



Training

1	PREPARING THE WORKBENCH.....	2
1.1	INSTALLING THE eTICE SOFTWARE WORKSHOP.....	2
1.2	CABLING.....	3
1.3	CONFIGURE THE NETWORK ETHERNET ADAPTER OF THE LAPTOP.....	5
2	CONFIGURING THE MILLENIUM 3 DEVICE.....	7
2.1	CONFIGURING HARDWARE.....	7
2.2	EDITING A PROGRAM	10
2.3	TRANSFER THE PROGRAM AND START CONTROLLER	11
3	CONFIGURING THE WEB SERVER.....	12
3.1	CREATING A NEW PROJECT, CONFIGURING HARDWARE AND DECLARING CONNECTED MILLENIUMS .	12
3.2	BUILDING THE MONITORING WEBPAGES	14
4	ARCHIVING	26
4.1	WEBSERVER CONFIGURATION	26
4.2	ERASING THE ARCHIVE FILE.....	28
4.2.1	From the Webpage.....	28
4.2.2	From eTiceSoft.....	28
4.3	DOWNLOADING THE ARCHIVE FILE	29
4.3.1	With eTiceSoft	29
4.3.2	With an other FTP Client software (any freeware).....	30
4.3.3	Changing the FTP Server connection parameters	33
4.4	USING THE SYSTEM HISTORY ARCHIVE FILE (LOGFILE.TXT)	34
5	MODBUS REDIRECTION AND MANAGEMENT	35
5.1	CONFIGURE THE WEB SERVER.....	35
6	USING A STN OR GPRS MODEM	37
6.1	CONFIGURING THE MODEM IN THE eTICE SOFTWARE PROJECT.....	37
6.2	USING THE PPP CLIENT WITH GPRS MODEM	38
6.3	USING THE PPP SERVER	41
7	SENDING MAILS AND SMS.....	49
8	USING DYNDNS.....	50
8.1	CREATING DYNDNS ACCOUNT	50
8.2	CONFIGURING THE WEB SERVER'S DYNDNS CLIENT.....	54

1 Preparing the Workbench

You are about to use the WebServer, to do this, you need at least:

- The Millenium II or Millenium 3 Workshop software with cable to program the device
- A Millenium 3 XD10 or XD26 with XN03 or XN06 MODBUS Extension Module
- A WebServer with a cross wired RJ45 Cable and A RJ45 to 3 Wire cable
- The SoftWare eTiceSoft
- A PC running Windows NT,98,2000, XP, XP Pro or VISTA

1.1 installing the eTiceSoft Workshop

If you have a previous version of eTiceSoft is installed on your PC, You have to uninstall it:



Then insert the CD Millenium II WebServer and after auto run, click on Install the eTiceSoft software.

First, the installer tries to install the XC10 module extension list entry for Millenium II devices in the Install dir of CLS M2 software. This is useful when using a Millenium II.

Notice that with Millenium 3 Devices, this operation is not needed.

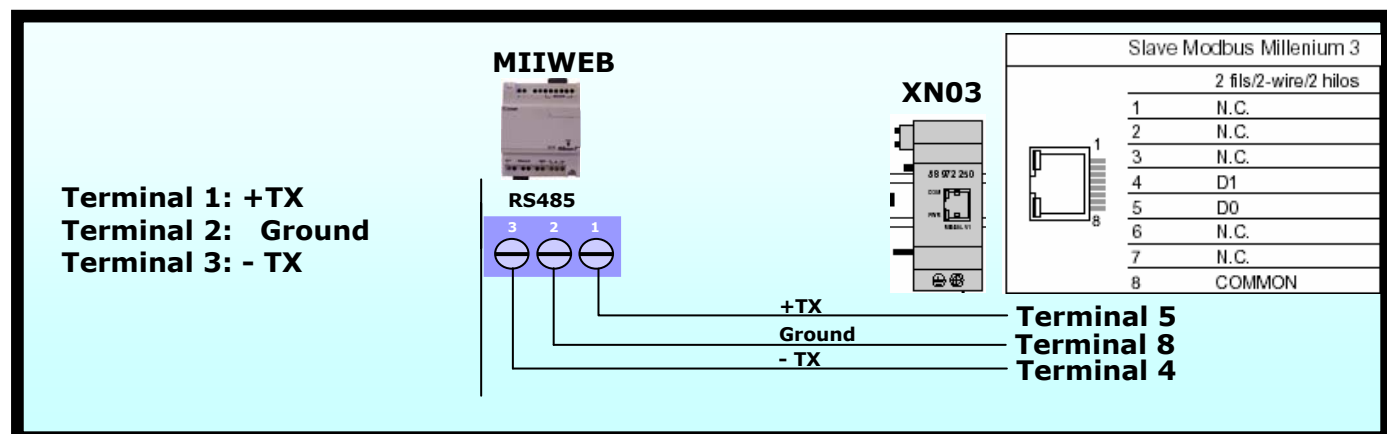
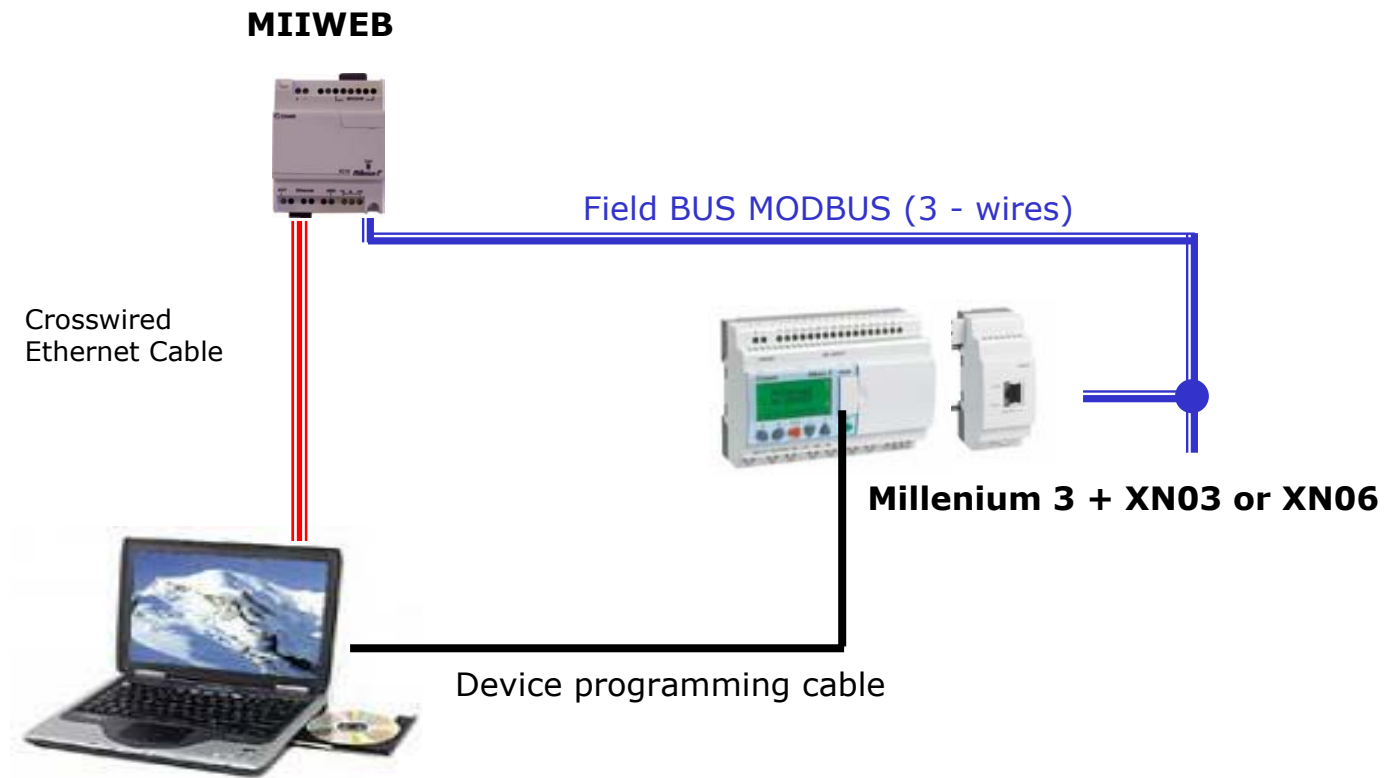
Then the install program continues with the installation of eTiceSoft software itself, then you'll have to select the main directory of the software (e.g.: c:\program files\)

The installation continues.

Then it installs the Macromedia Flash Player version 7 (other version are possible) to enable your Web Browser to read these files (used for monitoring pages in the Web Server).

1.2 Cabling

Here's a schematic view of your workbench:



MODBUS Master web server

3-wire shielded cable

MODBUS Slave

Millenium + XC04 MODBUS Slave

Millenium 3+ XN03 MODBUS Slave

MODBUS Slave

MODBUS Slave

MODBUS Slave

MODBUS master web server

DEM Link

TCP/IP Network

Connection rack

TCP/IP Network

Laptop with TCP/IP network card

i PC TCP/IP network card

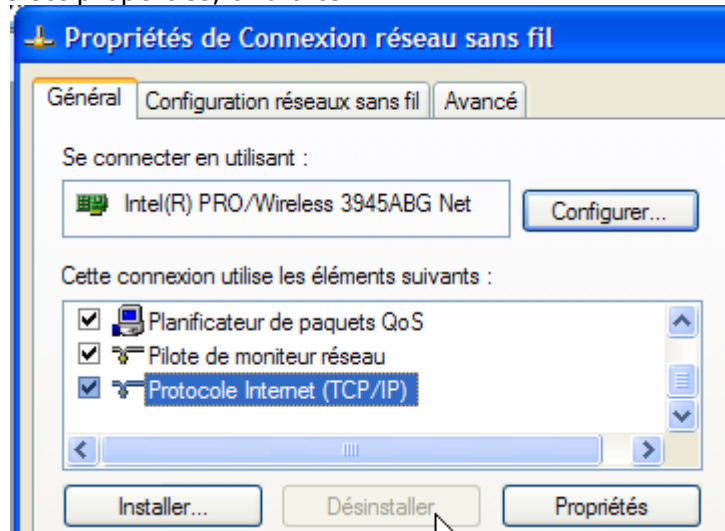
Internet

1.3 Configure the Network Ethernet adapter of the laptop

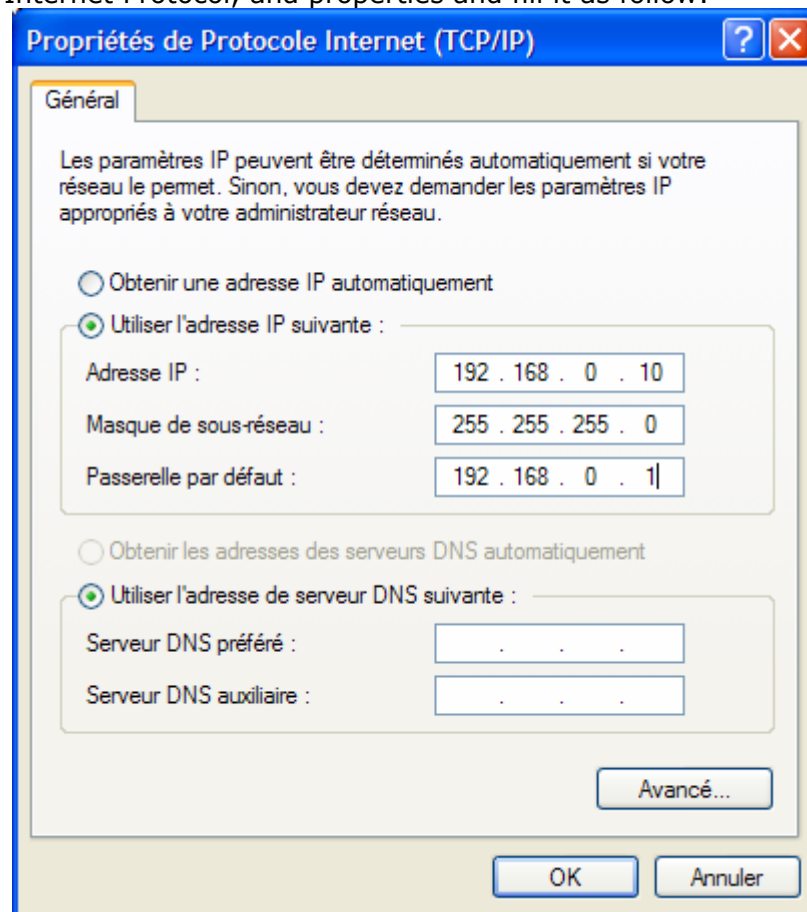
Open the IP configuration of the PC:

SART/Connections/Display all the connections and select your Network adapter (WiFi or LAN)

With right click, select properties, and after:



Select TCP/IP Internet Protocol, and properties and fill it as follow:



By default, the WebServer has these parameters:

IP Address: 192.168.0.4

NetMask: 255.255.255.0

Gateway: 192.168.0.1

So your PC needs to have IP settings for the same LAN.

One other difficulty with the WebServer is of course, firewall of the PC or/and antivirus software.

Then deactivate them during this manipulation or open the following ports used by eTiceSoft to exchange data with WebServer:

TCP Ports:

21 (FTP), 23(TELNET), 80 (HTTP), 53 (DNS)

UDP Ports:

8001(Config Server and auto scan)

2 Configuring the Millenium 3 Device

2.1 Configuring hardware

Open the Millenium 3 Software:

Procedure :

1 – Click on « New »



2 – Click on the image « Millenium 3 **XD26** or **XD10** »
 3 – Choose the Millenium 3 reference in the list

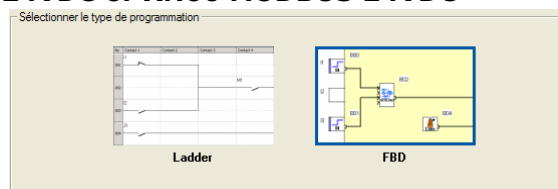
Type	Référence	Entrées	Sorties
XD26 24VDC	88970161	10 TOR + 6 (0-10V)	10 RELAIS
XD26S 24VDC	88970162	10 TOR + 6 (0-10V)	10 TOR STATIQUE
XD26 24VAC	88970164	16 TOR	10 RELAIS
XD26 230VAC	88970163	16 TOR	10 RELAIS
XD26 12VDC	88970165	10 TOR + 6 (0-10V)	10 RELAIS

4 – Select the « **XN** » adjacent extension needed

Type	Référence	Entrées	Sorties
XN03 24VDC	88970250	4 DISCR	4 INTEGRA
XN05 24VDC	88970270	8 INTEGRA	8 INTEGRA
XA04 24VDC	88970241	2 ANALOG 10 BITS	2 ANALOG 10 BITS
XE 10 24VDC	88970321	6 DISCR	4 OUTPUTS
M3MOD	88970117	AUCUN	AUCUN
XA03 24VDC	88970800	3 PT100 -25 A +125°C	0
XN06 24VDC	88972250	8 INTEGRA	8 INTEGRA

Type	Référence	Entrées	Sorties
XN03 24VDC	88970250	4 TOR	2 RELAIS
XN05 24VDC	88970270	8 TOR	4 RELAIS
XN06 24VDC	88972250	8 TOR	4 RELAIS
XA04 24VDC	88970241	2 ANALOG 10 BITS	2 ANALOG 10 BITS
XE 10 24VDC	88970321	6 TOR	4 SORTIES
M3MOD	88970117	AUCUN	AUCUN

5 – Click on « **XN03 MODBUS 24VDC** or **XN06 MODBUS 24VDC** »



6 – Click on « **add** » to validate the configuration and « **next** »

Select MODBUS Format (MODBUS RTU 2 wires needed with the WebServer)

Select a parameter:

- Number of wires and format
- Speed in bauds
- Parity
- Modbus slave address

Parameters

2 wires, RTU

Select Baudrate

Select a parameter:

- Number of wires and format
- Speed in bauds
- Parity
- Modbus slave address

Parameters

19200

Parity

Select a parameter:

Number of wires and format
Speed in bauds
Parity
Modbus slave address

Parameters

☒ None

☐ Even

☐ Odd

And MODBUS Slave Address (unique on the field bus!)

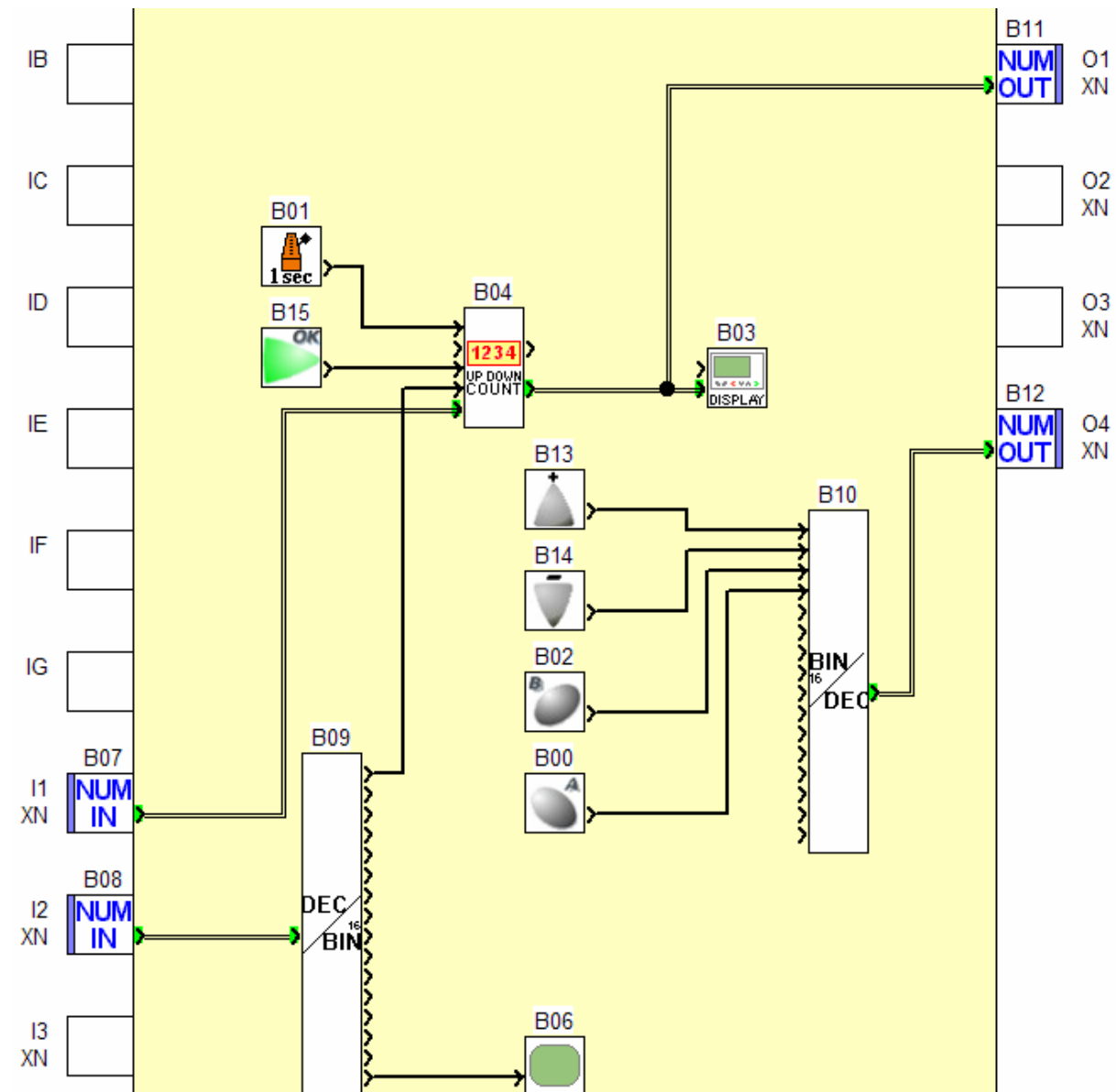
Select a parameter:

