

# EWCM 8000/9000 Series Bios Updater

## Use and *Installation*



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## 1 MINIMUM SYSTEM REQUIREMENTS

### Operating System

#### *Operating System*

- Windows XP Home SP2 or SP3
- Windows XP Professional SP2 or SP3

### Minimum Hardware


#### **Minimum Hardware**

- 1024x768 graphic resolution
- CPU 1 GHz
- 1 GB RAM
- 2GB free disk space
- Mouse or other pointing devices
- RS232 serial port

### Hardware

#### **Hardware**

- EWCM 9000 or 8000 series
- RS232/RS485 converter. Eliwell recommends the SmartConverter opto-isolated converter

	<b>RS232/RS485 converter</b>	<b>code</b>
	RS232/RS485 Smart Converter	SAR0RA00X700

### Firmware

#### **Firmware (BIOS)**

- .ehx file supplied by Eliwell

## 2 INTRODUCTION

### 2.1 General description

Eliwell Bios Updater enables the BIOS of Eliwell EWCM8000 and EWCM9000 series devices to be updated quickly and simply using only a computer connected to the instrument, without the need for additional licences.

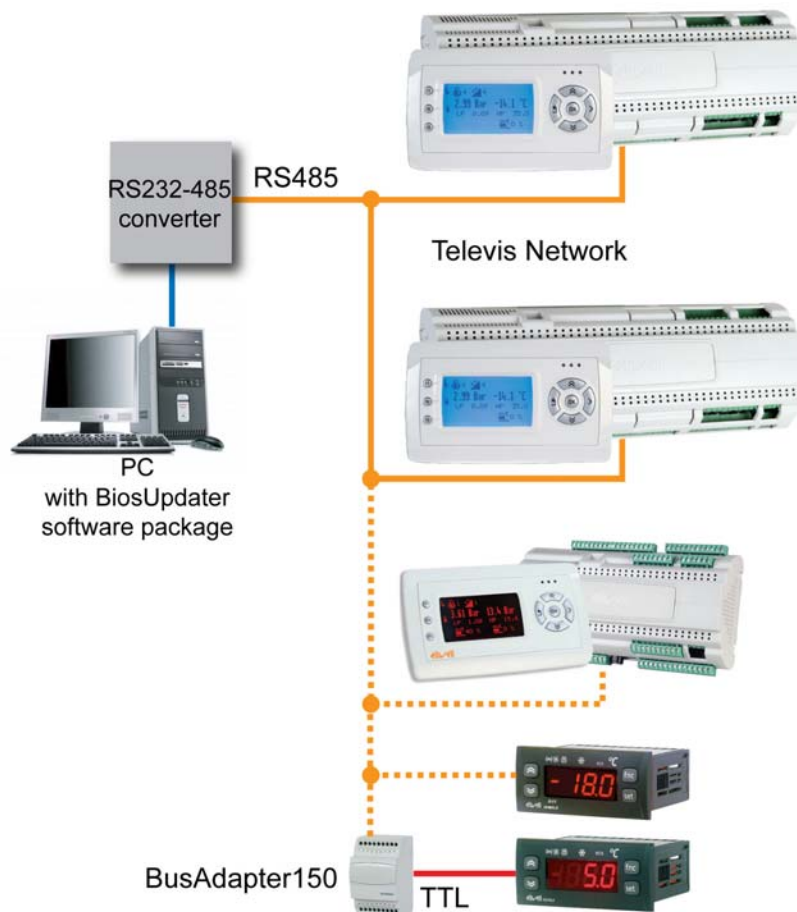
**Although the program is simple to use, the operation must be performed by qualified personnel!**

Updating the *firmware* modifies the functionality and settings of the instrument and consequently affects the control of the plant.

