

eTiceSoft

The Web Server configuration tool



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1 – Environment

MilleniumII Web can be programmed and configured using the « **eTice_soft** » software workshop. This requires connection to a PC.

1.1 Installing the eTice_soft Software Workshop

Insert the CD containing the « eTice_soft » software and follow the instructions displayed, or, from the workstation, select the CD ROM unit and run the « SETUP » file. The program can be installed on as many PCs as desired.

NOTE, check that each computer workstation connected to the Ethernet network has an Internet navigator and that the FLASH PLAYER software is installed on each.

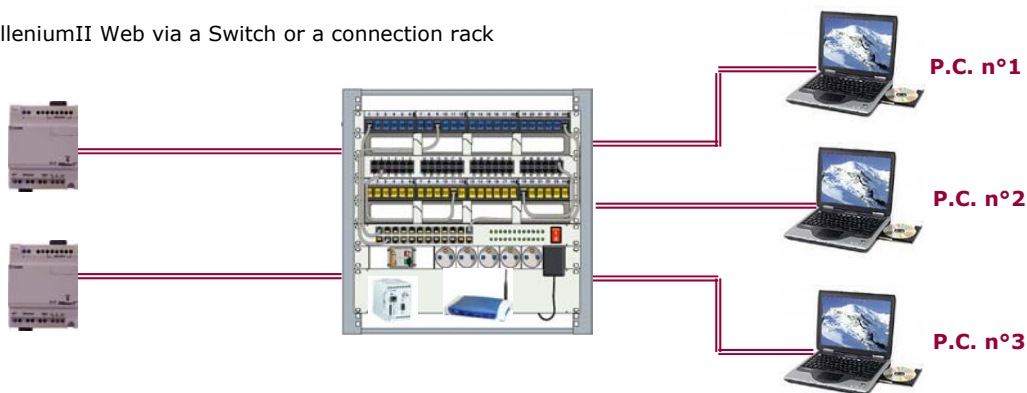
If the « FLASH PLAYER » software is not installed, there is an installation file specific to « FLASH PLAYER » on the eTice_Soft CD ROM.

1.2 Connection to the PC

WARNING It is imperative that the MilleniumII Web be powered by 24V DC or 12V DC ! Do not connect it to 230V or the device will be destroyed once and for all !

MilleniumII Web's green indicator light should be lit, if it is not, this means that MilleniumII Web is not powered or that its power supply wires have been inverted.

a – MilleniumII Web via a Switch or a connection rack



The control rack must be powered, and MilleniumII Web's RJ45 connector must be connected to the Ethernet network (to the SWITCH in the connection rack) using a non-twisted computer cable.

Once MilleniumII Web is connected to the ETHERNET network, the red LED flashes as network traffic takes place. The Millenium is powered : its screen displays information.

b – MilleniumII Web connected directly to a PC

The MilleniumII Web WEB server is connected as an adjacent extension to the logic controller.



The control rack must be powered, and MilleniumII Web's RJ45 connector connected directly to the P.C. using a twisted computer cable.

When MilleniumII Web is connected to the ETHERNET network, the red LED flashes as network traffic occurs. The Millenium is powered : its screen displays information.

1.3 Connection to the « Millenium II » Logic Controller

The MIIWEB WEB server extension is connected to the lateral adjacent extension of the « Millenium II » logic controllers in the XT20 range ONLY using a pin connector.



1.4 Connection to the MODBUS Network

As a MODBUS Master WEB server, MIIWEB communicates with all 3-wire RTU MODBUS slaves (RS485). MIIWEB operates on RTU MODBUS on an RS485 connection. In this configuration it is theoretically possible to connect 31 slaves over a maximum distance of 1200m.

Each slave is identified on the BUS by an address which must be unique (between 1 and 255).

So MIIWEB is the sole Master in the network, its role is to interrogate the slaves or to transmit commands to them using the functions defined in the RTU MODBUS protocol.

The Millenium logic controllers (or other APIs) can be connected to the RTU MODBUS network via a MODBUS slave adjacent extension (for Millenium II, Crouzet P/N : XC03 or XC04).

The maximum transmission rate imposed by the Millenium is 57600 Bauds, but the recommended rate is 19200 Bauds (default value).

It is imperative that all the devices connected to the RTU MODBUS network controlled by MilleniumII Web be **SLAVES**.

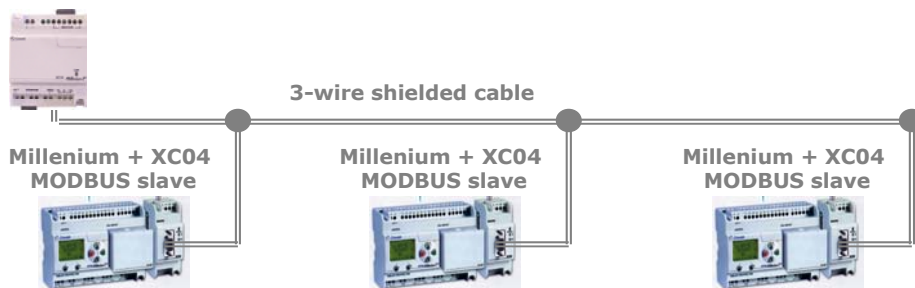
The signals used for an RTU MODBUS connection under RS485 are :

- TX+ (A)
- TX - (B)
- Ground

The communication parameters to be set for a network driven by MilleniumII Web are :

- Network type : RTU MODBUS
- Connection type : RS485 (2 wires)
- Transmission rate (or data flow) : from 300 to 57600 bps (19200 by default)
- Parity : None
- Length of a data word : 8 bits
- Stop bit : 1

MilleniumII Web : MODBUS Master



1.5 Connection to a Modem

Where a GPRS modem is connected to MilleniumII Web, this connection uses the MilleniumII Web's RS232 port marked MODEM.

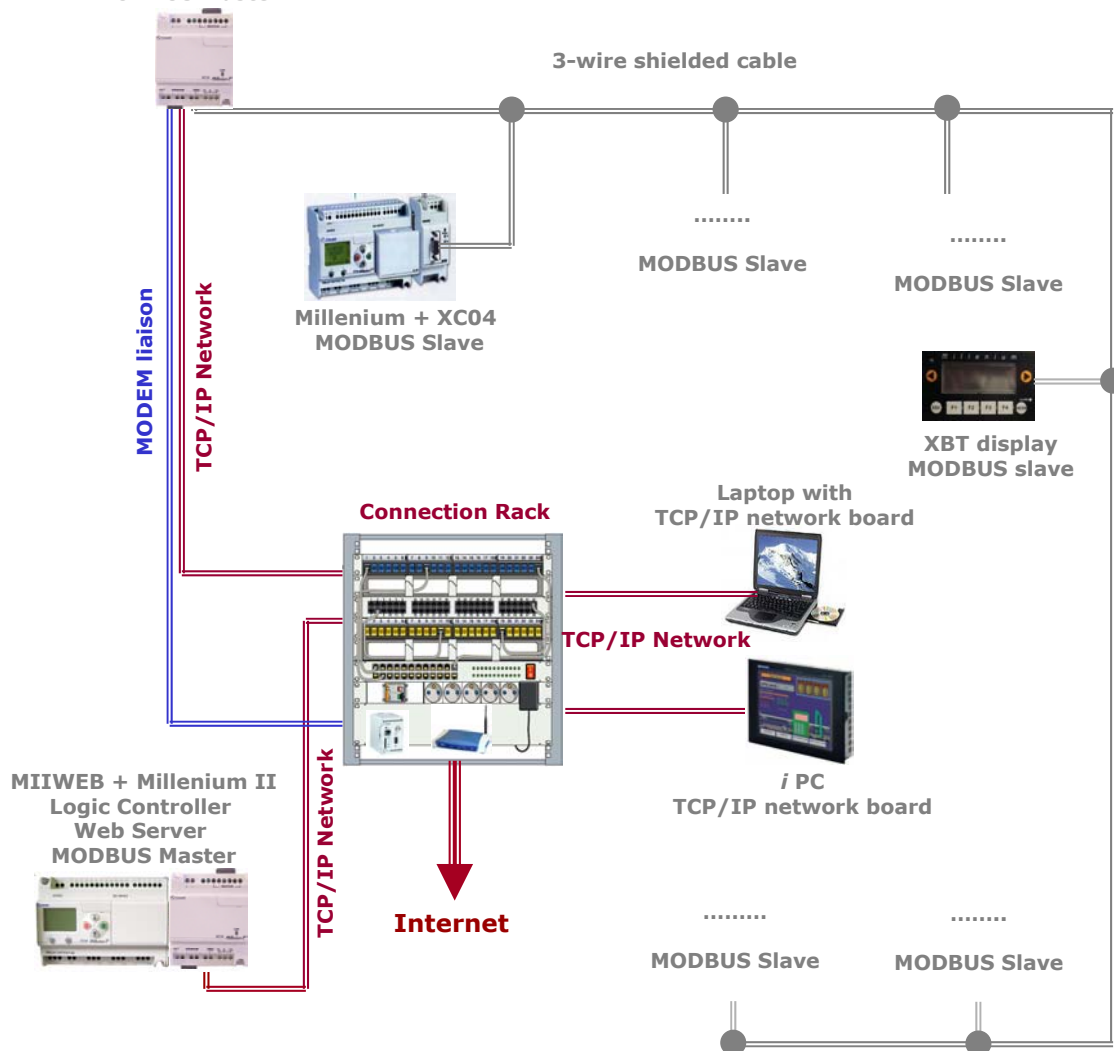
Warning; when first powered up, the MODEM must not be fitted with the SIM card before the system has been configured.

Otherwise there is a risk of locking up the card, since the MODEM does not yet know its code. In this event, contact your GSM network provider.

Refer to the MilleniumII Web WEB server documentation to be sure to follow the correct procedure for connecting a modem to MilleniumII Web.

1.6 Example of a Communicating Architecture Based on MilleniumII Web

MIIWEB : WEB Server
MODBUS Master



2 – Presentation and Functions

2.1 eTice_soft, the Key for Implementing MilleniumII Web Successfully

The association of the MilleniumII Web WEB server and its « eTice_soft » software is a simple solution for implementing Internet technology serving control command applications. The skills required to configure it are equivalent to an electrician's know-how.

Only the eTice_soft software provides for managing all the MilleniumII Web functions.

2.2 The Functions

2.2.1 *Configuring MilleniumII Web*

Possibility of automatic configuration of the web server (IP address,). Managing access rights (3 levels). It provides for configuring MilleniumII Web so as to dialog with all the communicating elements in MilleniumII Web's environment.

2.2.2 *Generating Monitoring WEB Pages Using the Mouse*

Programming the monitoring for the Internet protocol is achieved « graphically » by incorporating a compiler, which is accessible to any electrician (with no HTML, Java Script, C++, ... programming). The aim of the WEB pages is to drive and display the state of the actuators and sensors managed by a control command unit (e.g. access control, illuminated signals, pumping, ...) in the form of animated graphics from an Internet navigator.

2.2.3 *States Monitored (Archiving) and Conditional Action : The Events*

MilleniumII Web is capable of monitoring states output from the systems with which it communicates continuously (every scan cycle). When a state fulfils a pre-programmed condition, then MilleniumII Web can take action.

Such conditional action may be :

- To archive the state. The data archived is filed by date, time, and the name of the variable.
- To send an eMail or an SMS (e.g. : alarm processing) to a programmable addressee
- To recopy a word to another RTU MODBUS slave

The threesome « State – Condition – Action » constitutes an event.

MilleniumII Web is limited to 100 events. From the Archiving WEB page the change in each event and the associated parameters can be displayed in graphic form.

The archive file is a Text file (Tab Tab Return) whose format is compatible with most Spreadsheets on the market (e.g. : EXCEL®) and can be downloaded from eTiceSoft or from a simple FTP client.

2.2.4 *« MODBUS Gateway »*

This function enables an exchange table of MODBUS words between different RTU MODBUS slaves connected to MilleniumII Web to be created. In this way, a word in a slave (source) can be read and copied to a word in another slave (destination).

2.2.5 *Downloading Module*

The software offers a solution for controlling the entire Ethernet network. By simply clicking on the mouse, it searches for all the MIIWEBs connected to the VDI network (Intranet) and then downloads the embedded programs into the appropriate MIIWEB WEB server for the desired application.

2.2.6 *Internet Navigator*

With a simple Internet navigator, the « MIIWEB » Web server performs monitoring, remote maintenance, remote configuration, archiving and MODBUS network management tasks (no proprietor supervising the system, no licence for each monitoring station and especially, no PC dedicated to the server).

3 – First Steps

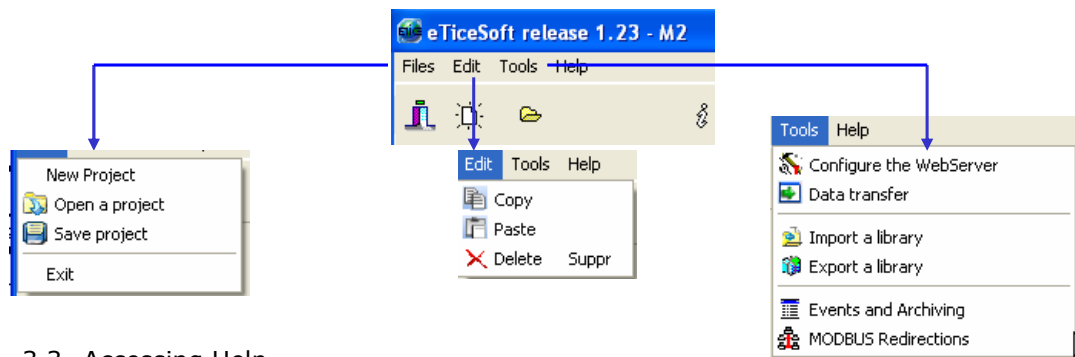
3.1 Starting the Software

Open the « eTice_Soft » software which you have previously installed on the PC you will be using.



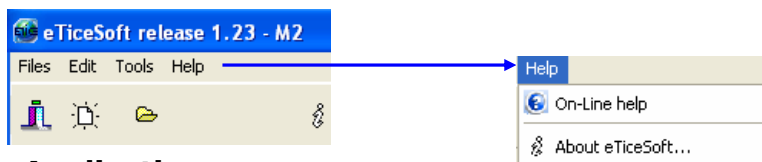
3.2 The Menu Bar

The menu bar has four headings : Files, Edit, Tools and Help.



3.3 Accessing Help

The eTice_soft software help is in HTML format and is accessible from the menu bar : Click on « **Help** » to display the following window :



4 – Starting an Application

4.1 Configuring MilleniumII Web

4.1.1 Why Configure MilleniumII Web

On leaving the factory, the MIIWEB WEB server has its own parameters and the user must configure the TCP/IP stack and its environment using the « eTice_soft » software.

The following items must be configured for the WEB server to operate correctly :

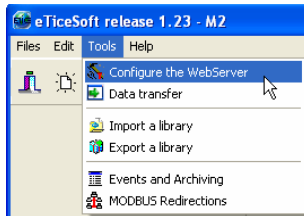
- Allocate the network address as a function of the network in the neighbourhood,
- Define user rights, the identification and session codes,
- Define communication-related parameters, type of extension connected to MIIWEB (for example : addresses of the Milleniums connected whether adjacent or MODBUS).
- the WEB pages related to your control command applications.

4.1.2 Modifying a Parameter

This configuration phase provides for configuring the « MilleniumII Web » web server depending on the various peripherals connected :

- « Millenium II » logic controllers, TCP/IP gateway via the MODBUS bus,
- SMTP message server,
- GSM modem (SIM card number),
- DNS clients.

From the eTice_Soft main menu bar, click on the « Tools » tab, then on « Configure the Webserver »



Configure MODBUS communication with the Millenium

Add all the Type and addresses of the « Millenium » controllers driven by the MIIWEB TCP/IP Web server

Select a modem compatible with MIIWEB and fill in the various fields corresponding to your application which communicates via a modem

Where necessary, configure the fields for the DNS server

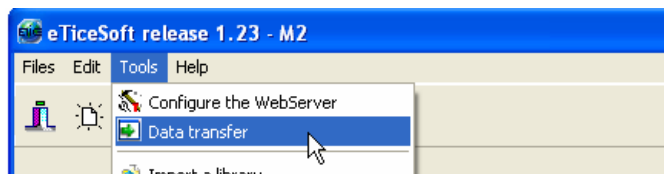
Configure your message server

Click on « Create the file and put it in the downloading list ». This operation creates a configuration file « CONFIG.INI ». NOTE, do not forget to transfer this configuration file into MilleniumII Web via the TCP/IP connection. This operation will take place after compiling the « embedded web site with monitoring pages » project or simply after compiling, in order to transfer the configuration only into MilleniumII Web WEB server (refer to the Data Transfer Chapter).