Number of wires and format
Speed in bauds
Parity
Modbus slave address

Parameters

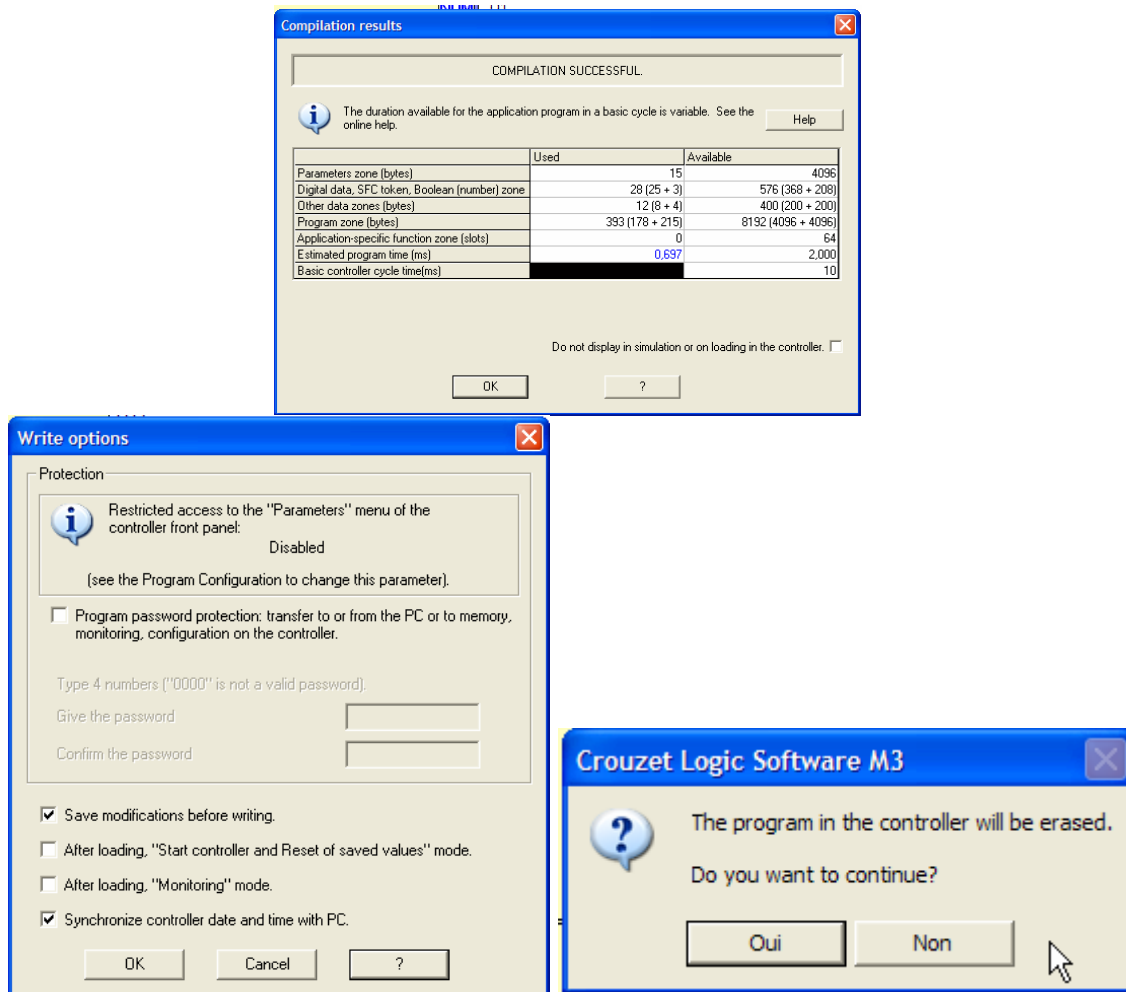
2.2 Editing a program

In our example, we will use the following diagram (edit it):

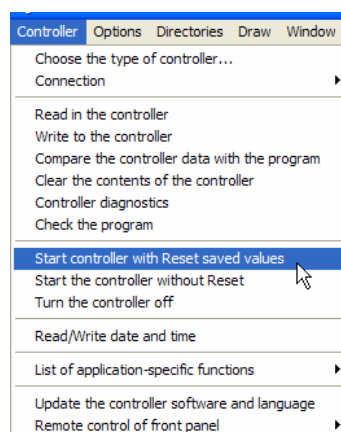


XN03 parameters:
2 wires RTU
19200 bauds
No parity
Slave address: 1

2.3 Transfer the Program and start controller



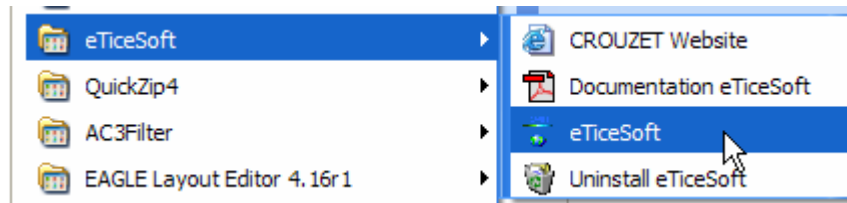
Then start the controller:



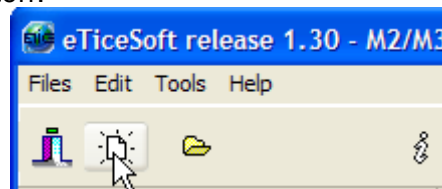
3 Configuring the Web Server

3.1 *Creating a new project, Configuring Hardware and declaring connected Milleniums*

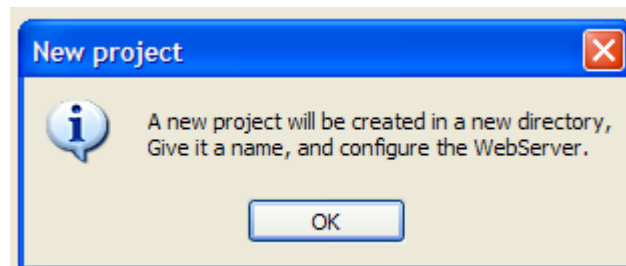
Start eTiceSoft workshop:



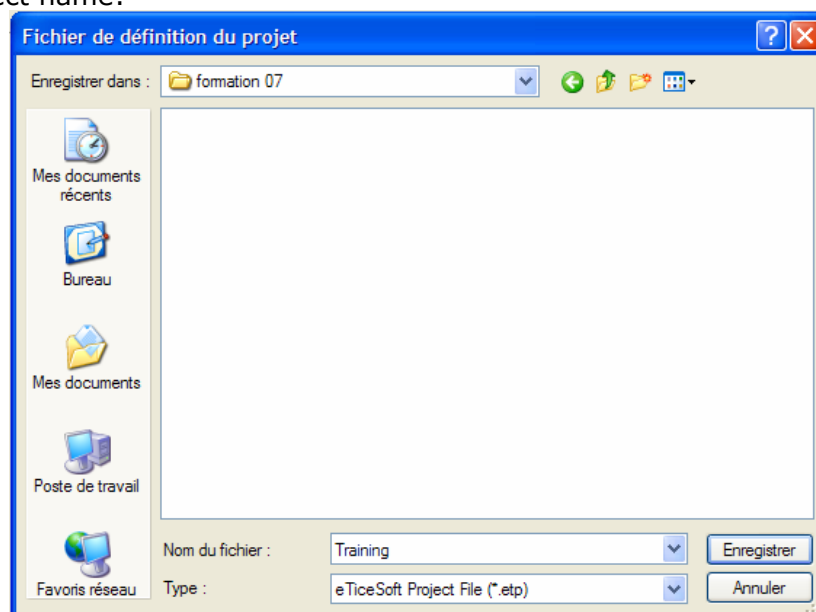
Then click on New Project icon:



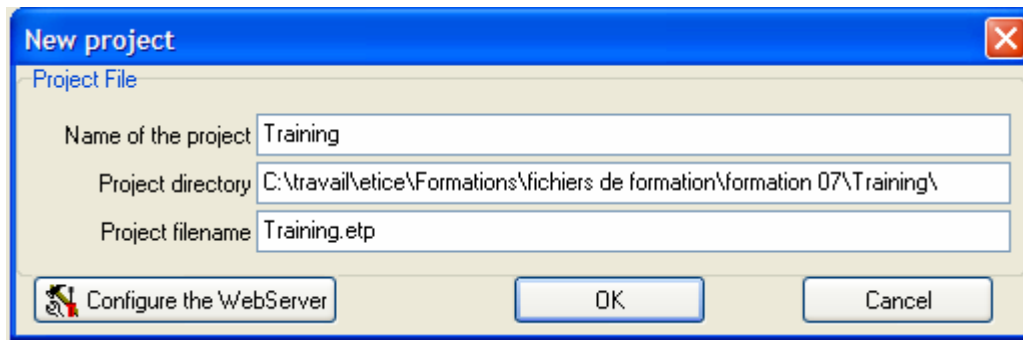
An information Box appears to inform you to name a new directory



Give the project name:



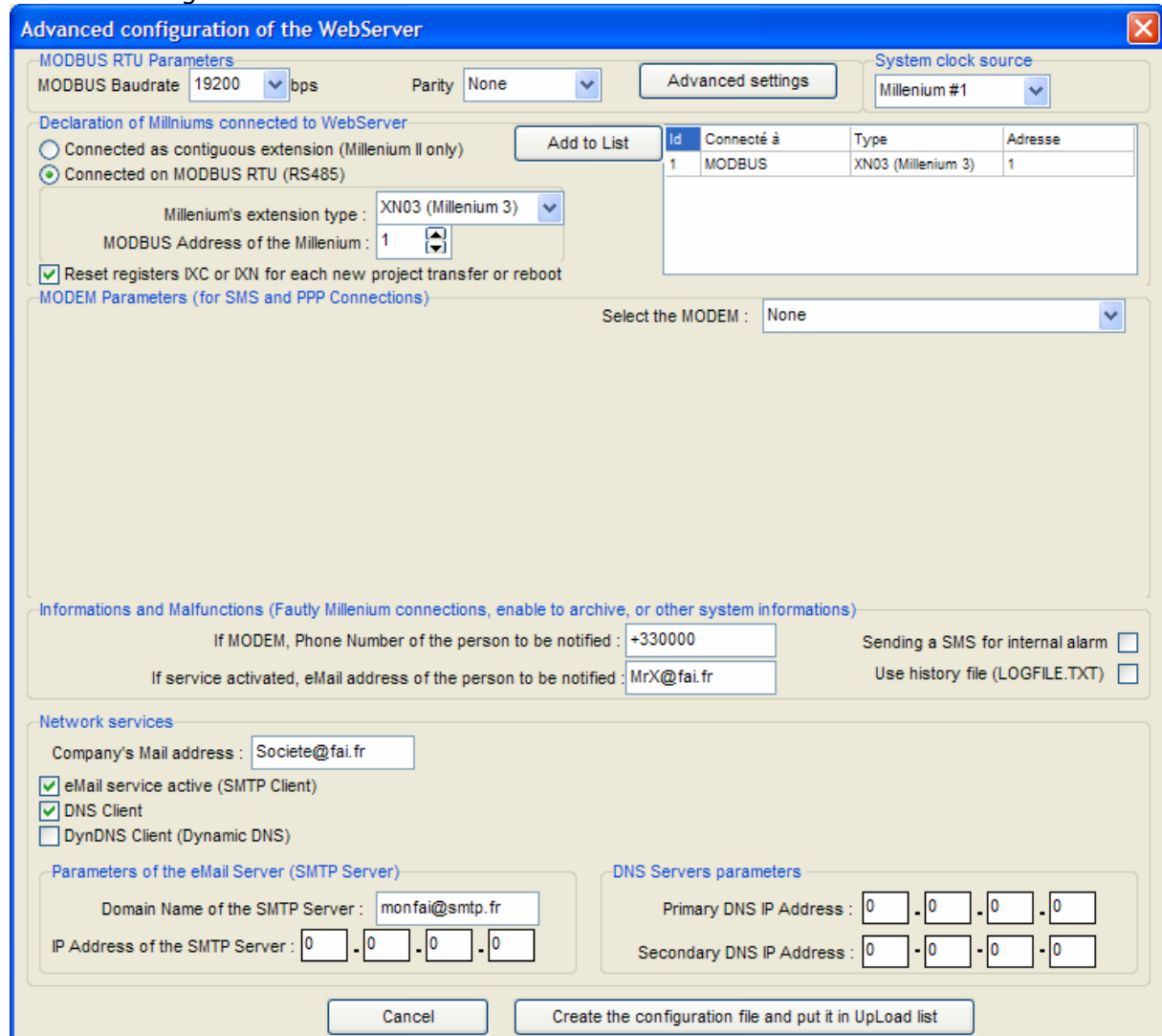
The following window then appears:



The 'New project' dialog box contains the following fields and buttons:

- Name of the project:** Training
- Project directory:** C:\travail\etice\Formations\ fichiers de formation\formation 07\Training\
- Project filename:** Training.etp
- Buttons:** 'Configure the WebServer' (with a small icon), 'OK', and 'Cancel'.

Click on configure the WebServer:



The 'Advanced configuration of the WebServer' dialog box is divided into several sections:

- MODBUS RTU Parameters:** MODBUS Baudrate: 19200 bps, Parity: None. Includes an 'Advanced settings' button.
- System clock source:** Millenium #1.
- Declaration of Milleniums connected to WebServer:**
 - Radio buttons: 'Connected as contiguous extension (Millenium II only)' and 'Connected on MODBUS RTU (RS485)' (selected).
 - Buttons: 'Add to List' and a table.
 - Table with columns: Id, Connecté à, Type, Adresse.

Id	Connecté à	Type	Adresse
1	MODBUS	XN03 (Millenium 3)	1
 - Fields: 'Millenium's extension type' (XN03 (Millenium 3)), 'MODBUS Address of the Millenium' (1).
 - Checkbox: 'Reset registers IXC or IXN for each new project transfer or reboot' (checked).
- MODEM Parameters (for SMS and PPP Connections):** Select the MODEM: None.
- Informations and Malfunctions (Faulty Millenium connections, enable to archive, or other system informations):**
 - Fields: 'If MODEM, Phone Number of the person to be notified' (+330000), 'If service activated, eMail address of the person to be notified' (MrX@fai.fr).
 - Checkboxes: 'Sending a SMS for internal alarm', 'Use history file (LOGFILE.TXT)'.
- Network services:**
 - Field: 'Company's Mail address' (Societe@fai.fr).
 - Checkboxes: 'eMail service active (SMTP Client)' (checked), 'DNS Client' (checked), 'DynDNS Client (Dynamic DNS)'.
 - Parameters of the eMail Server (SMTP Server):** 'Domain Name of the SMTP Server' (monfai@smtp.fr), 'IP Address of the SMTP Server' (0.0.0.0).
 - DNS Servers parameters:** 'Primary DNS IP Address' (0.0.0.0), 'Secondary DNS IP Address' (0.0.0.0).

Buttons at the bottom: 'Cancel' and 'Create the configuration file and put it in UpLoad list'.

Then add the Millenium 3 with its XN03 at slave address 1.
Then create the file and put it in the Upload list.
(Other parameters will be used later)

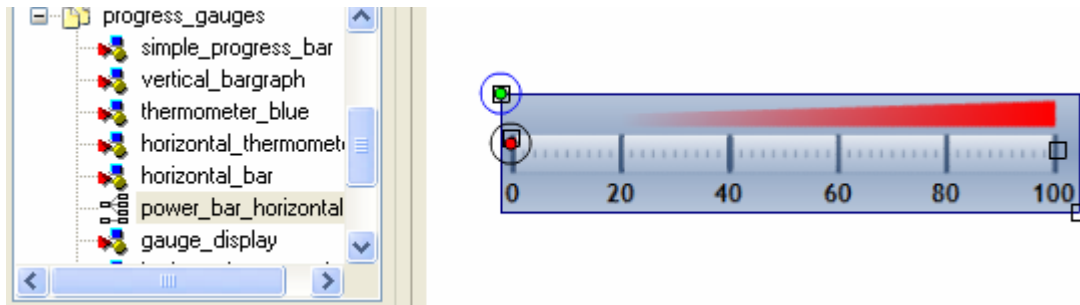
After it we're back to New Project manager, and then press OK.
Now we can build our monitoring pages, using the eTiceSoft WebPages editor.

3.2 Building the monitoring WebPages

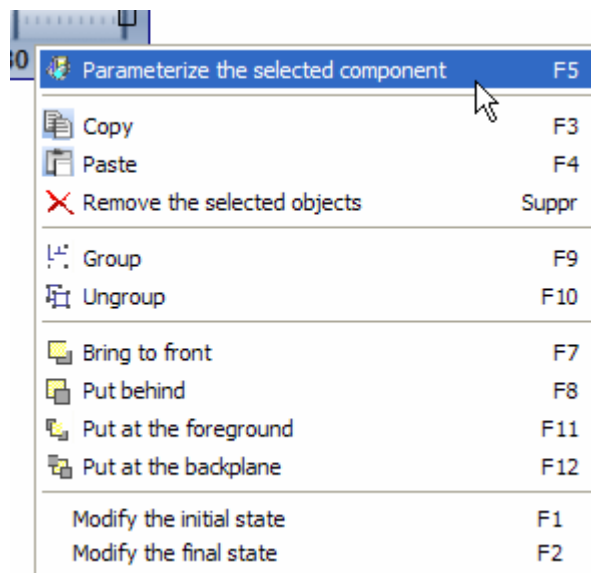
According to our Millenium3 program we will put several graphic objects to control or visualise some parameters.

In our example, the Counter value will be shown in as text value and with a progress bar like it:

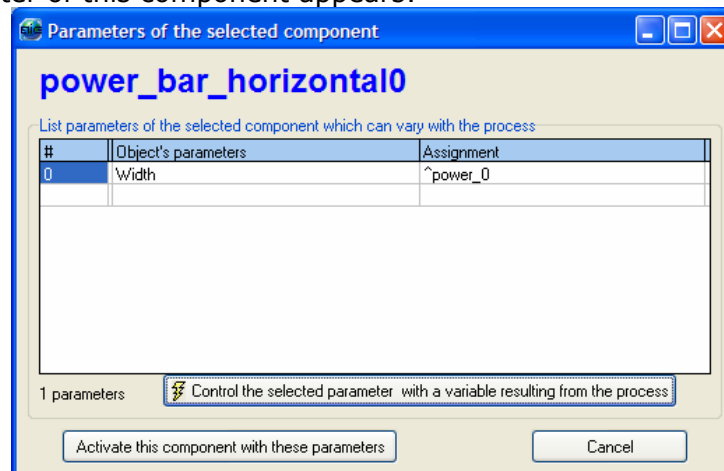
- In the progress gauges library, select the Power_bar_horizontal (double click)



Then click on the object with right button and select the item



Then the parameter of this component appears:



This power bar just has one parameter in the list called Power_0 witch is changing the width size of an object (here a red rectangular object showing power).

Select the line of this parameter and click on the "Control the selected parameter":

The counting value is in the 01XN MODBUS word register of the Millenium 3, so will get it to show the power.

We'll say that this value can be in the range 0 to 1000.

Then select following parameters:

Selection of Process Data

Source of the variable

☒ The Variable results from Millenium (Adjacent or connected to MODBUS)
☐ The Variable comes from another MODBUS Slave
☐ This Variable must a property of a component

1) Millenium 3 - XN03 - MODBUS Address:1

Communication BUS : MODBUS

Millenium Slave Address : 1

Data type : ☒ Word (-32768...32767)
☐ Bit

Millenium Reference : 0 1XN

Behavioral Parameters of the variable

Limits and display settings

0 < Data Value < 1000

Operation : Read

Mnemonic for the Variable :

Apply Close

And we'll do a read operation because the WebServer is reading the value from the Millenium 3 to set the PowerBar width.

Then select apply.

