

For all eWON types excluding eWON1000, eWON2000, eWON4000

## 1 Purpose

This Technical Note describes how to set up a remote collaboration. A remote collaboration consists in configuring, programming or monitoring a PLC from a remote location, without the need of connecting directly the PC to the PLC. A remote collaboration therefore involves a TCP/IP connection and eventually a router, depending on the protocol used by the PLC.

In this document, we will configure a complete remote collaboration system with a CS series PLC (CS1G), the CX-Programmer software and, of course, an eWON as a router. The CS1G uses the FINS protocol.

Three cases of remote collaboration will be treated:

- A direct connection to the eWON by Ethernet.
- A direct connection to the eWON using a phone line. With this topology, the eWON IP address is known since it is established with your own PC at the PPP connection time.
- A connection to the eWON using Internet and callback. This kind of connection can be used with callback: we call the eWON and let ring a certain amount of time and we hang up. After a specified amount of time, the eWON connects to an ISP using its phone line. In this case, the eWON IP address is not known so that the eWON must publish its address, by mail for instance. This document will start with the first topology, then, when this configuration is running, the changes needed for the second one will be described.

The following graph shows the three network topologies:

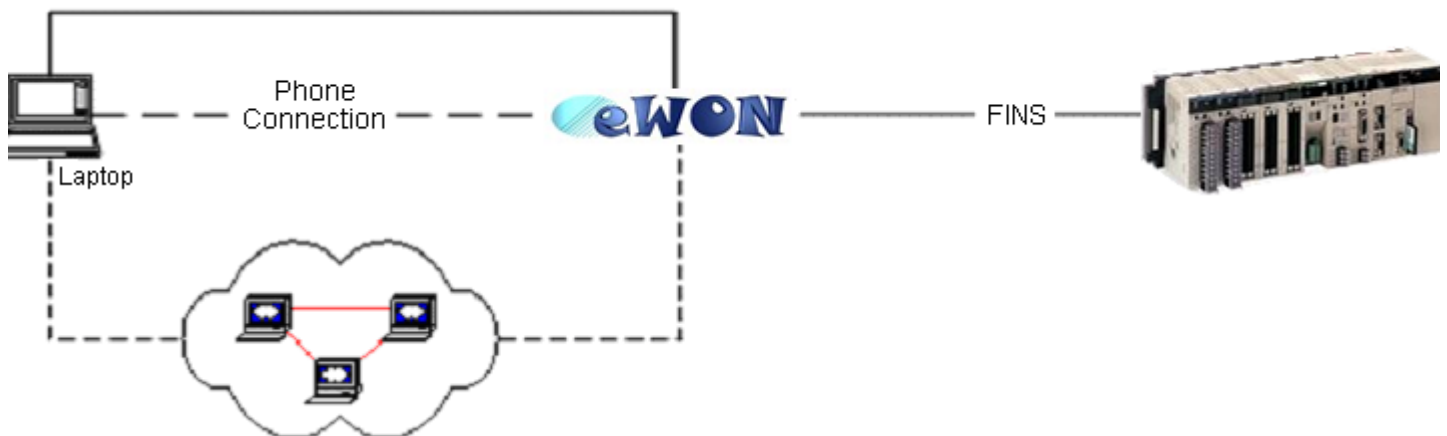


Figure 1: FINS network topologies

This document describes the three topologies. A direct Ethernet connection will be used to describe the global setup. After this configuration is working, the changes for the phone and Internet topologies will be described.

In order to follow this application note, you need:

- An eWON 2001, 4001 or 4002 (1002) with a PSTN or ISDN modem and a firmware release that supports the FINS protocol.
- A modem connected to your PC for direct phone connection with the eWON.
- An Internet connection account both for your PC and for the eWON.
- An OMRON PLC supporting Hostlink FINS protocol on its serial ports (e.g.: the CS-CJ OMRON PLC series).
- A cable to directly connect the PLC to the PC using the serial port (e.g.: XW2Z-200S-V).
- A cable to directly connect the PLC to the PC using the peripheral port (e.g.: CS1W-CN226).
- CX-Programmer (in this example version 5.0 is used).

In this document, we use Windows XP but any supported operating system can be used. We also assume the reader has some knowledge of the CX-Programmer software.

## 2 Configuration Steps Overview

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Starting with an eWON out of the box, this document will show how to set up a remote collaboration using several steps. The purpose of some of the steps is to test what has been set up so far. Those steps are therefore not absolutely necessary but can be really useful to localize a potential problem. The steps are:

- Setting up a test program in the PLC using a serial connection between the PC and PLC.
- eWON FINS configuration.
- Set up a Tag to test the FINS configuration.
- Installing and configuring the Remote Collaboration.
- Using the Remote Collaboration.

After each of the steps, a small test will be described to check that the step has been correctly executed.

## 3 PLC Configuration

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We will put a small program in the PLC so that we will be able to test the connection between the eWON and the PLC in the next section. To first set up the PLC, we will need a direct connection between the computer and the serial port of the PLC.

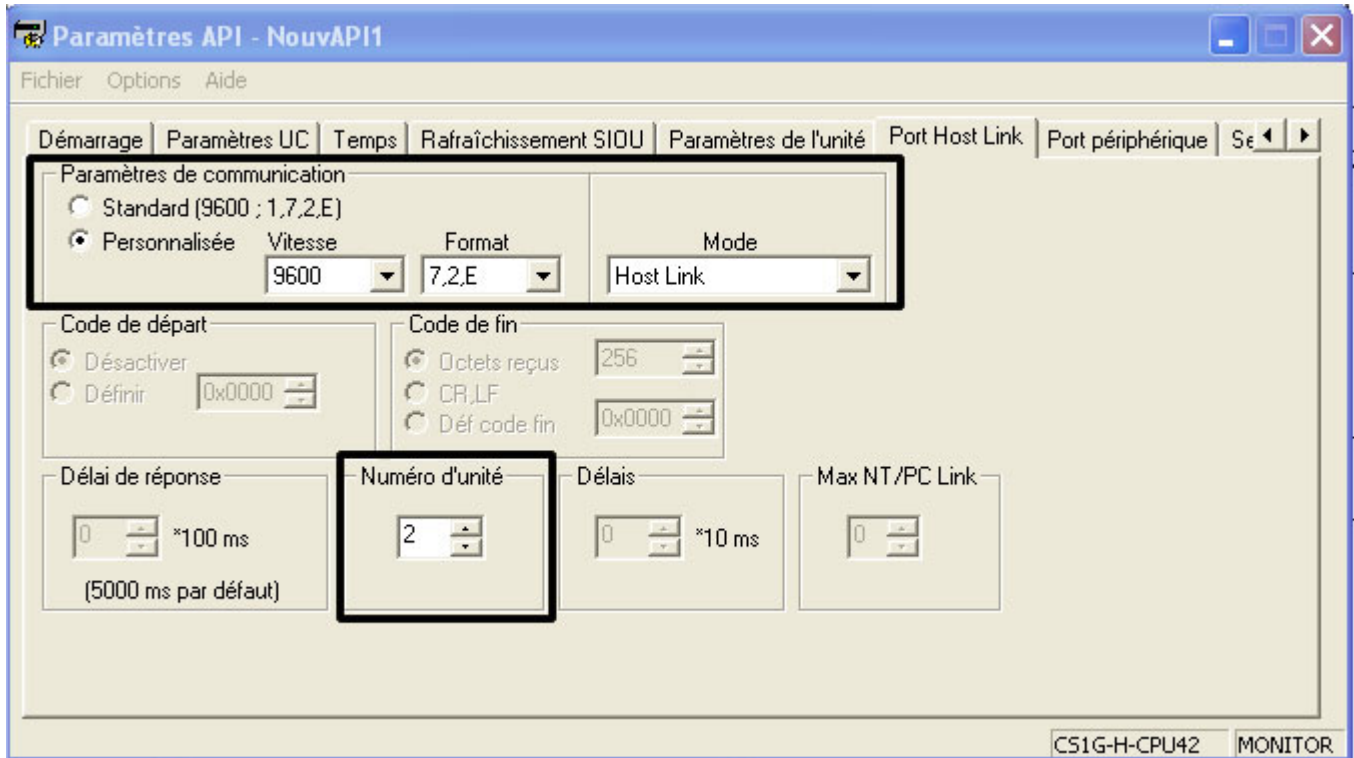
### 3.1 New Project opening and Device Type Settings