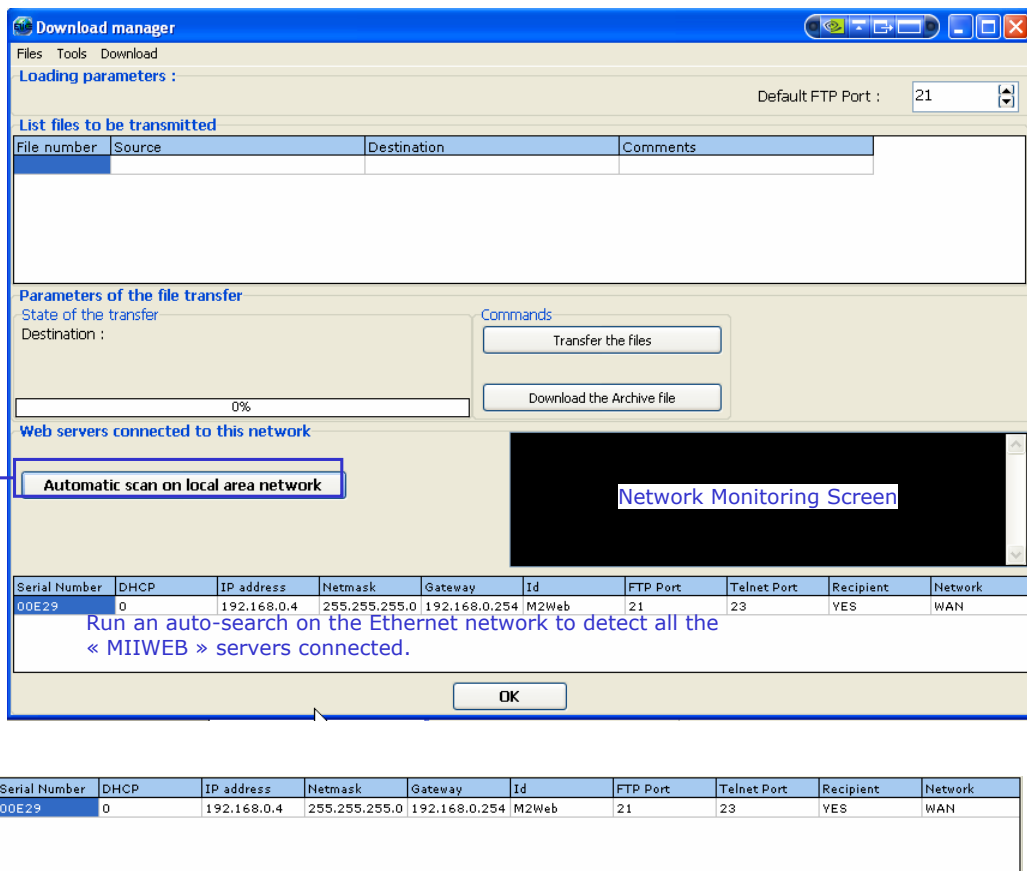
NOTE, the configuration files necessary for MilleniumII Web to operate correctly are downloaded after the project has been compiled !

4.1.3 Search for the MilleniumII Webs Connected to the Intranet Network

From the program main menu bar, click on the « Tools » tab then on « Data transfer ».



The window shown below is displayed.



In this example, only one web server is connected. The user can then download or access the embedded web site from the http function.

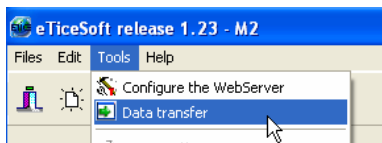
The WebServer devices are identified by their main TCP/IP parameters (Warning, the TELNET and FTP ports must be attributed manually)

- MAC address (serial number)
- IP address
- sub-network mask
- gateway,

4.1.4 Configure MilleniumII Web's TCP/IP Stack

Each parameter in a MilleniumII Web's TCP/IP stack can be modified. There are three ways of configuring them : firstly using the eTice_soft software, secondly from MilleniumII Web's WEB site, lastly, from the TELNET terminal (reserved for experts).

From the software's main menu bar, click on the « Tools » tab, then on « Data transfer ».



Then run the search for the MIIWEBs connected to the Ethernet network (see procedure in Chapter 4.1.3) to identify the web server whose TCP/IP parameters you want to configure.

To change the parameters for a MilleniumII Web, click on the « Auto search on local network » button, then click on the appropriate line in eTice, and finally click on the right mouse button. In the contextual menu which appears, click on « Configure the IP address », the window shown below then opens :

Serial Number	DHCP	IP address	Netmask	Gateway	Id	FTP Port	Telnet
00E29	0	192.168.0.4	255.255.255.0	192.168.0.254	00E29	80	23

Click on OK to close the window
The « MilleniumII Web Downloading Manager » window comes back to the foreground.
Press the « Auto-search » button

IP Address configuration (LAN only)

- HTTP
- Telnet
- FTP
- ping
- Add WebServer in the list
- Delete the selected WebServer from list

Ethernet network parameters to be configured

WebServer IP Configuration

WebServer

General informations

Current IP address of the PC : 192.168.0.45

Serial number or MAC address of the product : 00E29

IP parameters of the WebServer

IP Address : 192.168.0.4

Subnet mask : 255.255.255.0

IP address of the default gateway : 192.168.0.254

Enable the DHCP client ☐

Configure ! Close

Report

Ready

Enter the login + password corresponding to the web server logins (NOTE, for Administrator or Supervisor logins only)

Authentication needed

Enter Supervisor or Administrator session codes

Connection to WebServer 00E29

Login :

Password :

Cancel OK

Change the various fields to reconfigure the IP address.

If the system is connected to a connection rack fitted with an ADSL router or if the network is fitted with a DHCP server, the box « Activate DHCP configuration » may be checked to configure MilleniumII Web's IP address automatically, **otherwise this box must not be checked !**

Click on Reconfigure; MilleniumII Web now takes the new parameters into account and changes its IP address.

Click on OK to close the window.

The « MilleniumII Web Downloading Manager » window comes back to the foreground.

Press the « Auto-search » button; the device is displayed with its new address.

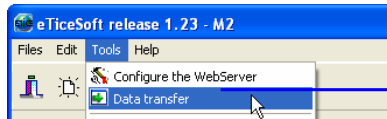
Several parameters need to be configured for the web server, and these adjustments must only be done while connected to the embedded web site from an Internet navigator with the aim, for example, of configuring user identification and login codes (refer to the MilleniumII Web documentation)

4.1.5 Updating MilleniumII Web's Firmware Automatically

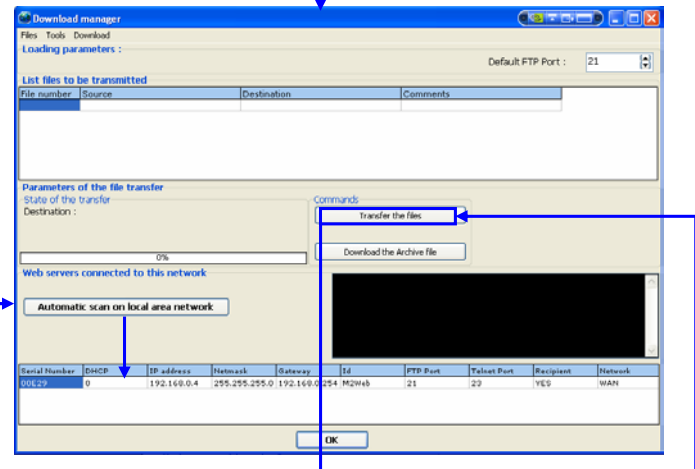
The MilleniumII Web manufacturer improves web server performance and offers the users changes to the « eTiceSoft » software.

When you construct a new project with a new version of the « eTiceSoft » software, on loading the project into the web server, a window opens suggesting that you update the « FIRMWARE » automatically.

From the main menu bar, click on the « Tools » tab, then on « Data transfer »

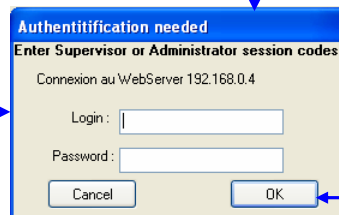


Run an auto search on the Ethernet network to detect the « MIIWEB » web server for which you want to update the Firmware



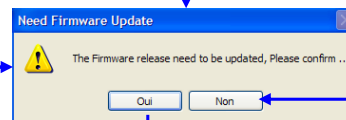
Then, click on Transfer the files, and an authentication window appears

An authentication window appears; enter the session code + password corresponding to the web server logins (NOTE, for Administrator or Supervisor logins only)



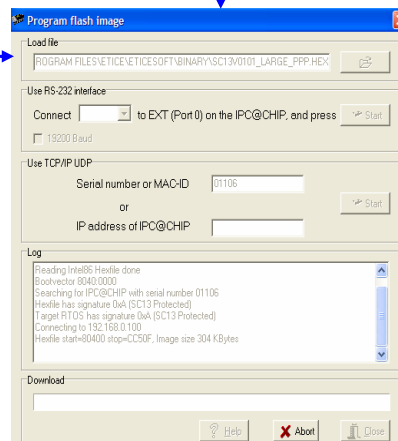
Click on OK

A window appears, asking whether you wish to update the Webserver



Click on Yes

The Firmware update window opens, and the MIIWEB configuration takes place.



Once this is complete, the monitoring window displays the result of the update and the status of the MIIWEB

```
Old Firmware release, need to update...
Firmware updating in progress...
Try to connect with original login to 192.168.0.100...
SUCCESS : 192.168.0.100 : File upload completed...
Remote server is rebooting...wait a minute...
Please close all web browsers...
Transfer procedure completed.
```

4.1.6 Configuring a TCP/IP Network Board in a PC

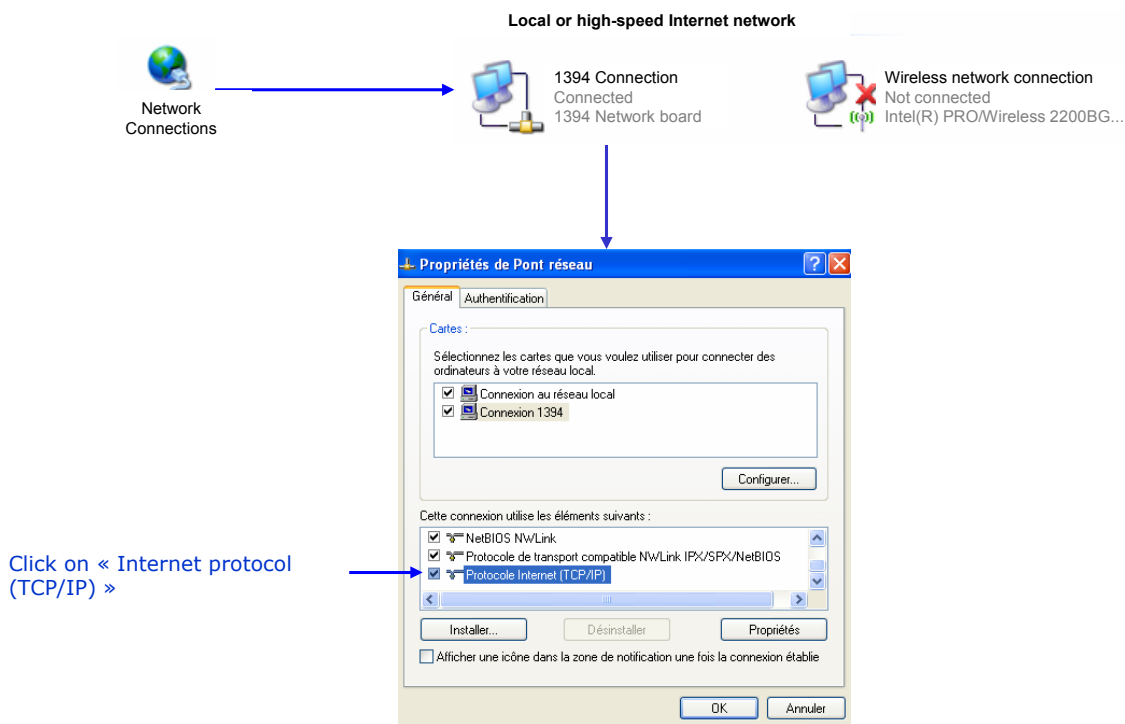
The equipment necessary for the PC to communicate on an Ethernet network is a standard 10/100 Mb network board. This board provides for adding a communication port on the PC corresponding to the standardised RJ 45 cable for an Ethernet network.

The connection for linking a standard PC to an Ethernet network is an RJ45 cable. This cable must be non-twisted for connections between a PC and a Hub or a switch. On the other hand, the cable must be a twisted cable when connecting two separate stations.

Windows versions 9x/2000/NT/XP provide for connecting to an Ethernet network. You have to open a communication window to configure the PC. To do this, click with the right mouse button on « network environment » then on « Properties ». Then a setting window opens in which you enter the PC's IP address. It is also possible to display all the connections and select the network board installed in the computer by clicking on the right button, Properties.

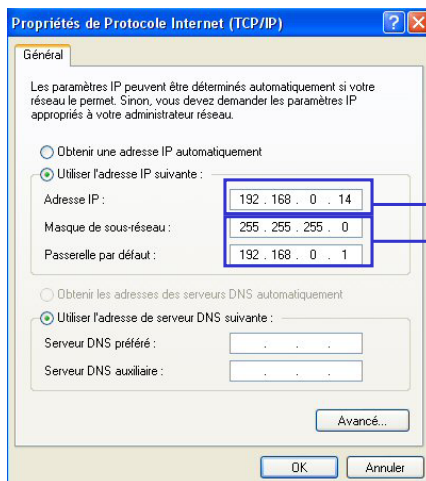
Follow the procedure below to configure the TCP/IP network boards in the PC :

From the Configuration panel in the Windows® environment, double click on « Network connections », then on the network board for your computer workstation



You have to configure Windows for the PC to communicate on an Ethernet network. For an internal network, the PC's IP address must be a Class C address. For example, if the IP address of the MilleniumII Webs is 192.168.0.X, all the computer stations must have the same IP address base, in point of fact 192.168.0.X and the same sub-network mask and default gateway parameters.

Fill in the window below to configure the TCP/IP network board for the computer station



IP Address specific to the PC
Parameters common to all the hardware connected to the Local network (TCP/IP protocol)

4.2 Loading a Program into MilleniumII Web

4.2.1 Loading the Manufacturer's Program into MilleniumII Web

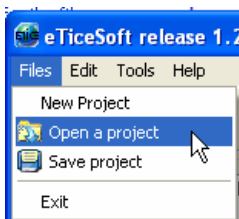
The MilleniumII Web WEB server provides for monitoring, remote maintenance, remote configuration and archiving of an electrical process by WEB pages which can be consulted using a simple Internet navigator.

In this hardware configuration, the programs (WEB pages for example) must be transferred into MilleniumII Web's embedded Web server. The programs must necessarily be downloaded after the program has been compiled or updated.

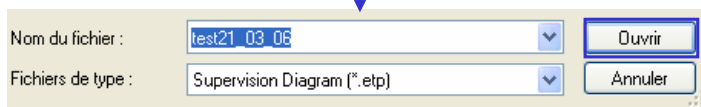
MilleniumII Web regularly interrogates the logic controller(s) (MODBUS slaves) connected to it and formats the data for display on a WEB page of the flash animation type.

Proceed as described below to validate downloading the program and install the web site in MilleniumII Web.