Then press "activate this component with these parameters" to save the configuration of this component.

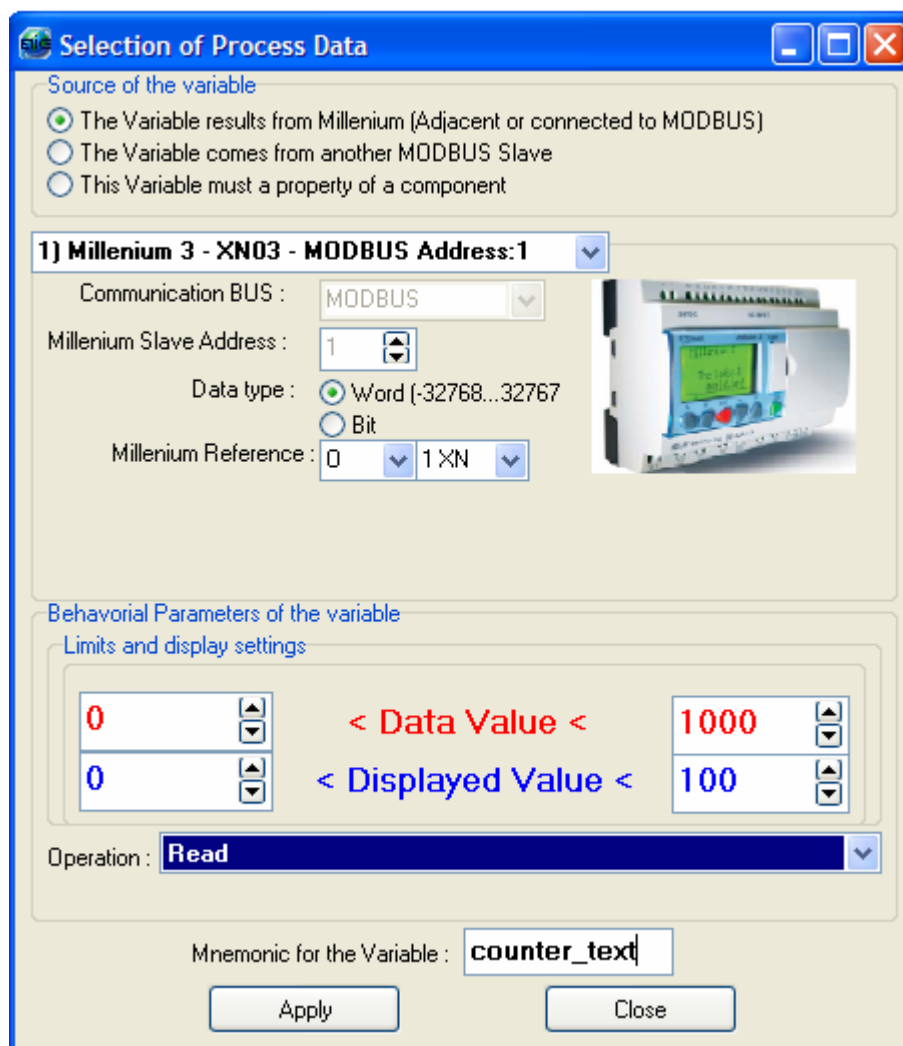
- Notice: Mnemonic is optional and will be automatically fill by the SoftWare with a value if not used.

In the Gauges-Display library, select a Display (double click)



In this object we will put the current Value of the Counter with down scale:
Counter value range: 0 to 1000
Display value range: 0 to 100

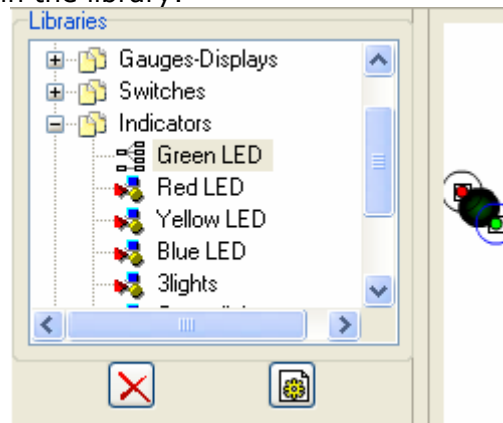
Then we have to select following parameters:



Then press "apply" button and then press "activate this component with these parameters" to save the configuration of this component.

Now let us show the Millenium 3 Buttons status (+/-/B/A) with LEDs!

Select LEDS components in the library:



- ✓ A green led for + (bit 0 of O4XN)
- ✓ A red led for - (bit 1 of O4XN)
- ✓ A yellow led for B (bit 2 of O4XN)
- ✓ A blue led for A (bit 3 of O4XN)

For the + button you'll have to set the following value:

Selection of Process Data

Source of the variable

- ☒ The Variable results from Millenium (Adjacent or connected to MODBUS)
- ☐ The Variable comes from another MODBUS Slave
- ☐ This Variable must a property of a component

1) Millenium 3 - XN03 - MODBUS Address:1

Communication BUS : MODBUS

Millenium Slave Address : 1

Data type : ☐ Word (-32768...32767) ☒ Bit

Millenium Reference : 0 4XN

Select the bit

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Behavioral Parameters of the variable

Limits and display settings

0 < Data Value < 1

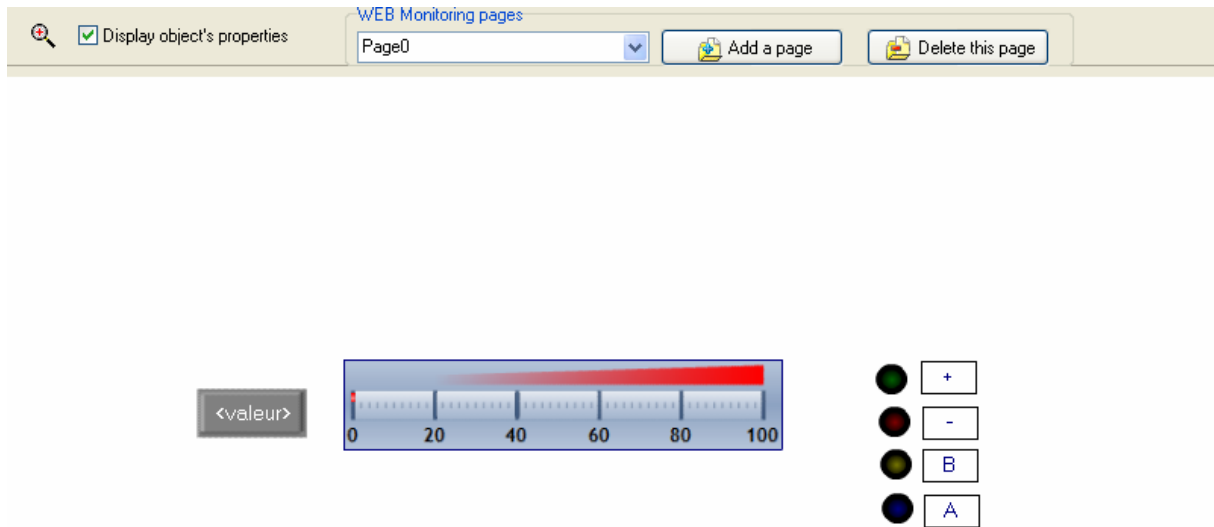
Operation : Read

Mnemonic for the Variable : + button

Apply Close

 **Then let you configure the others!**

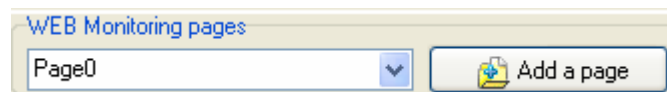
Here are the visualisation objects:



Now we want to Change the counter preset value (word I1XN).

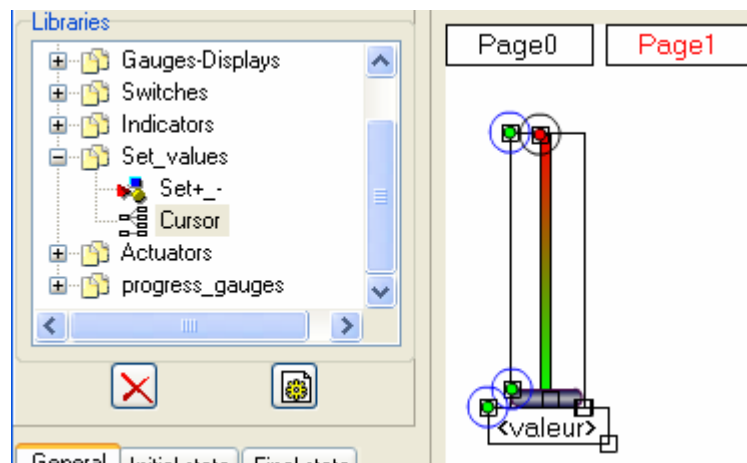
To do it, we'll use a new monitoring page dedicated to objects for writing values (for a ergonomic and secured HMI).

To add a monitoring page to the project, click on "Add a page"



A menu is automatically generated to make able the user to navigate in the HMI Web Pages.

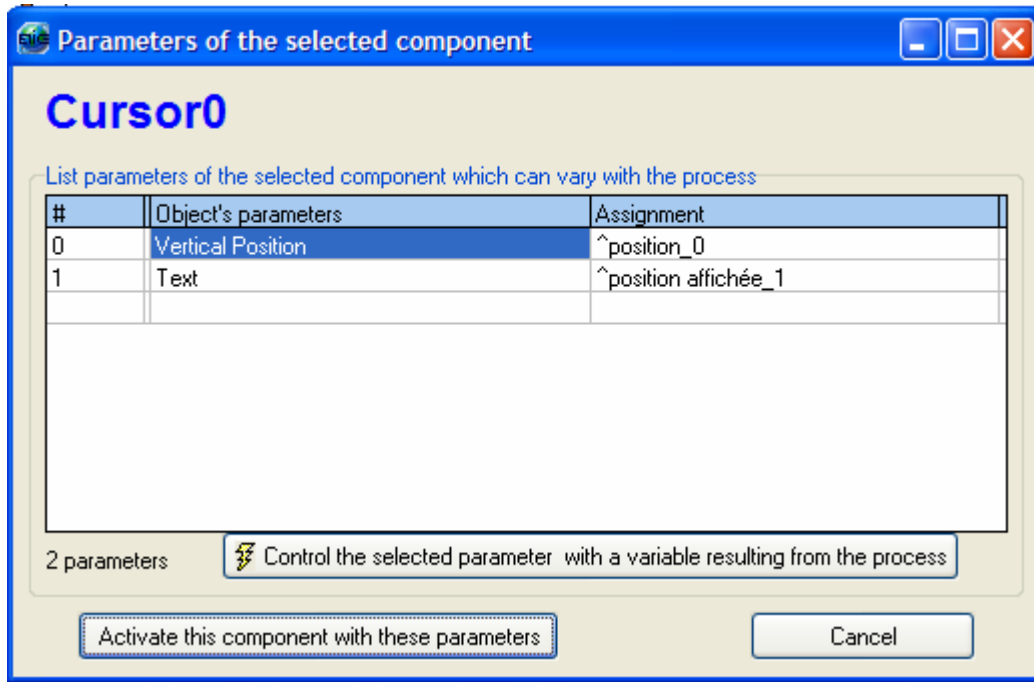
Then in the library Set values, select a cursor:



This component has 2 parameters:

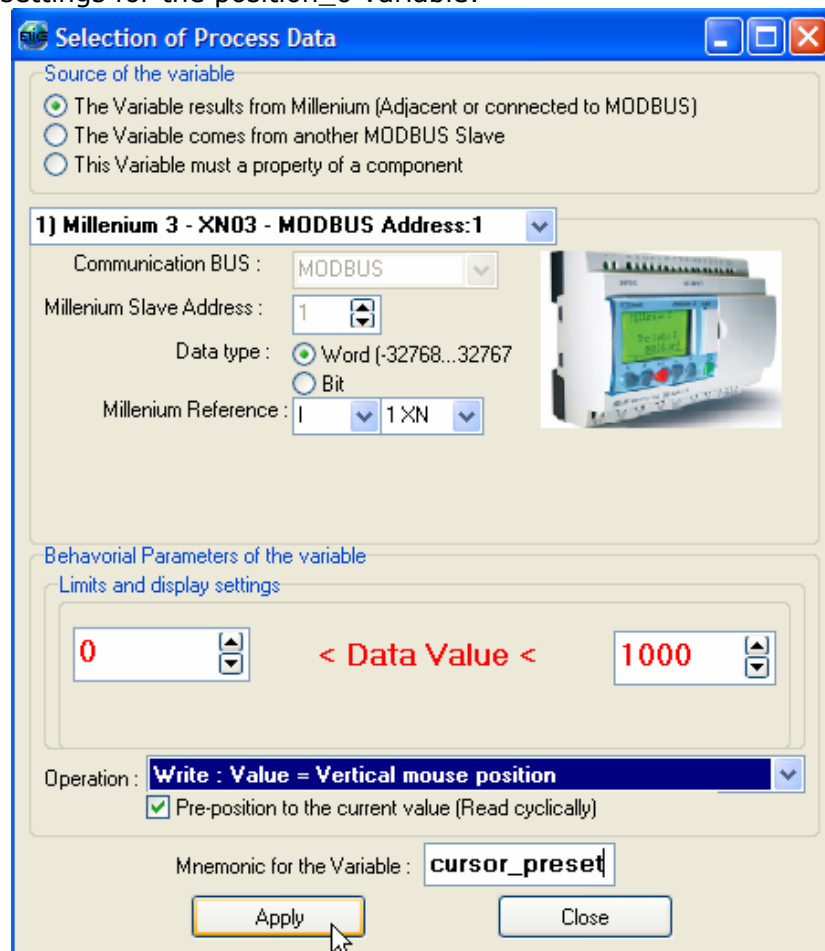
- The vertical cursor position
- The text value

In our project, we will use both (with user preference and choice) to set the value of the preset value of our counter



The vertical position will set the value of the preset data from 0 to 1000, according to the proportional vertical position of the cursor from full-scale.

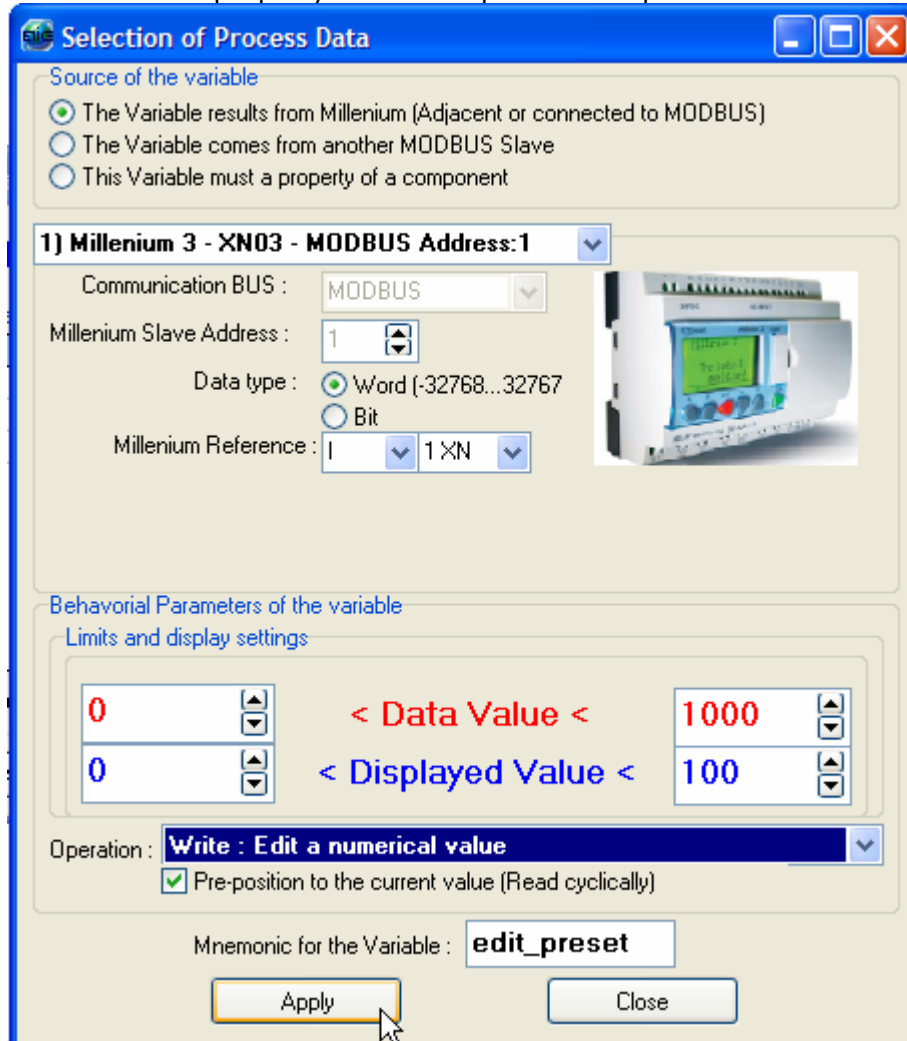
Here are the settings for the position_0 variable:



Then apply.

Now, let us configure the text zone of the component to make the user able to edit the exact value he wants to the preset the counter.

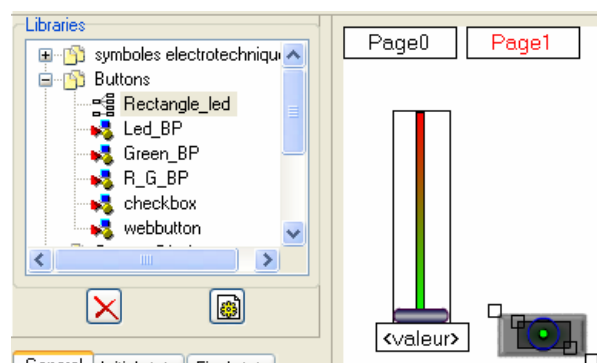
To do this, select the text property of the component and parameterize it:



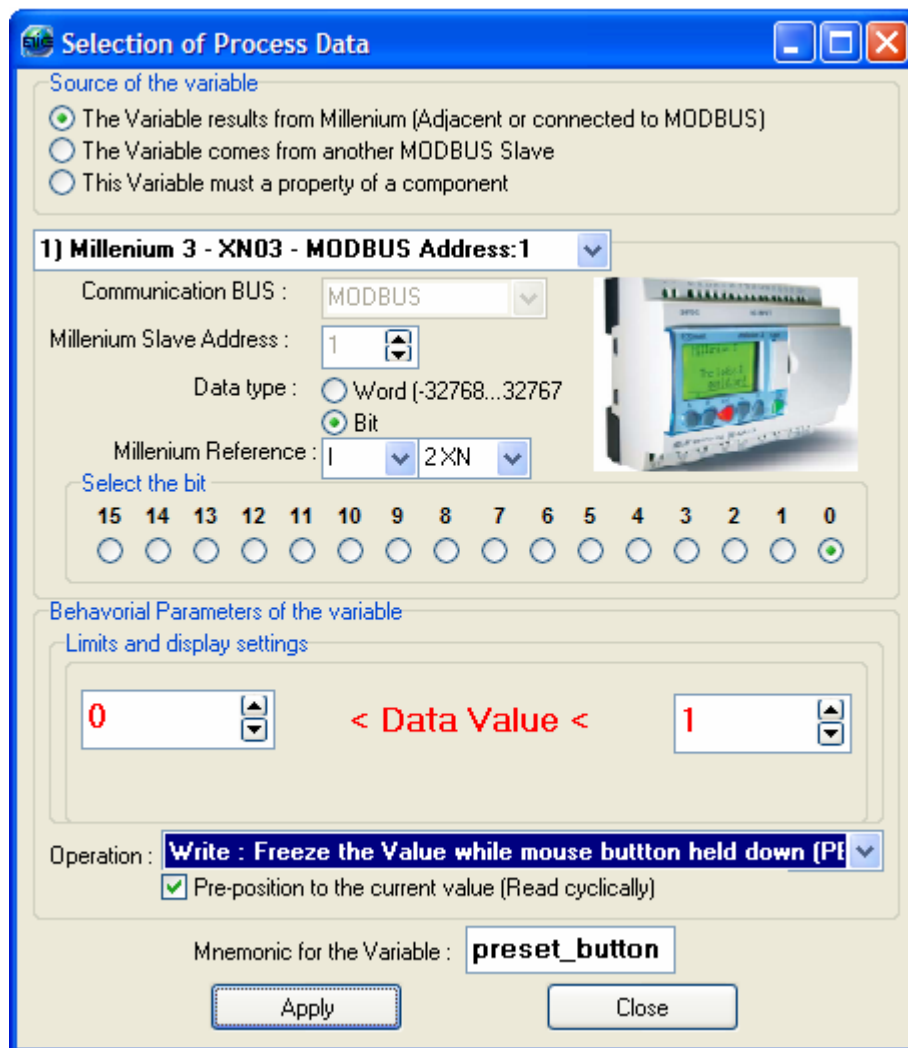
The text value can be set from 0.0 to 100.0 corresponding to 0 and 1000 as preset value range.

