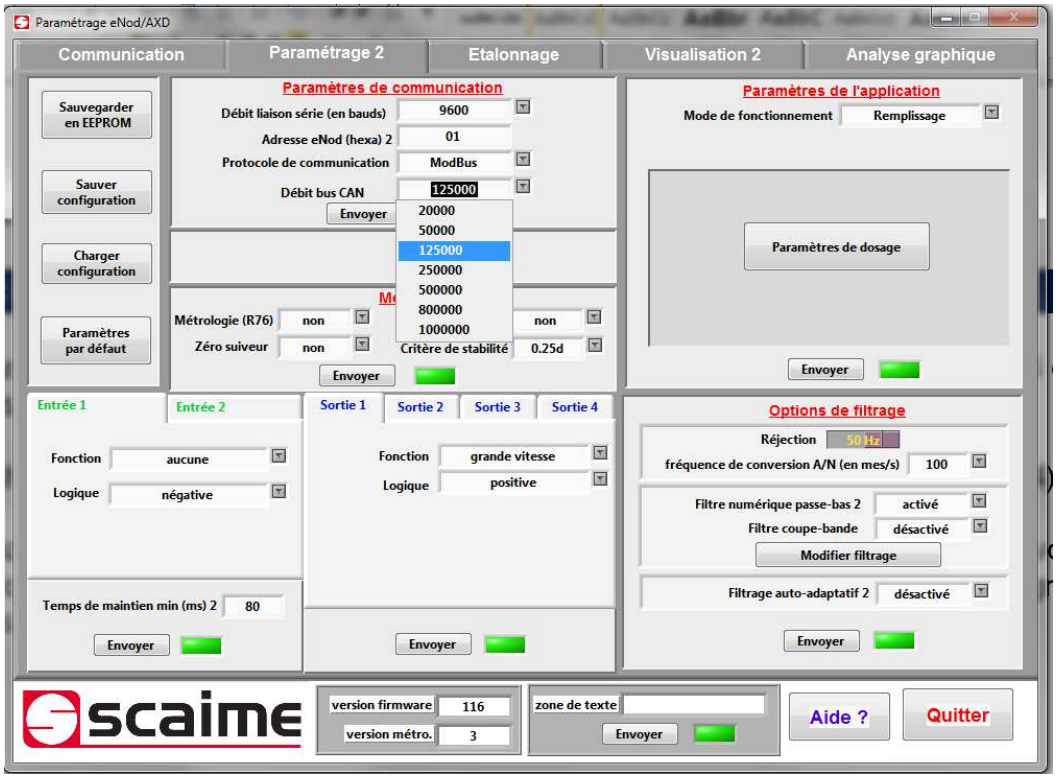
With eNod3 controller

Connect the eNod 3 to the computer with serial RS232 or RS485. If your computer is not equipped with serial port, you can use a RS232 – USB adapter or a RS485 – USB adapter. SCAIME could provide you these adapters.

Launch the eNodview software. Connect the eNod, and then in the « Parameters » tab, in the frame « Communication », fill the eNod address on your CANopen network and your bus baud rate.



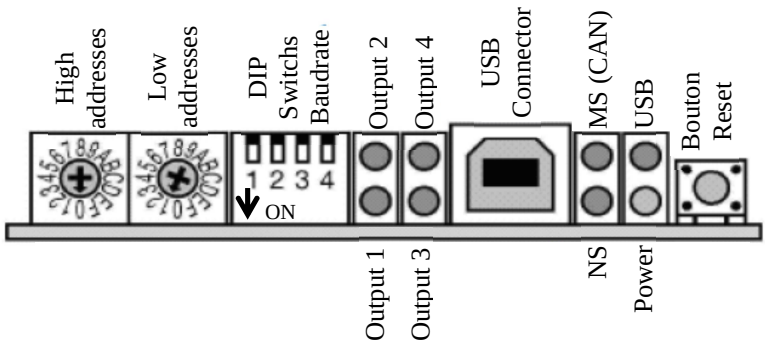
The eNod address is used both for serial communications and CANopen network.

Once these parameters have been modified, click on « Send » under the scrolling menu « Can baudrate ». Then click on « Save in EEPROM ».

The software will disconnect you. Reconnect the eNod to verify that parameters have been taking in account.