From the main menu bar, click on the « Files » tab, then on « Open »

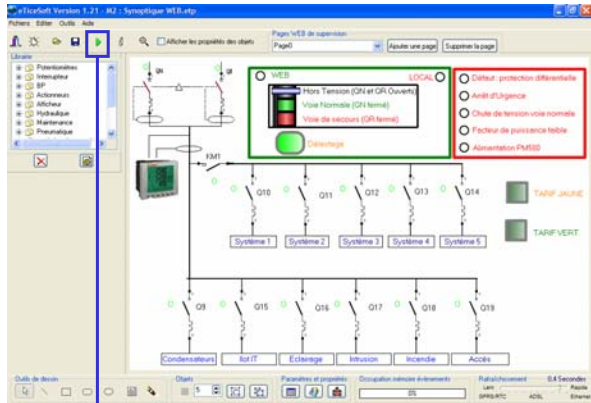


Click on Open, then search for the file corresponding to your project, and click on Open

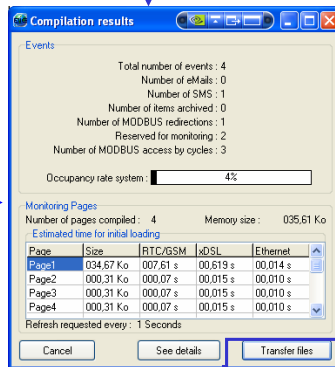


The window below appears:

Compile the program,
by simply clicking on the
«  » icon to generate the files to
be loaded into MilleniumII Web

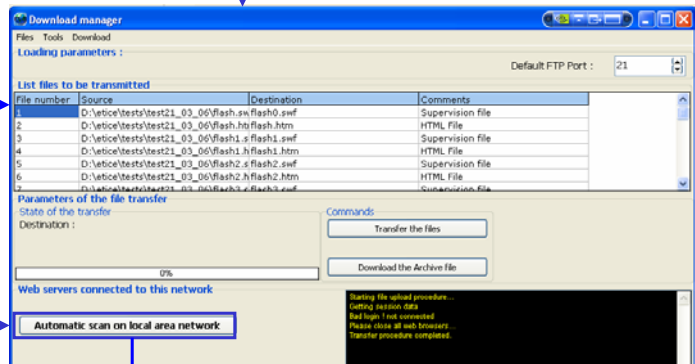


A window opens showing the
compilation report



Click on « Transfer the files »
to access the data transfer
page

The data transfer
window appears



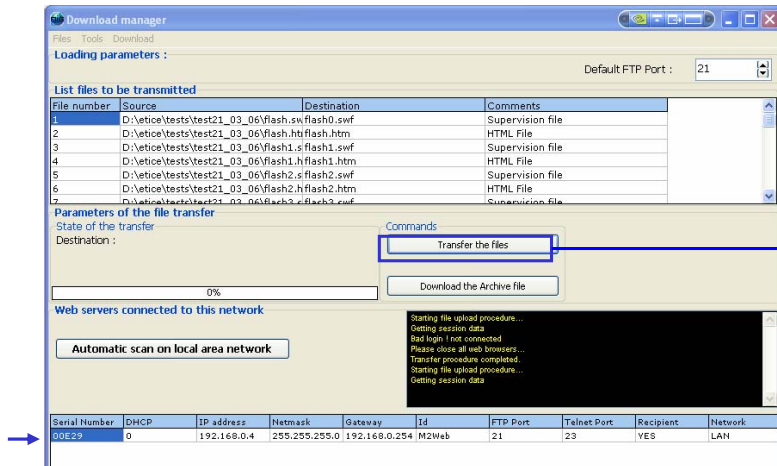
Click on « Auto search on the
local network » to identify the
MIIEWEB corresponding to the
current application

The search result produces a list of the
MIIEWEBs connected to the Ethernet network;
in this case, there is only 1 MIIEWEB with
IP Address: 192.168.0.100

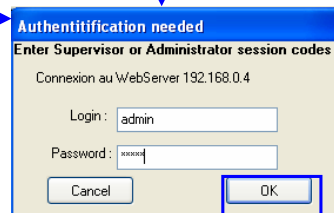
Serial Number	DHCP	IP address	Netmask	Gateway	Id	FTP Port	Telnet Port	Recipient	Network
00221	0	192.168.0.4	255.255.255.0	192.168.0.254	M2Web	21	23	YES	LAN

Select the MIIWEB to receive the files from the list, then click on « Transfer the files ».

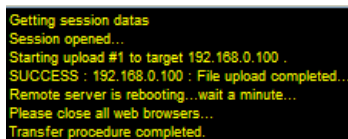
Warning, only the MIIWEB to which the files are to be sent must show YES on its line in the Addressee box, all the others must show NO (click on it to change the state of this box)



An authentication window appears; enter the session code + password corresponding to the web server logins (NOTE, for Administrator or Supervisor logins only)



Click on OK to continue the transfer procedure



Once this is complete, the monitoring window displays the result of the program transfer into the MIIWEB.

Warning, you have to wait for 1 minute before connecting to the web site embedded in MIIWEB

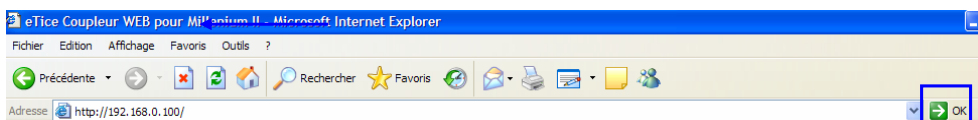
Once the files have been loaded in the MilleniumII Web WEB server, you have to connect to the site using one of two methods (see Chapter 4.2.2)

4.2.2 Accessing the WEB Site Embedded in MilleniumII Web

There are two possible ways of accessing the site embedded in « MilleniumII Web » : the first is via an Internet navigator using the IP address, the second via the « eTice_Soft » software.

✓ 1st method : Accessing the Web site embedded in « MIIWEB » using a simple Internet navigator.

Open an Internet navigator, then, in the URL field, enter the IP address of the MilleniumII Web you want to connect to; the following page appears :



IP Address : 192.168.0.100 and click on OK



The embedded Web site's window appears

Click on « Start a session »

Ouvrir une session

Access to the embedded WEB site is secure, and requires a username and a password.

Factory usernames and passwords :

Login	Username	Password
Administrator	admin	admin
Supervisor	respo	respo
Operator	user	user

Depending on the username and the password entered, the system allows access with different rights as follows :

Rights	Authorised Operations
Administrator	Reconfigure IP parameters, Advanced configuration, Archiving, Possibility of changing the state of the system, Monitoring including sending commands
Supervisor	Reconfigure IP parameters, Archiving, Possibility of changing the state of the system, Monitoring including sending commands
Operator	Display the status of the process, and monitor, without being able to make changes.

After starting a session, a login window appears; enter your identification to access the embedded WEB site application.

Click on OK to access the Web site

Millenium II Web

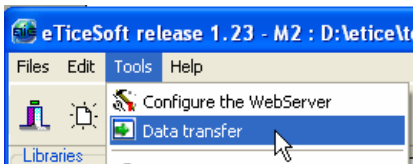
Remote Maintenance Monitoring Settings Log Archiving

2005/10/01 OnLine : 1 FAULT M2 #1

Now you are on MilleniumII Web's embedded WEB site. Each WEB site is structured around an upper menu bar, enabling you to navigate the site, and to access the various functions offered by MilleniumII Web.

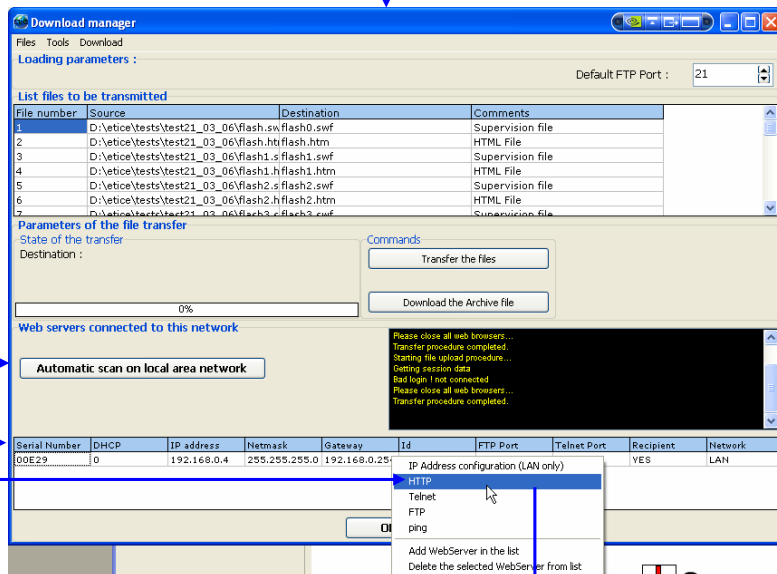
- ✓ 2nd method : Accessing the WEB site embedded in « MilleniumII Web » from the « eTice_Soft » software should the user have forgotten the web server's IP address.

Open the eTice_Soft program, and click on « Tools », then on « Data transfer »



Run an auto search on the MIIWEBs connected by clicking on « Auto-search on local network », then select the MIIWEB you want to connect to

Click on the line for the MIIWEB WEB server, then click right with the mouse on HTTP



The connection to the embedded WEB site is made. Start the session, then enter your login



Click on « Start a session »



Ouvrir une session



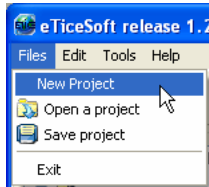
Click on OK to access the WEB site



4.3 Creating a Project

4.3.1 Starting a New Project

From the main menu bar in the eTice_Soft software, click on the «File » tab, then on « New project »



Save our project on the hard disk drive

Nom du fichier :

Type :

Click on
« Save »

It is also possible to configure MilleniumII Web WEB server from this window, and to validate the name and path for saving our project.

New project

Project File

Name of the project:

Project directory:

Project filename:

Click on « Configure the Webserver » to configure the hardware connected to the MIIWEB.

Warning, you must only
configure the Millenium
Modbus slaves, NOT the other
Modbus slaves

Configure MODBUS communication
with the Millenium

Add all the addresses of the
« Millenium » controllers driven
by the MIIWEB TCP/IP Webserver

Select a modem compatible with
MIIWEB and fill in the various
fields corresponding to your
modem communication application

If appropriate, configure the
fields relating to the DNS
server

Configure your message server

Advanced configuration of the WebServer

MODBUS RTU Parameters
MODBUS Baudrate: 57600 bps Party: Even System clock source: Millenium #1

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

Id	Connecté à	Type	Adresse
1	EXTENSION	Millenium II	
2	MODBUS	XC04 (Millenium II)	5

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

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

Select the MODEM: GPRS-WAVECOM:FASTRACK(M1306B)

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
Baudrate: 115200 Bauds
Hardware flow Control RTS/CTS: ☒

PPP Client parameters
Phone number of the PPP Internet Provider: *99**1#
LOGIN: PASSWORD: Connection program: Never
PPP Authentication Method: PAP

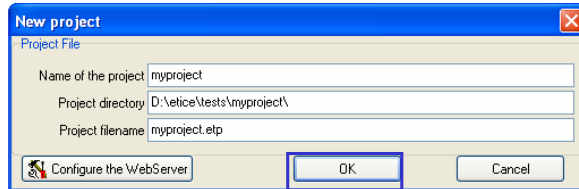
Information and Malfunctions (Faulty Millenium connections, enable to archive, or other system informations)
If MODEM, Phone Number of the person to be notified: +330000 Sending a SMS for internal alarm: ☐
If service activated, eMail address of the person to be notified: MrX@fal.fr Use history file (LOGFILE.TXT): ☒

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

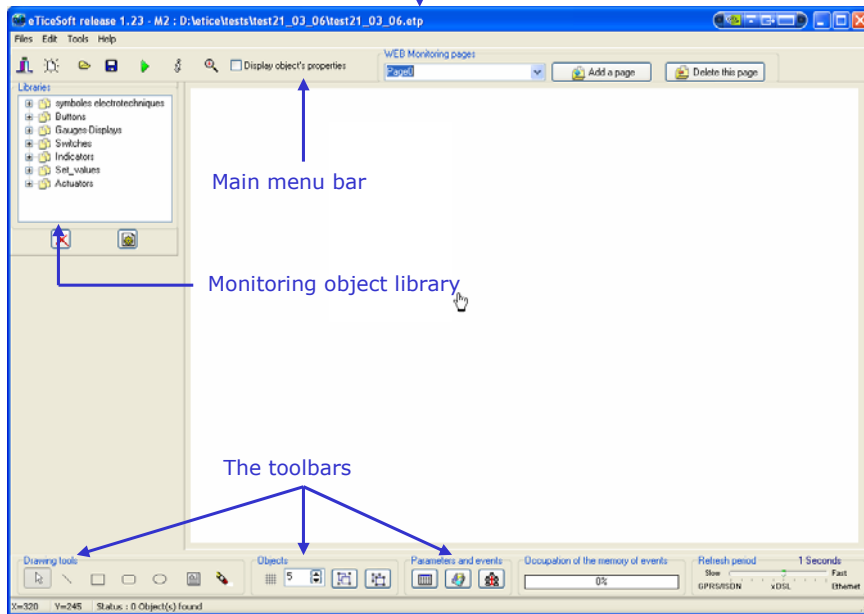
Parameters of the eMail Server (SMTP Server)
Domain Name of the SMTP Server: monfal@smtp.fr
IP Address of the SMTP Server: 0.0.0.0

DNS Servers parameters
Primary DNS IP Address: 0.0.0.0
Secondary DNS IP Address: 0.0.0.0

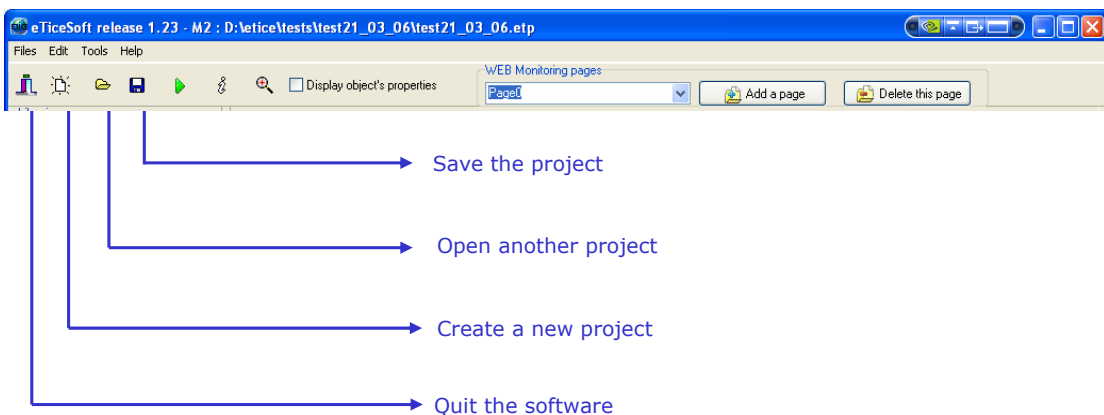
Once hardware configuration is complete, click on « OK » to start constructing a project

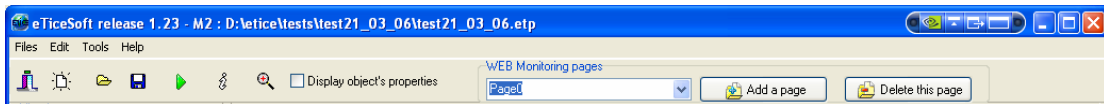


The main project window opens



4.3.2 The Main Menu Bar





- Managing the number of monitoring pages
- Activate the properties of the objects to design new monitoring objects or to construct objects directly in the WEB page.
- Display the zoom window
- Start compilation to transform the object programming and the configuration into files ready to be transferred into the MilleniumII Web WEB server

4.4 Editing Monitoring Pages

4.4.1 What is WEB Monitoring ?

From an Internet navigator, control and display in animated graphic form, the state of the actuators and sensors managed by a control command device.

(e.g. : access control, illuminated signals, pumping...).

The monitoring WEB pages are accessible on all computer workstations which have an Internet navigator and even on a pocket PC and GSM/GPRS/UMTS-3G telephone. You no longer need complex monitoring software, so no more licences to be purchased and renewed.

4.4.2 eTice_Soft, No Need for HTML

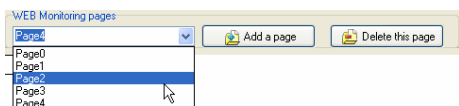
Programming monitoring WEB pages usually requires industrial computing know-how, which was prohibitive for many applications/so many applications have passed it by. The eTice_Soft software offers a programming workshop in which monitoring WEB pages are designed without any knowledge of HTML, Java Script, C++, programming languages

Programming the monitoring for use under the Web TCP/IP protocol is achieved « graphically » by an integrated vectorial compiler, and is accessible to any electrician.

4.4.3 Presentation of the Tools and Parameters Displayed

a - The Monitoring Pages

eTice_Soft can generate several monitoring pages in any one MilleniumII Web web server, from the functions below.



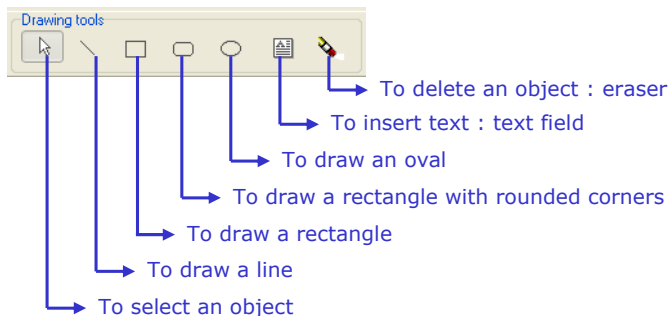
Several monitoring WEB pages can be embedded in the MilleniumII Web WEB server. All you have to do is to add

or delete pages - 20 pages at the most.

A menu is created automatically to navigate between the site's pages (Modifiable Menu)

b - The Toolbar

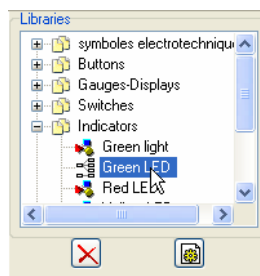
eTice_Soft offers the possibility of drawing objects directly in the WEB page or of constructing monitoring objects (see Chapter 7).



c - The Library

A vast, expandable library of animated objects is available to enable you to construct numerous monitoring flow charts in various fields such as electro-technical, hydraulics,

Click on the object family : the list of components (animated objects) appears. Double-click on the component you want to include in the monitoring page

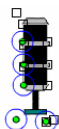


d - The "Properties of the Object" Tabs

Once a monitoring object has been inserted in the page, a variable output from a Millenium II or a MODBUS variable from another slave must be associated to it.