To do this connect first the PLC peripheral port to the PC serial port (CS1W-CN226 cable). Once this is done, open CX-Programmer.

Inside CX-Programmer click the toolbar button [**Auto Online**].  
Answer **Yes** to the request to transfer the program from the PLC.  
Once the program is uploaded, open the **PLC settings** and select the **Hostlink Port settings** (settings of the serial port of the PLC).

For all eWON types excluding eWON1000, eWON2000, eWON4000

The following window will pop up:



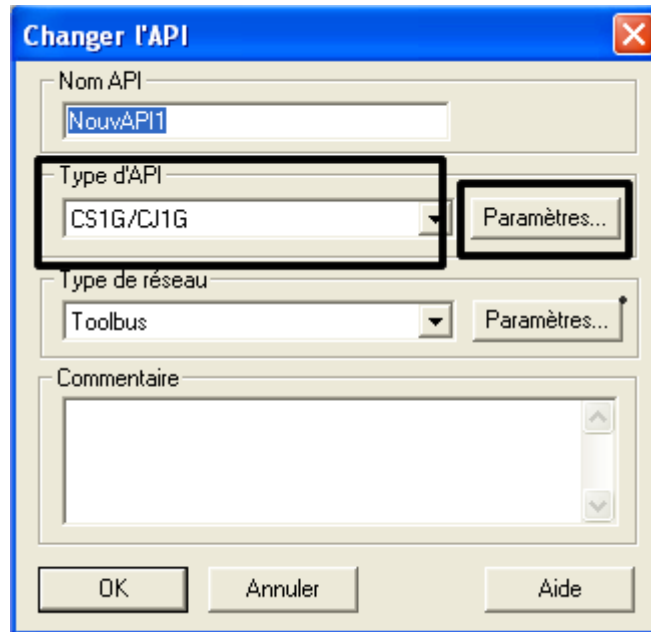
Set the **Communication Settings** and the **Hostlink unit** to the values defined in the previous picture and download the settings to the PLC.

Connect the PLC serial port to the PC serial port (XW2Z-200S-V cable).

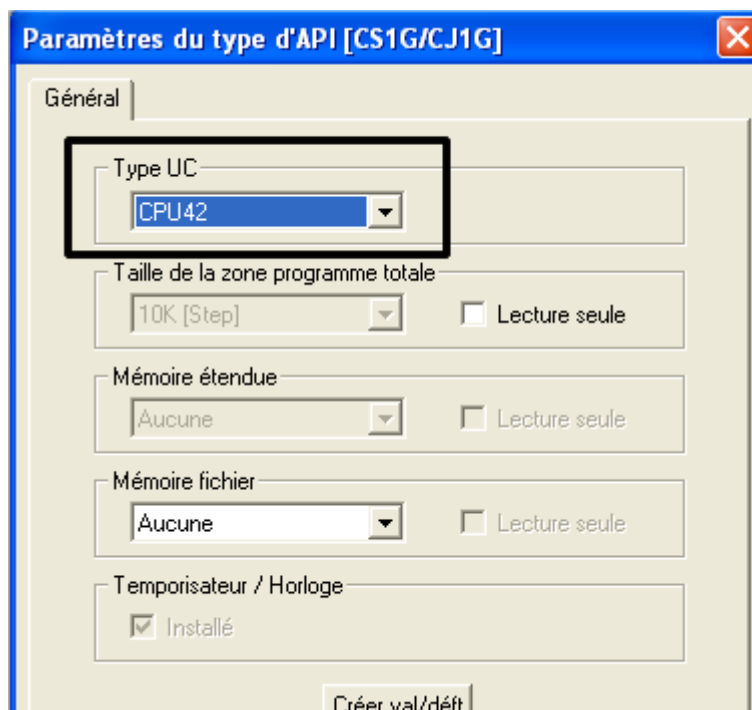
Inside CX-Programmer close the project and click the toolbar button **New**.

For all eWON types excluding eWON1000, eWON2000, eWON4000

The following window will pop up:



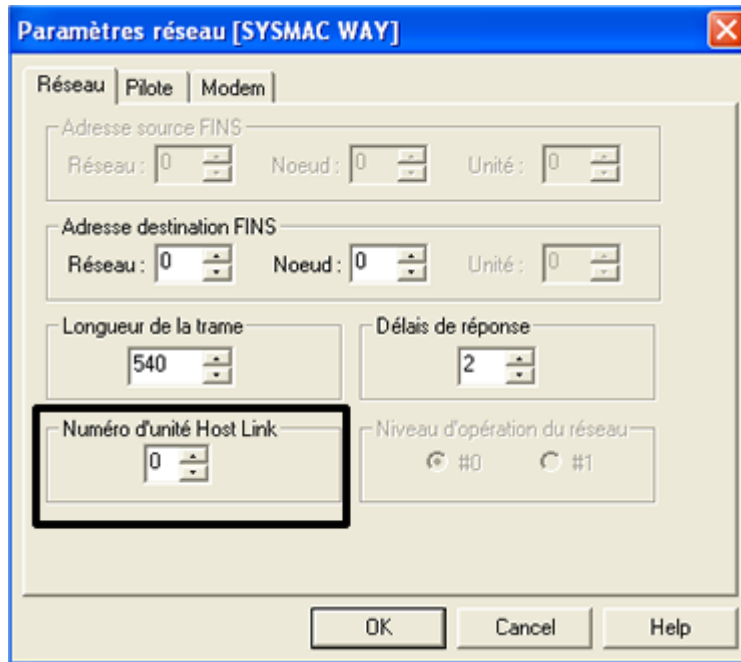
Select the correct PLC type (e.g.: CS1G-H) and click on the **Settings** button to open the **PLC Settings** dialog box.



Select a CPU type (e.g.: CPU42) and click on **OK**.