With eNod4 controller

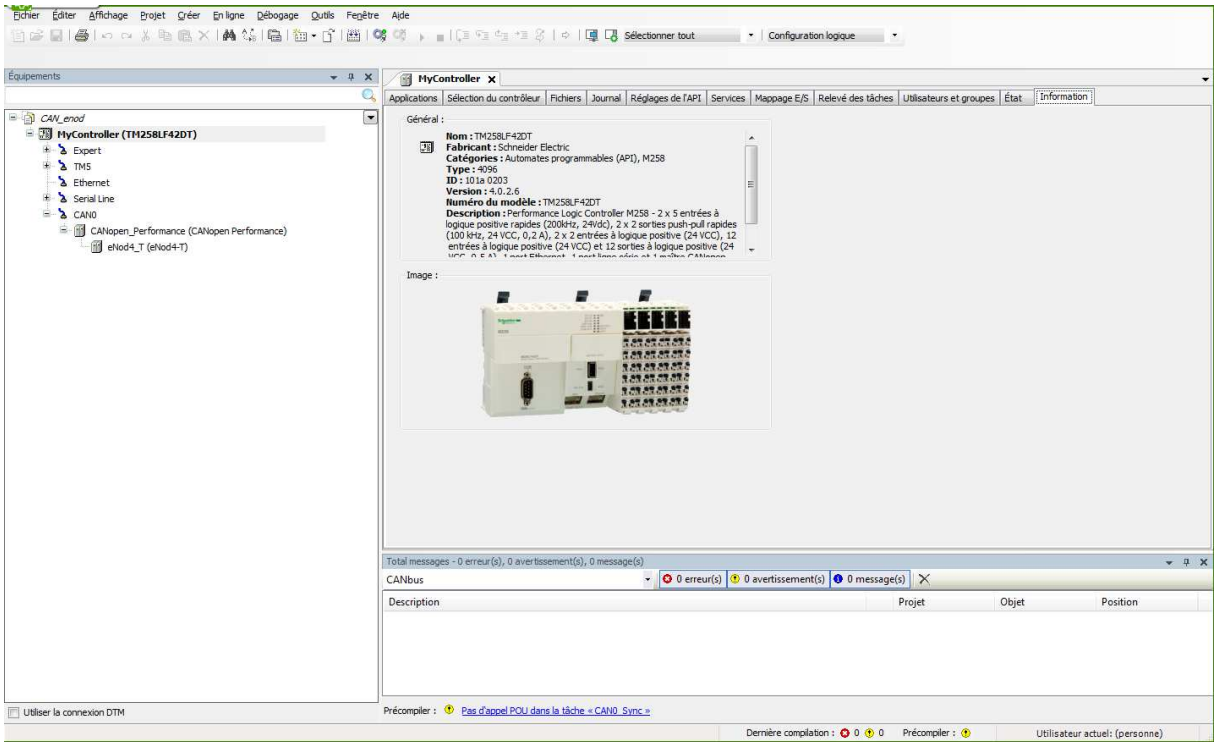
If you are using an eNod4 controller, the node address and its baud rate on the network are accessible directly through the front face of the module.



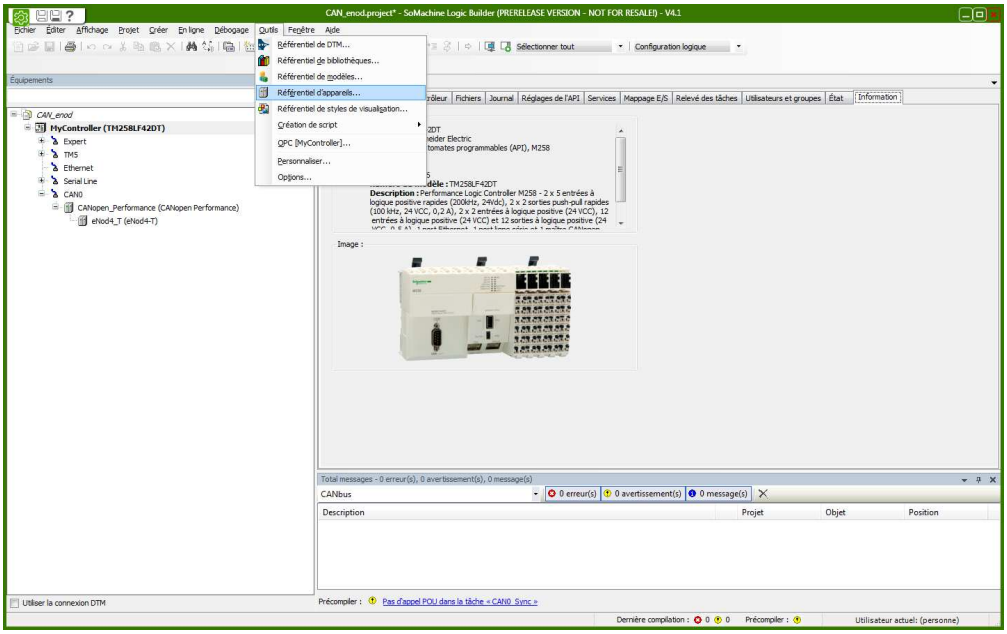
Dipswitch				Baud rate RS485 et USB	Bit rate CAN
1	2	3	4		
ON	ON	ON	X	9600	50 kbit/s
OFF	ON	ON	X	19200	50 kbit/s
ON	OFF	ON	X	38400	50 kbit/s
OFF	OFF	ON	X	57600	125 kbit/s
ON	ON	OFF	X	115200	250 kbit/s
OFF	ON	OFF	X	9600	500 kbit/s
ON	OFF	OFF	X	9600	1 Mbit/s
OFF	OFF	OFF	X	9600	125 kbit/s