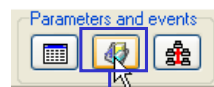
Procedure for associating one or more variables to an animated component :

- ✓ 1st step : Select the component on the WEB monitoring page (for example, a 3-colour pilot light)

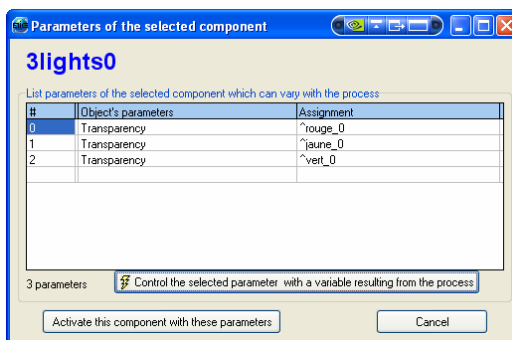


Click on the component from the « select » function

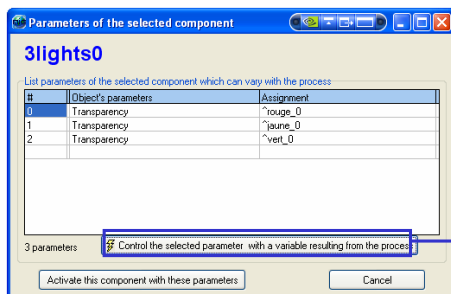
- ✓ 2nd step : Click on « Property of the component selected » in the toolbar



The component configuration window appears; in this example, the pilot light has 3 variables to be allocated, to manage illuminating and extinguishing the 3 colours



✓ 3rd step : Select the variable of the component one by one, to configure them. In the first instance, select the first line to allocate a variable to the red colour.

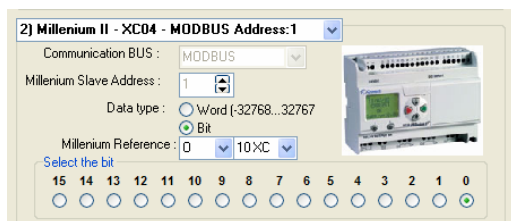


Click on the first line (for the red colour), then click on « Drive the parameter highlighted using a variable from the process »

Click on the source of the variable, two possibilities

Either :

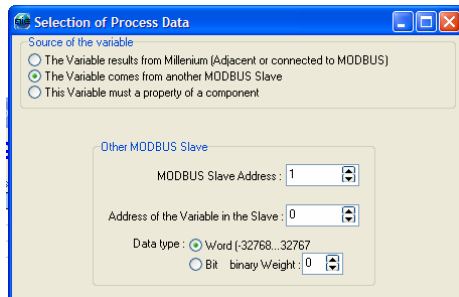
The variable is output from an adjacent or Modbus Millenium extension



Then, select the word or read or write bit corresponding to the desired application

Or :

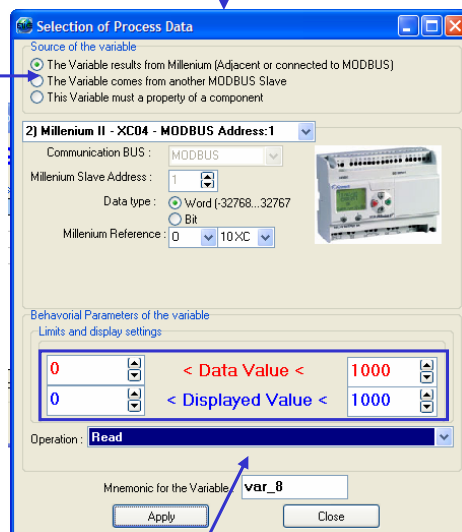
The variable is output from another MODBUS slave



Select the slave's address, then the address of the variable corresponding to the desired application

✓ 4th step : Set the variation ranges for the variables, 2 settings are possible :

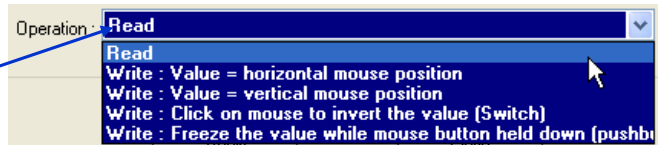
- the variation range of the graphic object,
- the variation range of the value displayed if this is a text field



Identify the type of operation to be performed on the variables :

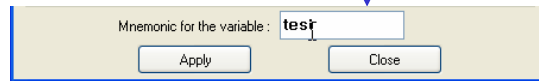
- read operation,
- modify the write variable according to the Horizontal position of the mouse (X axis)
- modify the write variable according to the Vertical position of the mouse (Y axis)
- Change the state of the write variable on clicking with the mouse (switch)
- Change the state of the write variable while the mouse button is depressed (Push button)

Click on the « operation » field to select the type of operation



✓ 5th step :

Attribute a mnemonic

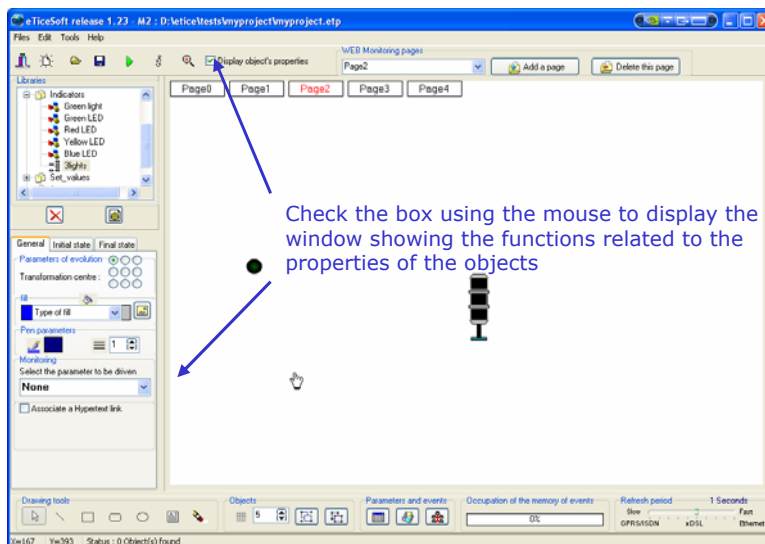


Validate the parameters by clicking on « Apply »

NOTE, if the monitoring component has several variables, the configuration steps must be repeated for each; in the case of the pilot light, the procedure has to be repeated twice (once for the yellow colour, and again for the green colour).

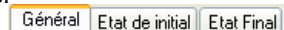
4.4.4 Position and Handling of the Objects

To modify an object, click on « Display the properties of the objects ».



Check the box using the mouse to display the window showing the functions related to the properties of the objects

NOTE in this new window, there are three tabs with the functions related to the objects, in relation to their status.



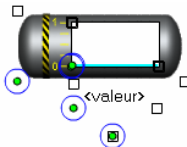
Each object has general properties as well as initial state and final state properties, to enable animated objects to be created.

a - To Select and Move an Object

Each object is easy to select and move



Click on « Select », then select the object with the mouse to highlight it



The object can be moved using the mouse: position the mouse arrow in the centre of a green dot, and hold the mouse button down while dragging the object. To rotate an object, click on the external circle, and hold the mouse button down until the desired angle is attained (does not work for groups). To make an object bigger or smaller, click on its corner (on the square), and drag it.

b - Line, Oval and Rectangle



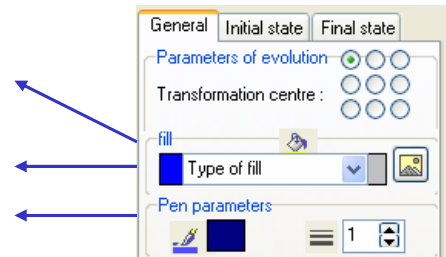
Click on « Line » or « Rectangle » or « Oval » to draw graphic objects on the WEB page.

Use the « Properties of the objects » window, and « General » menu to modify the parameters of the graphic objects

Click in the fill zone to choose the « type of fill » and the « colour »

Insert a BitMap image in an object

Select the « Colour » and « Thickness » of the lines



c - Text Fields

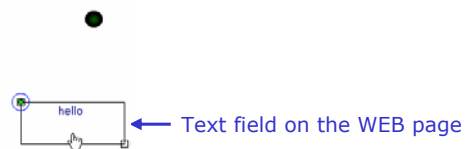
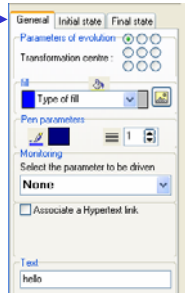
Text can be inserted in the WEB page from the drawing toolbar :



Click on « Text field » and position the field on the WEB page.

Use the « Properties of the objects » window, and the « Initial » menu to modify the text

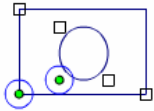
Click on the « General » tab



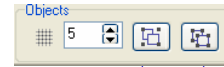
Text entry field

d – Grouping

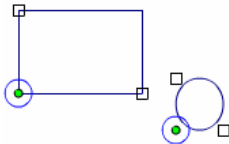
Objects on the WEB page can be grouped and ungrouped using the following functions :



Position the objects and select all of them by creating a selection zone around the objects to be grouped, then click on « Group »



Of course, it is possible to reverse the process, by selecting the new grouped object, and then ungroup its constituent elements



Click on the grouped object, then click on « Ungroup »

e – Grid

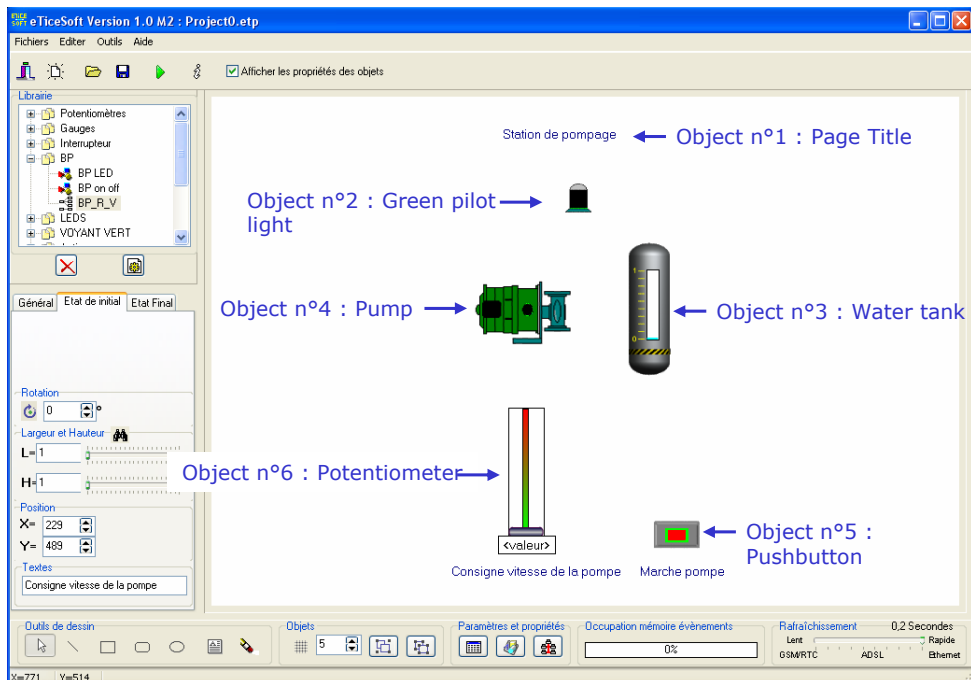
To help construct an monitoring page, a grid can be used to facilitate positioning the objects.

Increase or decrease the numerical index to change the pitch of the grid



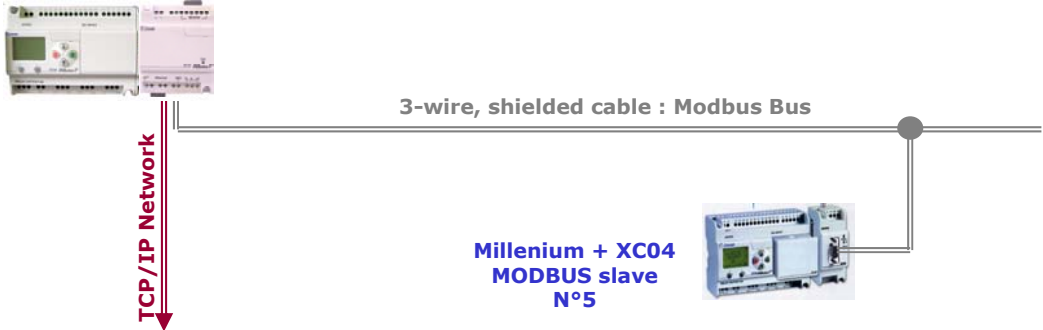
4.4.5 Sample Creations of WEB Monitoring Pages

In this section, we show an example of a monitoring page construction.
See the example below :



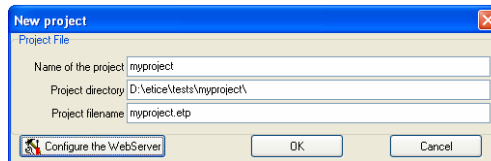
NOTE, in this example, the MilleniumII Web WEB server is configured and controls the communicating architecture shown below :

MilleniumII Web + Millenium as and Adjacent extension



Proceed as follows :

- ✓ **1st step :** Create a new project from the main menu bar and save it on the hard disk drive.



- ✓ **2nd step :** Configure the web server from the « Configure the Webserver » tab

Advanced configuration of the WebServer

MODBUS RTU Parameters
MODBUS Baudrate: 57600 bps Parity: Even 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)

Millenium's extension type: XC04 (Millenium II)
MODBUS Address of the Millenium: 5

☒ Reset registers IXC or DXN for each new project transfer or reboot
MODEM Parameters (for SMS and PPP Connections)
☒ Activate PPP Server

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

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

PPP Client parameters
Phone number of the PPP Internet Provider: *99***1# GPRS APN (only for GPRS MODEM):
LOGIN: PASSWORD: Connection program: Never

PPP Authentication Method: PAP

Informations and Malfunctions (Faulty Millenium connections, enable to archive, or other system informations)
If MODEM, Phone Number of the person to be notified: +330000 Sending a SMS for internal alarm: ☐
If service activated, eMail address of the person to be notified: MrX@fai.fr Use history file (LOGFILE.TXT): ☒

Network services
Company's Mail address: Societe@fai.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: monfai@smtp.fr
IP Address of the SMTP Server: 0.0.0.0

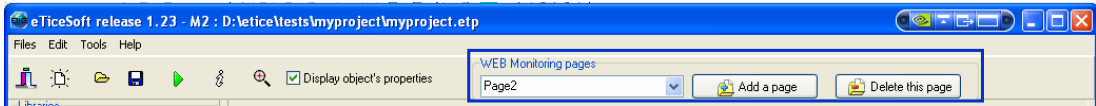
DNS Servers parameters
Primary DNS IP Address: 0.0.0.0
Secondary DNS IP Address: 0.0.0.0

Buttons: Cancel, Create the configuration file and put it in UpLoad list

Hardware configuration of the
Millenium logic controller
connected to the Webserver

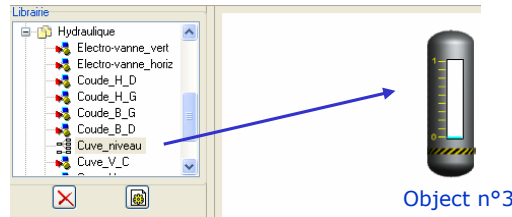
Click here to validate
the configuration

✓ **2nd step** : The edit zone for the WEB monitoring page appears; select the number of WEB monitoring pages to be created, bearing in mind that the maximum is 20.



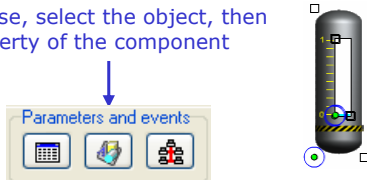
In our example, one WEB page will be created

✓ **3rd step** : Position the animated objects on the monitoring page, by selecting objects from the library

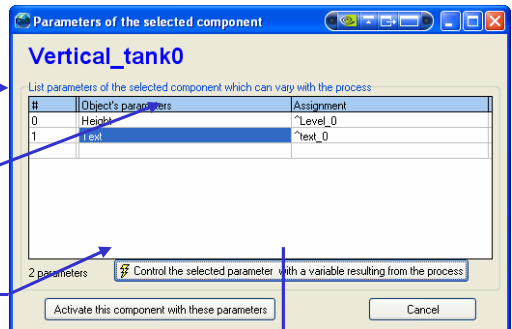


✓ **4th step** : Allocate the MODBUS variables to each object

Using the mouse, select the object, then click on « Property of the component selected »



A configuration window opens :
Identify the number and name of the variables to be configured. This example has only one variable : the « water level » in the tank



Click on the line for the variable to highlight it, then click on « Drive the parameter highlighted using a variable from the process »

After activating « Drive the parameter highlighted using a variable from the process », a new window appears :

Follow the procedure for choosing the variable associated with the object (see Chapter 4.4.3 d)



Fill in the fields in the window so that the object displays the tank water level

Configuring Object n°3 : The water level is output by the logic controller connected as an adjacent extension on the MilleniumII Web web server, and the variable (water level) is provided on a read word. Its address is OXC 10 and this word varies from 0 to 100 litres.