### 2.2 PC connection – EWCM8000/9000

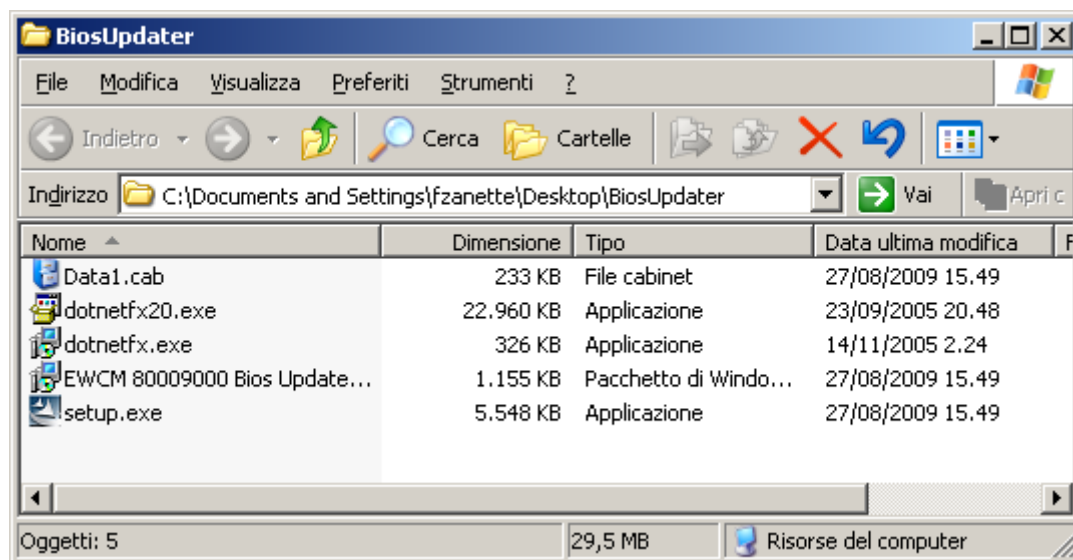
- Connect the computer's serial output (RS232) to the RS232/RS485 converter
- Connect the RS485 serial output of the RS232/RS485 converter to the EWCM

NOTE: if the EWCM8000/9000 is inserted in the Televis network, disconnect the network from the PCInterface before making the connections below, e.g. disable data acquisition by TNET.

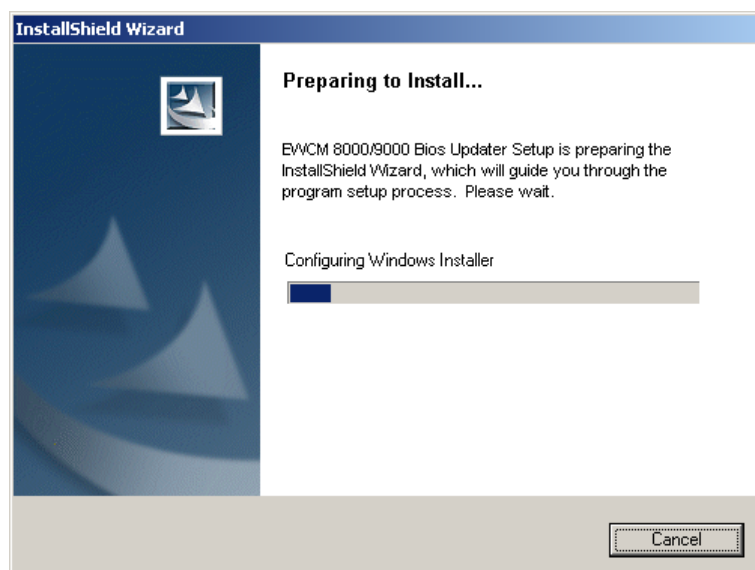


### 3 INSTALLATION

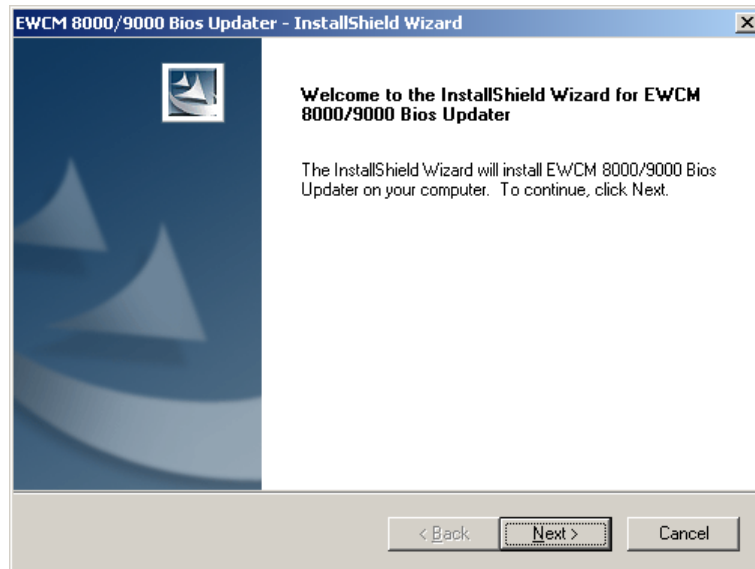
Unpack the .zip file supplied by Eliwell  
From the "Bios Updater" folder run setup.exe