SoMachine Configuration

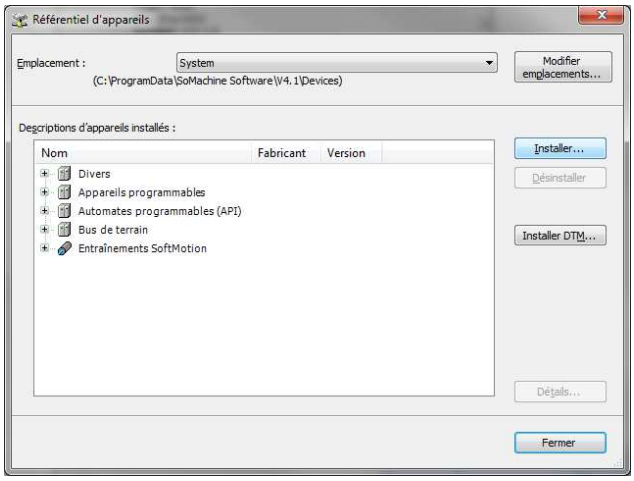
Launch SoMachine to configure your PLC and devices required for your project (here an M258)



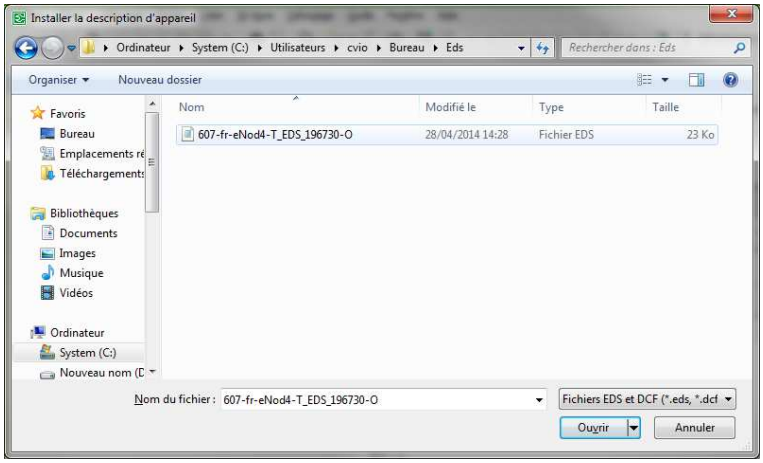
In SoMachine, click on « Tools », and then select: « device reference table ».