Fill in the various fields so as to program the monitoring object as a function of the parameters shown below.

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 II - Adjacent

Communication BUS : EXTENSION

Data type : ☒ Word (-32768...32767)

Millenium Reference : 0 10 XC

Behavioral Parameters of the variable

Limits and display settings

0 < Data Value > 100

Operation : Read

Mnemonic for the Variable : water level

Apply Close

The water level data is output by a Millenium

The Millenium is connected to Millenium Web via the adjacent extension

The variable corresponding to the water level is effectively a read word with the address 0 10XC

The water level varies from 0 to 100 liters

Displaying the water level is effectively a read operation

Enter the mnemonic for the variable : Water Level

Once the fields in this window have been filled in, click on « Apply » to validate the variable's configuration

The procedure must be repeated for all the objects used in the monitoring page for the pumping station.

Configuring Object n°6 : Potentiometer giving the pump speed setpoint. The variable is output from a Millenium connected to the MODBUS network with the address: slave n°5. The variable is an operation to write to a word whose address is I XC11

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

2) Millenium II - XC04 - MODBUS Address:5

Communication BUS : MODBUS

Millenium Slave Address : 5

Data type : ☒ Word (-32768...32767)

Millenium Reference : 1 11 XC

Behavioral Parameters of the variable

Limits and display settings

0 < Data Value > 1000

Operation : Write : Value = Vertical mouse position

Mnemonic for the Variable : speed setpoi

Apply Close

The speed setpoint must be input to a Millenium

The Millenium is connected to MilleniumII Web via the MODBUS network, with the address: slave n°5.

The variable corresponding to the speed setpoint and the associated write word is IXC 11

The speed varies from 0 to 1000 RPM

The setpoint is adjusted as a function of the Vertical position of the mouse on the potentiometer

Enter the mnemonic for the variable : Speed setpoint

Click on Apply to validate the programming for the object

Configuring Object n°5 : Push button « Pump ON-OFF ». The variable is contained in a Millenium connected to the MODBUS network at the address: slave n°5 . The variable is an operation to write to a bit in a word, whose address is IXC 10, bit 0

The ON/OFF command is modified in a Millenium

The Millenium is connected to MilleniumII Web via the MODBUS network, with the address: slave n°5.

The variable corresponding to an ON-OFF command for the pump and the associated read word is OXC 10, bit 0

The state of the switch varies from 0 to 1

The change in the switch state every time the mouse button is pressed on the switch is effectively a write operation

Enter the mnemonic for the variable : pump command

Click on Apply to validate the programming for the object

Configuring Object n°2 : Green Pilot Light « Station Powered » . The variable is output by a Millenium connected to the MODBUS network at the address: slave n°5. The variable is an operation to read one bit on a word, whose address is OXC 9, bit 0

The variable is output from a Millenium

The Millenium is connected to MilleniumII Web via the MODBUS network, with the address: slave n°5.

The variable corresponding to the station status feedback « Powered or Not powered » is effectively a read operation on word OXC 9, bit 0

The status state is binary, and varies from 0 to 1

Read the power status from Millenium

Enter the mnemonic for the variable : Powered

Click on Apply to validate the programming for the object

Configuring Object n°4 : Pump « Pump status ». The variable is output by a Millenium connected to the MODBUS network with the address: slave n°5 . The variable is a read operation on a word, whose address is OXC 11

Selection of Process Data

- Source of the variable:**
 - ☒ The Variable results from Millenium (Adjacent or connected to MODBUS) ← The status must be output from a Millenium
 - ☐ The Variable comes from another MODBUS Slave
 - ☐ This Variable must a property of a component
- 2) Millenium II - XCD4 - MODBUS Address:5** ← The Millenium is connected to MilleniumII Web via the MODBUS network, with the address: slave n°5.
- Communication BUS :** MODBUS
- Millenium Slave Address :** 5
- Data type :** ☐ Word (-32768...32767) ☒ Bit ← The variable corresponding to the Pump status and the associated read word is OXC 11 bit 0
- Millenium Reference :** 0 11 XC
- Select the bit:** 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 (Bit 11 is selected)
- Behavioral Parameters of the variable:**
 - Limits and display settings:** 0 < Data Value > 1 ← The pump state varies from 0 to 1
 - Operation :** Read ← Displaying the pump status is a read operation
 - Mnemonic for the Variable :** Pump status ← Enter the mnemonic for the variable : Pump status
- Buttons:** Apply ← Click on Apply to validate the programming for the object, Close

✓5th step : Position a title in the WEB monitoring page, « Pumping Station »

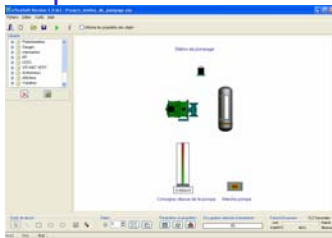
Procedure :

- Click on the drawing tool « Insert text »
- Using the mouse, locate the text field in the Web monitoring page
- Then, click on « Display the properties of the objects »
- Using the mouse, select the text field to be filled in and check that you are on the General tab
- Enter the text in this field

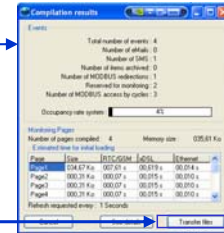
The diagram shows a sequence of actions: selecting the 'Insert text' tool, placing a text box on the page, opening the properties window, selecting the 'General' tab, and entering the text 'Station de pompage' into the 'Text' field.

- ✓ 6th step : Run the compilation to generate the files to be transferred into the MIIWEB WEB server.

Click on the «  » icon to start the compilation



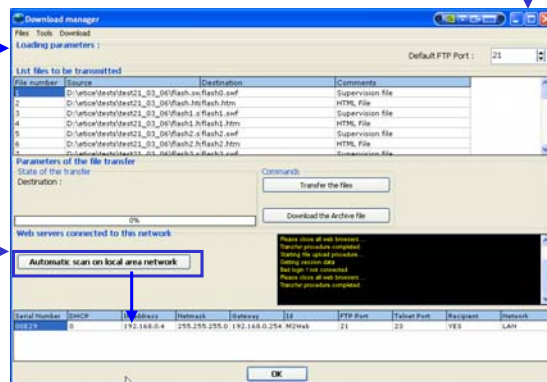
Then, the compilation report window is displayed



Then click on « Transfer the files »

- ✓ 7th step : Transfer the files into the MilleniumII Web web server for the application

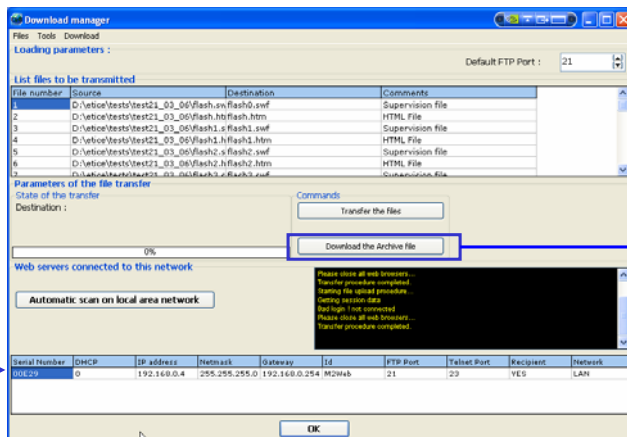
The data transfer window appears



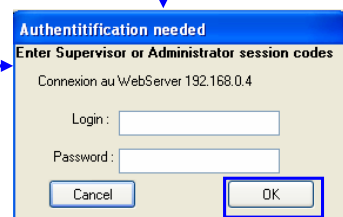
Click on « Automatic scan on the local network » to locate the MIIWEB corresponding to the current application

The search result produces a list of MIIWEBs connected to the Ethernet network; in this case, there is only one MIIWEB with the IP address: 192.168.0.100

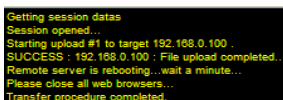
Select the MIIWEB to receive the files from the list, then click on « Transfer the files ».



An authentication window appears, enter the session code + password corresponding to the Web server logins (NOTE, for Administrator or Supervisor logins only)



Click on OK, to continue the transfer procedure



Once the operation is complete, the monitoring window displays the result of the program transfer into the MIIWEB.

Warning, you have to wait for 1 minute before connecting to MIIWEB's embedded WEB site

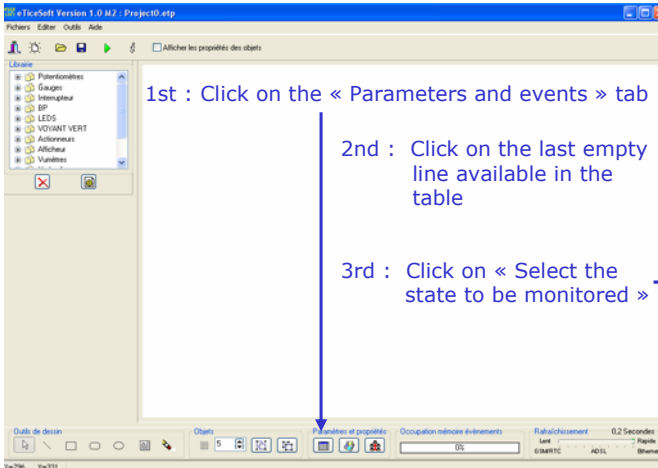
5 – States Monitored and Conditional Action : Events

5.1 Notions on Events

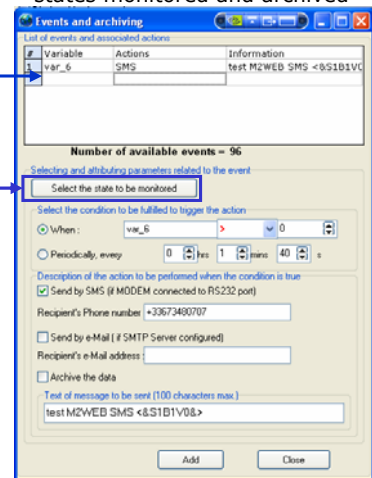
The MilleniumII Web web server can manage several events (up to 100). An event is associated with a MODBUS-type variable, so with one 16-bit word. At any moment, MilleniumII Web can monitor the state of a variable and perform several operations such as sending an SMS (if a GSM modem is connected to it), or an eMail, or archiving the data in its compact FLASH memory.

5.2 Selecting the State to be Monitored

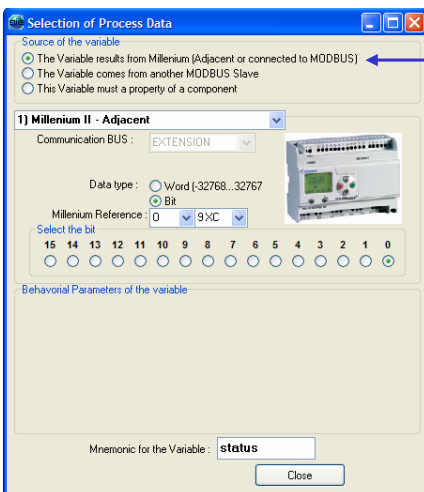
Create a new project (see Chapter 4.3). Then the following window opens :



A window opens for the states monitored and archived



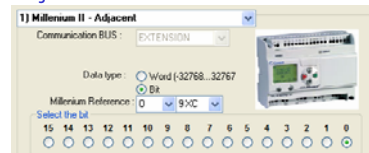
A new window opens, with the variables associated to the events



Click on the source of the variable : 2 possibilities are available :

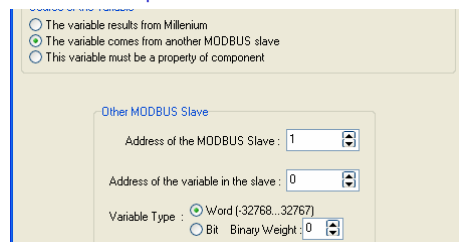
Either :

The variable is output by a Millenium in adjacent or MODBUS



Select the read or write word or bit corresponding to the desired application

Or : The variable is output from another MODBUS slave



Select the address of the slave, then the address of the variable corresponding to the desired application

5.3 Condition Under which the Action is Triggered

Each event or archiving can be triggered by one of two means :

- triggered on a condition (in relation to a desired state),
- triggered periodically (e.g. every 60 seconds).

After selecting the MODBUS variable (see Chapter 5.2), select the trigger conditions

Click on one of the two possibilities to set the activation condition

Either : Activation will take place when the variable complies with the following condition

When : =

Coding for the variable

Select the comparison symbol specifying the trigger condition for the action

Value against which the MODBUS variable is compared

Or : Activation will take place at regular intervals, every 1hr 0min and 5 sec for example and **this type of activation cannot send SMSs.**

Periodically, every hrs mins s

5.4 Selecting and Configuring the Action

Once the trigger condition for the event has been selected, the type of action has to be configured. There are 3 possibilities :

- send an eMail,
- send an SMS,
- archive the data in the compact FLASH memory for subsequent use by Excel® for example.

5.4.1 SMS, Emails

From the « State monitored and Archiving » window again, MilleniumII Web can send a message in the form of an SMS or an Email.

Beforehand, you have to : have selected a variable (MODBUS word) (This procedure was performed in Chapter 5.3) and obviously, to have configured the parameters of the message servers and/or modem.

Procedure for writing a message to be sent by MilleniumII Web

- ✓ 1st step : Select the resource(s) for transmitting the message

Click on « SMS » or « e-mail » or on both, depending on the application

The « Send by SMS » check box tells the WEB server that it must send this message to the GSM MODEM connected to the modem port.

The addressee of the message is then identified, using the international number for the telephone number (example : +336xxxxxxx, where +33 is the country code for France).

The « Send by E-Mail » check box tells the WEB server that it must send this message to the SMTP server accessible on the network : you have to configure the WEB server's network services, either directly on line (MilleniumII Web configuration WEB page), or using the eTice_Soft software via the MilleniumII Web configuration section.

The addressee for the message is then identified by his/her E-Mail address entered in the corresponding field (eMail address = maximum 29 characters).

- ✓ 2nd step : Draft the message to be sent
Fill in the text field to draft the message (max. 100 characters)

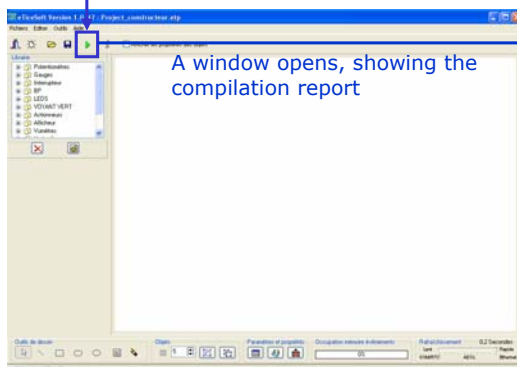
- ✓ 3rd step : Add the new action to the list of states monitored and archived
Click on « Add »

NOTE : you can add several states monitored associated with a message by repeating steps n°1 to n°3.

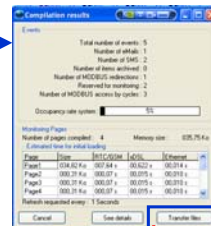
- ✓ 4th step : Validate the event management Click on « Close »
- ✓ 5th step : Compile the events to be able to transmit them to MilleniumII Web

The WEB page window is displayed again

To compile the event configuration, simply click on the « » icon to generate the files to be downloaded into MilleniumII Web.



A window opens, showing the compilation report



Click on « Transfer the files » to access the data transfer page

Run this procedure to transfer and download your application into the MIIWEB

Once the files have been downloaded into the MilleniumII Web WEB server, you have to wait for 1 minute before connecting to the site in one of two ways (see Chapter 4.2.2)

5.4.2 Archiving

From the « State monitored and Archiving » window, MilleniumII Web archives the events in its « COMPACT FLASH » memory.