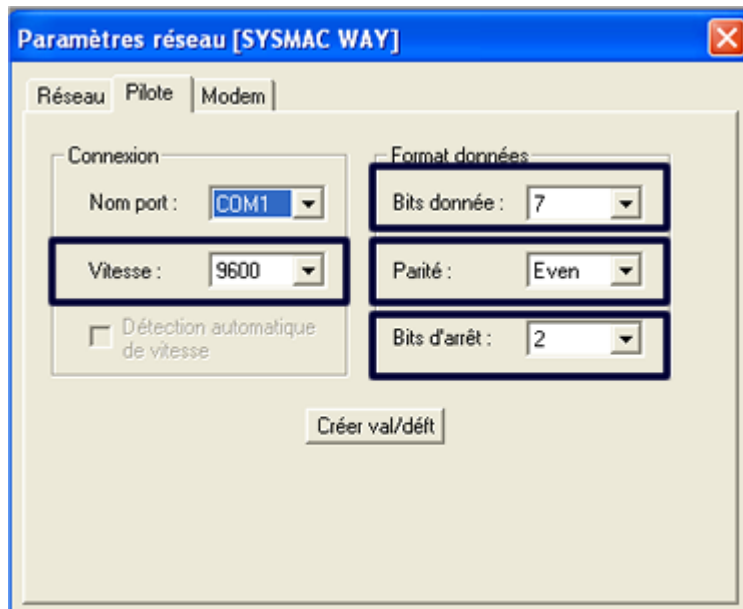
Select **SYSMACWAY** as network type and click on **Settings** to configure the **Network Settings** dialog.

For all eWON types excluding eWON1000, eWON2000, eWON4000



The screenshot shows the 'Paramètres réseau [SYSMAC WAY]' dialog box with the 'Réseau' tab selected. The 'Numéro d'unité Host Link' field is highlighted with a black box and contains the value '0'. Other fields include 'Adresse source FINS' (Réseau: 0, Noeud: 0, Unité: 0), 'Adresse destination FINS' (Réseau: 0, Noeud: 0, Unité: 0), 'Longueur de la trame' (540), 'Délais de réponse' (2), and 'Niveau d'opération du réseau' (radio buttons for #0 and #1).

Set the **HostLink unit** to the value contained in the **Settings** section (e.g.: 2) loaded in your PLC.



The screenshot shows the 'Paramètres réseau [SYSMAC WAY]' dialog box with the 'Modem' tab selected. The 'Vitesse' field is highlighted with a blue box and contains '9600'. The 'Bits donnée' field is highlighted with a blue box and contains '7'. The 'Parité' field is highlighted with a blue box and contains 'Even'. The 'Bits d'arrêt' field is highlighted with a blue box and contains '2'. Other fields include 'Nom port' (COM1) and 'Format données'.

Configure the **Baudrate**, number of **Databits**, **Parity** and **stop bit** with the values contained in the **Settings** section (e.g.: 9600, 7, Even, 2) loaded in your PLC.

For all eWON types excluding eWON1000, eWON2000, eWON4000

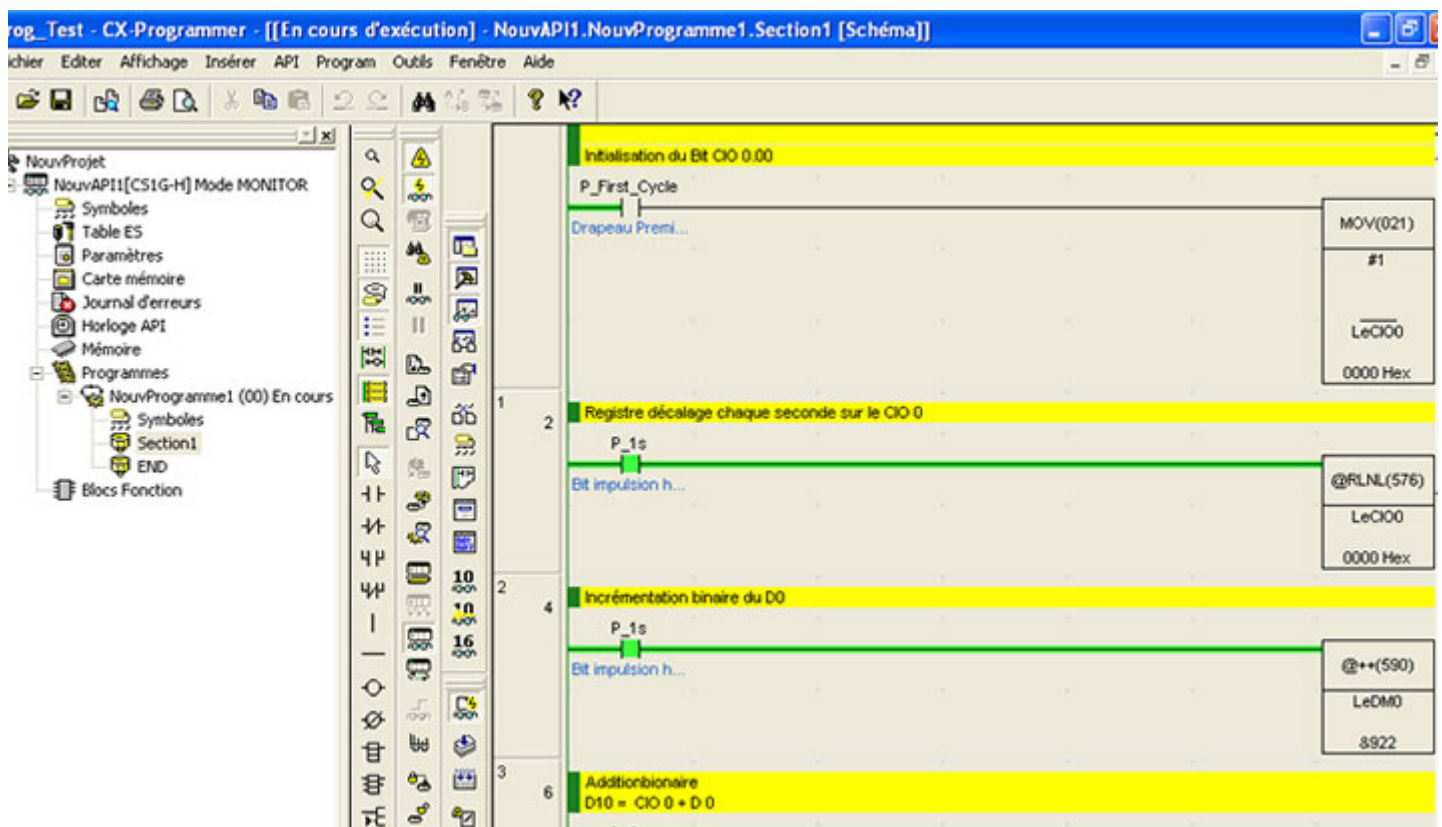
### 3.2 PLC Test program

Click the toolbar button [**Work Online**].

Once the mode of the PLC appears (e.g.: MONITOR), transfer the current program from the PLC and save it.

If you already have a program installed in the PLC, save it.

**Go offline** and create the following program:



Transfer the program from the PC to the PLC.

For all eWON types excluding eWON1000, eWON2000, eWON4000

## 4 eWON Configuration

### 4.1 eWON IP address configuration

In this section, we will show how to configure the eWON to access the PLC registers through an IO server configuration. The forwarding will be treated later.

