

WebServer eTice – M2WEB	Page 1 sur 10
Title : Firmware Update procedure	Application note
Rev B - eng	02/12/06

WebServer's Firmware update procedure

Overview:

This procedure describes the operation sequence needed to perform a complete firmware update of a Millenium II WebServer which has a eTiceSoft or/and firmware version under 1.24B published the 11/26/2006.

This procedure is useful for a WebServer meeting at least one of the following cases :

- Firmware version <1.43_eng
- eTiceSoft version <1.24B
- WebServer with filesystem crashed
- WebServer which does not open a HTTP Session or other network sessions

To perform successfully this procedure, you need :

- Release 1.24B of eTiceSoft or higher, (published the 11/26/2006)
- A WebServer connected on the same local area network than the PC from which the update will be done.
- A PC running windows 98/2000/XP or higher, with firewalls deactivated (TCP port use while update : 23 (telnet), 21 (ftp), 80 (http) and the UDP/IP port 8001).
-

The IP address needs to be compatible with the LAN configuration.

Notice:

The eTiceSoft, firmware and OS version are specified in the system file INFO.INI in the directory eTice/eTiceSoft/binary.

This procedure does not work if Drive B is full (e.g. the archive file is too big, the delete it !)

On the first use of the English version of eTiceSoft, only a firmware update without OS transfer is needed (sends English language program in the Web Server), this operation is very easy and does not correspond to the complex procedure described bellow. (Just click yes to the message box, if you are connected to webServer by a LAN correctly parameterized)

WebServer eTice – M2WEB	Page 2 sur 10
Title : Firmware Update procedure	Application note
Rev B - eng	02/12/06

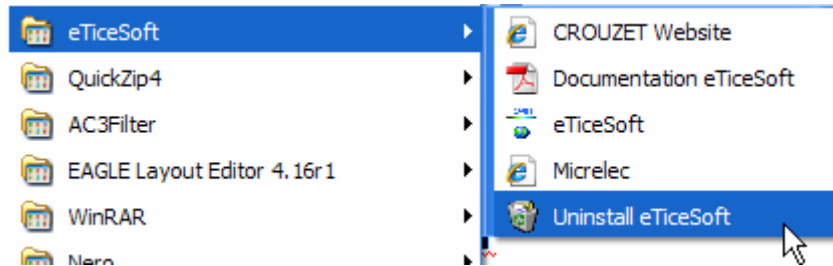
I – Uninstall previous version of eTiceSoft

To perform this procedure, you need to uninstall the previous eTiceSoft version from your PC.

We encourage you to save (export) the monitoring object's libraries you've made before uninstalling eTiceSoft.

Uninstall the eTiceSoft software:

In the start menu, select: eTiceSoft / uninstall eTiceSoft.



After confirmation, the software is uninstalled.

To finish the uninstall procedure, you need to remove manually the "eTice" directory from the previous installation directory of this software (default : c:\program files\).

WebServer eTice – M2WEB	Page 3 sur 10
Title : Firmware Update procedure	Application note
Rev B - eng	02/12/06

II – Update and program sequence

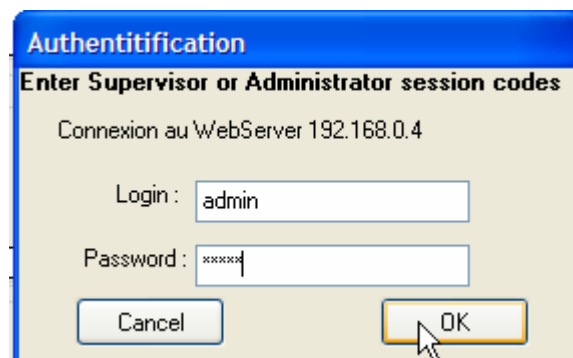
- a) Insert the eTiceSoft CD and lunch the installation.
- b) The new release is installing, follow the installation.
- c) When done, lunch eTiceSoft software.
- d) Edit a new project or load an old one (wich does not use modbus OR ANY OTHER EVENTS and MODEMS), compile it.
- e) Clic on transfer button.
- f) In the Download manager, clic on automatic scan on LAN, the verify that the WebServer appears, if it's not the case, check the following points :
 - a. The WebServer is ON (green led ON since one minute at least)
 - b. That the LAN cable and all the connections are OK.
 - c. That Windows firewalls are deactivated.