You must have previously selected a variable (MODBUS word) : this operation was performed in Chapter 5.3

Procedure to be followed to archive events in MilleniumII Web :

✓ **1st step** : Select Archiving

Click on « Archive the data »

✓ **2nd step** : Draft the message to be sent

Fill in the « Name » and « Unit » fields for the variable to be archived

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

Name: Unit (optional):

✓ **3rd step** : Add the variable archived to the list of states monitored and archived

Click on « Add »

#	Variable	Actions	Information
1	var_6	SMS	test M2WEB SMS <&S1B1VC
2	var_17	SMS Mail	test M2WEB SMS <&S1B1VC
3	var_17	Filing	temperature (°C)<&S1C1V1

NOTE: several archived variables can be added by repeating steps n°1 to n°3.

Events and archiving

List of events and associated actions

#	Variable	Actions	Information
1	var_6	SMS	test M2WEB SMS <&S1B1VC
2	var_17	SMS Mail	test M2WEB SMS <&S1B1VC

Number of available events = 95

Selecting and attributing parameters related to the event

Select the state to be monitored

Select the condition to be fulfilled to trigger the action

☐ When:

☒ Periodically, every:

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: Unit (optional):

Click on « Close »

✓ **4th step** : Validate the management of the variables archived

✓ **5th step** : Compile the events to be able to transfer them into MilleniumII Web - the procedure is identical to that for managing sending an SMS or eMail (see Chapter 5.4.1)

✓ **6th step** : Transfer the files produced by the compilation into MilleniumII Web - the procedure is identical to that for managing sending an SMS or eMail (see Chapter 5.4.1)

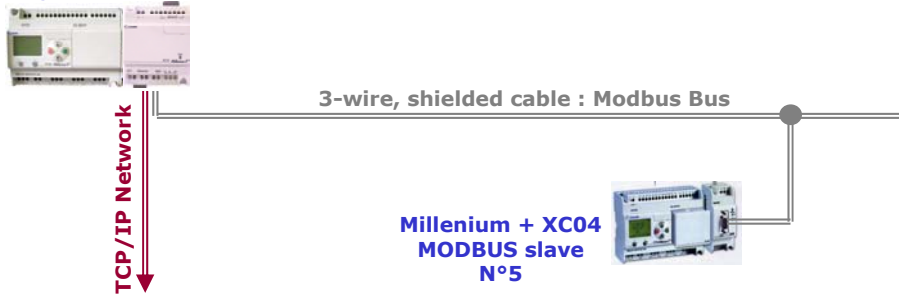
6- MODBUS Gateway

6.1 What is a MODBUS Gateway ?

MilleniumII Web is a MODBUS Master web server, it provides for directing the variables (words) between various MODBUS slaves with the aim of constructing a MODBUS automation network.

MilleniumII Web acts as a data gateway between various MODBUS slaves.

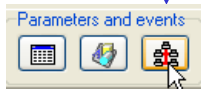
**MilleniumII Web + Millenium as
and Adjacent extension**



6.2 Creating a MODBUS Gateway

Create a new project (see Chapter 4.3); the fol

Click on the « MODBUS Gateway » tab



The MODBUS
gateway window
opens

Id	Source	Destination	Condition
1	MODBUS 1->22	MODBUS 1->17	Every 0h 0min 1s
2	MODBUS 1->22	MODBUS 1->17	Every 0h 0min 1s
3	MODBUS 1->22	MODBUS 1->17	Every 0h 0min 1s
4	MODBUS 1->22	MODBUS 1->17	Every 0h 0min 1s
5	MODBUS 1->22	MODBUS 1->17	Every 0h 0min 1s
6	MODBUS 1->22	MODBUS 1->17	Every 0h 0min 1s

Number of MODBUS Redirections available = 0

Source
☐ 1) Millenium II - EXTENSION
 Millenium exchange word 0 1-8 XC
☒ Other MODBUS Slave
 Address 1 MODBUS register 22

Destination
☐ 1) Millenium II - EXTENSION
 Millenium exchange word 1 1-8 XC
☒ Other MODBUS Slave
 Address 1 MODBUS Register 17

Transfer condition
☒ Periodic Every 0 h 0 min 1 s
☐ If the source is = to 0

Add Delete OK

6.3 Selecting a Source and Destination Word

Source Word

1st : click on the origin
of the source variable.
There are 2 possibilities :

Either : The source variable is
output by a Millenium as an
adjacent or MODBUS extension:
select the read or write
word corresponding to
the desired application.

Or : The source variable
is output from another MODBUS
slave:
select the slave's address
then the address of the
variable corresponding to the
desired application

Destination Word

2nd : Click on the origin of the
destination variable,
There are 2 possibilities :

Either : The destination variable is
output by a Millenium as an Adjacent
or MODBUS extension:
select the read or write word or bit
corresponding to the desired application.

Or : The destination variable
is output from another MODBUS
slave:
select the slave's address, then
the address of the variable
corresponding to the desired
application

6.4 Transfer Condition

Each word transfer may be triggered in one of two ways :

- triggered on condition (in relation to a desired state),
- triggered periodically (every 60 seconds for example).

Once the MODBUS variable has been selected (see Chapter 6.3), select the trigger conditions.

✓ 1st step : Click on one of the two alternatives, to set the type of trigger action

Either : The action will be triggered when the variable complies with the following condition

☒ If the source is to

Select the comparison symbol specifying the condition for sending messages

Value against which the MODBUS variable is compared

Or : The action will be triggered periodically, every 1 min for example

☒ Periodic Every hrs mins s

✓ 2nd step : Click on « Add » to insert the redirection action into the list of redirections already defined.

N°	Source	Destination	Condition
1	M2 MODBUS 1	MODBUS 1	Every 0h 0min 5s
2	M2 Contigüe 010 XC	Millenium MODBUS 3 110 X	Every 0h 0min 5s

NOTE : several MODBUS gateways can be added, by repeating steps n°1 to n°2.

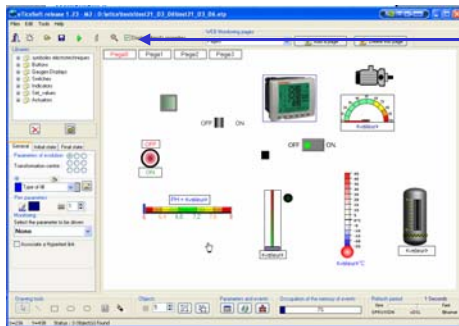
✓ 3rd step : Compile the events to be able to transfer them into MilleniumII Web - the procedure is identical to that for managing sending an SMS or an eMail (see Chapter 5.4.1)

✓ 4th step : Transfer the files produced by the compilation into MilleniumII Web - the procedure is identical to that for managing sending an SMS or an eMail (see Chapter 5.4.1)

7 – Creating Monitoring Objects

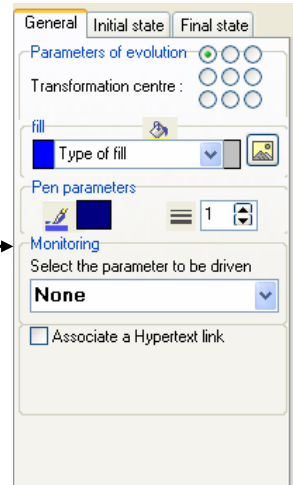
7.1 Display the Properties of the Objects

Create a new project (see Chapter 4.3); the following window opens:



Click on « Display the properties of the objects »

The « Object Properties » window opens in the bottom left corner of the main program page



7.2 General Properties of an Object

The object property window is divided into three parts as follows :

Click on « General »

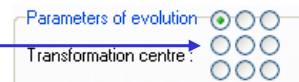


7.2.1 Transformation Centre

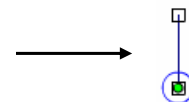
This function enables you to set the geometric position for the way an object changes when it is animated (changes as a function of a variable).

- ✓ 1st step : Click on one of the 9 transformation centres before drawing a graphic object. For example you want to draw a thermometer: the changes in temperature are read from a vertical line. The variable moves upwards, so the transformation centre must be at the bottom of the line.

Click on « 1 of the dots »

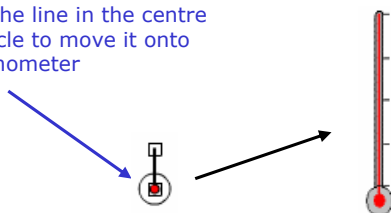


- ✓ 2nd step : Draw a graphic object (for example a line), and then click on the object. The transformation centre is positioned to the point selected. For our line, the anchor point is at the bottom.

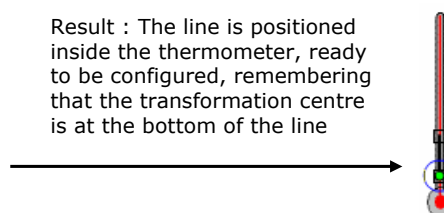


- ✓ 3rd step : Assemble the objects in order to build a thermometer for example

Click on the line in the centre of the circle to move it onto the thermometer



Result : The line is positioned inside the thermometer, ready to be configured, remembering that the transformation centre is at the bottom of the line



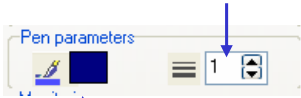
7.2.2 Lines

After drawing a line, its thickness and colour can be changed.

✓ 1st step : Draw a line, then select it.



✓ 2nd step : Click on « Thickness » and change the number



✓ 3rd step : Click on the « Colour » icon and choose your colour

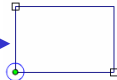


7.2.3 Fill

Every graphic object (except the line and text) can be filled in in one of two ways :

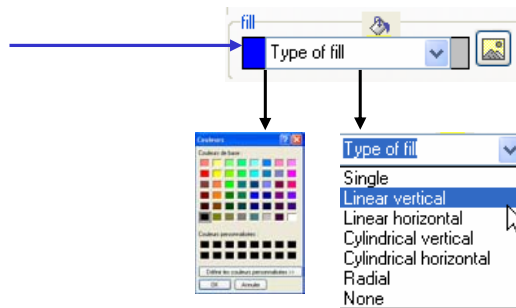
- graphic fill,
- fill using a BiTmap image.

Once you have drawn and then selected a graphic object (for example a rectangle),



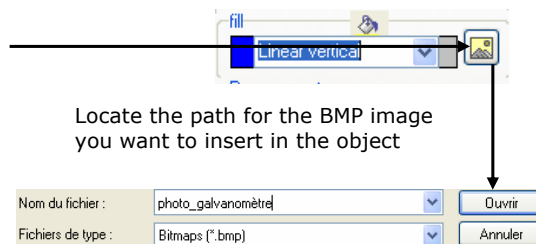
✓ 1st method : graphic fill.

Click on « Type of fill » and select a type, then select the « fill colour »



✓ 2nd method : fill by inserting a Bitmap image.

Click on the «BMP image » icon



7.2.4 Selecting the Monitoring Element

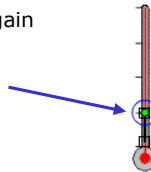
Once a graphic object has been drawn and filled correctly, with the right colours and line thickness, it can be turned into a monitoring element.

Each object can be animated with the aim of becoming a monitoring component. There are 7 animation alternatives :

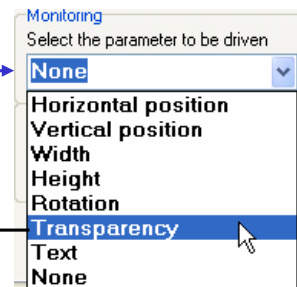
- **Horizontal Position** : as the variable associated with it changes, the object moves along a horizontal axis
- **Vertical Position** : as the variable associated with it changes, the object moves along a vertical axis
- **Width** : as the variable associated with it changes, the object increases in width
- **Height** : as the variable associated with it changes, the object increases in height
- **Rotation** : as the variable associated with it changes, the object moves around its anchor point
- **Transparency** : as the variable associated with it changes, the object becomes more or less transparent,
- **Text** : the text object provides for displaying changes in a decimal value as the variable associated with it changes.

Taking the example of the thermometer again

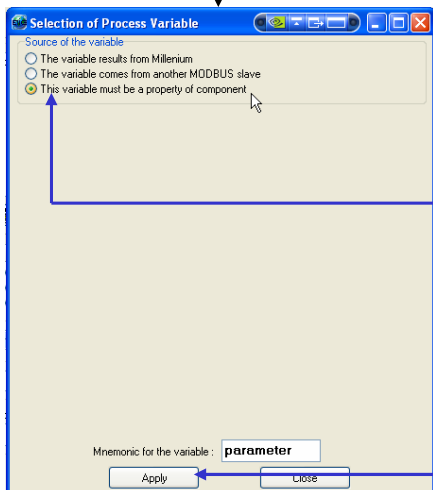
- ✓ 1st step : Click on the object to be animated



- ✓ 2nd step : Click in the « Select the parameter to be driven » zone, then choose the type of animation for the object. In our example, we need "height".



The « Select the process variable » window opens



- ✓ 3rd step : Click on « This variable must be a component property »

- ✓ 4th step : Click on « OK » to validate

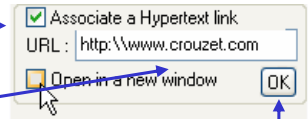
7.2.5 Hypertext Links

A hypertext link can be associated with an object, to access other WEB pages or another WEB site

✓ 1st step : Position the object, then select it



✓ 2nd step : Click on the « Associate a hypertext link » box



✓ 3rd step : Enter the URL address of the new WEB page(s) to be accessed by the user when he clicks on the object to which the hypertext link is associated.

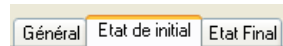
✓ 4th step : Click on « OK » to validate and activate the URL

NB : Check before "Open in a new window" to open the link in a new web browser window

7.3 Initial Properties of an Object

The object properties window is divided into three sections as follows :

Click on « Initial State »



This section is used to configure the state of an object at rest (MODBUS variable = 0).

Fill in this window according to the animation selected from the General menu (height, width, rotation, transparency,...).

Warning: the component is configured in its initial position, and this cannot then be changed (state of the object)

Move the cursor to select the transparency level



or

Adjust the component's angle



or

Adjust the component's width



or

Adjust the component's height



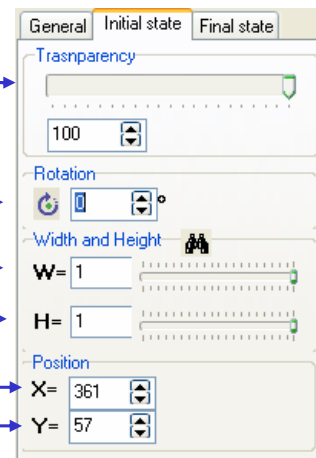
or

Adjust the object's position on the X axis



or

Adjust the object's position on the Y axis



7.4 Final Properties of an Object

The object properties window is divided into three sections as follows :

Click on the object in its initial position,
then press the « F2 » key to display the
« Final State » window.



This section configures the state of the object in its final position or final state (variable = max value).

Fill this window in according to the animation selected in the General menu (height, width, rotation, transparency,...).

NOTE : the component is configured in its final position, and this cannot then be changed (state of the object)

The « Final state » window can be customised depending on the choice of animation (height, width, rotation, transparency,...). Only the parameter to be set is displayed to guide the user.

Examples of « Final state » windows:

Animation : variation in the
height of the object

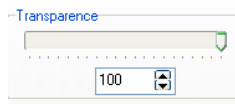
« Final state »



Adjust the final height
of the component

Animation : variation in the
transparency of the object

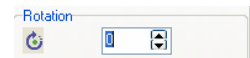
« Final state »



Adjust the final transparency
of the component

Animation : variation in
the angle of the object

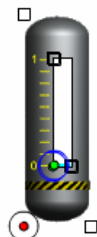
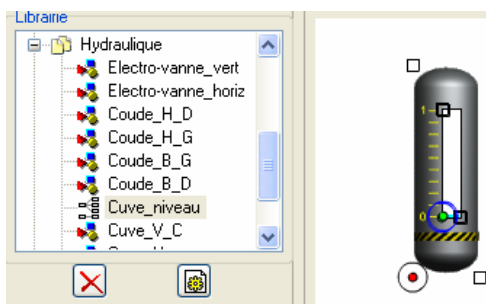
« Final state »



Adjust the final angle
of the component

7.5 Saving the Monitoring Object in the Library

At this point, the construction of the monitoring object is complete, and it must be saved in the library.



✓ 1st step : Select the entire monitoring object

✓ 2nd step : Click on « Create a new component per the current selection »

Then, a window opens prompting you to save the component under a name and in a component family.

Give the new component a name (for example « Gauge0 »)

Check that the monitoring parameter is correct
(in our example, this is the water level height)

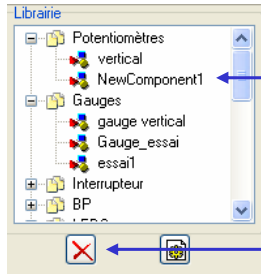
If the family already exists, then select that family

Otherwise, create a family (for example Hydraulics)
by clicking on « New library », then give the new
library a name

Click on « Create this component in this library »

Check that our new component is now effectively in the library in the correct family

7.6 Deleting a Monitoring Object



1st step : Select the component to be deleted from the library

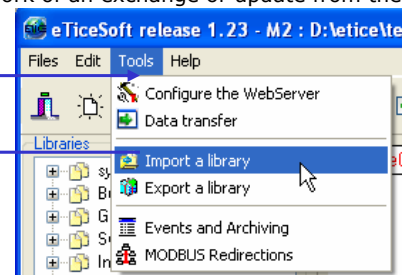
2nd step : Click on « Delete the component highlighted »

7.7 Importing a Monitoring Component Library

The software allows you to import or export the library in the framework of an exchange or update from the manufacturer.