Now we need a button to validate this preset (as needed by the Millenium 3's counter FBD).

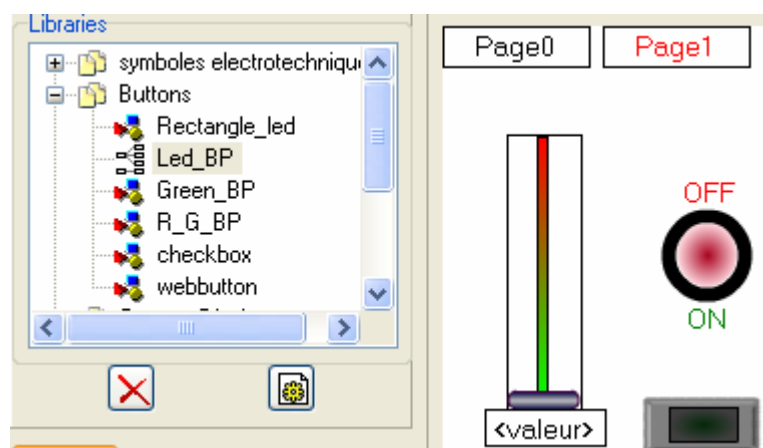
Select the following object:



It must act on the bit0 of IX2N, and a single pushbutton is needed (pulse on the FBD input):



Now put a button to switch LCD Backlight (bit 15 of I2XN), a led_bp should be enough:



And configure this BP as switch:

Selection of Process Data

Source of the variable

- ☒ The Variable results from Millenium (Adjacent or connected to MODBUS)
- ☐ The Variable comes from another MODBUS Slave
- ☐ This Variable must a property of a component

1) Millenium 3 - XN03 - MODBUS Address:1

Communication BUS : MODBUS

Millenium Slave Address : 1

Data type : ☐ Word (-32768...32767) ☒ Bit

Millenium Reference : 1 2XN

Select the bit

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

Behavioral Parameters of the variable

Limits and display settings

0 < Data Value > 1

Operation : Write : Click on mouse to Invert the value (switch)

☒ Pre-position to the current value (Read cyclically)

Mnemonic for the Variable : backlight

Apply Close

Apply.
Now the monitoring HMI is finished, let test it!

Then press the "play" button:



The compilation is done:

Compilation results

Events

- Total number of events: 0
- Number of events: 0
- Number of SMS: 0
- Number of items archived: 0
- Number of MODBUS redirections: 0
- Reserved for monitoring: 0
- Number of MODBUS Read access by cycles: 0

Occupancy rate system: 0%

Monitoring Pages

Number of pages compiled: 2 Memory size: 014.38 Ko

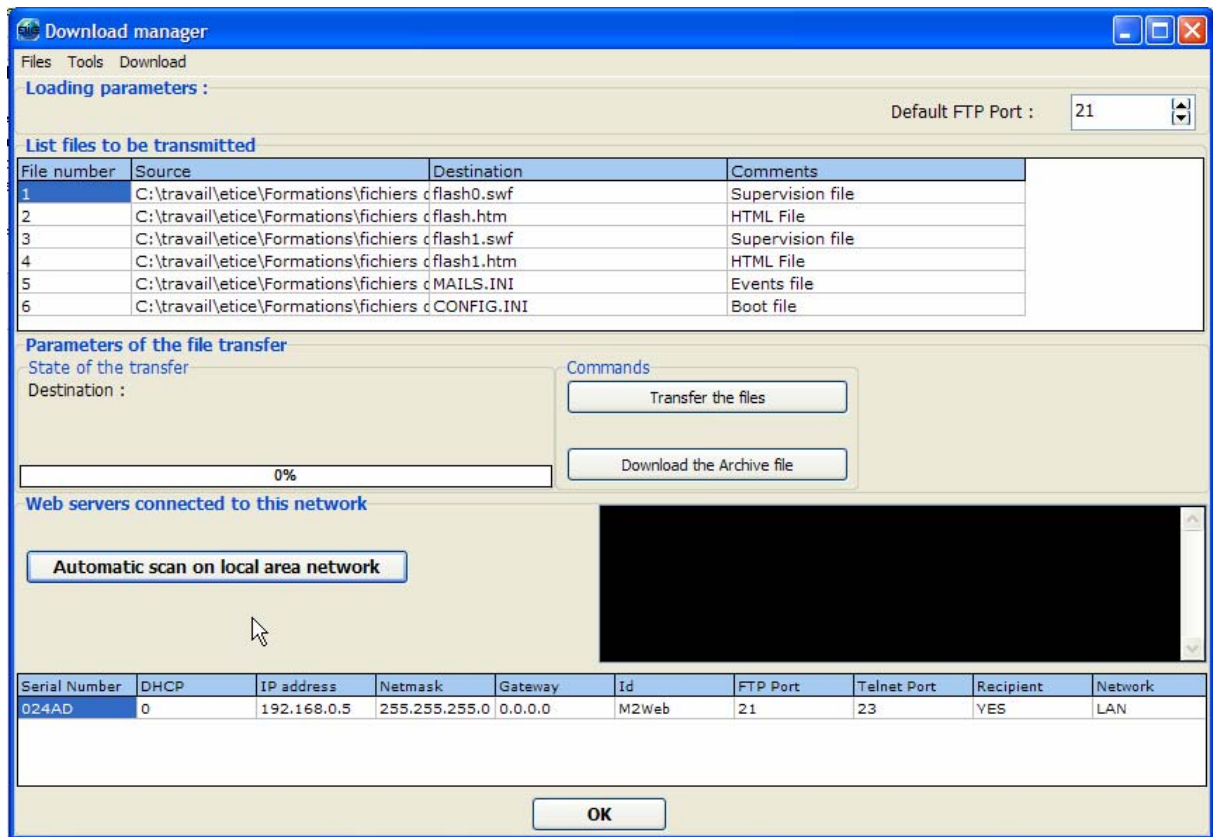
Estimated time for initial loading

Page	Size	RTU/GSM	485	Ethernet
Page1	010.47 Ko	004.21 s	00.347 s	00.012 s
Page2	003.91 Ko	001.57 s	00.136 s	00.011 s

Refresh requested every: 1.20 Second(s)

Cancel See details Transfer files

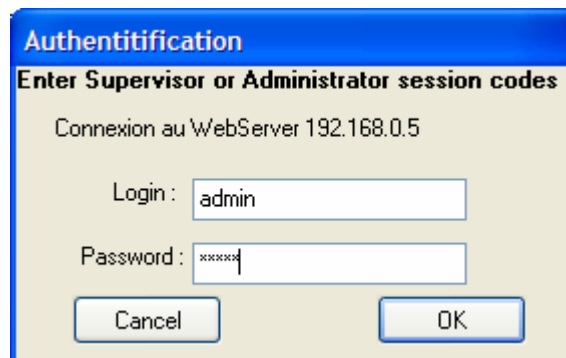
Then it's time to transfer files to the Web Server:
Click on "transfer files":



Click on "automatic scan on LAN" to detect the Web Server on the local network.

The connected Web Server appears, and then clicks on transfer files to upload your project to the Web Server.

Click on transfer files:



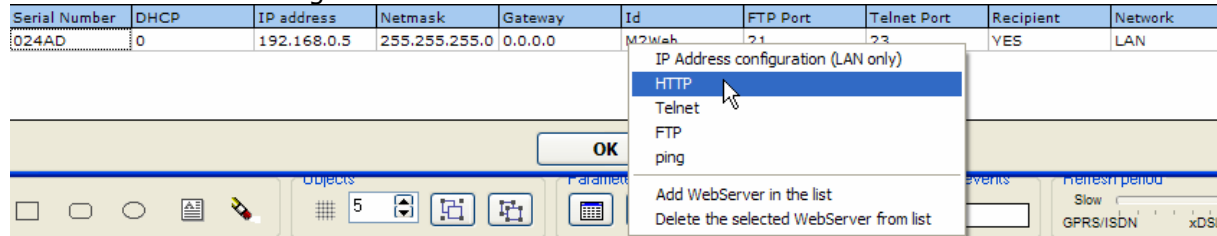
Enter login and password (default: damin/admin) and click OK.

Comment: If you are using the English version for the first time or if you are updating the Web Server, you'll have to compile your project one more time to use your project after firmware update!
A firmware update is then proposed. Click ok and the new firmware files will be added to the list and transferred to the WebServer. Then restart the compilation procedure.
The firmware update is only proposed once.

After transfer, wait about 1 minute to connect to the Web Server.

Click on automatic scan on LAN to see if the Web server is still connected with the same address.

Then click on it with right button and select "HTTP"



A Web Browser windows then appears and the Index page of the WebServer is shown, the click on open a session.



Enter administrator password (default: admin/admin)



The page1 of monitoring pages then appears, please test it.

In remote maintenance, we now can see the status of the connected millenium 3 and note its STATUS word:

WebServer M2Web - Windows Internet Explorer

http://192.168.0.5/esoft?login

Google

Envoyer

Mes favoris

47 bloquée(s)

Orthographe

Envoyer à

Paramètres

WebServer M2Web

Accueil

Flux

Imprimer

Page

Outils

02/19/2007 19:17

OnLine : 1

Millenium : 1

Millenium 3 MODBUS (XN03)

Status : Connected by MODBUS: Address: 1

Previous Next

Data of exchange in reading

STATUS: RUN

Words O XN

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Decimal
O 1 XN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	215
O 2 XN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	0
O 3 XN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	0
O 4 XN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	0

Data of exchange in writing

Words I XN

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Decimal
I 1 XN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	0
I 2 XN	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-32768
I 3 XN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	0
I 4 XN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	0

Terminé

Internet

100%

4 Archiving

4.1 WebServer configuration

Let us archive the value of the counter and the backlight command status

Press the "event and archive" button:



Archive 1: Current counter value

Select the first blank line.

Select the state to be monitored, here O1XN of the Millenium 3



Apply

Here, the value will be saved every 5 seconds.

Events and archiving

List of events and associated actions

#	Variable	Actions	Information
1	Counter value	Filing	Counter current value (<&\\

Number of available events = 99

Selecting and attributing parameters related to the event

Visualize the monitored state

Select the condition to be fulfilled to trigger the action

☐ When : [] = [v] 0 []

☒ Periodically, every [0] hrs [0] mins [5] s

Description of the action to be performed when the condition is true

☐ Send by e-Mail (if SMTP Server configured)

Recipient's e-Mail address : []

☒ Archive the data

Name of the data archived (included in the e-mail or SMS, with the value)

Name [Counter current value] Unit (optional) []

Delete Close

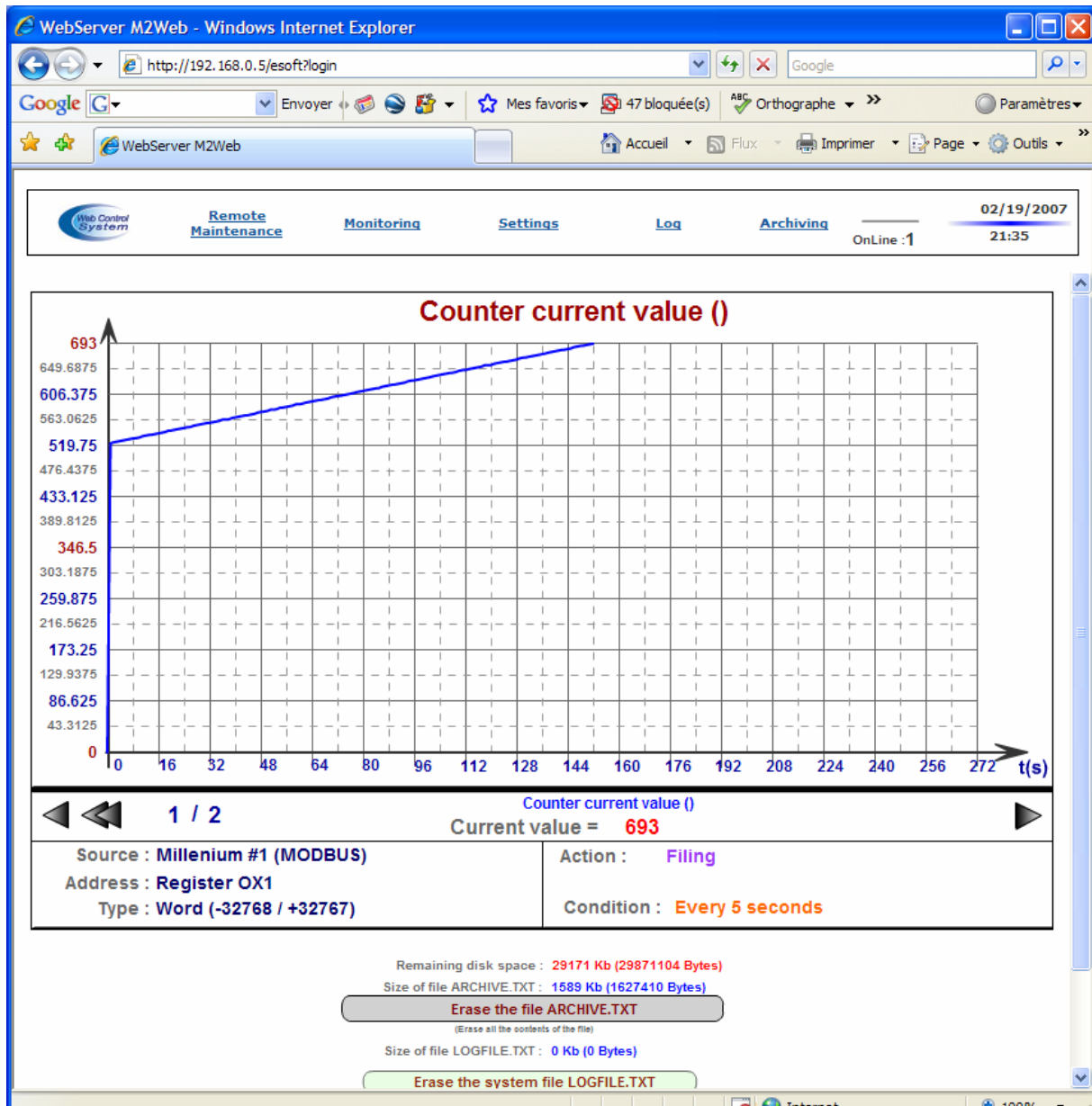
Archive 2: LCD Backlight command status

To do!

Now compile and transfer the project.

4.2 Erasing the archive file

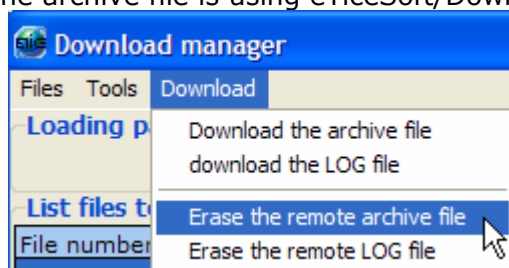
4.2.1 From the Webpage



Erase the archive file archive.txt, and wait a minute.

4.2.2 From eTiceSoft

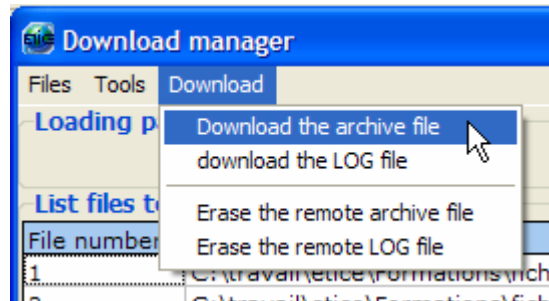
The other way to delete the archive file is using eTiceSoft/Download manager:



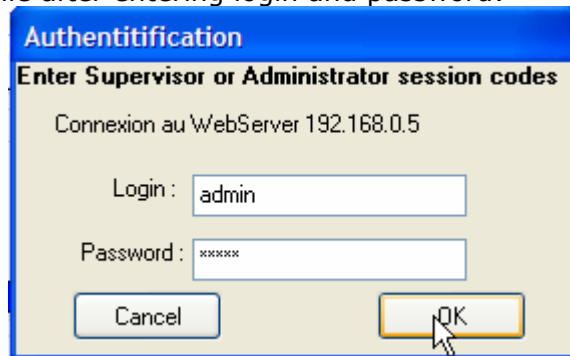
Enter administrator login and password to delete the file.

4.3 Downloading the archive file

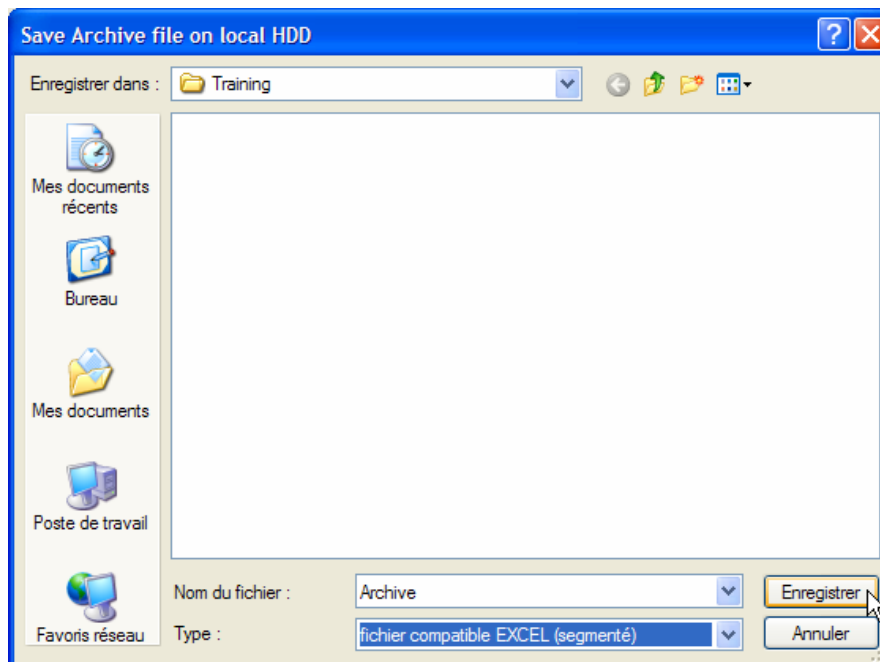
4.3.1 With eTiceSoft



Download the archive file after entering login and password:



Select the format of the file (excel or text):



Then press "save".