In function of the status of the WebServer, 2 cases are possible:

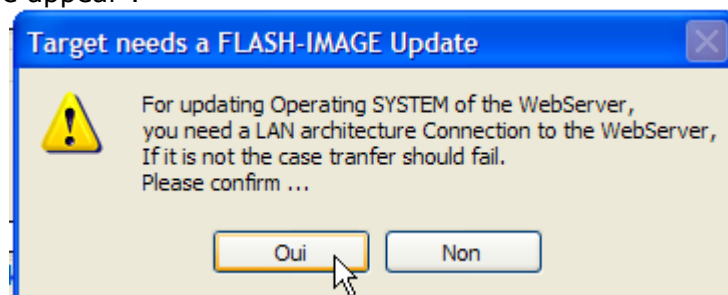
- The Web Server already works well (no problem encountered before with it)
- The WebServer does not perform an http session normally.

II.1 – Update on a WebServer which already works well

When the WebServer has been detected, clic on "transfer files" then enter the session codes :



Enter your administrator session codes (default: admin/admin), then press OK.
If the eTiceSoft version is different from the firmware version of the WebServer, then following message appear :



Clic on YES, if you are using a LAN.

WebServer eTice – M2WEB	Page 4 sur 10
Title : Firmware Update procedure	Application note
Rev B - eng	02/12/06