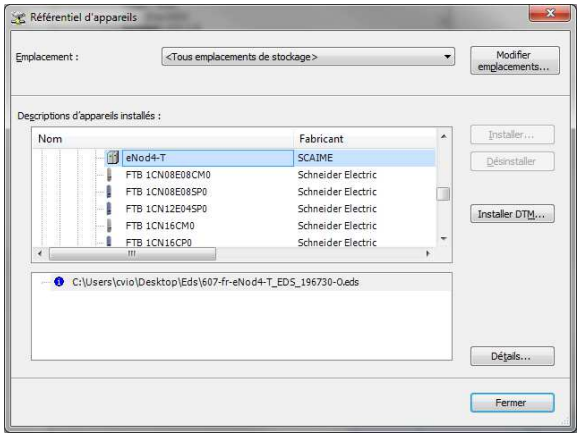
The pop-up window of the reference table appears: Click on « Install… » :



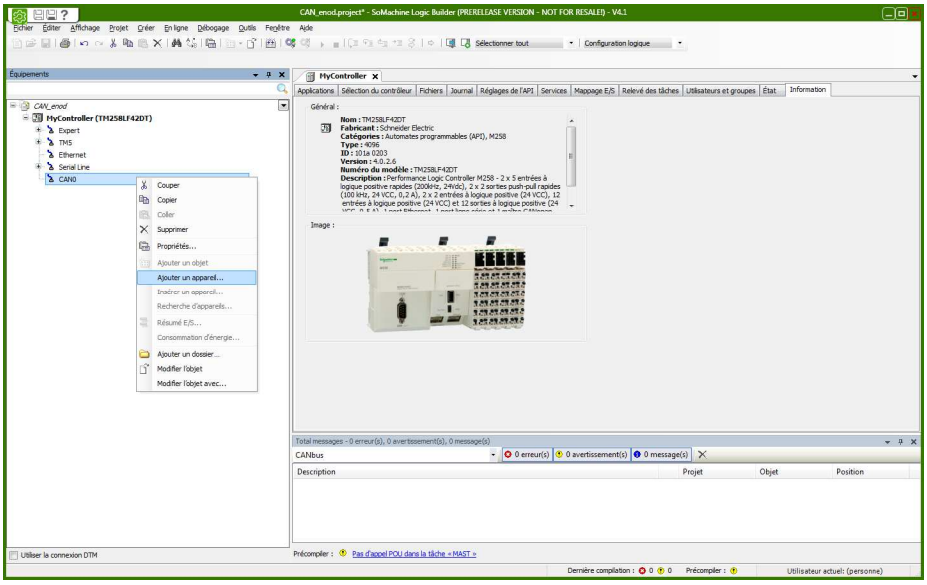
Select the EDS file of the corresponding eNod (here an eNod4-T) then click on « Open »:



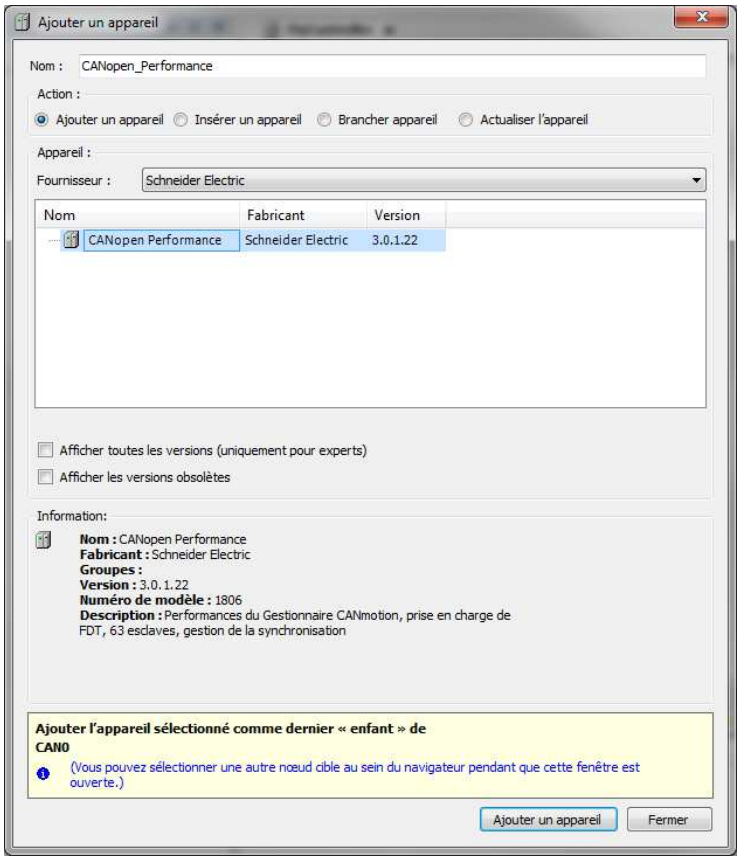
Verify in the reference table window that the EDS file has been added properly: you can find it in the following path: Field bus \ CANopen \ Distant device \ eNod4-T