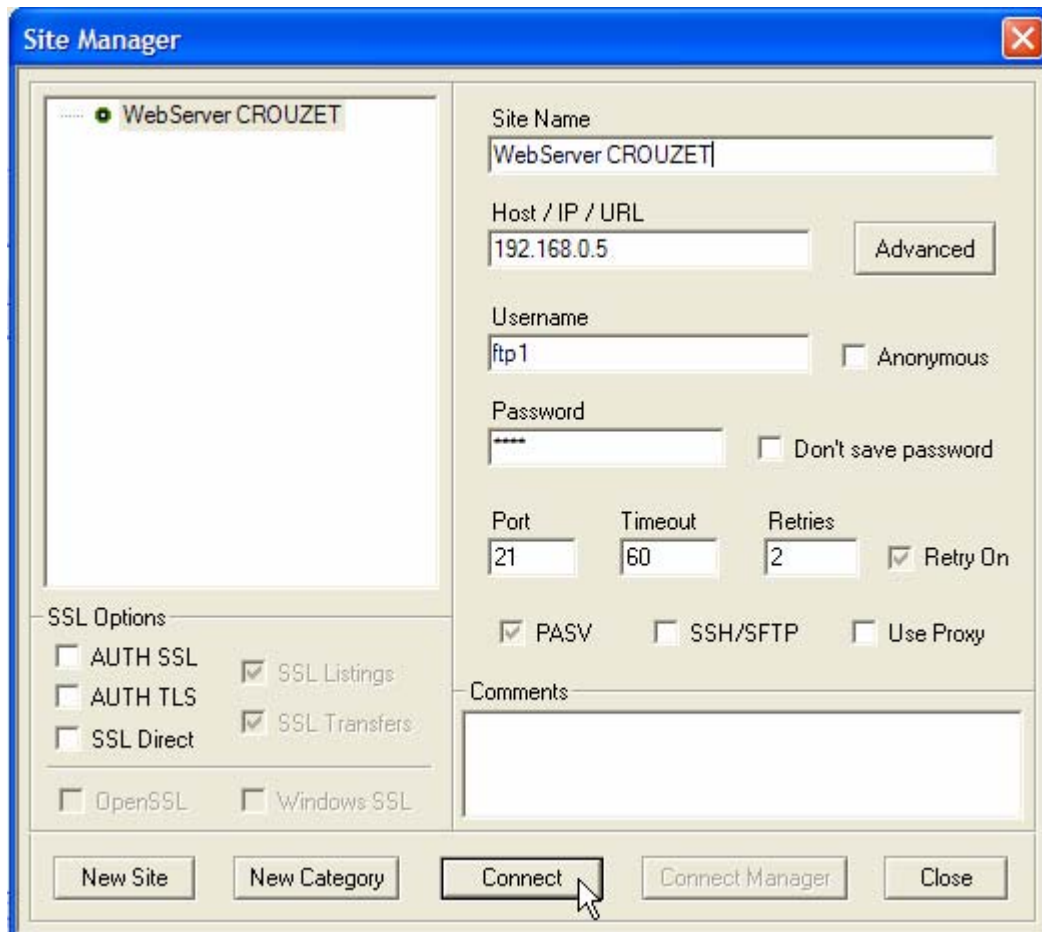
The file is downloading on the local HDD using FTP protocol; this operation can take several minutes, depending of the file size and baudrate of the used media.

4.3.2 With an other FTP Client software (any freeware)

Example: Coreftplite



Then fill in the FTP server fields to parameterize the FTP Client:



Site name (optional): give a name to this server

IP: The IP address of the Web Server (here 192.168.0.5)

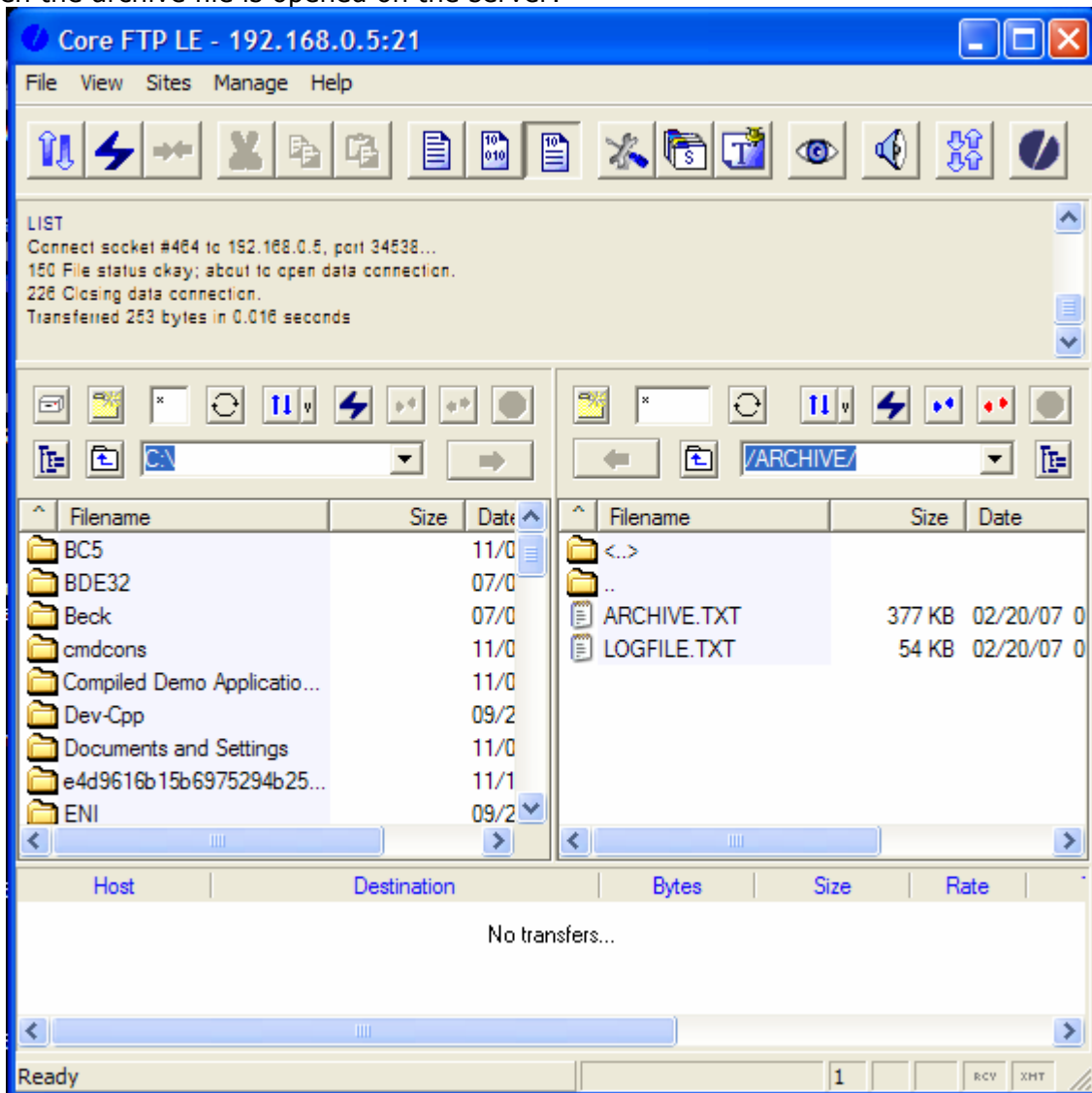
Username (login): the username defined by the administrator of the WebServer (from advanced configuration panel of the Web Server website in administrator session (see below)): here ftp1 (default)

Password: the password defined by the administrator of the WebServer (from advanced configuration panel of the Web Server website in administrator session (see below)): here ftp1.

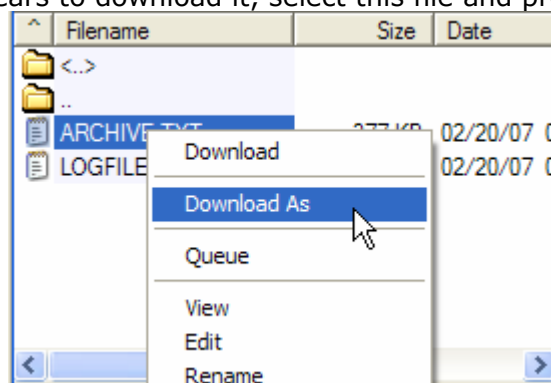
Port: This field contains the TCP/IP port used for FTP sessions it can be changed too by the administrator from the advanced configuration panel of the WebServer website.

Then click on connect button to establish the FTP connection to the WebServer.

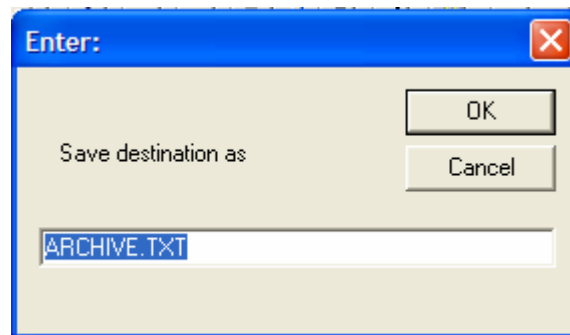
Then the archive file is opened on the server:



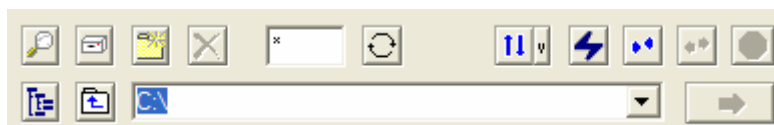
The archive.txt file appears to download it, select this file and press right mouse button:



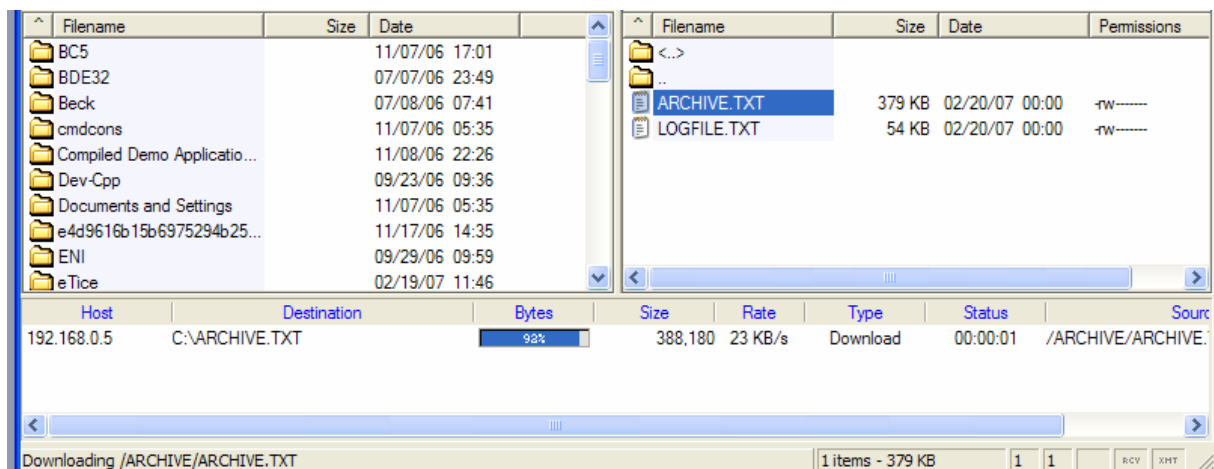
Give a name to the file on local HDD, then click OK



The progress bar appears showing the download status on the selected directory filled in this field:



Here the download directory is c:\ on local HDD.



4.3.3 Changing the FTP Server connection parameters

For secured application or GPRS constraints (opened TCP/IP ports >1200), it should be useful to change FTP Server's connection settings.

For it, there's **only one solution**: Using the embedded website advanced configuration panel.

From this advanced configuration panel (only accessible by an administrator session), you can change these settings:

Parameter setting of the network services			
<input checked="" type="checkbox"/> DNS		<input checked="" type="checkbox"/> SMTP Client (Mails)	
Primary DNS IP :	<input type="text" value="0.0.0.0"/>	SMTP Server :	<input type="text" value="smtp.orange.fr"/>
Secondary DNS IP :	<input type="text" value="0.0.0.0"/>	Server IP Address :	<input type="text" value="193.252.23.129"/>
<input type="button" value="Reconfigure"/>			
<input checked="" type="checkbox"/> TELNET		<input checked="" type="checkbox"/> FTP	
Login :	<input type="text" value="tel"/>	Login :	<input type="text" value="ftp1"/>
Password :	<input type="text" value="tel"/>	Password :	<input type="text" value="ftp1"/>
Telnet TCP - PORT:	<input type="text" value="23"/>	FTP TCP - PORT:	<input type="text" value="1221"/>
<input type="button" value="Reconfigure"/>			

Uncheck the ftp check box will disable the FTP Server of the Web Server.

Click on reconfigure, after changing one or several parameters (here FTP TCP/IP port is set to 1221 instead of 21 (default)), this will reboot the Web Server.

Reboot time is about 2 minutes, so you'll have to wait before reconnecting the Web Server.

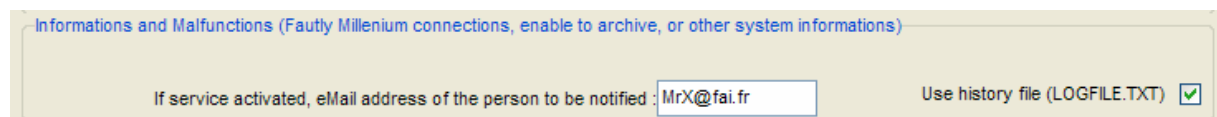
After reboot, retries to connect the FTP Server and see what happens if one or several parameters are wrong.

4.4 Using the system history archive file (LOGFILE.TXT)

The logbook events can be saved too in an archive text file format called logfile.txt. This file contains all the system events notified in the logbook (connection attempts, Mails sent...).

It can be useful for maintenance, and now which a problem occurs since a long time. One of the best advantages of this file is that you can see system events since a long time, because the logbook website is limited to the 20 last events.

To use it you can check the check box in the configuration panel of project's definition in eTiceSoft:



Informations and Malfunctions (Fautly Millenium connections, enable to archive, or other system informations)

If service activated, eMail address of the person to be notified :

Use history file (LOGFILE.TXT) ☒

Compile another time the project and transfer it in the WebServer.

This file is also downloadable, erasable as well as the archive file archive.txt.

Example of logfile.txt file:

ETICE SN : 00-30-56-80-19-99

ETICE ID : eTice

Date Time

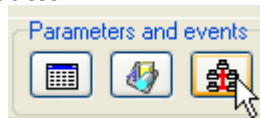
22/10/200517:28	DEFAULT EMAIL	<eTice eTice is OnLine at ip_adress > <Societe@fai.fr> Non transmis !	-
22/10/200517:28	DEFAULT	<Impossible d'obtenir l'adresse du serveur SMTP par DNS> <smtp.free.fr> 0.0.0.0	-
22/10/200517:28	Initialisation	<Mise sous tension du système> <Aucun MODEM connecté ou Erreur Initialisation.>	OK
22/10/200517:28	SMS-EMail	<Tentative envoi SMS :> <eTice eTice is OnLine at ip_adress > +33673480707	-
22/10/200517:28	DEFAULT EMAIL	<eTice eTice is OnLine at ip_adress > <Societe@fai.fr> Non transmis !	-
22/10/200517:28	DEFAULT	<Impossible d'obtenir l'adresse du serveur SMTP par DNS> <smtp.free.fr> 0.0.0.0	-
22/10/200517:28	Initialisation	<Mise sous tension du système> <Aucun MODEM connecté ou Erreur Initialisation.>	OK
22/10/200517:28	SMS-EMail	<Tentative envoi SMS :> <eTice eTice is OnLine at ip_adress > +33673480707	-

...

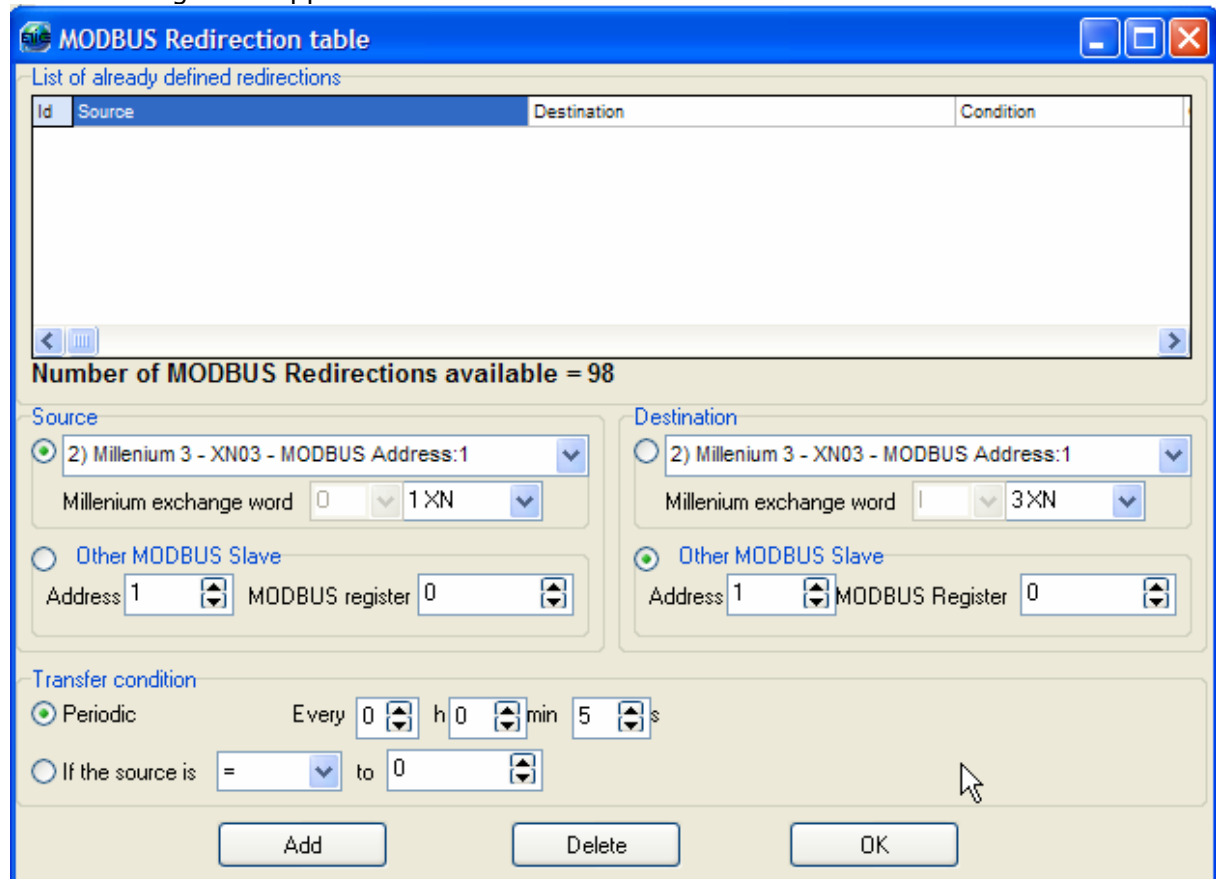
5 MODBUS redirection and management

5.1 Configure the Web Server

Click on the MODBUS Redirection button:



The following table appears:



Id	Source	Destination	Condition
----	--------	-------------	-----------

Number of MODBUS Redirections available = 98

Source

☒ 2) Millenium 3 - XN03 - MODBUS Address:1
Millenium exchange word 0 1 XN

☐ Other MODBUS Slave
Address 1 MODBUS register 0

Destination

☐ 2) Millenium 3 - XN03 - MODBUS Address:1
Millenium exchange word 1 3 XN

☒ Other MODBUS Slave
Address 1 MODBUS Register 0

Transfer condition

☒ Periodic Every 0 h 0 min 5 s

☐ If the source is = to 0

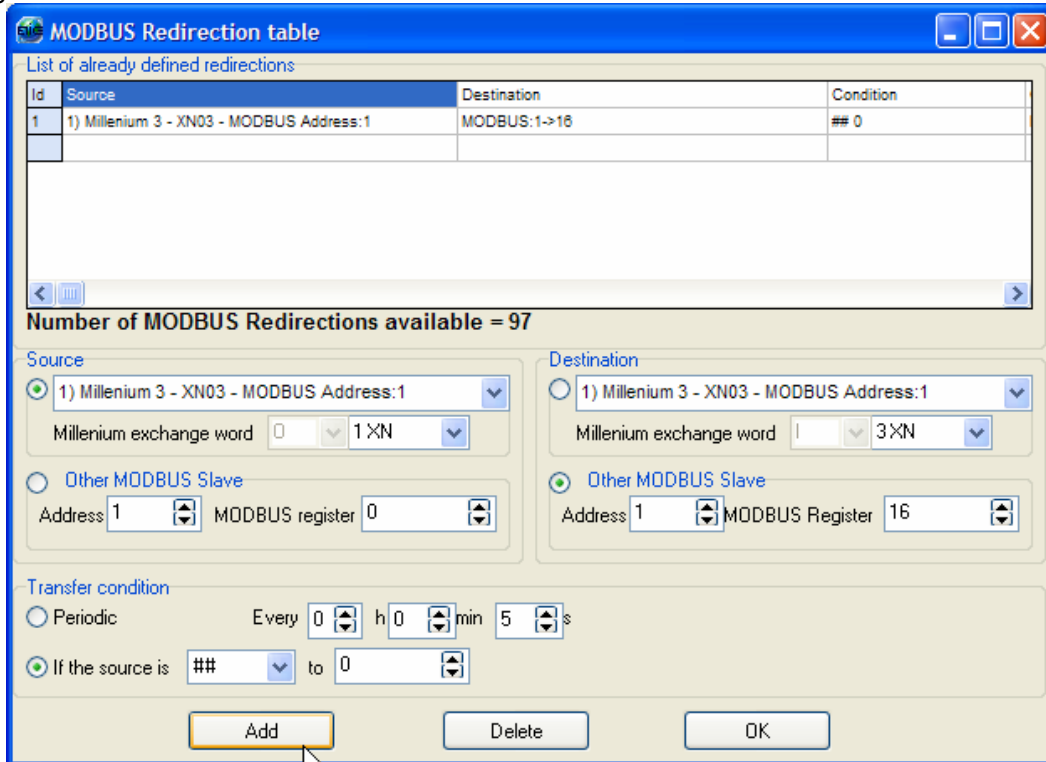
Add Delete OK

Let us copy the value of the O1XN word of the Millenium 3 slave 1 to its I1XN, using a particular way.