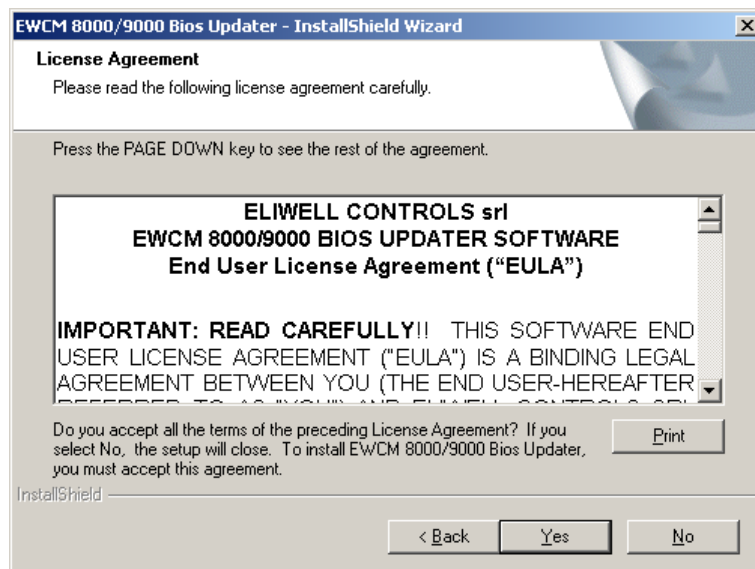
and then follow the [installation](#) wizard as indicated in the following screenshots.



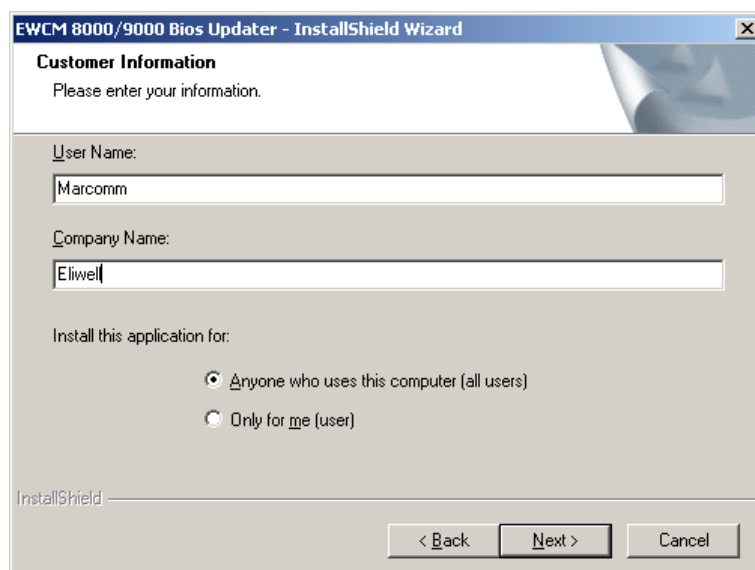
Click 'Next'