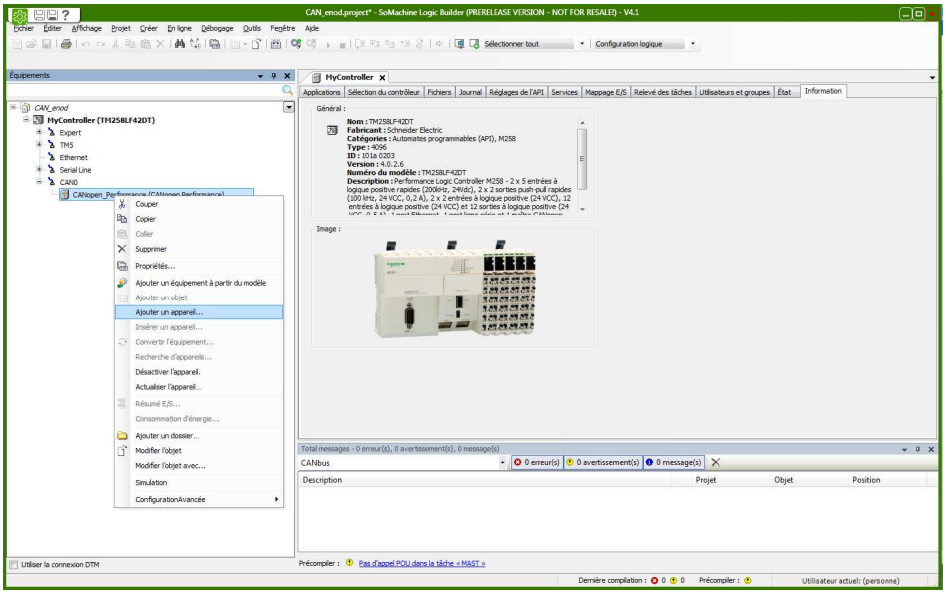
Close the window to come back at the start screen of the SoMachine builder: In the project browser, make a right click on « CAN0 » then select « Add a device… »



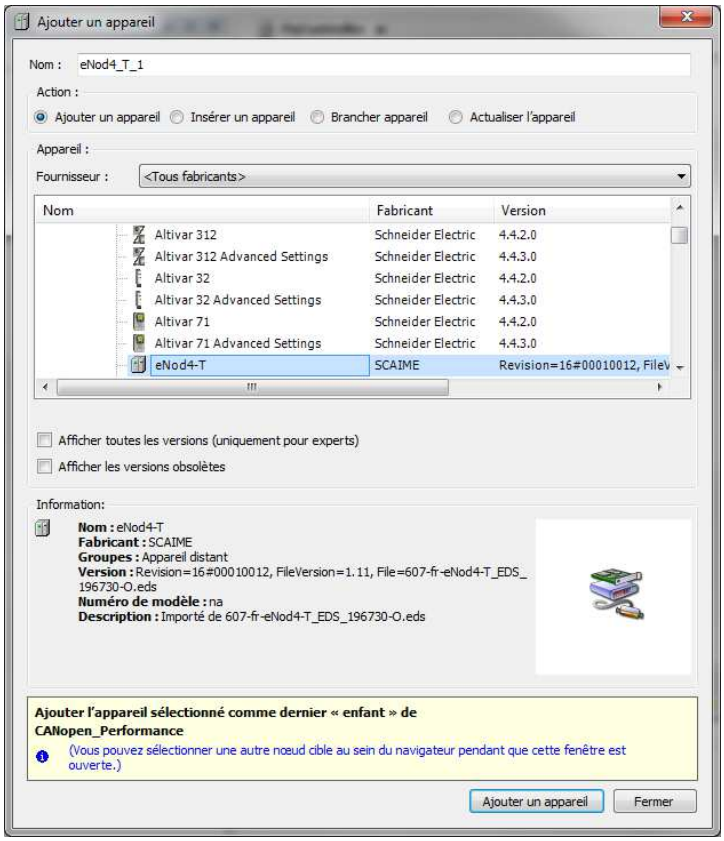
Select the « CANopen Performance » of Schneider Electric, click on « Add a device » and close the window.