As we know, the I1XN has the register address 16 in an XN03 module.

Let us consider here, that this millenium 3 is only a single MODBUS Slave.

So we'll copy the data O1XN to the MODBUS Slave 1 at the register address 16 at every change of the O1XN value:



The image shows the 'MODBUS Redirection table' configuration window. It contains a table of existing redirections, configuration fields for a new entry, and transfer conditions.

Id	Source	Destination	Condition
1	1) Millenium 3 - XN03 - MODBUS Address:1	MODBUS:1->16	## 0

Number of MODBUS Redirections available = 97

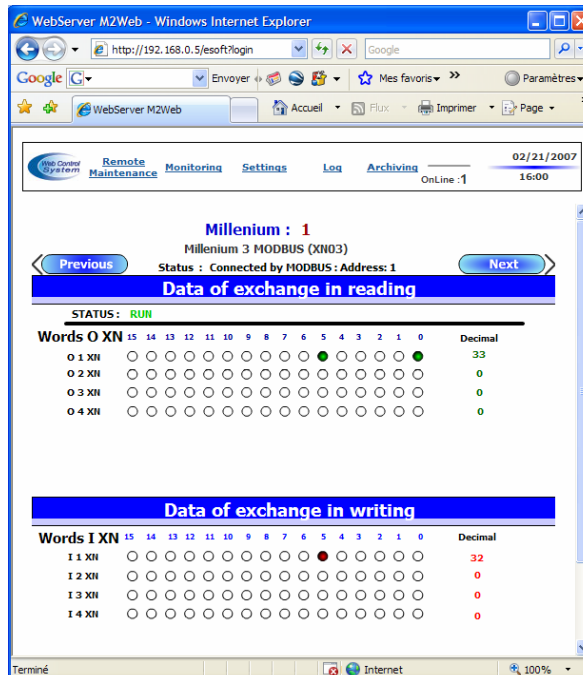
Source configuration:
- Radio button: 1) Millenium 3 - XN03 - MODBUS Address:1
- Millenium exchange word: 0, 1XN
- Radio button: Other MODBUS Slave
- Address: 1, MODBUS register: 0

Destination configuration:
- Radio button: 1) Millenium 3 - XN03 - MODBUS Address:1
- Millenium exchange word: 1, 3XN
- Radio button: Other MODBUS Slave
- Address: 1, MODBUS Register: 16

Transfer condition:
- Radio button: Periodic
- Every: 0 h, 0 min, 5 s
- Radio button: If the source is ## to 0

Buttons: Add, Delete, OK

Then press "add" to add this event definition in the list.
Compile and open an HTTP session:



The image shows a screenshot of the 'WebServer M2Web' interface in a Windows Internet Explorer browser. The page displays the status of the 'Millenium 3 MODBUS (XN03)' device, which is 'Connected by MODBUS : Address: 1'. It shows two sections: 'Data of exchange in reading' and 'Data of exchange in writing'.

Millenium : 1
Millenium 3 MODBUS (XN03)
Status : Connected by MODBUS : Address: 1

Data of exchange in reading
STATUS: RUN

Words O XN	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Decimal
O 1 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
O 2 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O 3 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O 4 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Data of exchange in writing

Words I XN	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Decimal
I 1 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
I 2 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 3 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 4 XN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Then as you can see, the word I1XN register value follows the O1XN value witch is periodically copied. Of course, in a real application data are copied from a slave to another one, not the same like in this school case example!

The maximum events and MODBUS redirection can not exceed 100 events.

6 Using a STN or GPRS Modem

A MODEM must be declared, connected and powered before using it with the Web Server. Only some MODEM are certified to work well with the Web Server (other should be used if using standard AT commands).

The initialisation time of a Web Server using a MODEM is about 5 minutes, depending of MODEM parameters (RS232 baudrate, SIM PIN status ...)

A MODEM should be used if no xDSL or LAN to WAN connection are available to establish a distant connection to the Web Server for monitoring or using Internet services (e.g.: sending emails via an SMTP server).

Only a GPRS MODEM can be used to send SMS.

Monitoring pages of a project using a MODEM should be as light as possible (typically less than 100Ko).

6.1 Configuring the MODEM in the eTiceSoft Project

In eTiceSoft workshop, open the Web Server configuration manager and fill in the fields as follow (depending of the SIM card parameters and GSM Service Provider)

Here, we're using GSM provider orange with APN "internet-entreprise".

SIM PIN code is by default here 0000.

Advanced configuration of the WebServer

MODBUS RTU Parameters
MODBUS Baudrate: 19200 bps Parity: None Advanced settings System clock source: Millenium #1

Declaration of Milleniums connected to WebServer
☒ Connected as contiguous extension (Millenium II only)
☐ Connected on MODBUS RTU (RS485)

☒ Reset registers IXC or IXN for each new project transfer or reboot

MODEM Parameters (for SMS and PPP Connections)
☐ Activate PPP Server
SIM Card parameters: PIN Code of the SIM Card: 0000 PUK Code of the SIM Card (if locked):
Select the MODEM: GPRS-WAVECOM:FASTRACK(M1306B)
RS232 parameters for communication with the MODEM: Baudrate: 115200 Bauds Hardware flow Control RTS/CTS: ☒
PPP Client parameters: Phone number of the PPP Internet Provider: *99***1# GPRS APN (only for GPRS MODEM): internet-entreprise
LOGIN: orange PASSWORD: orange Connection program: Periodical (or for sending eMails)
PPP Authentication Method: PAP Connection start at: 0 H 0 min End: 0 H 0 min

Informations and Malfunctions (Faulty Millenium connections, enable to archive, or other system informations)
If MODEM, Phone Number of the person to be notified: +33630955459 Sending a SMS for internal alarm: ☒
If service activated, eMail address of the person to be notified: tddp@free.fr Use history file (LOGFILE.TXT): ☒

Network services
Company's Mail address: tddp@free.fr
☒ eMail service active (SMTP Client)
☒ DNS Client
☐ DynDNS Client (Dynamic DNS)

Parameters of the eMail Server (SMTP Server)
Domain Name of the SMTP Server: smtp.orange.fr
IP Address of the SMTP Server: 0 . 0 . 0 . 0

DNS Servers parameters
Primary DNS IP Address: 0 . 0 . 0 . 0
Secondary DNS IP Address: 0 . 0 . 0 . 0

Cancel Create the configuration file and put it in UpLoad list

The phone number to call an APN is normalized to *99***1#

Else if you need to call an ISP with an STN connection or in GSM (only 9.6Kbps in this last case), just enter the phone number (sometime with previous 0 code to exit from your company to external calls)

Ex: for the ISP "FREE" in France: 0868920911 or 00868920911 from a company with the previous 0 to get external phone call.

Then if you use an APN, you need to enter its name (provided with your GPRS service subscription). This is of course not needed for an STN standard ISP.

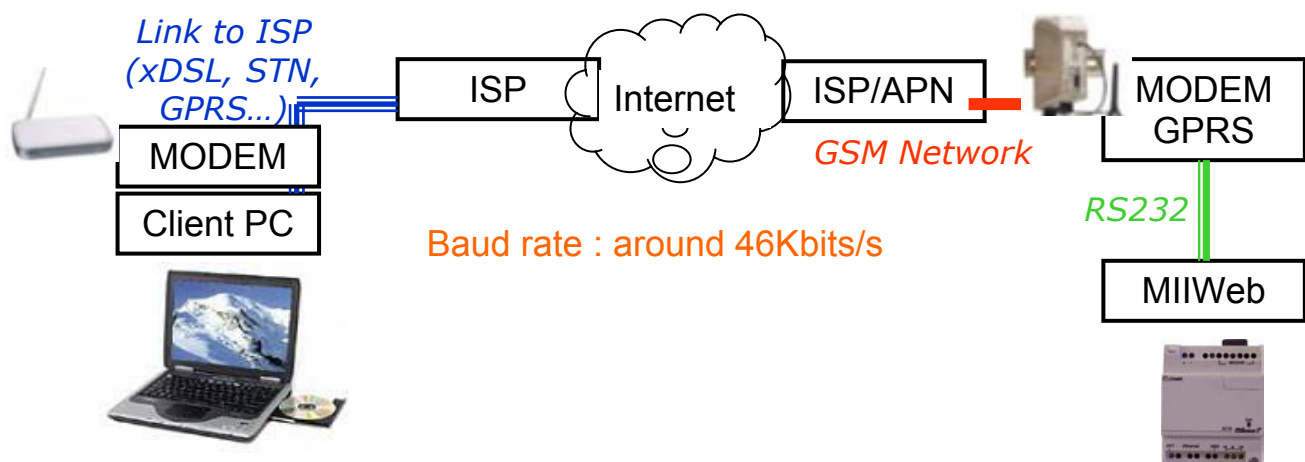
In this example, the Web Server will try to connect to the ISP only for sending mails.

The MODEM used here (FASTRACK M1306B, also used for M3MOD) must be powered and connected to RS232 connector of the Web Server before uploading this project.

Then create the file, compile and transfer the project.

6.2 Using the PPP Client with GPRS MODEM

The PPP Client is used by the Web Server to connect to an ISP with a standard STN MODEM or GPRS MODEM (via APN (around 46Kbps) or only using GSM Mode (low baud rate (9.6Kbps))).



- 1- If the Web server needs to connect to the ISP (for sending mail or because it's the time defined in the project...) the Web Server compose the Phone number of the APN (*99***1#)
- 2 - The Web Server is identified to the ISP/APN NetWork using dedicated protocols (PAP or CHAP) and given password and login (here orange/orange) defined with eTiceSoft.
- 3 - The ISP/APN gives to the WebServer a Public IP address (address shown from the all Internet world Network)
- 4 - At this moment the Web Server becomes accessible from the Internet any where in the world (session opened with user's login password exactly as if you are on a LAN (with lower baud rate of course!). Theoretical baud rate: 46Kbps
- 5 - If the DynDNS client is activated, the WebServer will refresh the DynDNS account (URI linked to the given IP address)
- 6 - The WebServer sends an eMail to the defined user in the project configuration manager:

If service activated, eMail address of the person to be notified : MrX@fai.fr

7 - When the Web Server needs, it's disconnecting from the ISP.

The PPP Client usage meets several constraints:

- SMS cannot be sent during a PPP client connection in progress. However, if no data are exchanged for more than 5 minutes with a distant station during a PPP Client connection established, and if a SMS has to be sent, the Web Server then disconnect the PPP Client connection, sends the SMS and then re-establish the PPP Client connection to the ISP PPP Server.
- The communication cost is proportional with time using a STN MODEM and with data quantity in some GPRS APN service subscription.

After connection successfully established with the PPP ISP Server, the Web Server sends an email witch contains the IP address delivered by the ISP PPP Server.

Well, let practice:

Open an HTTP session on the LAN:

And change the HTTP Port of the Web Server and wait a minute:

TCP/IP Settings - Ethernet

ID : M2Web

MAC : 00-30-56-80-24-AD

IP Address : 192.168.0.5

Subnet Mask: 255.255.255.0

DHCP Client enabled : ☐

HTTP Port : 1280

Default gateway : 0.0.0.0

Reconfigure

After one minute change the port in the URI of the Web Browser:



This port change is needed because most of GPRS APN does not authorize all the outgoing and incoming TCP/IP ports.
In France, only "orange" authorized incoming ports > 1200.

You need to take care that the GSM/GPRS APN meets following condition to use the Web Server with a GPRS MODEM:

- 1- Some incoming TCP/IP ports are open and can be used for any TCP/IP protocols (here HTTP is associated to 1280 instead of the standard default port 80)
- 2- The outgoing TCP/IP ports opened are **80** (DynDNS), **25** (SMTP (for sending mails)), **53** (DNS).
- 3- The IP Address delivered by the ISP is a **public Internet Address**.

In France only Bouygues and Oranges meets these conditions for professional and industrials offers.

SFR will provide these services soon.

On the configuration web page, it's possible to force the Web Server to establish a PPP Client connection.

Press the button called "Connect PPP Client"

The Web Server then tries to establish a PPP Connection to the defined ISP.
It's interesting to follow the operations sequences with the TELNET diagnostic server.

Here's the mail you should receive:

M2Web - System Status Mail

tddp@free.fr

À: tddp@free.fr

M2Web is OnLine (PPP Client) Address : 90.95.23.177

End of Message.

6.3 Using the PPP Server

The PPP Server should be useful in the following cases:

- Needs a redundant way to connect the Web Server (example: xDSL link failure)
- Needs a higher level of security

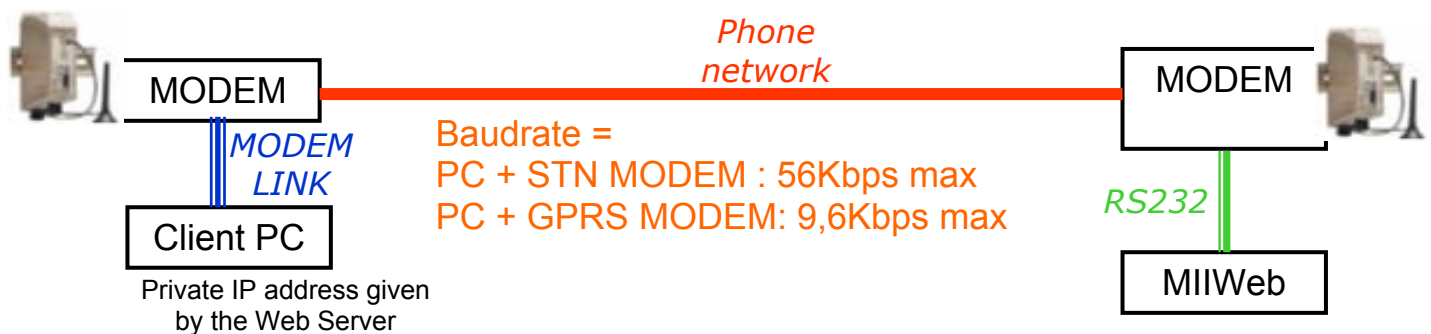
It's important to remember that this feature used alone is not able to send emails.

The PPP Server usage needs several constraints:

- The client PC must establish link with an STN or GSM/GPRS MODEM
- The GPRS mode is disabled (1 GSM Data time SLOT used), so the Baud rate in this case is very low (only 9.6 Kbps)
- SMS cannot be send during a PPP Server connection in progress
- The communication cost is proportional with time.

But the PPP Client feature can be activated (but not used) simultaneously with the PPP Server in the same project.

Here is the topology of the PPP Server usage:



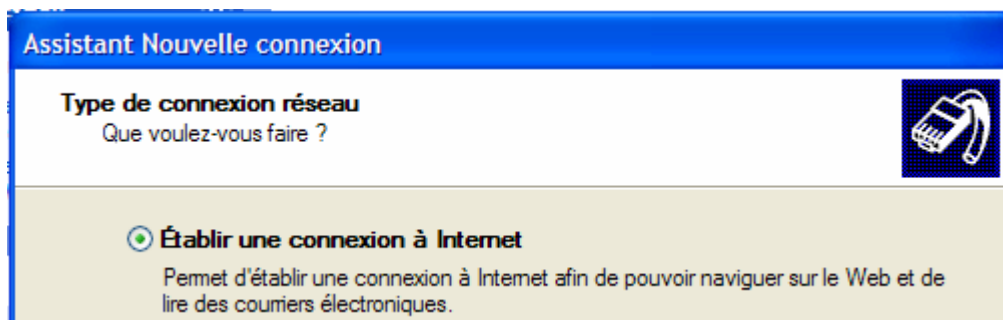
Of course, due to the fact that there's only one MODEM, a PPP Client connection and a PPP Server connection cannot be established simultaneously!