- ✓ 1st step : From the main menu bar, click on « Tools », then on « Import a library »

A new window opens

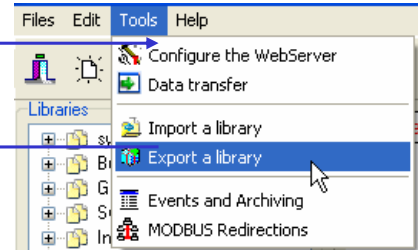


- ✓ 2nd step : On the CD-ROM or hard disk drive, locate the computer file corresponding to the library to be imported into eTice_soft (*.etl)

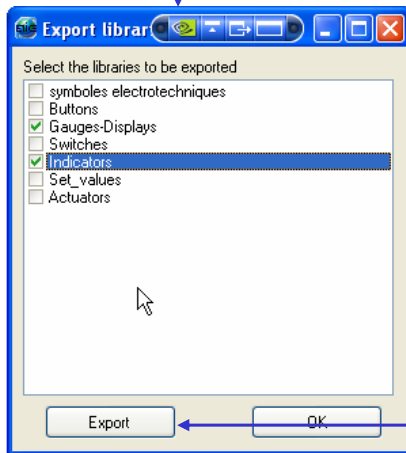
7.8 Exporting a Monitoring Component Library

The software allows you to import or export the library in the framework of an exchange or update from the manufacturer.

- ✓ 1st step : From the main menu bar, click on « Tools », then on « Export a library »



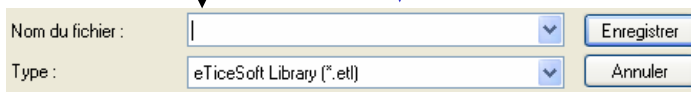
A new window opens



- ✓ 2nd step : Select the boxes corresponding to the libraries that you want to export.

- ✓ 3rd step : Click on « Export » to confirm the operation

- ✓ 4th step : Save the library export file



7.9 Example of Creating an Object

This section gives 2 examples of monitoring objects

7.9.1 Object No.1 – Green LED

Proceed as follows :

- ✓ 1st step : Use the « Property of the objects » window, and the graphic tools to construct the following objects :

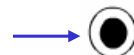
Draw a Green LED



Draw a black dot



Place the black dot over the green dot



2nd step : Attribute a monitoring variable to the black dot

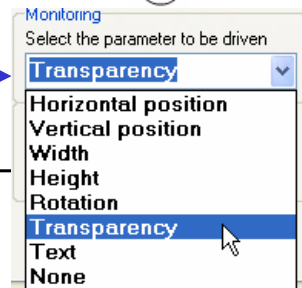
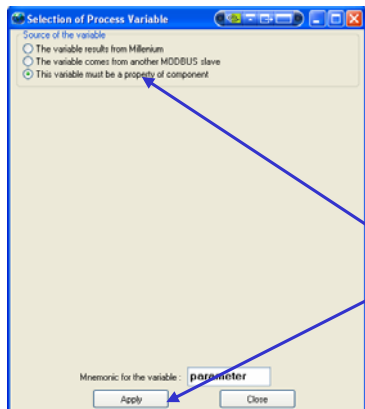
Draw 1 green LED

Draw a black dot

Place the black dot over the green dot

Click on the black dot

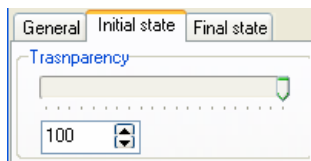
Then select the parameter to be driven (transparency)



Click on « This variable must be a component property »,
then click on « OK »

✓ 3rd step : Configure the object in its « Initial state » then in its « Final state ». To do so, click on « Initial state », configure this state, then click on « Final state » and configure that.

Window for setting the object's transparency in the initial state



Select the object again, then press the « F2 » key to display the « Final state » window

Window for setting the object's transparency in the final state



Set the object's transparency level in its final state

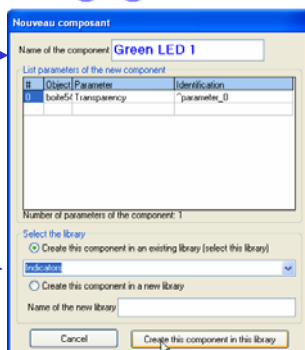
✓ 4th step : Save this new component in the LED library

Select the entire object

Give the component a name
« Green LED 1 »

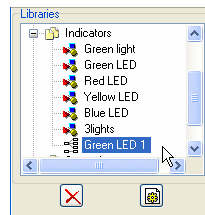
Choose the
« Indicators »
library

Then click on « Create a new component
per the current selection »



Click on « Create this component
in this library »

5th step : Check that the component you have just created is effectively saved in the software library.



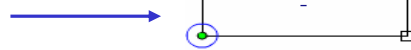
7.9.2 Object No.2 – Displaying the Decimal Value of a Physical Magnitude

Proceed as follows :

- ✓ 1st step : Use the « Property of the objects » window and the graphic tools to construct the following objects :

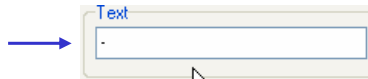


Click on « Text field », draw a field

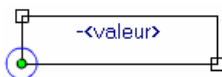
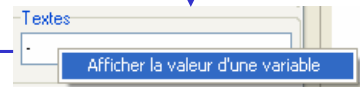


- ✓ 2nd step : Click on « General » in the « Property of the objects » window to attribute a variable to this text field.

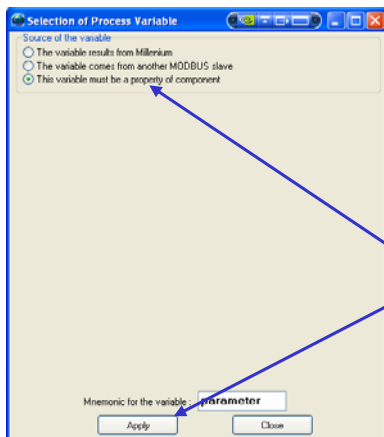
Click in the text field



Right click with the mouse in the field



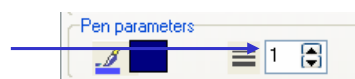
Then left click



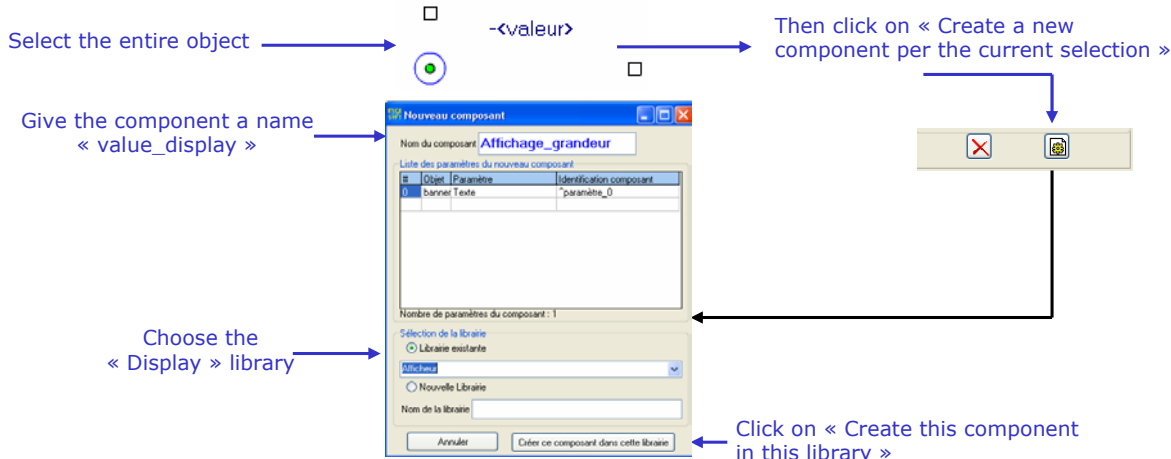
Click on «This variable must be a component property », then click on « OK »

- ✓ 3rd step : Click on « Initial state » in the « Property of the objects » window to modify the graphics of the text field object (for example delete the frame surrounding the variable displayed)

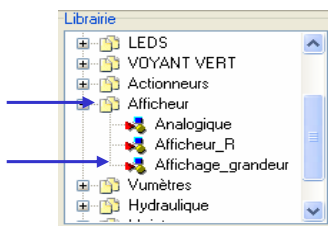
Select the object, then set the Index 0 to delete the frame



✓ 4th step : Save this new component in the LEDs library



5th step : Check that the component you have just created is effectively saved in the software library.



8 – Compiling a Project

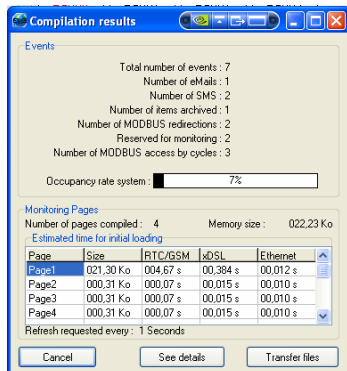
8.1 What does the Compilation Do ?

The eTice_Soft software performs a compilation in order to construct the HTML files corresponding to the WEB pages and events defined during the preparation of the project.

8.2 Compilation Report

When you compile the project, a compilation window appears : it summarises all the operations performed by MilleniumII Web.

The window is divided into 2 sections :



Events and states monitored : The report includes all the actions programmed by the user, associated to MODBUS variables :

- total number of events,
- number of eMails programmed,
- number of SMS programmed,
- number of MODBUS gateways (redirections to MODBUS slaves),
- system occupation level,.....

Monitoring pages : The report includes all the monitoring WEB pages programmed :

- number of monitoring WEB pages edited by the user,
- time for the initial loading according to the communication mode,
- Refresh requested,...

9 – Data Transfer

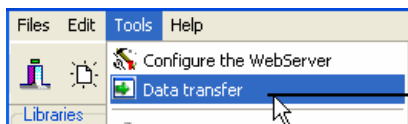
9.1 List of the Files after Compilation

The downloadable files (compatible with MilleniumII Web) must have the suffix ***.wtp**. These files are edited by the manufacturer or following the compilation of a project for a WEB site embedded in MilleniumII Web to manage our application.

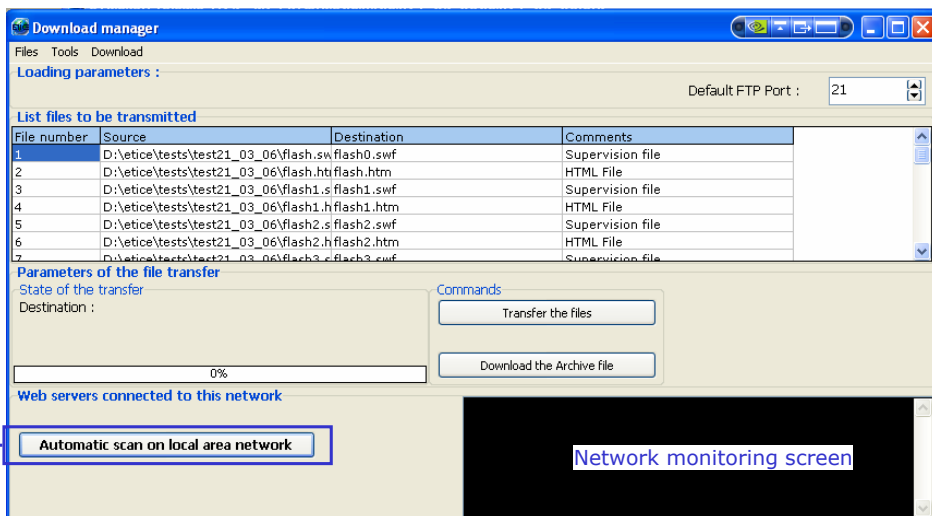
9.2 Searching for, or Registering MilleniumII Web on the Network

Proceed as follows :

1st step : From the main menu bar in the program, click on the « Tools » tab, then on « Data transfer »



The window below appears



2nd step : Run a search for the MIIWEBs connected to the Ethernet network (LAN) by clicking on « Auto-search on the local network »

Once the search is complete, all the MilleniumII Web WEB servers connected are listed. In this case, only 1 MilleniumII Web is communicating on the Ethernet network.

Serial Number	DHCP	IP address	Netmask	Gateway	Id	FTP Port	Telnet Port	Recipient	Network
00E29	0	192.168.0.4	255.255.255.0	192.168.0.254	M2Web	21	23	YES	LAN

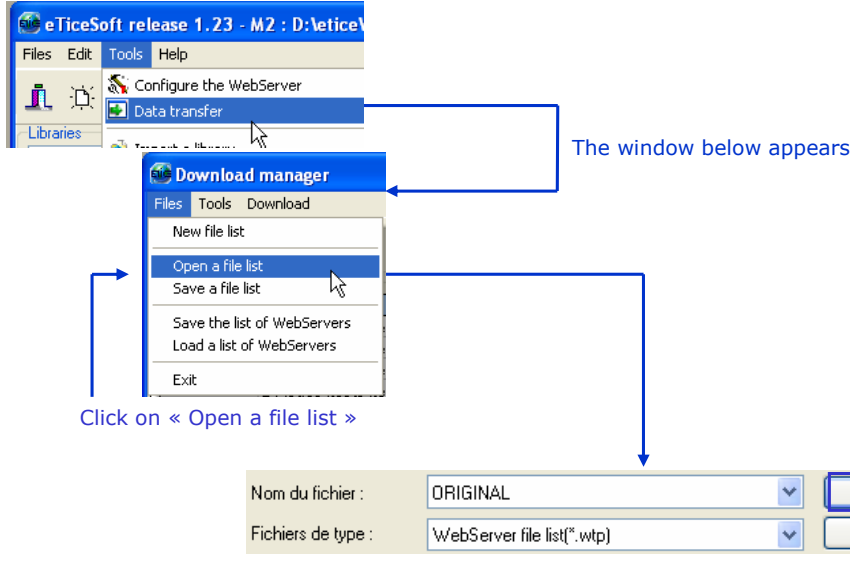
Every time the search is run, all the MIIWEBs connected to the local network are identified, together with their main TCP/IP parameters, i.e. :

- the MAC address (Serial Number)
- the IP address (which could be bad for current LAN !)
- the sub-network mask
- the gateway,

9.3 Downloading Procedure and Re-initialisation

Proceed as follows :

1st step : From the program's main menu bar, click on the « Tools » tab, then on « Data transfer »

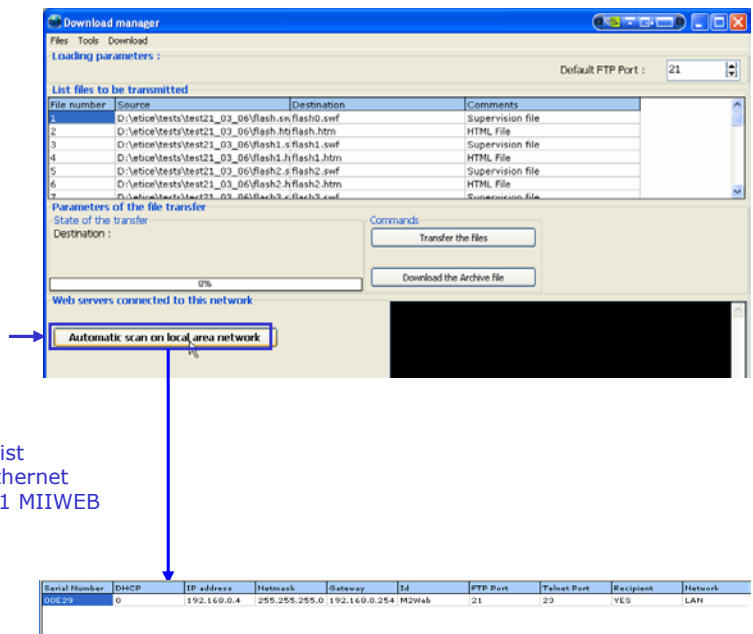


Locate the *.wtp file corresponding to your application, then click on « Open »

Once the « *.wtp » file is open, a large number of files are loaded into the eTice_Soft software. They are now ready to be transferred into the MilleniumII Web web server of your choice.