#### Setting the eWON IP Address

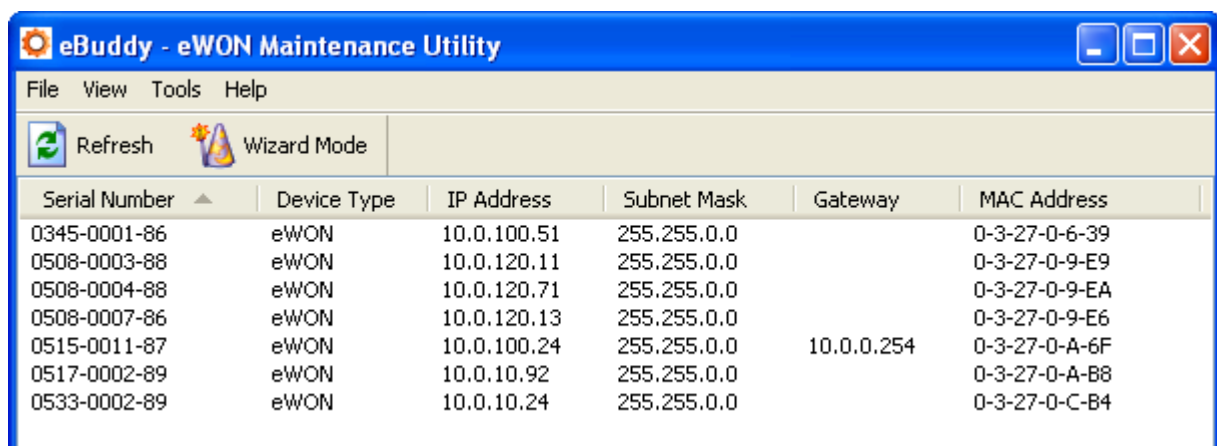
The eWON is configured through its web server\*. Right out of the box, the eWON has "10.0.0.53" as IP address. You can find the eBuddy utility on the eWON web site (<http://www.ewon.biz> (Support/Download Software)). This utility allows to find an eWON on the network and to change its IP address to match your LAN IP addresses range.

*\* It is also possible to configure the eWON by dropping into it a file using an FTP client, but this is a more complex process that is explained in the eWON User Guide.*

#### • Finding an eWON on the network with eBuddy

Launch eBuddy.exe and click CTRL+L to switch in list mode if not the case.

The list of the eWONs that are connected on the network then appears:



Serial Number	Device Type	IP Address	Subnet Mask	Gateway	MAC Address
0345-0001-86	eWON	10.0.100.51	255.255.0.0		0-3-27-0-6-39
0508-0003-88	eWON	10.0.120.11	255.255.0.0		0-3-27-0-9-E9
0508-0004-88	eWON	10.0.120.71	255.255.0.0		0-3-27-0-9-EA
0508-0007-86	eWON	10.0.120.13	255.255.0.0		0-3-27-0-9-E6
0515-0011-87	eWON	10.0.100.24	255.255.0.0	10.0.0.254	0-3-27-0-A-6F
0517-0002-89	eWON	10.0.10.92	255.255.0.0		0-3-27-0-A-B8
0533-0002-89	eWON	10.0.10.24	255.255.0.0		0-3-27-0-C-B4

#### • Setting the IP address from an eWON

If the eWON you want to set the IP address is in the list, just right-click on it, and select **Set IP Address** in the contextual menu (if the eWON is not in the list, then right-click in the blank area under the list):



**IP Address Wizard**

Welcome to the IP Address Wizard  
Which eWON would you like to configure?

Serial Number:

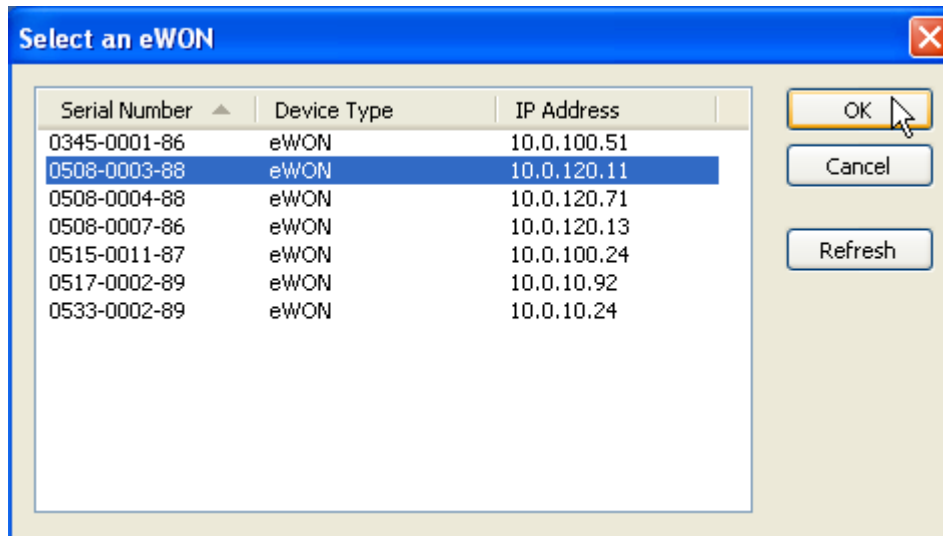
Administrator Login

Username:

Password:

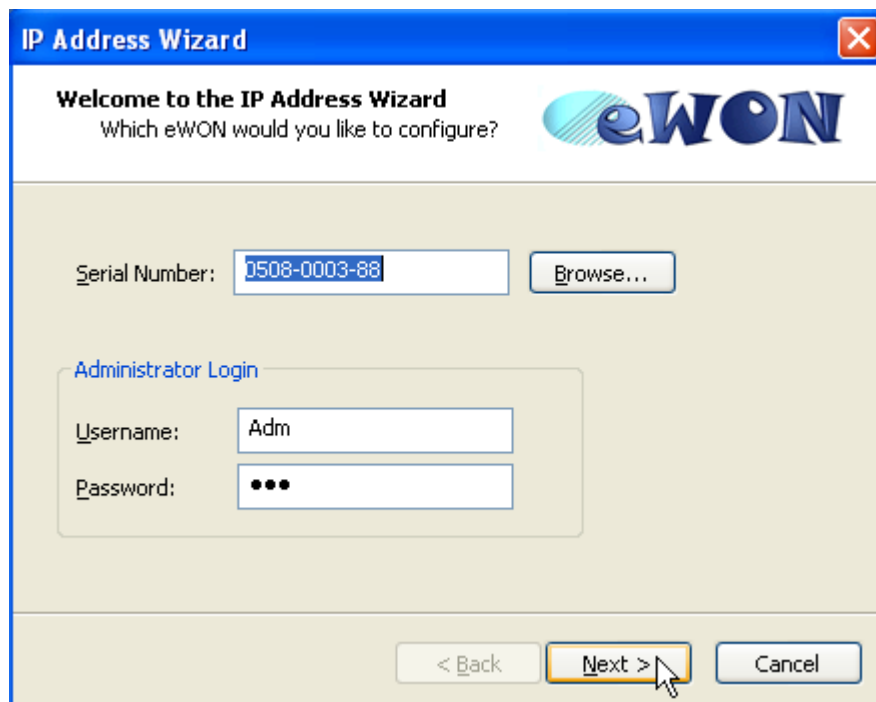
For all eWON types excluding eWON1000, eWON2000, eWON4000

Enter the eWON serial number in the **Serial Number** field if not yet done, or click on the **Browse** button. In this case, the dialog box below then displays:



Select the eWON of which IP address you want to modify and click **OK**.