Well, let us configure the PC side connection:

First in the connection manager: Create a new connection



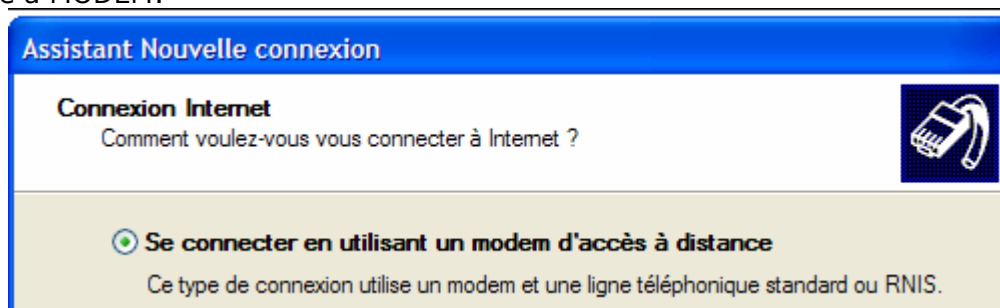
Establish a Internet connection



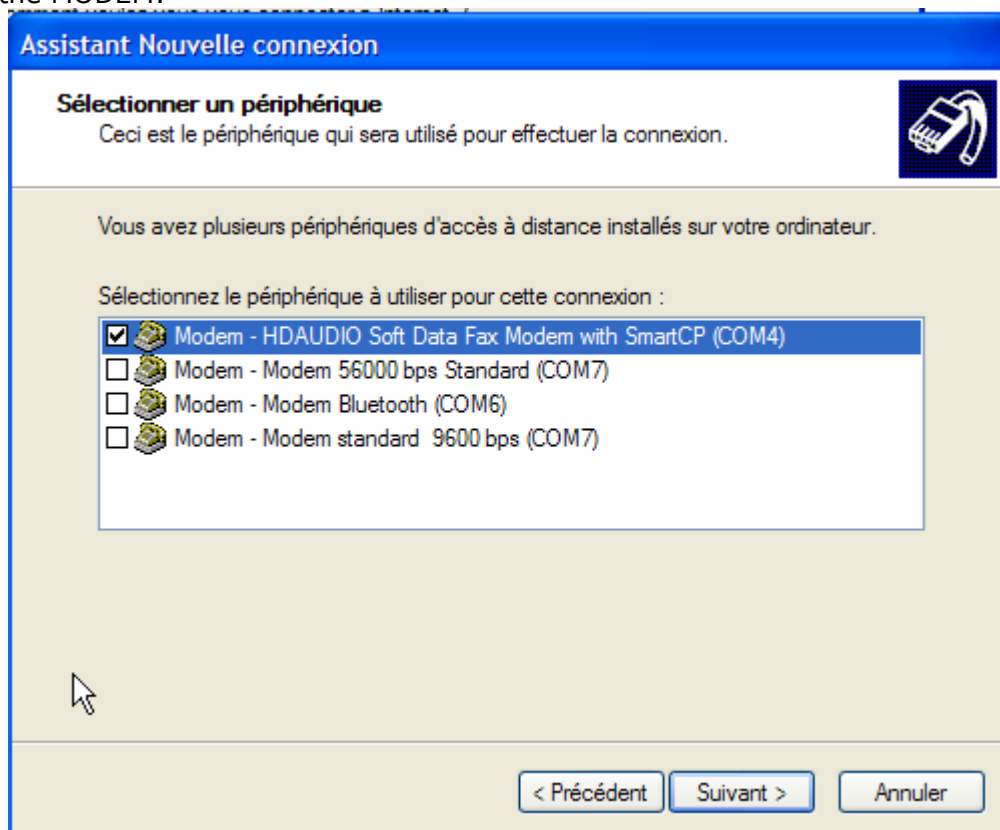
Then configure your connection manually:

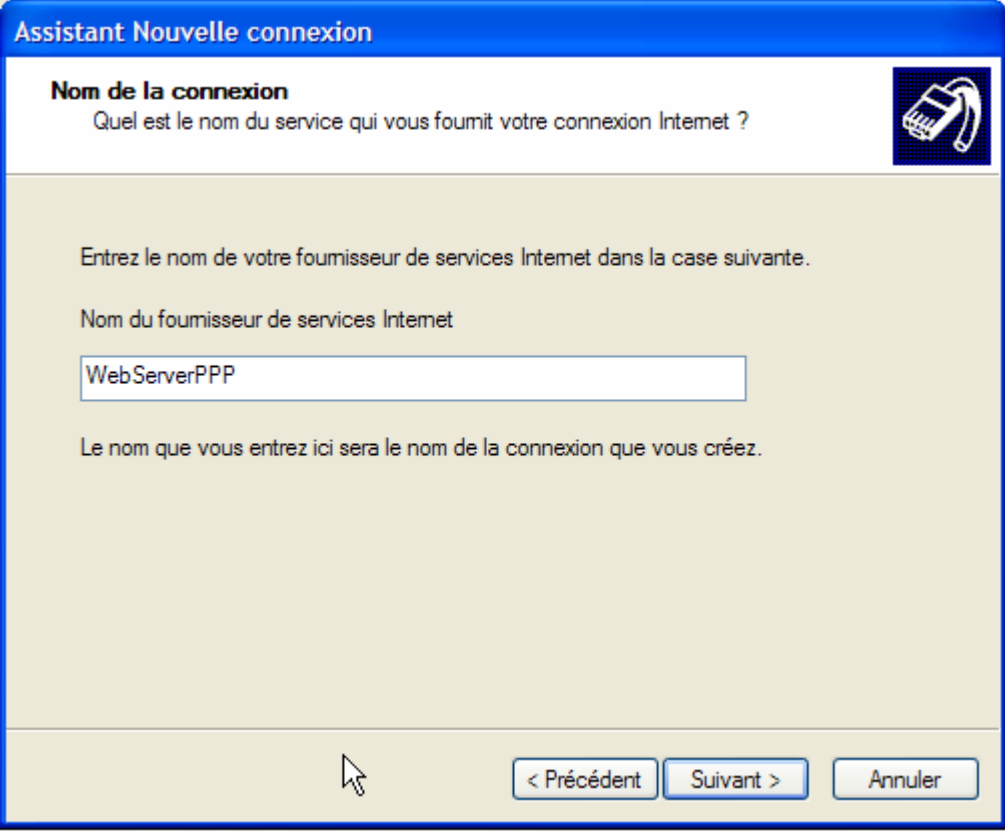


And use a MODEM:



Select the MODEM:





Assistant Nouvelle connexion

Nom de la connexion
Quel est le nom du service qui vous fournit votre connexion Internet ?

Entrez le nom de votre fournisseur de services Internet dans la case suivante.

Nom du fournisseur de services Internet

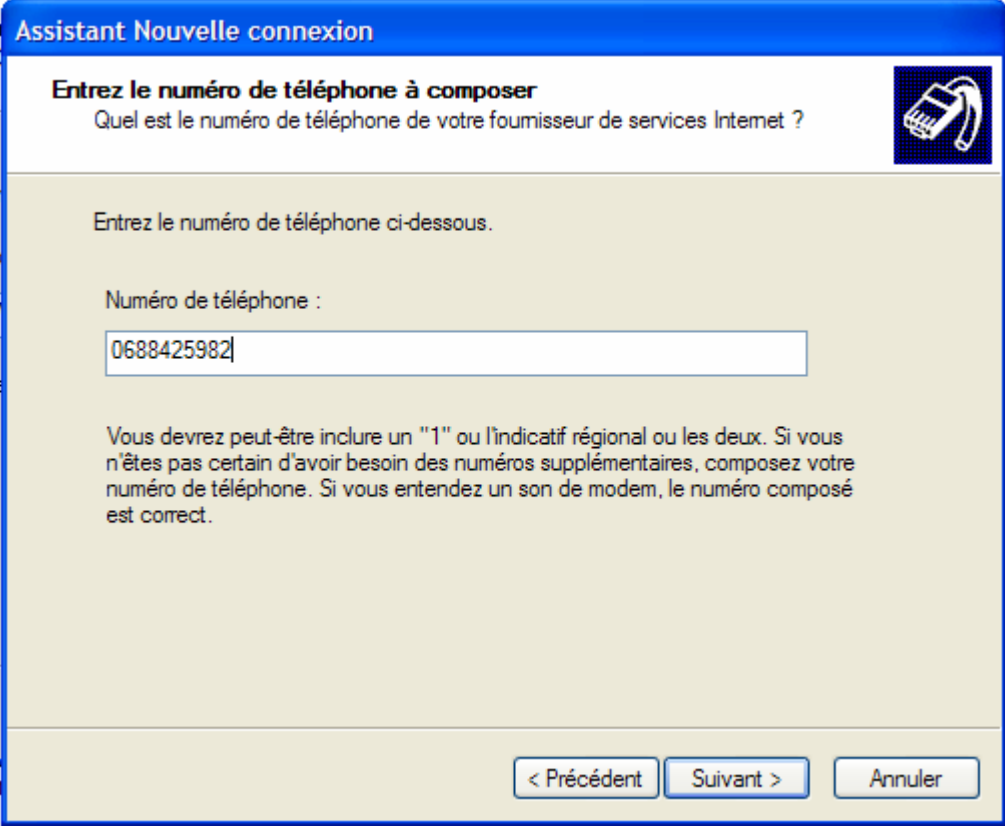
WebServerPPP

Le nom que vous entrez ici sera le nom de la connexion que vous créez.

< Précédent Suivant > Annuler

Give a name to this connection.

Enter the phone number of the MODEM connected to the Web Server



Assistant Nouvelle connexion

Entrez le numéro de téléphone à composer
Quel est le numéro de téléphone de votre fournisseur de services Internet ?

Entrez le numéro de téléphone ci-dessous.

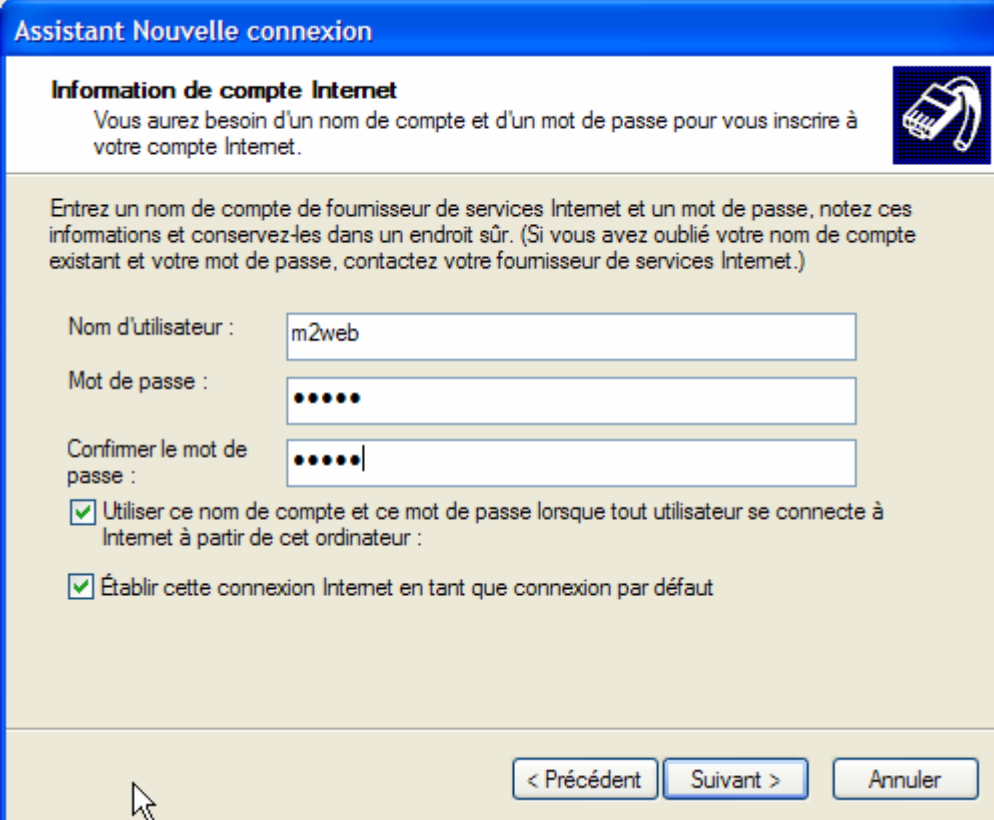
Numéro de téléphone :

0688425982

Vous devrez peut-être inclure un "1" ou l'indicatif régional ou les deux. Si vous n'êtes pas certain d'avoir besoin des numéros supplémentaires, composez votre numéro de téléphone. Si vous entendez un son de modem, le numéro composé est correct.

< Précédent Suivant > Annuler

Enter the user name: m2web and password: modem



Assistant Nouvelle connexion

Information de compte Internet

Vous aurez besoin d'un nom de compte et d'un mot de passe pour vous inscrire à votre compte Internet.

Entrez un nom de compte de fournisseur de services Internet et un mot de passe, notez ces informations et conservez-les dans un endroit sûr. (Si vous avez oublié votre nom de compte existant et votre mot de passe, contactez votre fournisseur de services Internet.)

Nom d'utilisateur :

Mot de passe :

Confirmer le mot de passe :

☒ Utiliser ce nom de compte et ce mot de passe lorsque tout utilisateur se connecte à Internet à partir de cet ordinateur :

☒ Établir cette connexion Internet en tant que connexion par défaut

< Précédent Suivant > Annuler



Assistant Nouvelle connexion

Fin de l'Assistant Nouvelle connexion

Vous avez terminé les étapes nécessaires pour créer la connexion suivante :

WebServerPPP

- Établir cette connexion en tant que connexion par défaut
- Partager avec tous les utilisateurs de cet ordinateur
- Utiliser le même nom d'utilisateur et le même mot de

La connexion sera enregistrée dans le dossier "Connexions réseau".

☐ Ajouter un raccourci vers cette connexion sur mon Bureau

Pour créer la connexion et quitter l'Assistant, cliquez sur Terminer.

< Précédent Terminer Annuler

The PPP Client side connection configuration is finished.

Now we need to configure the Web Server:

In the eTiceSoft workshop, click on the check box "activate PPP Server":

Advanced configuration of the WebServer

MODBUS RTU Parameters
MODBUS Baudrate: 19200 bps Parity: None Advanced settings

System clock source
Other (MODBUS) Address: 4

Declaration of Milleniums connected to WebServer
☒ Connected as contiguous extension (Millenium II only)
☐ Connected on MODBUS RTU (RS485)

Reset registers IXC or IXN for each new project transfer or reboot
☒

MODEM Parameters (for SMS and PPP Connections)
☒ **Activate PPP Server**

SIM Card parameters
PIN Code of the SIM Card: 0000
PUK Code of the SIM Card (if locked):

RS232 parameters for communication with the MODEM
Select the MODEM: GPRS-WAVECOM:FASTRACK(M1306B)
Baudrate: 115200 Bauds
Hardware flow Control RTS/CTS: ☒

PPP Client parameters
Phone number of the PPP Internet Provider: *99***1#
LOGIN: orange PASSWORD: orange
PPP Authentication Method: PAP
GPRS APN (only for GPRS MODEM): internet-entrepris
Connection program: Periodical (or for sending eMails)
Connection start at: 0 H 0 min End: 0 H 0 min

Informations and Malfunctions (Faulty Millenium connections, enable to archive, or other system informations)
If MODEM, Phone Number of the person to be notified: +33630955459
If service activated, eMail address of the person to be notified: tddp@free.fr
Sending a SMS for internal alarm: ☐
Use history file (LOGFILE.TXT): ☒

Network services
Company's Mail address: tddp@free.fr
☒ eMail service active (SMTP Client)
☒ DNS Client
☐ DynDNS Client (Dynamic DNS)

Parameters of the eMail Server (SMTP Server)
Domain Name of the SMTP Server: smtp.orange.fr
IP Address of the SMTP Server: 0 . 0 . 0 . 0

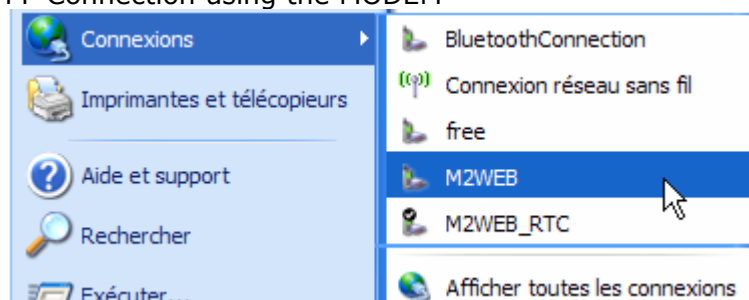
DNS Servers parameters
Primary DNS IP Address: 0 . 0 . 0 . 0
Secondary DNS IP Address: 0 . 0 . 0 . 0

Cancel Create the configuration file and put it in UpLoad list

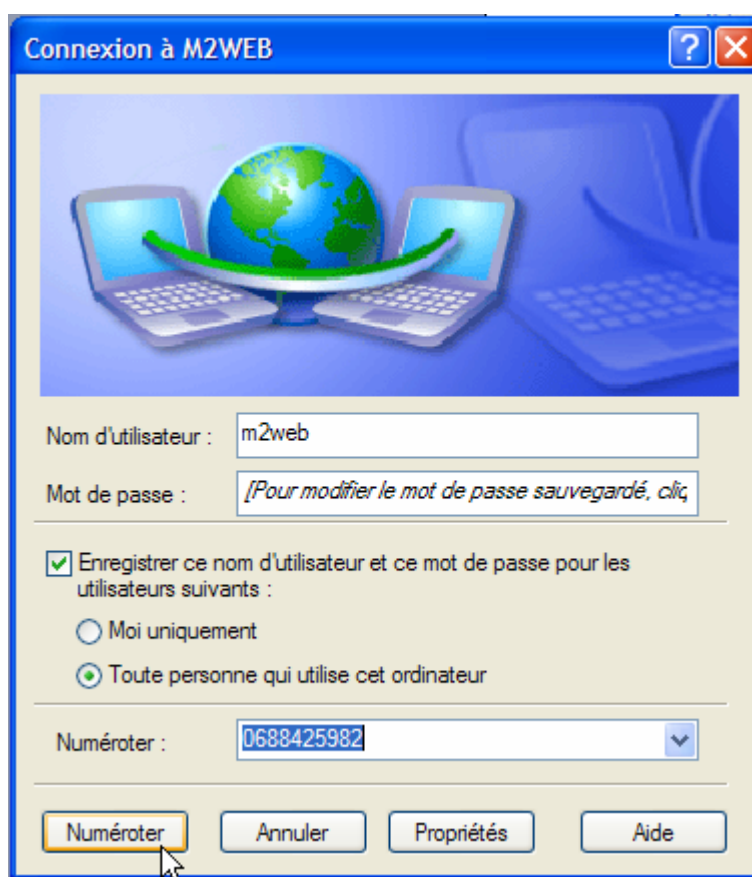
Create the file, compile the project and transfer it to the Web Server.

When done, wait about 5 minutes, this is the time needed by the Web Server to initialize correctly its PPP Server.