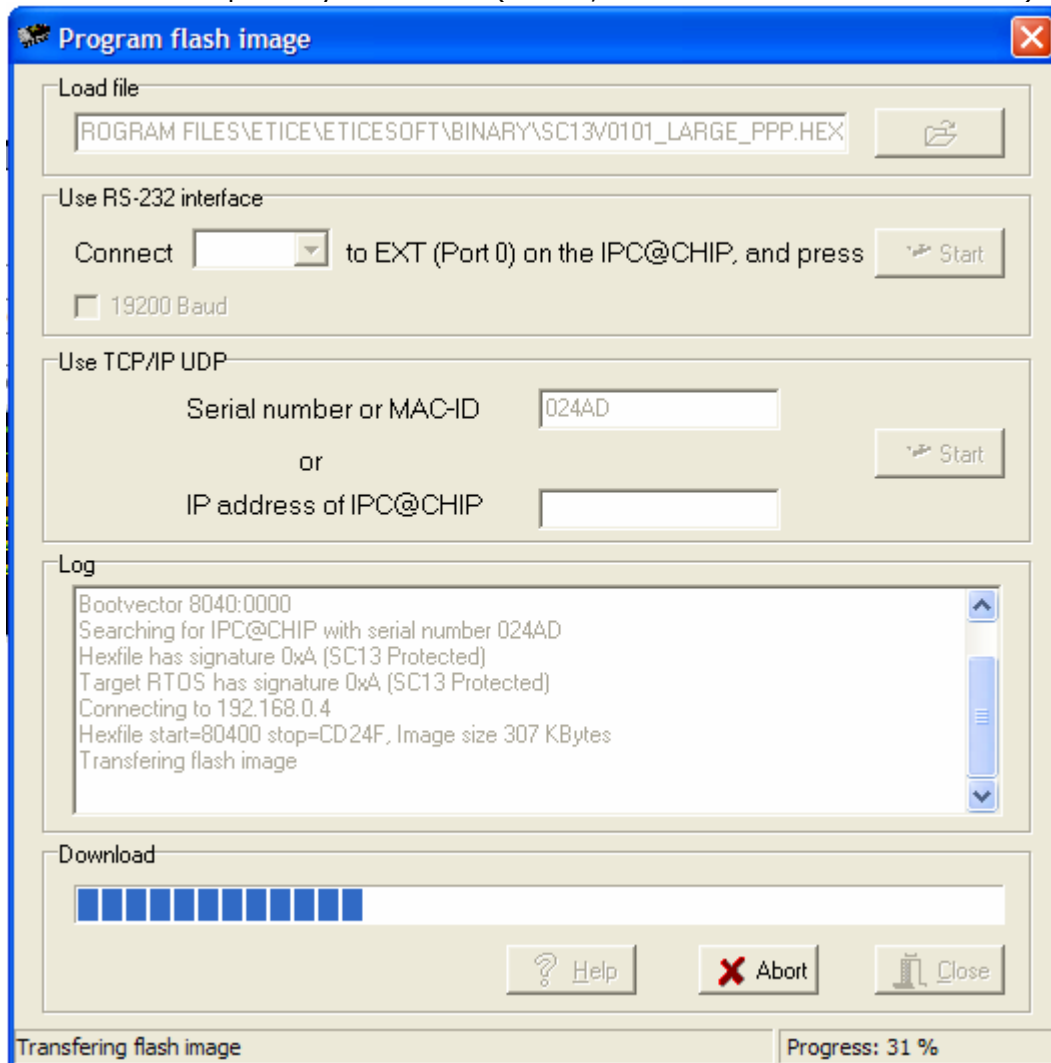
The transfer monitoring window then show followind data, then wait about 1min30s:

```

Old FLASH-Image, need to update !
Deleting firmware...attempt #1
Firmware deleted.
CONTROL FILE sent...
Target 024AD : 024AD 7 00-30-56-80-24-AD UDP Active1
Target 024AD set in configuration mode.
Target 024AD is preparing data transfer (90s) : Attempt 1 of 5...

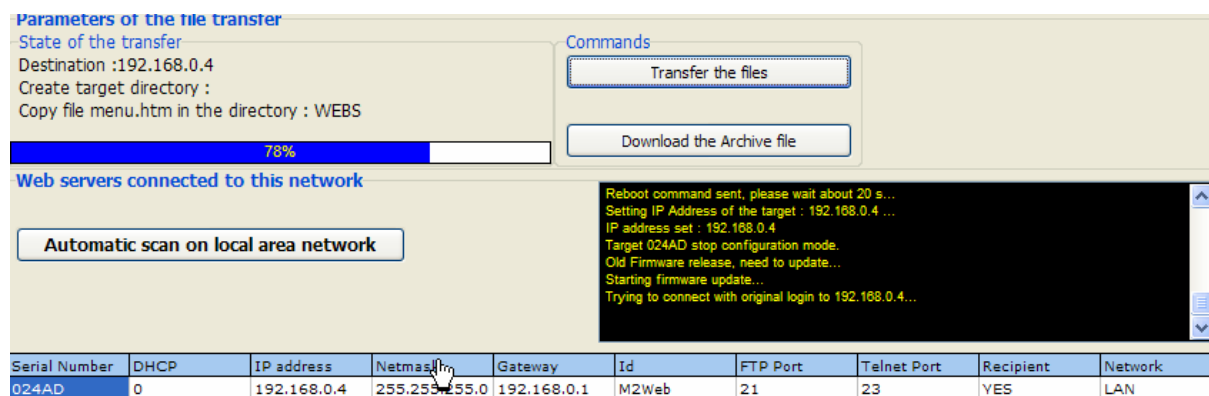
```

After this delay, a new window appears and tries to update the WebServer's OS. Be careful: several attempts may be needed (5 max, see ANNEXE 1 for more details)



Take care : This operation is very critical, do not cut the network connection or system alimentation while this transfer, it could lead to WebServer system crash and should destroy its file system !!!