You then come back to the previous wizard page, in which you must then enter the **Username** and **Password** fields that are required to connect to the eWON:



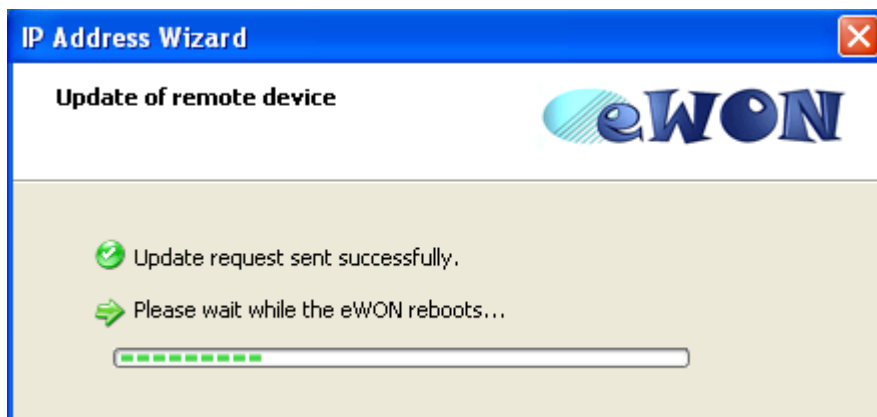
For all eWON types excluding eWON1000, eWON2000, eWON4000

Then click on **Next** and set the **IP Address** and **Subnet Mask**:



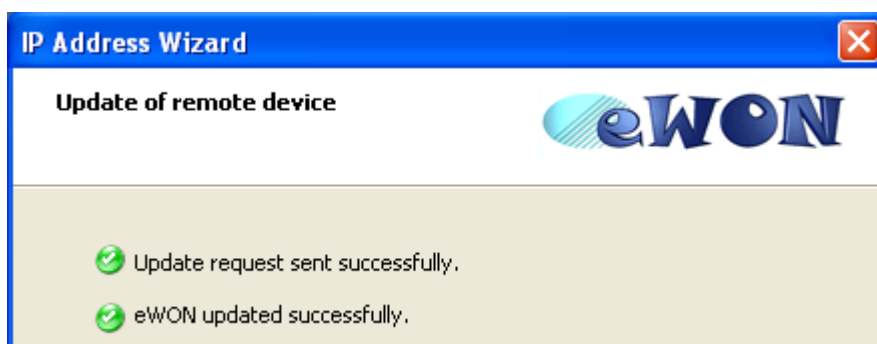
The IP Address Wizard dialog box has a blue title bar with the text "IP Address Wizard" and a close button. The main content area has a white header with the "eWON" logo and the text "IP Address Here you can specify the new IP settings". Below this, the "Serial Number" is displayed as "0508-0003-88". There are three input fields: "IP Address" with the value "10 . 0 . 120 . 11", "Subnet Mask" with "255 . 255 . 0 . 0", and "Gateway" with "0 . 0 . 0 . 0".

Then click on **Next** again to launch the update and wait for the eWON to reboot:



The IP Address Wizard dialog box shows the "Update of remote device" step. It features a green checkmark icon and the text "Update request sent successfully." followed by a green arrow icon and "Please wait while the eWON reboots...". A progress bar with several green segments is visible below the text.

When done, click on **Finish** to exit from the IP Address Wizard.



The IP Address Wizard dialog box shows the "Update of remote device" step. It features two green checkmark icons and the text "Update request sent successfully." and "eWON updated successfully."

Now your eWON should appear in the eBuddy list with the new informations you have entered.

For all eWON types excluding eWON1000, eWON2000, eWON4000

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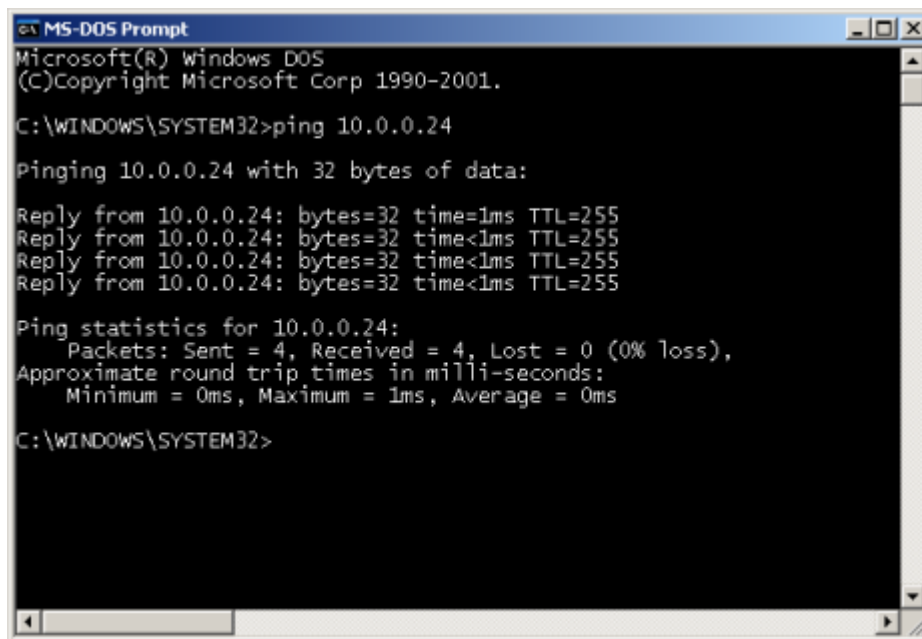
### Testing the eWON IP Address

To test that the IP address has been assigned successfully, open a command prompt and ping the eWON.

- Open a DOS command prompt and enter “ping <address>”

where <address> must be replaced by the newly assigned address.

If the address has been correctly assigned, you should see the Ethernet led of the eWON blinking and the following screen:



```
MS-DOS Prompt
Microsoft(R) Windows DOS
(C)Copyright Microsoft Corp 1990-2001.

C:\WINDOWS\SYSTEM32>ping 10.0.0.24

Pinging 10.0.0.24 with 32 bytes of data:

Reply from 10.0.0.24: bytes=32 time=1ms TTL=255
Reply from 10.0.0.24: bytes=32 time<1ms TTL=255
Reply from 10.0.0.24: bytes=32 time<1ms TTL=255
Reply from 10.0.0.24: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.0.24:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\WINDOWS\SYSTEM32>
```

Figure 2: Pinging the eWON

If, instead of a response time, you get a “request timeout” message, there is a problem and the steps must be reviewed.

For all eWON types excluding eWON1000, eWON2000, eWON4000

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## 4.2 eWON Web Site

We have assigned an IP address to the eWON, so we can reach its HTTP server to configure it. Open a Web browser and type the address you assigned to the eWON in the address bar (10.0.0.108 here). The following login page appears:



The screenshot shows the eWON login interface. At the top left is a small mobile phone icon. The eWON logo is centered at the top. Below it is a light blue header bar with the text 'eWON'. The main content area is light blue and contains a 'User Name:' label followed by a text input field, and a 'Password:' label followed by another text input field. Below these fields is the text 'Please enter your user name and password, then' followed by an 'Enter' button. At the bottom of the page is a dark blue footer bar with the text 'Your Eye Watching Over Net, by ACT'L'.

A pre configured *adm* user exists to allow the first configuration<sup>2</sup>.

**User name:** adm

**Password:** adm

**Enter**

The following page appears:



The screenshot shows the eWON main menu. On the left is the eWON logo and the text 'e-Collector'. To the right is a light blue navigation bar with several menu items: 'View I/O', 'Alarm Summary', 'Diagnostic', 'Configuration', 'Alarm History', 'Files Transfer', and 'Log off' (with a small icon). The 'Log off' item has a small icon next to it.