In the project browser, click right on the device « CANopen performance » previously added and select « Add a device… »

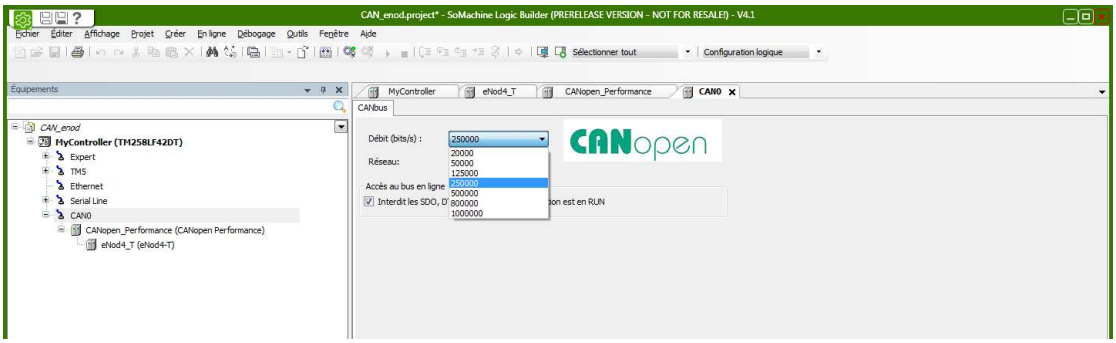


In the following path: Field bus \ CANopen \ Distant device. Select the eNod, then click on « Add a device » and close the window.