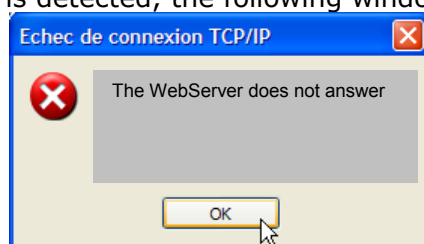
When done, the OS update the firmware is downloaded, and the progress bar is filling after 1 or 2 supplementary minutes :



Update is completed,
The WebServer the reboot with the new firmware version.
You need to wait about 2 minutes to use the WebServer (reboot time).
Notice : You'll need to compile an other time your project and transfer it to WebServer to use it normally.

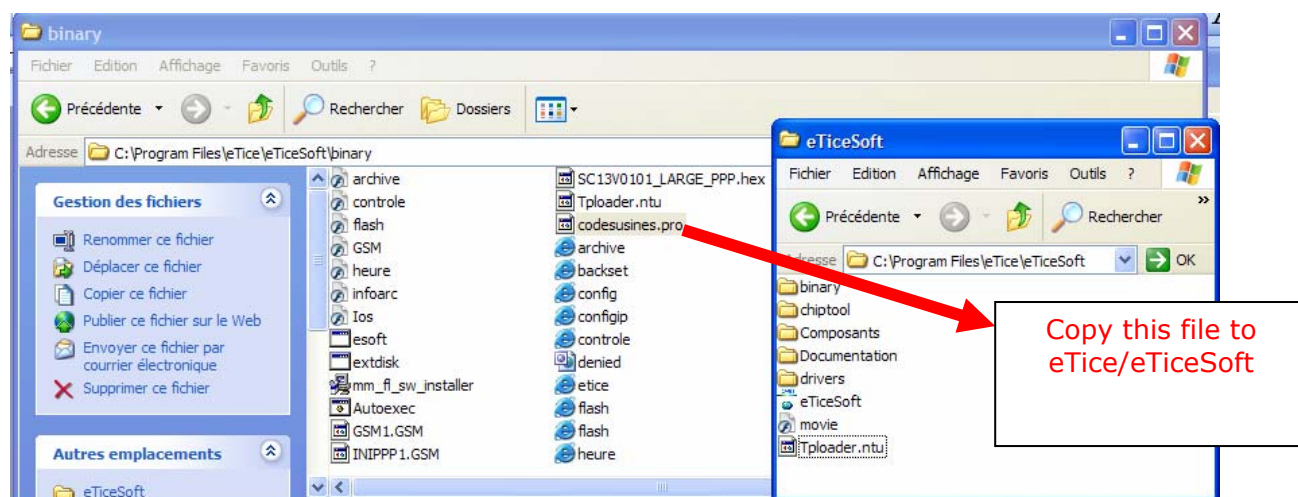
II.2 – Update of a System Crashed WebServer (file system)

When the WebServer is detected, the following window appears after 2 minutes :



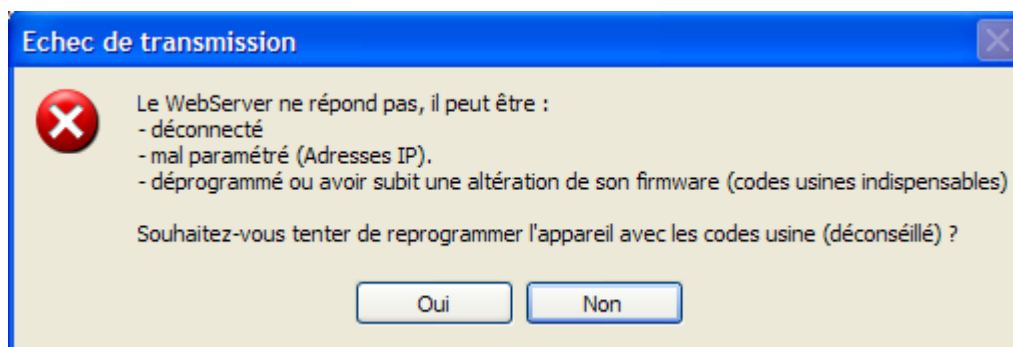
It indicates that the WebServer (if it is correctly connected and parametrized (IP address)) may have a problem with its filesystem. In this last case, you need to copy the file "codesusines.pro" from the directory **eTice/eTiceSoft/binary** to the directory **eTice/eTiceSoft/**.