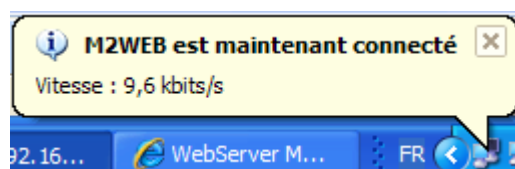
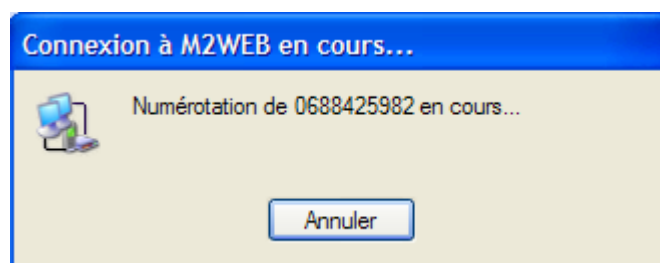
Then Open the PPP Connection using the MODEM



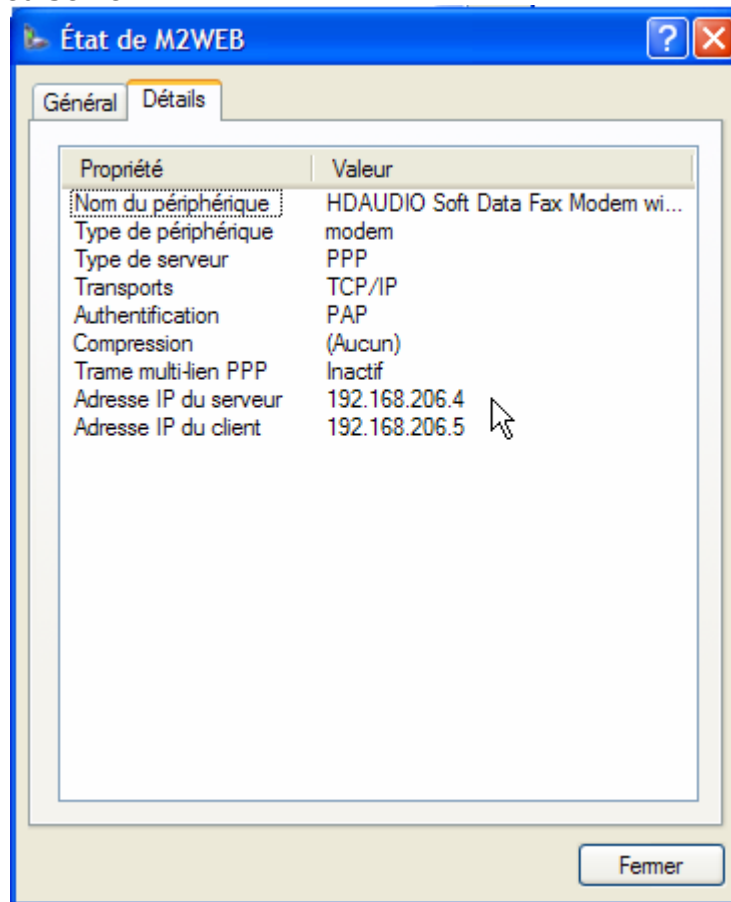
Then press "compose" button:



The following message appears:

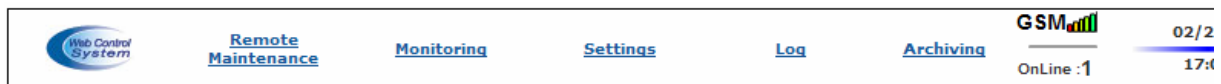


If you click on this last message, you'll see the connection status and specially the IP address of the Web Server:



Then you since the connection is established, you only have 50 seconds to enter this address in the Web browser:





Configuration panel

TCP/IP Settings - Ethernet

ID :	M2Web	IP Address :	192.168.0.5
MAC :	00-30-56-80-24-AD	Subnet Mask:	255.255.255.0
DHCP Client enabled :	<input type="checkbox"/>	Default gateway :	192.168.206.5
HTTP Port :	1280		

Reconfigure

PPP Status

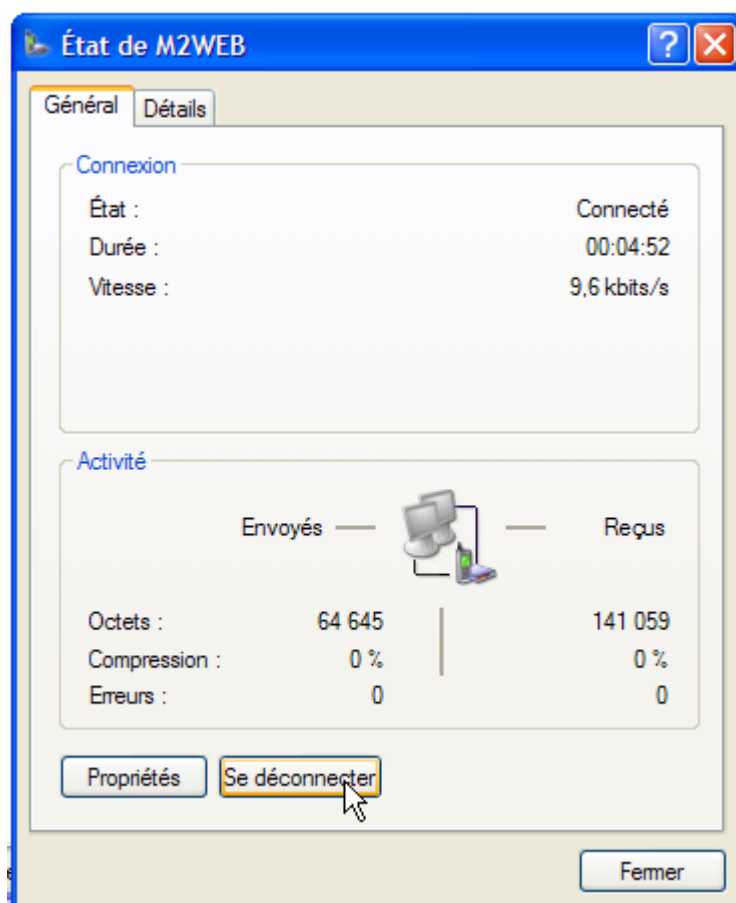
PPP Server session in progress : IP=192.168.206.4, Remote IP=192.168.206.5
Program : Connection : 00:00 - Disconnection : 00:00

Automatic Mode Manual mode

Restore configuration settings Connect PPP Client (disconnect automatic mode)

Disconnect from PPP Network (stay in manual mode)

To disconnect from the PPP Server of the Web Server, click on disconnect button:



7 Sending mails and SMS

Fill in the fields and select the variable as described here:

The screenshot shows the 'Events and archiving' window. At the top, there is a table titled 'List of events and associated actions'.

#	Variable	Actions	Information
1	Counter value	Filing	Counter current value () =
2	backlight comr	Filing	backlight () = <&V1B1V15&
3	button A	SMS Mail	button A of Millenium 3 pres

Below the table, it says 'Number of available events = 96'.

Under 'Selecting and attributing parameters related to the event', there is a button 'Visualize the monitored state'.

Under 'Select the condition to be fulfilled to trigger the action', the 'When' radio button is selected. The condition is 'button A' followed by '=' and a dropdown menu set to '1'.

There are also options for 'Periodically, every' with fields for hours (0), minutes (1), and seconds (40).

Under 'Description of the action to be performed when the condition is true', the 'Send by SMS (if MODEM connected to RS232 port)' checkbox is checked. The 'Recipient's Phone number' is '+3363056265'. The 'Send by e-Mail (if SMTP Server configured)' checkbox is also checked. The 'Recipient's e-Mail address' is 'tddp@free.fr'. The 'Archive the data' checkbox is unchecked.

There is a text field for 'Text of message to be sent (100 characters max.)' containing 'button A of Millenium 3 pressed'.

At the bottom, there are 'Delete' and 'Close' buttons.

Select the data resulting from button A status in our Millenium 3 program.

The screenshot shows the 'Selection of Process Data' window. Under 'Source of the variable', the first radio button is selected: 'The Variable results from Millenium (Adjacent or connected to MODBUS)'. The other two options are 'The Variable comes from another MODBUS Slave' and 'This Variable must a property of a component'.

Below this, there is a dropdown menu showing '1) Millenium 3 - XN03 - MODBUS Address:1'.

Under 'Communication BUS', the dropdown is set to 'MODBUS'. The 'Millenium Slave Address' is '1'.

Under 'Data type', the 'Bit' radio button is selected. The 'Millenium Reference' is '0' and '4 XN'.

There is a 'Select the bit' section with a row of 16 radio buttons numbered 15 down to 0. The radio button for bit 0 is selected.

Below this is the 'Behavioral Parameters of the variable' section, which is currently empty.

At the bottom, there is a text field for 'Mnemonic for the Variable' containing 'button A'.

At the very bottom, there are 'Apply' and 'Close' buttons.

SMS can only be send if a GPRS MODEM is used.

8 Using DynDNS

DynDNS is useful with the usage of PPP Client.

This service associates a URI to a public IP address.

As you know when you establish a PPP client connection, the ISP PPP Servers gives a Public IP Address.

When it gets it, the Web Server first tries to send an email containing this IP address to a defined recipient.

With DynDNS, this operation is not needed, because only a well known URI defined on the subscription to the DynDNS account is enough to get connection anywhere in the world.


To use this service, the Web Server integrates a DynDNS client enable the Web Server to refresh a defined account with the new IP Address on the DynDNS Server.

8.1 Creating DynDNS account

How to create this account?

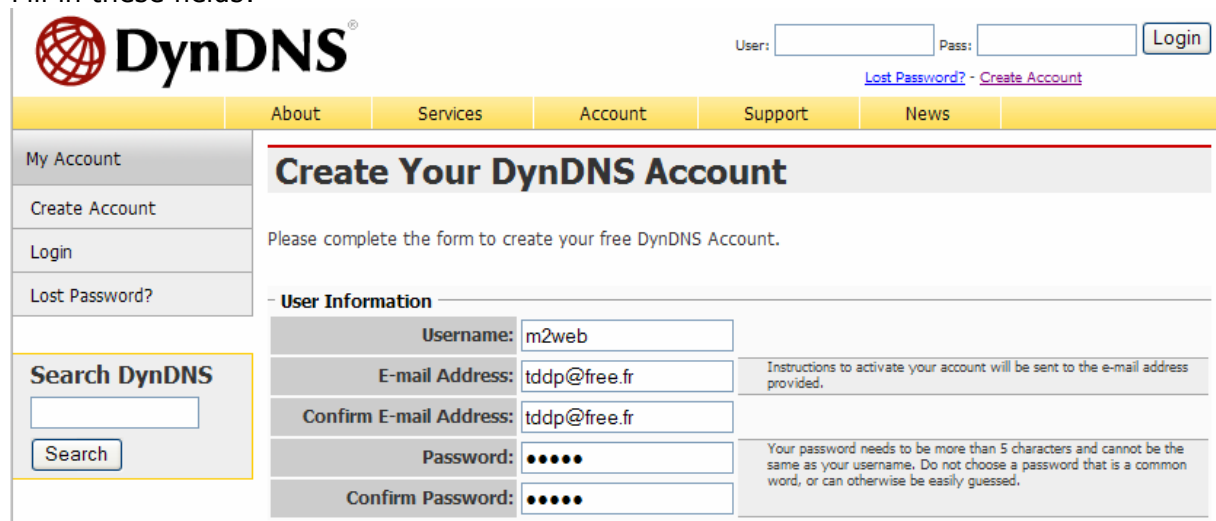
Let us do it:

Open Web Browser and go to this URI <http://www.dyndns.com/>
Click on [create account](#)



The screenshot shows the DynDNS homepage. At the top, there's a navigation bar with links: About, Services, Account, Support, News. Below this, there's a large banner with the text "Invisible Reliability, Obvious Value." and a list of features: "Run your own server", "Mail delivery solutions", "Static and dynamic IPs", "Easy-to-use web interface", and "Top-notch technical support". To the right of the banner, there's a section titled "DNS Services" with sub-sections: "MailHop Services", "Network Monitoring", and "SSL Certificates". At the bottom, there's a "News" section with the headline "DynDNS Earns ICANN Accreditation".

Fill in these fields:



The screenshot shows the "Create Your DynDNS Account" form. The form is titled "Create Your DynDNS Account" and contains the following fields: "Username" (with the value "m2web"), "E-mail Address" (with the value "tddp@free.fr"), "Confirm E-mail Address" (with the value "tddp@free.fr"), "Password" (with masked characters "*****"), and "Confirm Password" (with masked characters "*****"). There are also instructions for the password: "Your password needs to be more than 5 characters and cannot be the same as your username. Do not choose a password that is a common word, or can otherwise be easily guessed." The form is part of a larger page with a sidebar on the left containing links: "My Account", "Create Account", "Login", and "Lost Password?". There is also a "Search DynDNS" section in the sidebar.

I agree to the AUP: ☒

You need to agree to the AUP before we can create your account.

I will only create one (1) free account: ☒

You need to read and agree to the multiple account statement.

Mailing Lists (optional)

DynDNS maintains a number of mailing lists designed to keep our users informed about product announcements, client development, our company newsletter, and our system status. Please use the checkboxes below to alter your subscription preference. Your subscription preference may be changed at any time through the [account settings](#) page.

newsletters: ☐

press-releases: ☐


system-status: ☐

Next Step

After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)

Create Account

Then click on create account,
The following message appears.
You've received an eMail containing the activation URI

 **DynDNS**[®]

User: Pass:

[Lost Password?](#) - [Create Account](#)

AboutServicesAccountSupportNews

My Account

Create Account

Login

Lost Password?

Search DynDNS

Account Created

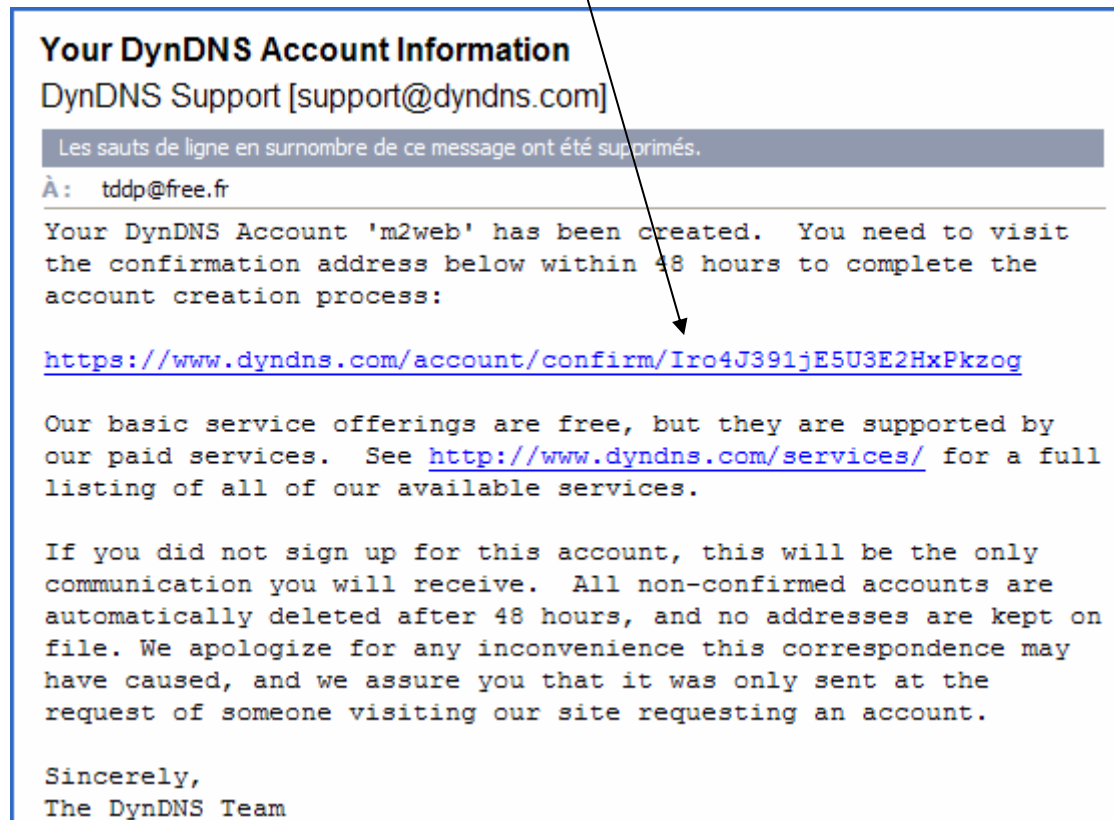
Your account, m2web, has been created. Directions for activating your account have been sent to your e-mail address: tddp@free.fr. To complete registration, please follow the directions you receive within 48 hours.

You should receive the confirmation e-mail within a few minutes. Please make certain that your spam filtering allows messages from support@dyndns.com to be delivered. If you have not received this e-mail within an hour or so, request a [password reset](#). Following the instructions in the password reset e-mail will also confirm your new account.

Thanks for using DynDNS!

Copyright © 1999-2006 [Dynamic Network Services, Inc.](#) - [Privacy Policy](#) - [Acceptable Use Policy](#) - [Trademark Notices](#)

Then open your mail and click on the link:



You can then login the account to access DynDNS account services.
(here login:m2web, password:crouzet)

The screenshot shows the DynDNS login page. At the top, there is a red header with the word "Login" in white. Below the header, there is a section titled "Account Login". Inside this section, there are two input fields: "Username:" with the value "m2web" and "Password:" with a masked password "•••••". To the right of the password field is a "Login" button. A mouse cursor is pointing at the "Login" button. Below the login section, there is a gray box with the text: "You must have cookies enabled to access your account. ([Why Cookies?](#))".

Then click on add host service:

The screenshot shows the DynDNS website interface. At the top, there's a navigation bar with links: About, Services, Account, Support, News. A user is logged in as 'm2web'. On the left, a sidebar menu lists various services, with 'Add Host Services' highlighted. The main content area is titled 'Add Host Services' and is divided into four sections: DNS Services, WebHop Services, Network Services, and SSL Certificates. Each section contains links to add specific services, such as 'Add Dynamic DNS Host' and 'Add Static DNS Host'.

And Add Dynamic DNS Host:
Filling these fields:

The screenshot shows the 'New Dynamic DNS Host' form. It contains the following fields and options:

- Hostname:** A text box containing 'm2web' and a dropdown menu showing 'selfip.info'.
- IP Address:** A text box containing '62.147.23.219'.
- Enable Wildcard:** A checkbox that is checked.
- Mail Exchanger (optional):** A text box and a checkbox labeled 'Backup MX?'.
- Buttons:** 'Add Host' and 'Reset Form'.

The account configuration is now finished.

8.2 Configuring the Web Server's DynDNS client

You have to fill in the DynDNS fields in the eTiceSoft definition project:

Advanced configuration of the WebServer

MODBUS RTU Parameters
MODBUS Baudrate: 19200 bps Parity: None Advanced settings
System clock source: Other (MODBUS) Address: 4

Declaration of Milleniums connected to WebServer
☒ Connected as contiguous extension (Millenium II only)
☐ Connected on MODBUS RTU (RS485)
Add to List

Id	Connecté à	Type	Adresse
1	MODBUS	XN03 (Millenium 3)	1

☒ Reset registers IXC or DXN for each new project transfer or reboot

MODEM Parameters (for SMS and PPP Connections)
☒ **Activate PPP Server**
SIM Card parameters: PIN Code of the SIM Card: 0000 PUK Code of the SIM Card (if locked):
RS232 parameters for communication with the MODEM: Select the MODEM: GPRS-WAVECOM:FASTRACK(M1306B) Baudrate: 115200 Bauds Hardware flow Control RTS/CTS: ☒

PPP Client parameters
Phone number of the PPP Internet Provider: *99***1# GPRS APN (only for GPRS MODEM): internet-entrepris
LOGIN: orange PASSWORD: orange Connection program: Periodical (or for sending eMails)
PPP Authentication Method: PAP Connection start at: 0 H 0 min End: 0 H 0 min

Informations and Malfunctions (Faulty Millenium connections, enable to archive, or other system informations)
If MODEM, Phone Number of the person to be notified: +33630955459 Sending a SMS for internal alarm: ☐
If service activated, eMail address of the person to be notified: tddp@free.fr Use history file (LOGFILE.TXT): ☒

Network services
Company's Mail address: tddp@free.fr
☒ eMail service active (SMTP Client)
☒ DNS Client
☒ DynDNS Client (Dynamic DNS)

Dynamic DNS Client (uses outgoing TCP Port 80)
DynDNS Server URI: members.dyndns.org/nic/update DynDNS Account: LOGIN: m2web
Host name of M2Web: m2web.selfip.info PASSWORD: crouzet

Parameters of the eMail Server (SMTP Server)
Domain Name of the SMTP Server: smtp.orange.fr
IP Address of the SMTP Server: 0 . 0 . 0 . 0

DNS Servers parameters
Primary DNS IP Address: 0 . 0 . 0 . 0
Secondary DNS IP Address: 0 . 0 . 0 . 0

Cancel Create the configuration file and put it in UpLoad list

As you can see, we've just copied the account parameters and the host settings of the DynDNS service.

Now compile the project and transfer it.

And that's all folks!

When the PPP Client of the Web Server will establish a link to ISP PPP Server it will refresh automatically the IP address of the DynDNS account.
Then a user will just have to enter the following URI:

www.m2web.selfip.info:1280

(The: 1280 port specification is here used because we're using a GPRS MODEM connection to an APN and we've defined it in the Web Server)

Here's the Web Server negotiation (TELNET) with the DynDNS:

```
root@n2web:~# telnet 63.208.196.95
DynDNS request : n2web:crouzet@members.dyndns.org/nic/update?hostname=n2web.self
ip.info&myip=80.10.39.186&wildcard=NOCHG
DynDNS HTTP Server IP : 63.208.196.95
GET /nic/update?hostname=n2web.self ip.info&myip=80.10.39.186&wildcard=NOCHG HTTP
/1.1
User-Agent: HTTP Client M2Web
Host: members.dyndns.org
Connection: Keep-Alive

Answer : HTTP/1.1 200 OK
Date: Thu, 22 Feb 2007 20:28:51 GMT
Server: Apache/1.3.33 (Unix) mod_perl/1.29
Content-Type: text/plain; charset=ISO-8859-1
Connection: close
Transfer-Encoding: chunked

11
good 80.10.39.186
0
```

And the corresponding mail of the PPP Client of the Web Server:

```
De : tddp@free.fr
À : tddp@free.fr
Cc :
Objet : M2Web - System Status Mail
```

M2Web is OnLine (PPP Client) Address : 80.10.39.186

End of Message.

Now let use this nice feature:



In the Configuration we can see that the PPP Client is connected:

