring connection is reported in this list, only the last 20 actions are kept in memory. In the above example, the list shows that the operation is in progress.

ActionId	ActionType	StatusCode	StatusText	Start	End
1	Send Mail	22012	Connection timeout	30/10/2001 18:13:26	30/10/2001 18:16:34

In the example above, the telephone line was not connected and after 3 retries, the connection is reported as timed out.

ActionId	ActionType	StatusCode	StatusText	Start	End
1	Send Mail	22012	Connection timeout	30/10/2001 18:13:26	30/10/2001 18:16:34
2	Send Mail	0	Success	30/10/2001 18:23:29	30/10/2001 18:23:44

Then in the example above the operation was processed successfully. The Status is reported as Success.

4.4 Configure an alarm to send an EMail

Finally we will show how to set up the Tag configuration so that upon alarm, an EMail is sent.

Go to the Tag Setup screen.

					Description	
<input type="checkbox"/>	X	X	Level		Tank level	A
<input type="checkbox"/>	X		Light		My desk light	B

Click on the bell

Click on the bell link next to the Level link. This link leads to the "Alarm action" configuration.

Alarm conditions are defined in the Tag setup (see "2.4 Create tags and monitor values"), but action in case of alarm is defined here.

The following window will be displayed:

Alarm Notification for tag: Level	
eMail Notification	<input checked="" type="checkbox"/> eMail Enabled
Short Message:	<input type="checkbox"/> Format as short message
eMail TO:	destinator@domain.com <small>ex: usr1@dom.ci,usr2@dom.ci</small>
eMail CC:	
eMail Subject:	Tank level alarm
eMail Attachment(s):	<input type="text" value="&[\$dtRL\$ftG\$tnLevel\$f nLGraph.png"/> <small>ex: &[\$dtEV]</small>
SMS Notification	<input type="checkbox"/> SMS Enabled
SMS Destination:	<input type="text" value="0456334433_ucp,0567112200_pass"/> <small>ex: DestPhone,Protocol,ServerPhone,pass with Protocol = ucp or tap</small>
SMS Subject:	
Put FTP Notification	<input type="checkbox"/> Put FTP Enabled
Destination File Name:	
File Content :	

Edit the following fields:

Email notification enabled: **checked**

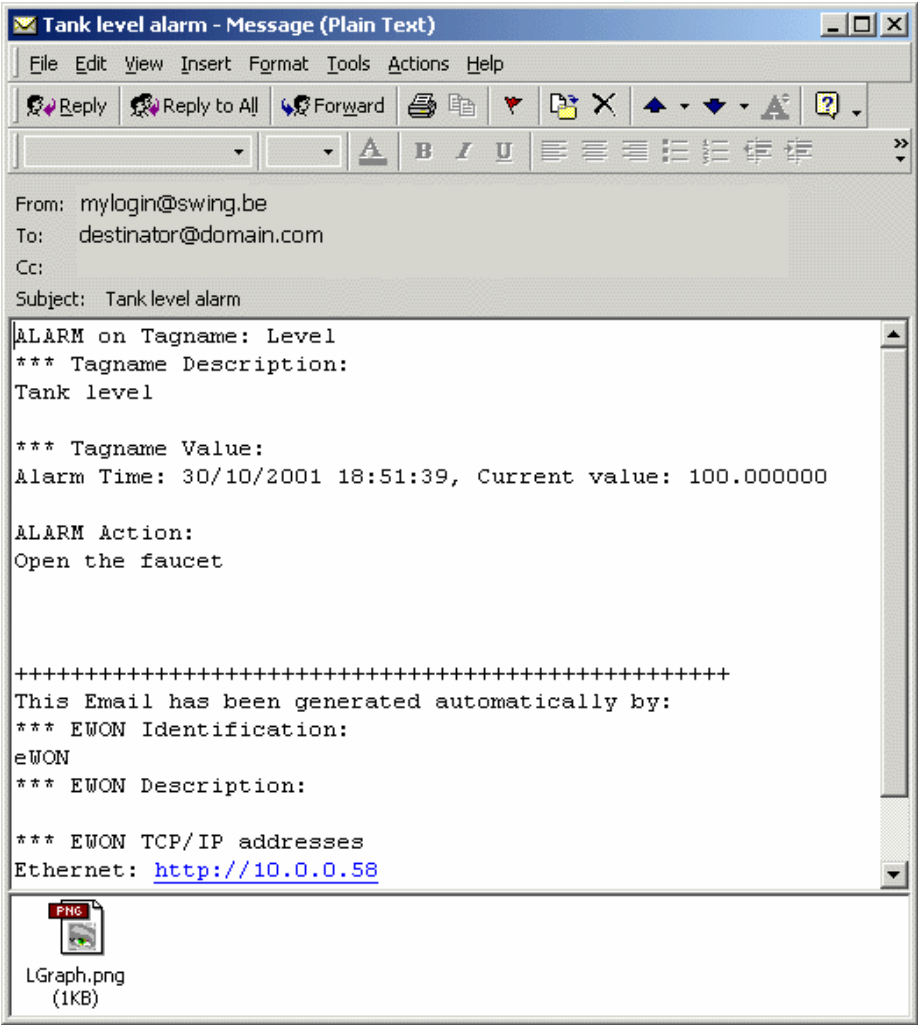
Email to: **destinator@domain.com** (replace by to correct destinator address)

Email Subject: **Tank level alarm**

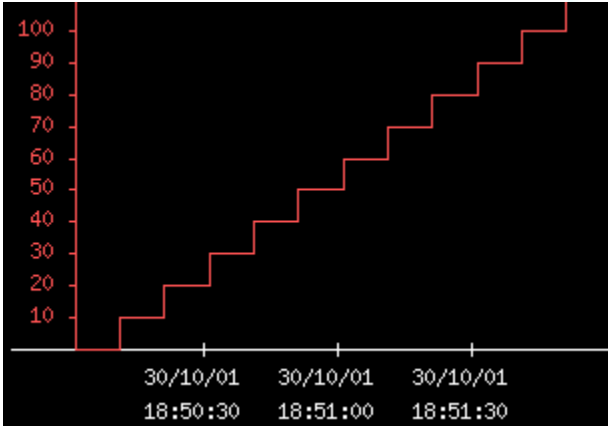
Email Attachement(s): **&[\$dtRL\$ftG\$tnLevel\$f nLGraph.png]**

The last item will not be explained here but its shows an example on how to attach a graph with real time logging to your EMail. There are lots of other possibilities of attachments with this method, they are explained in detail in the "Export Block Descriptor" section of the user manual.

Now go to the Vlew IQ screen and change the value of level to 120 then Update. The EMail sending process will start, you can track it in the Files transfer window and finally you should receive the following EMail:



If you open the LGraph.png attachment, you will see the following picture:



5 Learn more

The main topic that was not covered at all is the creation of your own custom web site with the eWON, but many other features are detailed in the user manual. This manual is only dedicated to introduce the main eWON features, and by browsing through the eWON screens, show you what the eWON can do.