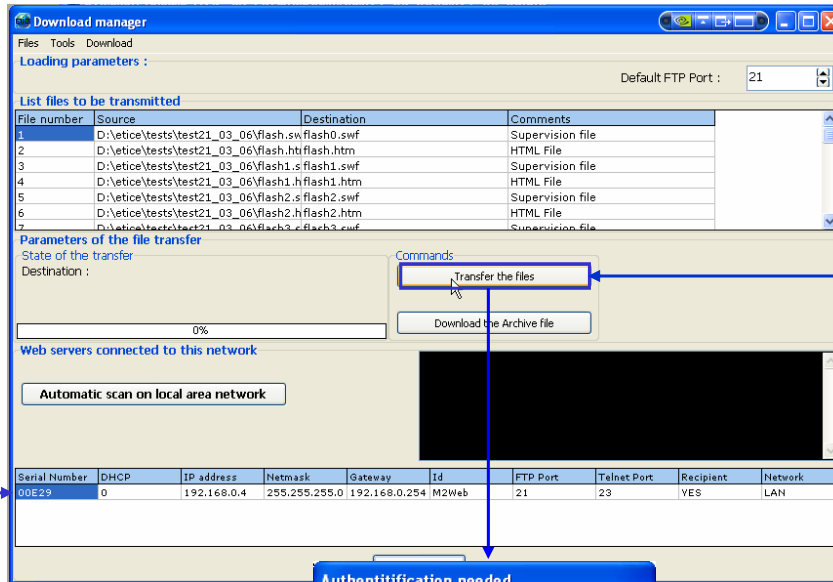
Click on « Auto-search on the local network » to identify the MIIWEB corresponding to the current application

The results of the search display a list of the MIIWEBs connected to the Ethernet network; in this case, there is only 1 MIIWEB with an IP address: 192.168.0.4

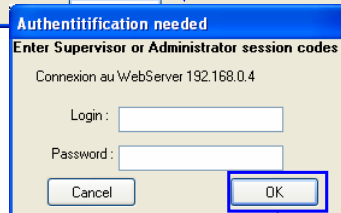


✓2nd step : Select the MIIWEB to receive the files (addressee) from the list, then click on « Transfer the files ».

Warning, only the MIIWEB to which the files are to be sent must show **YES** on its line in the Addressee box, all the others must show **NO** (click on it to change the state of this box)



Click on OK, to continue the transfer procedure



An authentication window appears, enter the session code + password corresponding to the Web server logins (NOTE, for Administrator or Supervisor logins only)

Click on « OK » to complete the downloading procedure

```
Getting session datas
Session opened...
Starting upload #1 to target 192.168.0.100 .
SUCCESS : 192.168.0.100 : File upload completed...
Remote server is rebooting...wait a minute...
Please close all web browsers...
Transfer procedure completed.
```

Once the operation is complete, the monitoring window displays the result of the program transfer into the MIIWEB.

Warning, you have to wait for 1 minute before connecting to the web site embedded in MIIWEB

Once the files have been loaded into the MilleniumII Web WEB server, connect to the site in one of two ways (see Chapter 4.2.2)

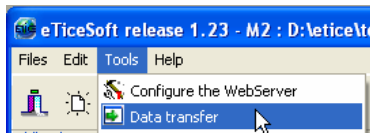
9.4 Downloading Archive Files

9.4.1 Using eTice_soft

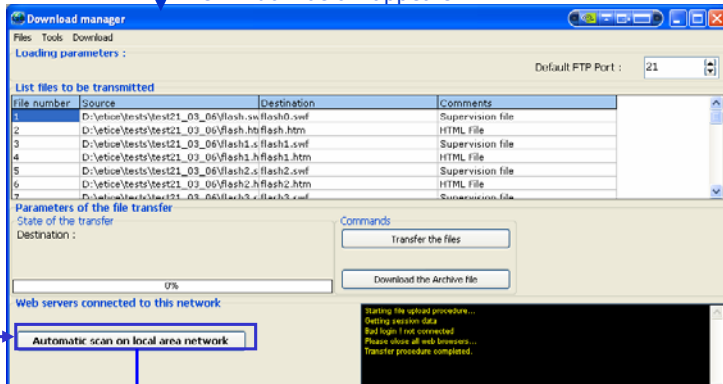
When archiving action for variables has been programmed from MilleniumII Web, they are stored in its « COMPACT FLASH » memory. At any time, the user can access this data by downloading them from MilleniumII Web and mine them (for example using an Excel® spreadsheet).

Proceed as follows :

1st step : From the program's main menu bar, click on the « Tools » tab, then on « Data transfer »



The window below appears



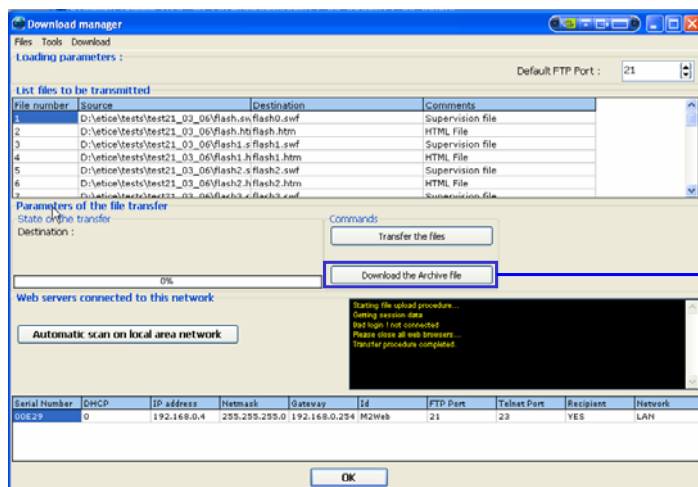
Click on « Auto-search on the local network » to identify the MIIWEB from which you want to download the archive file

The result of the search displays a list of the MIIWEBs connected to the Ethernet network; in this case, there is only 1 MIIWEB with an IP address: 192.168.0.4

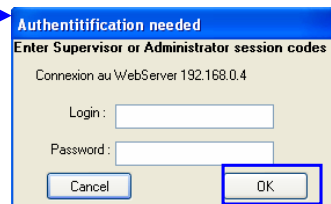
Serial Number	DHCP	IP address	Netmask	Gateway	Id	FTP Port	Telnet Port	Recipient	Network
00E29	0	192.168.0.4	255.255.255.0	192.168.0.254	M2Web	21	23	YES	LAN

✓2nd step : Select the MIIWEB from which the file is to be retrieved (Addressee) from the list, then click on « Download the Archive File ».

Warning, only the MIIWEB from which the files are to be retrieved must show **YES** on its line in the Addressee box, all the others must show **NO** (click on it to change the state of this box)



An authentication window appears, enter the session code + password corresponding to the Web server logins (NOTE, for Administrator or Supervisor logins only)



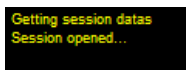
Click on OK, to continue the downloading procedure

3rd step : After downloading the archive file, a window opens to save the file on the hard disk drive.

Nom du fichier : Enregistrer

Type : Annuler

Give the file a name, with the XLS suffix for example to edit an Excel® file, then click on « Save ».



Once the operation is complete, the monitoring window displays the results of the archive file download

9.4.2 Using an FTP Client

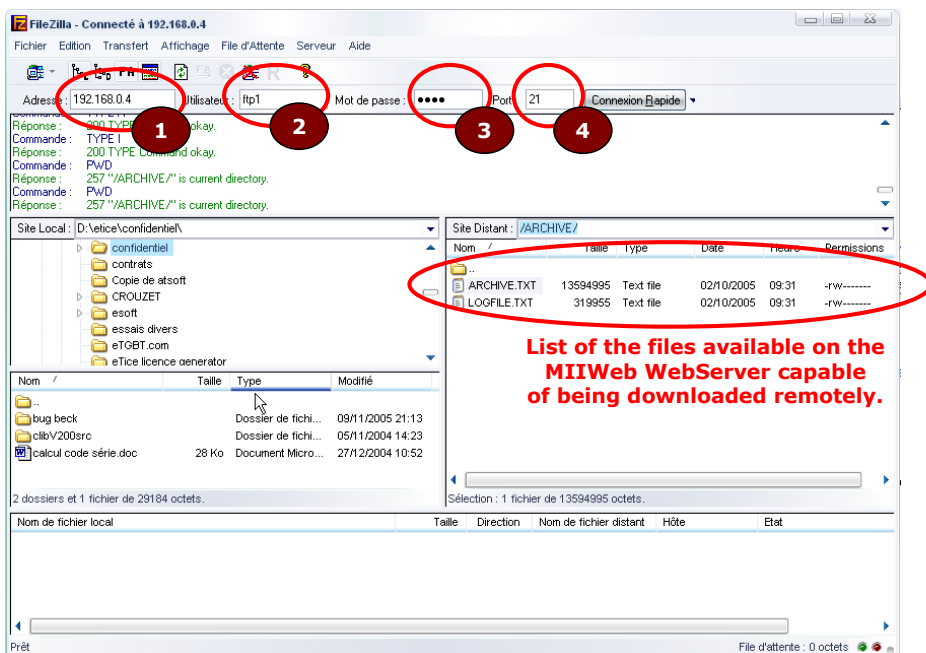
A simple ftp client can be used to download the files (e.g. : filezilla).

Example : using the FTP Client freeware : FileZilla

From a LAN or WAN network (e.g.: Internet) it is possible to connect to the MIIWeb WebServer to download the archive files (ARCHIVE.TXT) or the logbook (LOGFILE.TXT).

To do this, start the FTP client and enter the FTP session code defined by the MIIWeb WebServer's Administrator (the MIIWeb Administrator must have activated the FTP server (see MIIWeb WebServer User Guide)) :

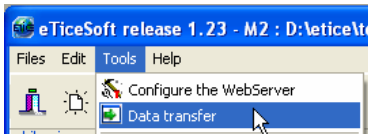
- 1 - IP address or MIIWeb server's URL : e.g. : 192.168.0.4.
- 2 - FTP Username or session name for the MIIWeb server : e.g. : ftp1
- 3 - FTP session password : e.g. : ftp1
- 4 - The FTP Port defined by the MIIWeb Administrator for connecting to MIIWeb's FTP server : e.g. : 21



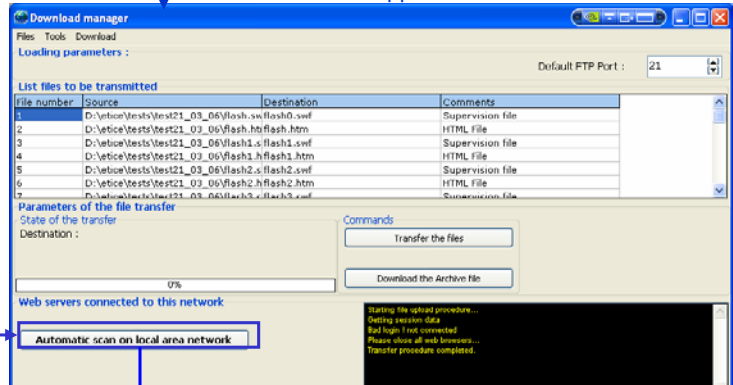
9.5 Deleting Archived Files

Proceed as follows :

1st step : From the program's main menu bar, click on the « Tools » tab, then on « Data transfer »



The window below appears



Click on « Auto-search on the local network » to identify the MIIWEB from which you want to download the archive file

The result of the search displays a list of the MIIWEBs connected to the Ethernet network; in this case, there is only 1 MIIWEB with an IP address: 192.168.0.4

Serial Number	DHCP	IP address	Netmask	Gateway	Id	FTP Port	Telnet Port	Recipient	Network
00E29	0	192.168.0.4	255.255.255.0	192.168.0.254	M2Web	21	23	YES	LAN

✓2nd step : Select the "Addressee" MIIWEB from the list, then click on the « Downloading » tab.

Warning, only the MIIWEB concerned by the deletion must show **YES** on its line in the Addressee box, all the others must show **NO** (click on it to change the state of this box)

9.6 Downloading and Deleting the LOG File

When action involving a log file (LOGFILE.TXT) from MilleniumII Web has been programmed, the file is stored in its « COMPACT FLASH » memory. At any time, the user can access this data by downloading them from MilleniumII Web and mine them like a text file.

All the events listed in the web server's logbook are stored in this file.

Advanced configuration of the WebServer

MODBUS RTU Parameters
MODBUS Baudrate: 57600 bps Parity: Even 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)

Millenium's extension type: XC04 (Millenium II)
 MODBUS Address of the Millenium: 5

☒ Reset registers IXC or DN 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):

PPP Client parameters
 Phone number of the PPP Internet Provider: *99***1#
 LOGIN: PASSWORD:
 PPP Authentication Method: PAP

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

Informations and Malfunctions (Faulty Millenium connections, enable to archive, or other system informations)
 If MODEM, Phone Number of the person to be notified: +330000
 If service activated, eMail address of the person to be notified: MrX@fal.fr
 Sending a SMS for internal alarm ☐
 Use history file (LOGFILE.TXT) ☒

Do not forget to check this option if you want to be able to store the history of the logbook embedded in the web server

Example of a logbook embedded in the MIIWEB WEB server

Millenium II Web Remote Maintenance Monitoring Settings Log Archiving 2005/10/02 Online und FAULT M2 #1

Date	Time	Event	System status	Info	Session
10/02/2005	09:21	HTTP	HTTP Client Login Control Client IP address : 192.168.0.45 - Actually Online : 0 HTTP Client Login Control -> Disconnected	Accepted	Administrator
10/01/2005	04:47	HTTP	Client IP address : 192.168.0.45 - Session : Administrator HTTP Client Login Control	No request	SYSTEM
10/01/2005	04:42	HTTP	Client IP address : 192.168.0.45 - Actually Online : 0 HTTP Client Login Control -> Disconnected	Accepted	Administrator
10/01/2005	02:21	HTTP	Client IP address : 192.168.0.45 - Session : Administrator Cannot exchange datas with Millenium #2 (MODBUS Address:3)	No request	SYSTEM
10/01/2005	00:01	EMAIL FAULT	tdp@free.fr Process communication error :	Not sent	-
10/01/2005	00:01	FAULT	Cannot exchange datas with Millenium #2 (MODBUS Address:3)	Notified	System

The procedures for downloading or deleting the LOG file from the MIIWEB WEB server are identical to those for archive files.

Refer to the various procedures below :

- To download the LOG file: Chapter 9.4.1 : Downloading the Archive Files,
- To delete the LOG file: Chapter 9.5 : Deleting Archive Files.

9.7 Network Tools

These utilities facilitate implementing MilleniumII Web in a local network (LAN).

9.7.1 Configuring the TCP/IP Stack in a MilleniumII Web

This function provides for configuring remotely, via the UDP/IP protocol, the IP address parameters of a MilleniumII Web already connected, but whose network parameters are not suitable.

The screenshot shows the 'WebServer' configuration window. It has a title bar 'WebServer' and a menu bar with 'General informations' and 'IP parameters of the WebServer'. The 'General informations' section shows 'Current IP address of the PC : 192.168.0.45' and 'Serial number or MAC address of the product : 00E29'. The 'IP parameters of the WebServer' section has fields for 'IP Address : 192.168.0.4', 'Subnet mask : 255.255.255.0', and 'IP address of the default gateway : 192.168.0.254'. There is a checkbox 'Enable the DHCP client' which is unchecked. At the bottom are 'Configure !' and 'Close' buttons. A 'Report' section at the bottom shows 'Ready' in yellow text on a black background.

Annotations with arrows point to the following fields:

- Current IP address of the PC Ethernet Interface (points to 192.168.0.45)
- Serial Number of the WebServer device (not configurable) (points to 00E29)
- Enter the new IP address for the WebServer device in this field (points to 192.168.0.4)
- Enter the sub-network mask for your Ethernet network in this field (points to 255.255.255.0)
- Enter the IP address of the Internet gateway for your network in this field (points to 192.168.0.254)
- Of your network has a DHCP server (automatic network configuration service), check this box for MilleniumII Web to be configured automatically. (points to the 'Enable the DHCP client' checkbox)
- Click on the « Reconfigure » button to validate the modified MilleniumII Web configuration after filling in all the fields correctly (points to the 'Configure !' button)
- Operation report field. The message « Complete » indicates that the MilleniumII Web selected has been configured with the parameters defined. (points to the 'Report' section showing 'Ready')

9.7.2 Ping

This tool opens a DOS window which sends requests designed to detect whether the network parameters of a MilleniumII Web are compatible with the local network. If the answer is positive, the time taken to obtain the response is displayed.

9.7.3 http

This tool provides for running the default Internet navigator in your computer, by initialising it automatically with the IP address of the MilleniumII Web selected.

9.7.4 FTP

This tool provides for accessing the MilleniumII Web FTP server directly using the DOS commands.
(reserved for experts)

9.7.5 telnet

This tool is reserved for experts; it provides for accessing the MilleniumII Web TELNET server directly using DOS commands. It is a diagnostic tool which displays the operations that the MilleniumII Web performs in real time (messages in English).

10.1 Additional Tools for Designing WEB Pages

There is a tool to assist you to edit a web monitoring design project, or create monitoring components. It is accessible by positioning the mouse in the worksheet and clicking on the right mouse button. A window opens :