This operation makes factory procedure possible:



WebServer eTice – M2WEB	Page 6 sur 10
Title : Firmware Update procedure	Application note
Rev B - eng	02/12/06

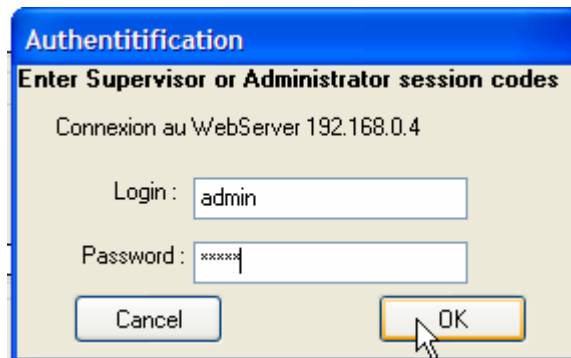
When copy done, Restart the previous transfer operation and a new window appears after 2 minutes :



If the WebServer is well connected to the LAN, and its IP Address is correct, then it can be useful to program it.

Clic on YES

The following box appears :

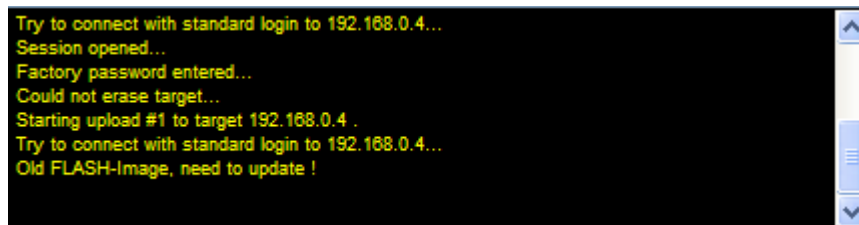


Then enter the factory codes :

login : originalprogram

password : originalprogram

The program procedure then starts :

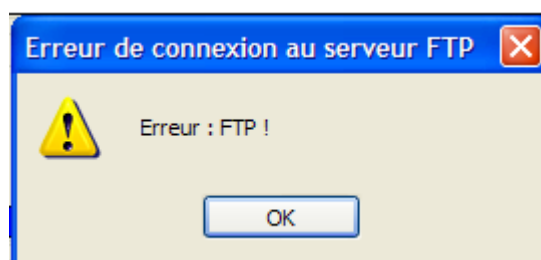


If the eTiceSoft version is different from the firmware version of the WebServer, then following message appear :



Clic on YES, if you are using a LAN.

A FTP error box then appears :