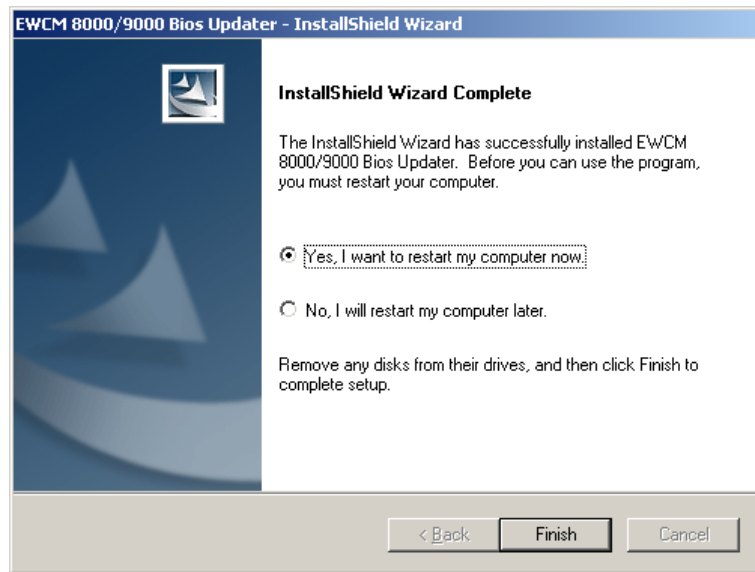
Click 'Yes'



Input your data and then click 'Next'



Click 'Finish'



The Eliwell Bios Updater icon will appear on the desktop

## 4 UPDATING FIRMWARE

### Before starting Bios Updater

The Eliwell Bios Updater icon will appear on the desktop.

#### *Before starting Bios Updater*

- Ensure that one or more EWCM 8000/9000 series EWCM devices are connected to the RS232 serial port via the RS232/RS485 converter
- Ensure that parameter 673 – PtStLV Protocol selection is set to 'Micronet'

#### Definitions

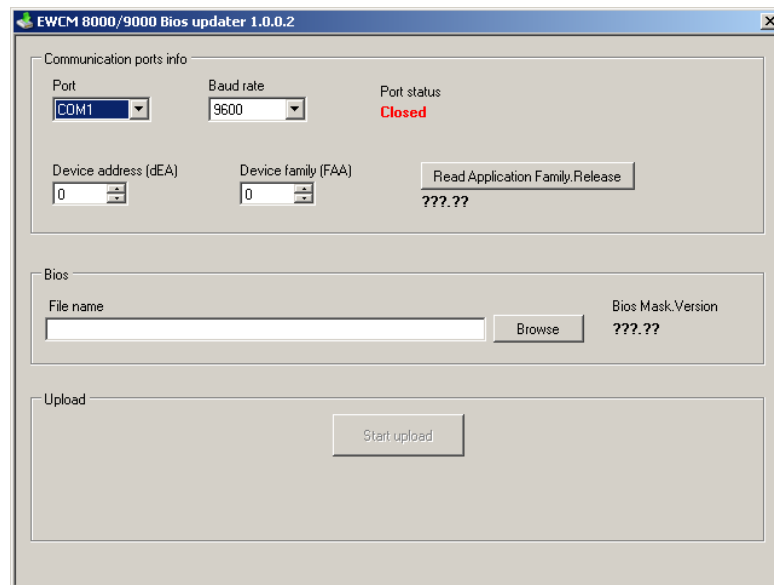
- **BIOS release:** BIOS release denotes the BIOS version to upload to the EWCM device (the .ehx file)
- **Firmware version:** *firmware* version denotes the *firmware* mask (release) of the EWCM device

### Start Bios Updater

#### *Start Bios Updater*

Click the icon to open the program.

The following screen appears:



### Communications ports info panel

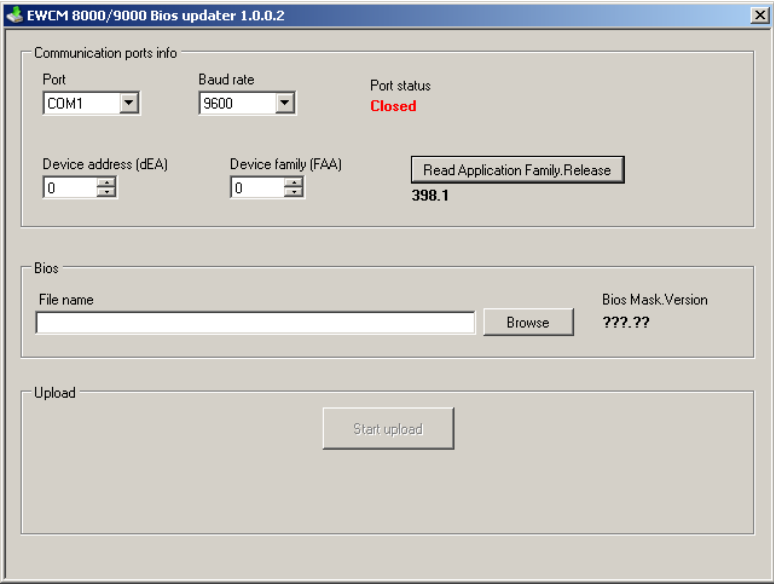
#### *Communications ports info panel*

- **Port:** COM port. The default port is COM1
- **Baud rate:** default setting is 9600. Can be configured as 19200/38400
- **Device address and Device family (dEA, FAA):** indicate the address of the EWCM in the RS485 network.
- **Port status:** Closed if communication with EWCM is disabled, Open if data is being sent/received.
- **Read Application Family Release:** Read EWCM *firmware* version

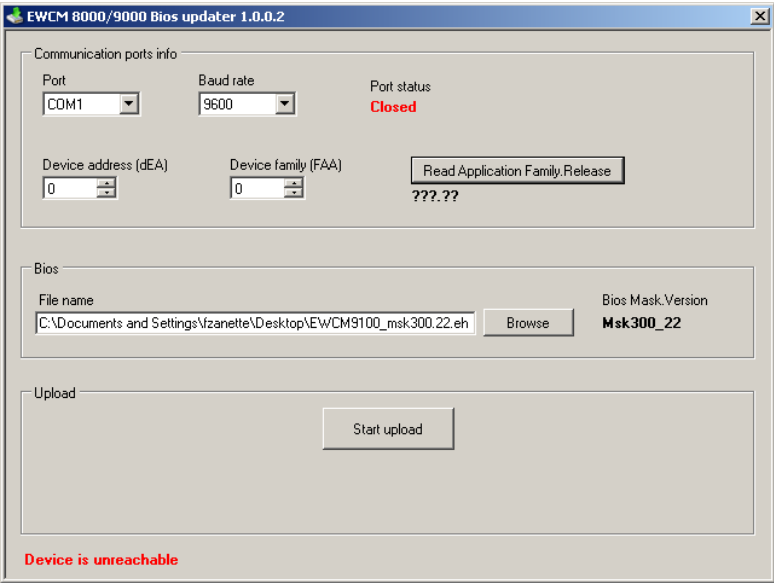
#### Read EWCM *firmware* version

Click on Read Application Family Release





The *firmware* release of the device is displayed below the button (in this case 398.1).  
If not, (see screenshot below) check the connections and/or power supply of the connected controllers.  
The red error message "Device is unreachable" is displayed.



If the problem persists, contact Eliwell Technical Support  
Note: the *firmware* release can be checked on the EWCM display in the Service Menu Service (requires Administrator password, see EWCM user manual)

<b>SERVICE</b>	<b>03/03</b>
Service Password	
FW 398.01	22/04/09

Note: only available from versions 398.01 onward.

**Bios panel**    *Bios panel*  
Click 'Browse' to select the *.ehx* file supplied by Eliwell Technical Support.

The screenshot shows the 'EWCM 8000/9000 Bios updater 1.0.0.2' window. It is divided into three main sections: 'Communication ports info', 'Bios', and 'Upload'.  
1. 'Communication ports info': Contains a 'Port' dropdown set to 'COM1', a 'Baud rate' dropdown set to '9600', and a 'Port status' label showing 'Closed' in red. Below these are 'Device address (dEA)' and 'Device family (FAA)' dropdowns, both set to '0'. A 'Read Application Family Release' button is to the right, with the value '398.1' displayed below it.  
2. 'Bios': Contains a 'File name' text field with the path 'C:\Documents and Settings\Izabelle\Desktop\EWCM9100\_msk300.22.eh' and a 'Browse' button. To the right, 'Bios Mask Version' is displayed as 'Msk300\_22'.  
3. 'Upload': Contains a large empty rectangular area and a 'Start upload' button at the bottom center.