**User:** (Adm)

**Connection Date:** 16/06/2005 12:43:47

<sup>2</sup>The default password of the adm login **MUST** be changed for obvious security reasons. Refer to the User Guide for explanation on how to change a user password.

For all eWON types excluding eWON1000, eWON2000, eWON4000

## 4.3 FINS IO Server

Now that we have access to its web site, we will configure the eWON to connect to a FINS PLC.

The eWON embeds what is called *IO Servers*. Those servers are responsible of collecting the data on the PLCs and make them available for further usage. Once the eWON can interact with the PLC, the variables of the PLC will be available as Tags.

Connect the PLC serial port to the eWON serial port (by means of the XW2Z-200S-V or XW2Z-S002 cable -see chapter XW2Z-S002 cable between eWON and OMRON PLC - Pinout on page 23).

The IO servers are configured by using a specific web page you can reach by following the link:

**Configuration / IO Server Config**

The following web page appears:



Set **FINS** in the **IO Server** drop down box. The following page appears:

eWON FINS CONFIGURATION	
SETUP FOR eWON IO Server & Gateway	
<b>Gateway Configuration</b>	
Server port	<input type="text" value="9600"/> (default: 9600)
FINS TCP server node	<input type="text" value="1"/> (0..254, default: 1)
Routing Entry	FINS Destination Network: <input type="text" value="0.127.0.254"/> Relay Node: <input type="text" value="0"/> (0..127, 0..254)
Routing Entry	FINS Destination Network: <input type="text" value="0.127.0.254"/> Relay Node: <input type="text" value="0"/> (0..127, 0..254)
Routing Entry	FINS Destination Network: <input type="text" value="0.127.0.254"/> Relay Node: <input type="text" value="0"/> (0..127, 0..254)
<b>COM Setup</b>	
Baud Rate:	Disabled <input type="text" value="9600"/> (default: 9600)
Parity	Even <input type="text" value="EVEN"/> (default: EVEN)
Databits	7 <input type="text" value="7"/> (default: 7)
Stop Bit(s)	2 <input type="text" value="2"/> (default: 2)
HW Mode	Half Duplex <input type="text" value="full duplex no Handshaking"/> (default: full duplex no Handshaking)
Reply Timeout	<input type="text" value="50000"/> MS (50..50000, default: 000)
Ethernet FINS network	<input type="text" value="0.127.0.0"/> (0..127, default: 0)

For all eWON types excluding eWON1000, eWON2000, eWON4000

Set the **Baud Rate, Parity, Databits, Stop Bit(s)**, and **HW Mode** to 9600, Even parity, 7 data bits, 2 stop bits, *Full Duplex NO Handshaking*.

Set the **Reply Timeout** to 4000.

Check the **Enabled** box for topic **A**.

Set the **Protocol** to **Fins Serial**.

Set the **Global Device Address** to 0,0,2.

Set the **Polling Rate** of topic A at 3000.

**Update Config.**

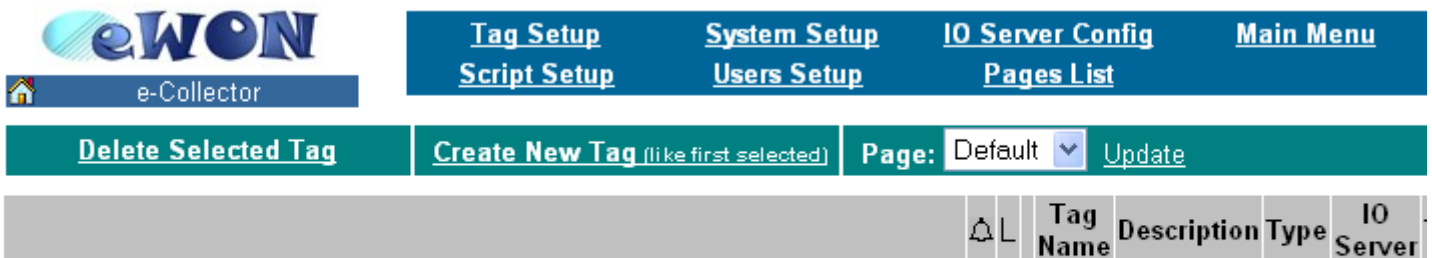
### 4.3.1 Checking the FINS connection

We will now create a Tag to read a variable on the PLC.

The creation of a Tag is done in the **Tag Setup** page.

**Configuration / Tag Setup**

The following page appears:



**Tag Setup**   **System Setup**   **IO Server Config**   **Main Menu**  
**Script Setup**   **Users Setup**   **Pages List**

**Delete Selected Tag**   **Create New Tag** (like first selected)   **Page:** Default   **Update**

Tag Name	Description	Type	IO Server
VARIABLES table is empty			

VARIABLES table is empty

Select **Create New Tag**

The **Tag Setup** page appears. The page is composed of four or six parts (depending on the eWON type) that allow you to configure the Tag configuration fields (such as the **Tag name** and **Tag Description**, The Tag **I/O Server Setup**, the **Tag visibility**,...).

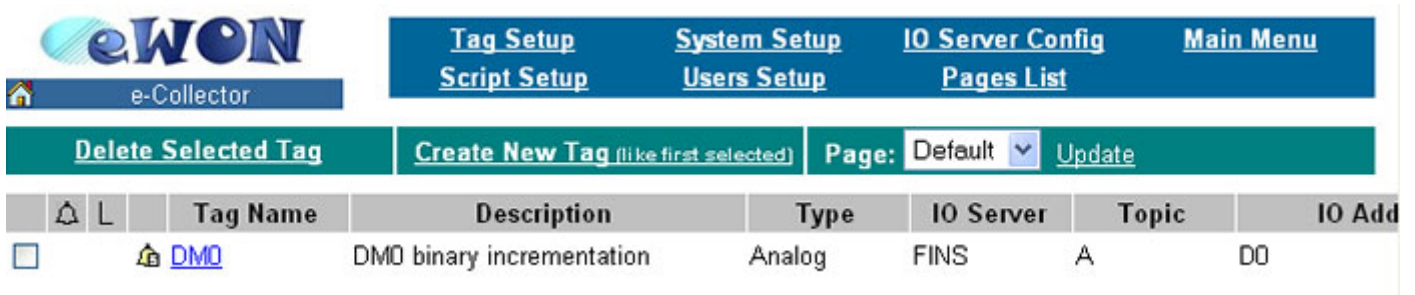
In this tutorial, we will only care about the Tag name and IO server.