clic OK

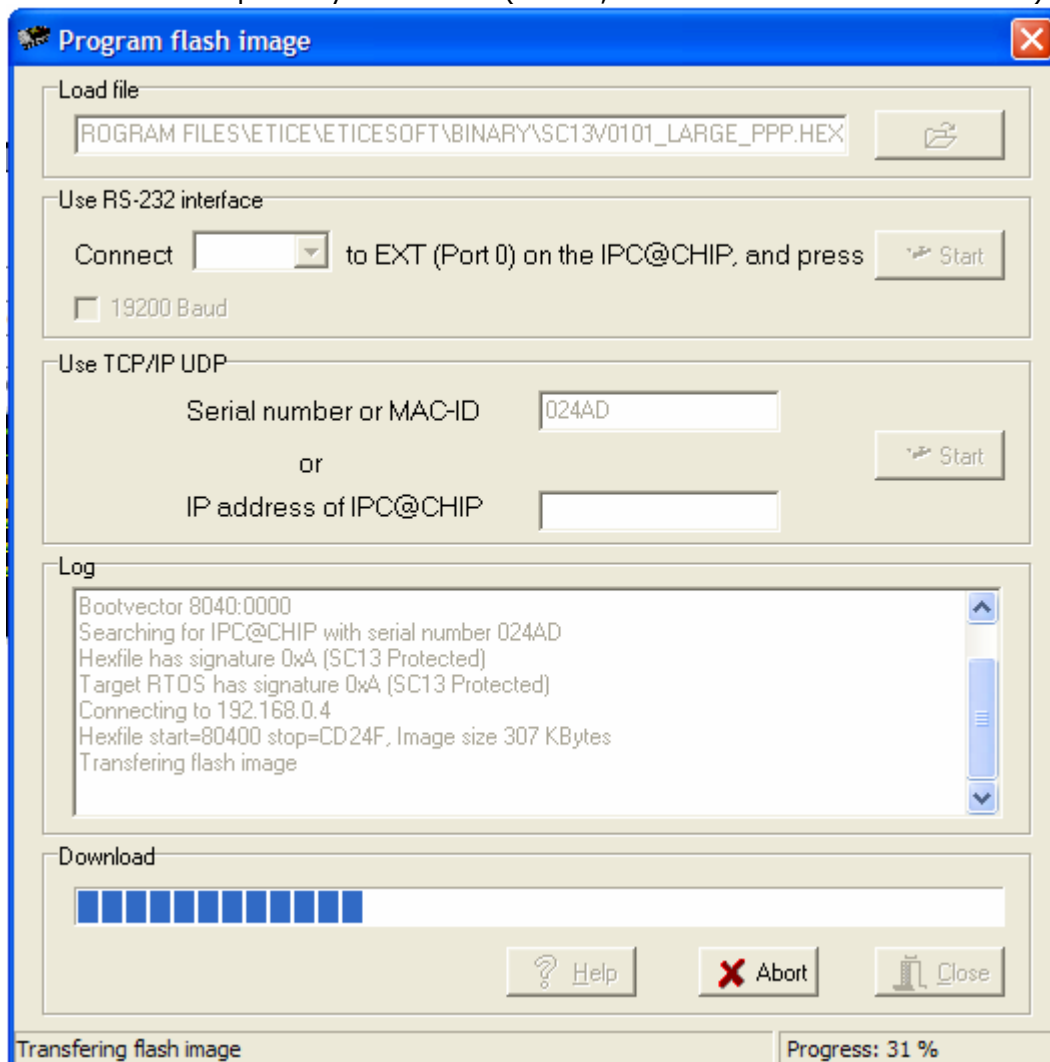
WebServer eTice – M2WEB	Page 8 sur 10
Title : Firmware Update procedure	Application note
Rev B - eng	02/12/06

```
Error while file transfer by FTP on 192.168.0.4 !
Target 024AD :
Target 024AD set in configuration mode.
Target 024AD is preparing data transfer (80s).
```

The transfer monitoring window then show followind data, then wait about 1min30s:

```
Old FLASH-Image, need to update !
Deleting firmware...attempt #1
Firmware deleted.
CONTROL FILE sent...
Target 024AD : 024AD 7 00-30-56-80-24-AD UDP Active1
Target 024AD set in configuration mode.
Target 024AD is preparing data transfer (90s) : Attempt 1 of 5...
```

After this delay, a new window appears and tries to update the WebServer's OS. Be careful : several attempts may be needed (5 max, see ANNEXE 1 for more details)



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WebServer eTice – M2WEB	Page 9 sur 10
Title : Firmware Update procedure	Application note
Rev B - eng	02/12/06

When done, the OS update the firmware is downloaded, and the progress bar is filling after 1 or 2 supplementary minutes :

Serial Number	DHCP	IP address	Netmask	Gateway	Id	FTP Port	Telnet Port	Recipient	Network
024AD	0	192.168.0.4	255.255.255.0	192.168.0.1	M2Web	21	23	YES	LAN

Update is completed,
The WebServer the reboot with the new firmware version.
You need to wait about 2 minutes to use the WebServer (reboot time).
Notice : You'll need to compile an other time your project and transfer it to WebServer to use it normally.