If the file is of the correct type, the relative BIOS version will appear below Bios Mask. Version (Msk 300\_22 in the example)

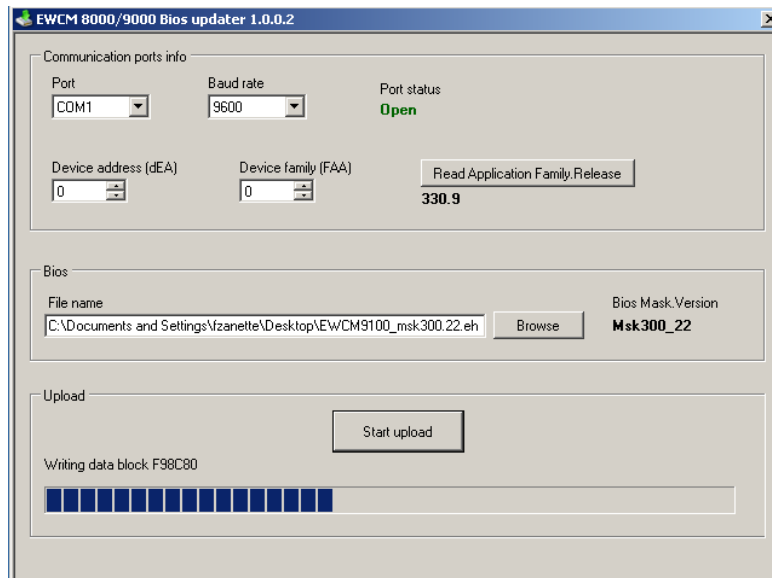
Otherwise a series of question marks will be displayed, e.g. ???.

Note: the BIOS version can be checked on the EWCM display (after the initial 'Eliwell' screen) at start-up of the device.

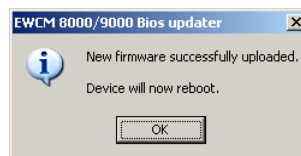
## Upload panel

### Upload panel

Click on the Start Upload button to start updating the *firmware* mask



If the update is successful, the following dialogue box will be displayed:



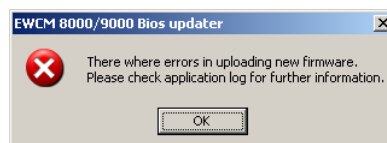
At this point you can close the program.

The 8000/9000 series EWCM device will reboot automatically and will begin working with the new BIOS version, which can be checked on the display (after the initial 'Eliwell' screen) on start-up of the device

## Errors

### Errors

Otherwise the following error message will appear:



Check the connections and/or power supply of the connected controllers and repeat the procedure

Note: during the *firmware* upload, in the event of:

- voltage drop, or
- RS232 and/or RS232/RS485 converter connection interrupted

the EWCM will enter boot mode e.g. the message 'Eliwell' will appear on the display, you will not be able to operate the keypad or software (e.g. **ParamManager**) and the instrument will be disabled\*

Repeat the upload procedure by clicking 'Start Upload' once again; before performing the operation, check that the .ehx file has been selected.

Notes:

- \*the 'Communication ports info' panel and the 'Read Application Family Release' key do not work
- The 'Upload' panel and the 'Start Upload' key are enabled, allowing the the BIOS version to be restored

If the problem persists, contact Eliwell Technical Support.

## 5 RESPONSIBILITY AND RESIDUAL RISKS

Elowell shall not be held liable for any damage incurred as a result of:

- [installation](#)/use other than those intended, and, in particular, failure to comply with the safety instructions specified by applicable regulations and/or provided in this document;
- use with equipment which does not provide adequate protection against electric shocks, water and dust under the effective conditions of [installation](#);
- use with equipment which permits access to hazardous parts without the use of tools;
- [installation](#)/use with equipment which does not comply with current regulations and legislation.

## 6 LIMITATION OF RESPONSIBILITY

ELIWELL CONTROLS srl shall not be liable for damages originating from the [installation](#)/use of the software that do not comply with the instructions of this manual.

While reasonable efforts have been made in the preparation of this document to assure its accuracy, ELIWELL CONTROLS srl assumes no liability resulting from the information contained herein.

To the maximum extent permitted by the law, ELIWELL CONTROLS srl assumes no liability for special, accidental, direct or indirect damages (including, without any whatsoever limitation, the loss of income or profits, interruption of work, loss of data or income) originating from the use of the software or from the failure to use it, and from the supply or failure to supply technical support, even when informed of the likeliness of said damages.

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ISO 9001



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