For all eWON types excluding eWON1000, eWON2000, eWON4000

Tag Name:	<input type="text"/>	Page:	Default	<input type="button" value="v"/>
Tag Description:	<input type="text"/>			
<b>I/O Server Setup</b>				
Server Name:	MEM	<input type="button" value="v"/>	Topic Name:	<input type="text"/>
Address	<input type="text"/>	Type:	Analog	<input type="button" value="v"/>
			Force Read Only:	<input type="checkbox"/>
eWON value = IO Server Value * 1 <input type="text"/> + 0 <input type="text"/>				

Set the **Tag Name** to *DM0*.  
 Set the **Page** to *Default*.  
 Set the **Tag Description** to "*DM0 binary incrementation*".  
 Set the **Server Name** to *FINS*.  
 Set the **Topic Name** to *A*.  
 Set the **Address** to *D0*.  
 Set the **Type** to *Analog*.  
 Let the **eWON value** to *1* and *0*.  
**Add/Update Only.**

The following page appears:



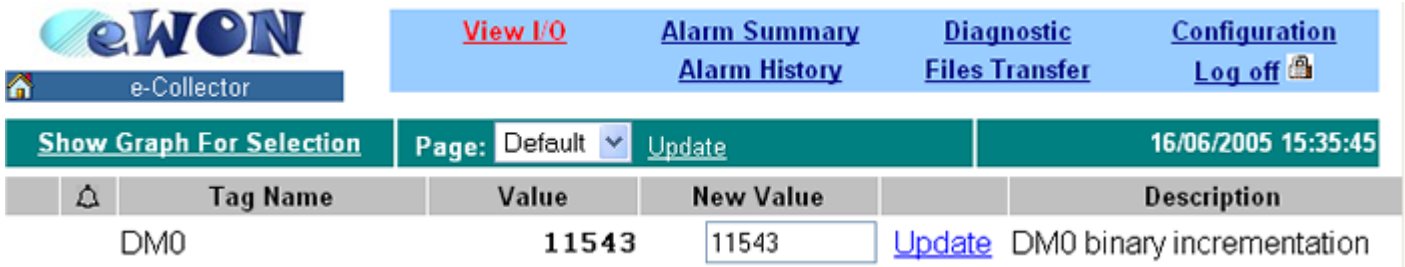
	Tag Name	Description	Type	IO Server	Topic	IO Add
<input type="checkbox"/>	DM0	DM0 binary incrementation	Analog	FINS	A	D0

Now that we have a Tag, we will check it's value:

**Main Menu / View I/O**

For all eWON types excluding eWON1000, eWON2000, eWON4000

The following page appears:



Tag Name	Value	New Value	Description
DM0	11543	11543	DM0 binary incrementation

Click **Update**. You should see the Tag value increasing.

## 5 FINS Gateway

The next step in the configuration is to set up the eWON and the CX Programmer to use the FINS gateway feature. The CX programmer software needs to use the Ethernet (FINS/TCP) driver.

The relay principle can be described as follows:

- The CX programmer software sends a FINS request using the FINS/TCP driver installed on the PC. The FINS destination network together with the FINS destination node identify uniquely the PLC to reach.
- The request is sent through TCP/IP with a destination address set to the eWON IP address.
- When a FINS/TCP request is received the eWON compares the FINS destination network address with the FINS network address of its serial interface. If it matches it fills the Host Unit ID with the FINS destination node -1. If it doesn't match the eWON scans its routing table entries to find a relay node and fills the Host Unit ID with the relay destination node -1. The encapsulated Hostlink FINS request is forwarded on its serial interface. When the reply comes back, the eWON forwards the answer to the FINS/TCP client.

### 5.1 eWON FINS gateway Configuration

Go back to the FINS IO Server setup page (**Configuration / IO Server Config / FINS**).

Set the **Server port** to 9600.

Set the **FINS TCP server node** to 1.

Set the **Serial FINS network** to 0.

Set the **Serial FINS node** to 0.

Save the configuration.

For all eWON types excluding eWON1000, eWON2000, eWON4000

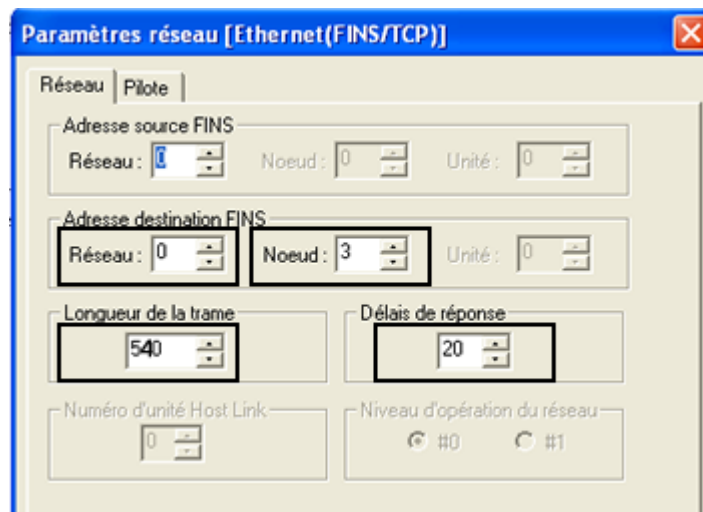
## 5.2 CX Programmer Configuration

Inside the CX Programmer **Go Offline**.

Select the Project PLC, right click on the mouse and select **Change**.

Select **Ethernet FINS/TCP** as network type and select the network type settings.

The following window will pop up:



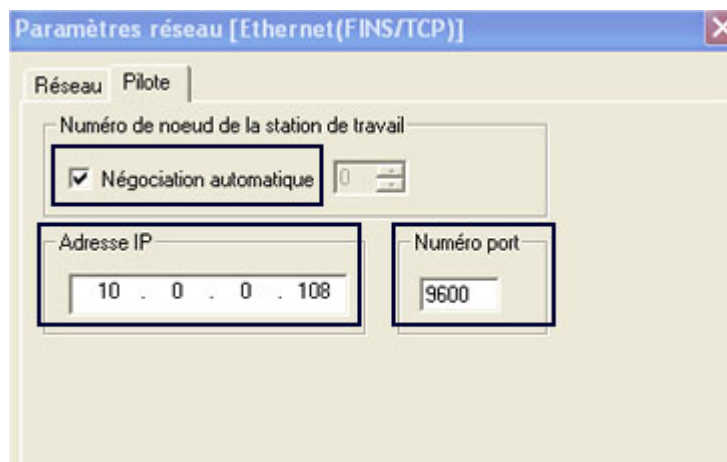
Set the **Destination Node** to 3 (matching **Hostlink Unit** is 2).

Set the **Destination Network** to 0 (same as **FINS Serial Network**).

Set the **Max Frame Length** to 540. Set **Answer Timeout** to 20.

Select **Driver** menu.

The following window will pop up:



Select **Automatic Negotiation**.

Set the **IP Address** to the eWON Ethernet IP address (e.g.: 10.0.0.108).

Set the **TCP Server Port** to 9600.

For all eWON types excluding eWON1000, eWON2000, eWON4000

## 6 Remote Collaboration

Click the toolbar button [**Work Online**]. Transfer the Program from the PLC to the PC.

### 6.1 Remote Collaboration with Direct Phone Connection

In this section, we will set up a remote collaboration using a PPP link established between the PC and the eWON. Some changes are needed in the eWON to act as a PPP server and even also on the PC to set up the correct routing tables.

#### 6.1.1 eWON PPP Configuration

The eWON PPP configuration is reached on the web site (starting from the main page, see above) following the link:

**Configuration / System Setup / Communication / Dial Up (PPP)**

On this page, the sections **Global Dialup Config** and **Incoming Calls Config** contain any information we need. The sections are the one shown below:

DIAL UP CONFIGURATION	
<b>Global Dialup Config</b>	
Call direction allowed	Incoming only <input type="button" value="v"/>
Use incoming for outgoing	<input type="checkbox"/> Use connected client connection (if any) for outgoing operations
<b>Incoming Calls Config</b>	direction allowed must be 'Incoming' or 'Both'
Idle time before hanging up	240 <input type="text"/> seconds (min. 60 sec.)
Enable compression	<input checked="" type="checkbox"/>
eWON PPP server IP address	202.0.0.240 <input type="text"/>
eWON PPP server IP mask	255.255.255.0 <input type="text"/>
eWON PPP server gateway	0.0.0.0 <input type="text"/>
PPP client allocated IP address	202.0.0.1 <input type="text"/>

Set the **Call direction allowed** to **Incoming Only**.