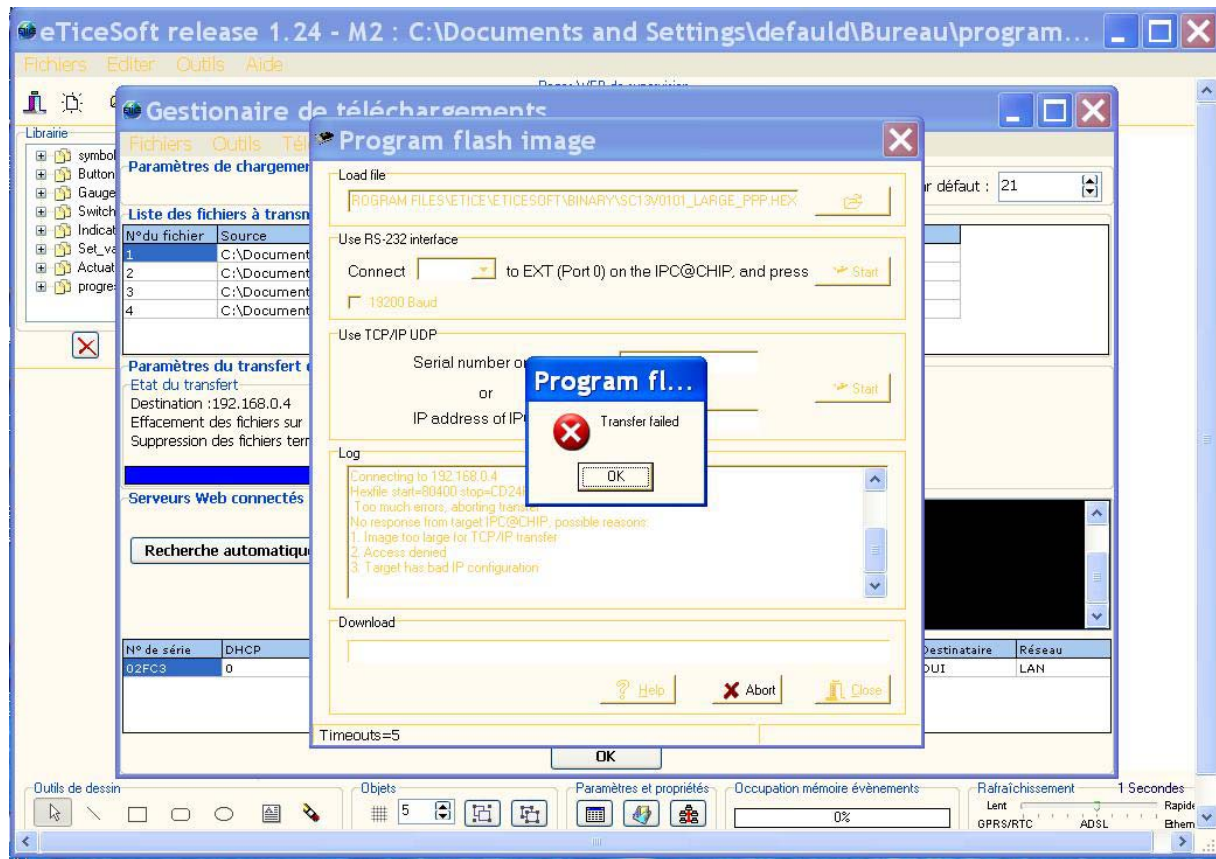
III – Update TEST :

After update, then open a WebServer http session and verify in the log that the firmware version has changed (e.g 1.43_eng).

ANNEXE 1

RTOS update attempts

While the system is trying to update RTOS, a connection failure should appear (sometimes while the first system update)
The following message then appears:



In this case you must press OK to make the system continue with a new attempt

The number of attempts is limited to 5, if it fails, the firmware update then continue and the OS update will not be perform anymore (the version firmware file is updated, considering that the WebServer update has been done successfully).