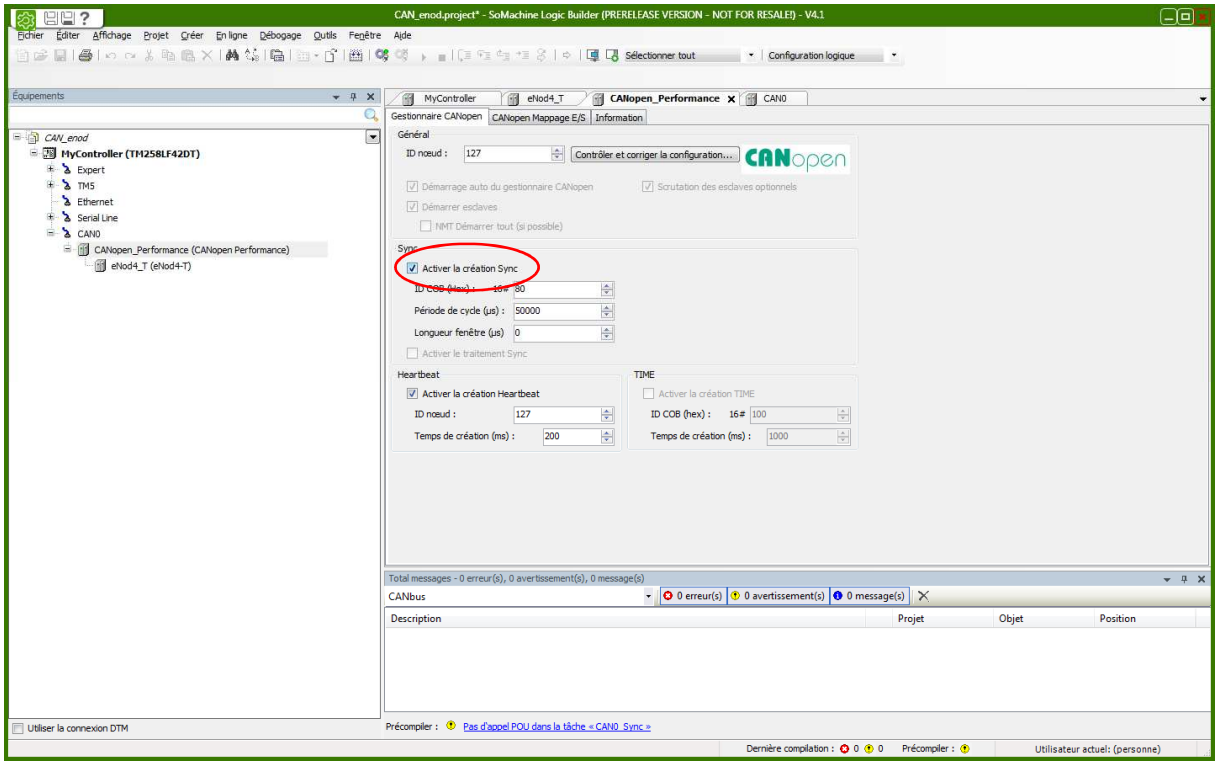


CANopen configuration

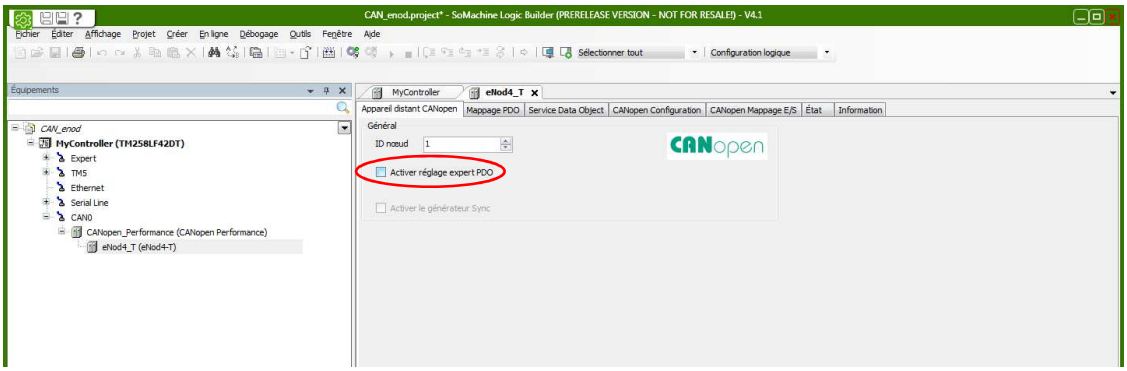
In the project browser, make a double click on « CAN0 » to configure the network baudrate:



Make a double click on the device « CANopen performance » then in the corresponding window tick « activate Sync generation » without this, the eNod won't be able to send PDO. You can also configure the node address of the CANopen master.

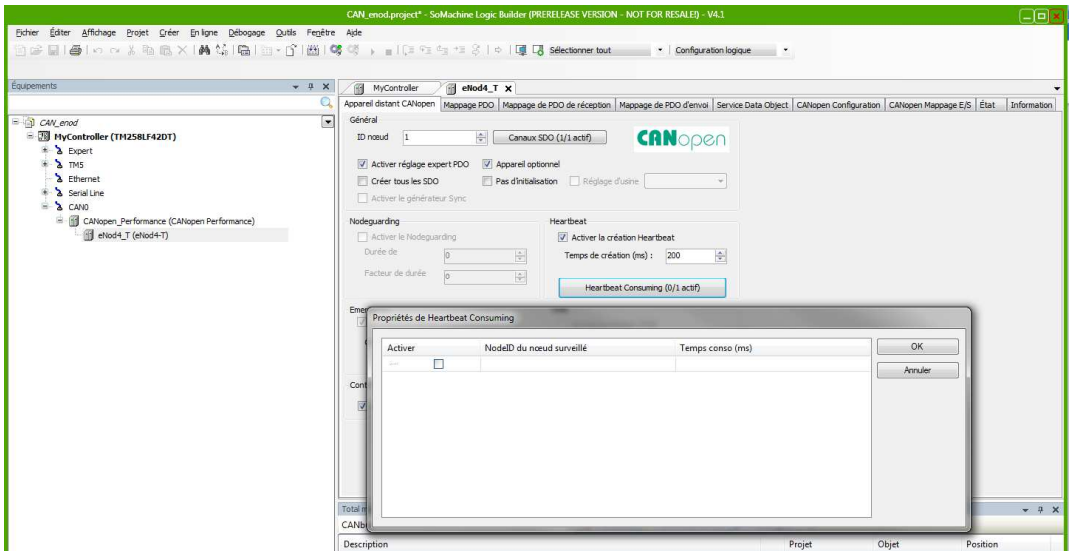


In the project browser, make a double click on the eNod4. The CANopen configuration window of the eNod is displayed. Tick « activate PDO expert configuration ».



In this window you access to all CANopen parameters configurable in the eNod.

We advise you to activate the Heartbeat generation but we advise to deactivate the heartbeat consuming (The PLC will monitor the eNod but there is no reason for the eNod to monitor the PLC). To do that, click on the button « Heartbeat consuming » and deselect the corresponding box.



You can now generate your project

Connect the PLC and load the project.

You can now visualize data and send commands by PDO.