Set the **PPP server IP address** to 202.0.0.240.

Set the **PPP server IP mask** to 255.255.255.0.

Set the **PPP server gateway** to 0.0.0.0 (no packet forwarding to another network).

Set the **PPP client allocated IP address** to 202.0.0.1.

Press **Update Dialup Setup**.

For all eWON types excluding eWON1000, eWON2000, eWON4000

### 6.1.2 CX Programmer Driver Configuration

The IP address of the remote host must be set to the eWON PPP server IP address (on the previous figure, this is 202.0.0.240).

Inside the CX Programmer **Go Offline**.  
 Select the Project PLC, right click on the mouse and select **Change**.  
 Select the **Network Type Settings**.  
 Change the IP address on the remote host to 202.0.0.240.

### 6.1.3 Starting the Remote Collaboration

Call the eWON with the username *adm* and the password *adm* and wait for the connection to be established, this step can take up to a minute.

To test the connection, you can ping the eWON at its address 202.0.0.240.

Click the toolbar button [**Work Online**]. Transfer the Program from the PLC to the PC.

The PLC is now accessible as if you were directly connected to it.

## 6.2 Remote Collaboration through Internet

In the previous section, the IP address of the eWON was known at connection time. If the eWON is used with callback to connect to Internet, the IP address allocated to the eWON is assigned by the ISP and is usually different at each connection. We must therefore ask the eWON to publish its IP address after it has been assigned by the ISP so that we can configure the CX Programmer Ethernet FINS/TCP driver to use that address.

### 6.2.1 ISP Configuration

The ISP phone number, login and password must be configured to allow the eWON to connect to Internet. This is done in the **Dial up (PPP)** section we have already seen before:

DIAL UP CONFIGURATION	
<b>Global Dialup Config</b>	
Call direction allowed	Incoming only <input type="button" value="v"/>
Use incoming for outgoing	<input type="checkbox"/> Use connected client connection (if any) for outgoing operations

Set the **Call direction allowed** to **Incoming & Outgoing**.



# FINS Gateway For OMRON PLCs

TN 26

ver 1\_2

10/26/05

For all eWON types excluding eWON1000, eWON2000, eWON4000

<b>Outgoing Calls Config</b>	direction allowed must be 'Outgoing' or 'Both'	
Dial-out timeout	180	seconds
Idle time before hanging up	900	seconds (min. 60 sec.)
Delay between dialout retry	90	seconds
Max outgoing call duration	60	minutes (0 for no limit)
Hang up if no outgoing action after	-1	minutes (if -1 hangup occurs after "idle time")
Enable compression	<input checked="" type="checkbox"/>	
Require secure authentication (CHAP)	<input type="checkbox"/> (otherwise allow PAP - send your password as clear text)	
<b>Primary Server</b>		
Server Phone Number	GPRS	(Or phone number = GPRS)
User Name		
Password		
<b>Secondary Server</b>	Leave blank if not defined	
Server Phone Number		(Or phone number = GPRS)
User Name		
Password		

Depending on your ISP, other parameters like **Compression** or **CHAP** could be necessary.

Enter the **Server Phone Number**, **User Name** and **Password** provided by your ISP in the **Primary Server**.

Let the **Secondary Server** fields empty.

For all eWON types excluding eWON1000, eWON2000, eWON4000

## 6.2.2 PPP IP Address Publishing

We will use the easiest way to publish an IP address: an Email. For this, we need to configure a SMTP server and an address where to send the information.

The SMTP server configuration is found in the **Main Setup** menu from the eWON.

Log into the eWON if not already done.

**Configuration / System Setup / General / Main/General.**

A long page appears with a section named **EMAIL Config**, the following figure only shows the section of interest:

EMAIL Config		Configure Mail Transfert
SMTP Server Address:	<input type="text"/>	Usually something like smtp.domain.com or mail.domain.com (can be an IP address)
SMTP Server Port:	25 <input type="text"/>	The default value is 25. It must only be changed in very special cases.
Email "From" User name :	<input type="text"/>	this will be used to send eMails, it must be compatible with your account name on the SMTP server.

Enter the **SMTP Server Address** (an URL or an IP address).

Enter the **SMTP Server Port**.

Enter the **Email "From" User name**, compatible with your ISP (e.g.: username@provider.com).

Press **Update Config** (a message appears telling that your configuration has been saved successfully).

The address publishing is a built-in facility of the eWON. The configuration of the Email address where to send the Email containing the address is therefore directly configured into the **Callback** section.

**COM Setup / Callback**



# FINS Gateway For OMRON PLCs

TN 26

ver 1\_2

10/26/05

For all eWON types excluding eWON1000, eWON2000, eWON4000

The following page appears:

CALLBACK CONFIGURATION	
<b>General Callback Config</b>	
Callback <b>Enabled</b>	<input type="checkbox"/> ('Outgoing' calls must be enabled in Dialup configuration)
Callback delay	5 <input type="text"/> seconds
Wait for user login for	0 <input type="text"/> seconds
Dialup account	Primary dialup server <input type="button" value="v"/> (User callback is valid only if 'On User's request mode is selected)
Select one callback method: RING or USER'S REQUEST	
<b>Callback on RING</b>	<input checked="" type="radio"/> Callback occurs when RING is detected
Number of RINGS	3 <input type="text"/> (minimum 2)
Plus number of RINGS then On Hook	5 <input type="text"/> (minimum 5)
<b>Callback on USER'S REQUEST</b>	<input type="radio"/> User must log on and request callback
<b>IP address publishing</b>	
Publish IP address EMail	<input type="text"/> (Empty means no address publishing by Email)
No-Ip Username (see <a href="http://no-ip.com">http://no-ip.com</a> )	<input type="text"/> (Empty means no address publishing by No-Ip)
Dynamic DNS password	<input type="text"/>
Dynamic DNS Host name	<input type="text"/>
Dynamic DNS Domain name	<input type="text"/>
<b>Calls Budget management</b>	See Dialup configuration

Check the **Enabled** box.

Enter your Email address in the field **Publish IP address Email**.

Press **Update Callback Setup**.

### 6.2.3 Starting the Remote Collaboration

Call the eWON and let ring four times, then hang up.  
The eWON calls back the ISP, connects itself to Internet and sends an Email with its IP address.

You will receive an Email named "eWON callback" looking like the following one:

```
This Email has been generated automatically by
following a CALLBACK
eWON: eWON

*** EWON Description:

*** Online TCP/IP addressse
PPP:      http://62.4.145.128
```

We need to configure the OMRON Ethernet TCP FINS driver with the address we received in the Email:

Inside the CX Programmer:  
Select the Project PLC, right click on the mouse and select **Change**.  
Select the **Network Type Settings**.  
Change the IP address on the remote host to the address that has been mail-published by the eWON.  
Click the [**Work Online**] button in the toolbar.

