

CAN

straton user guide – Rev. 6

sales@straton-plc.com



straton



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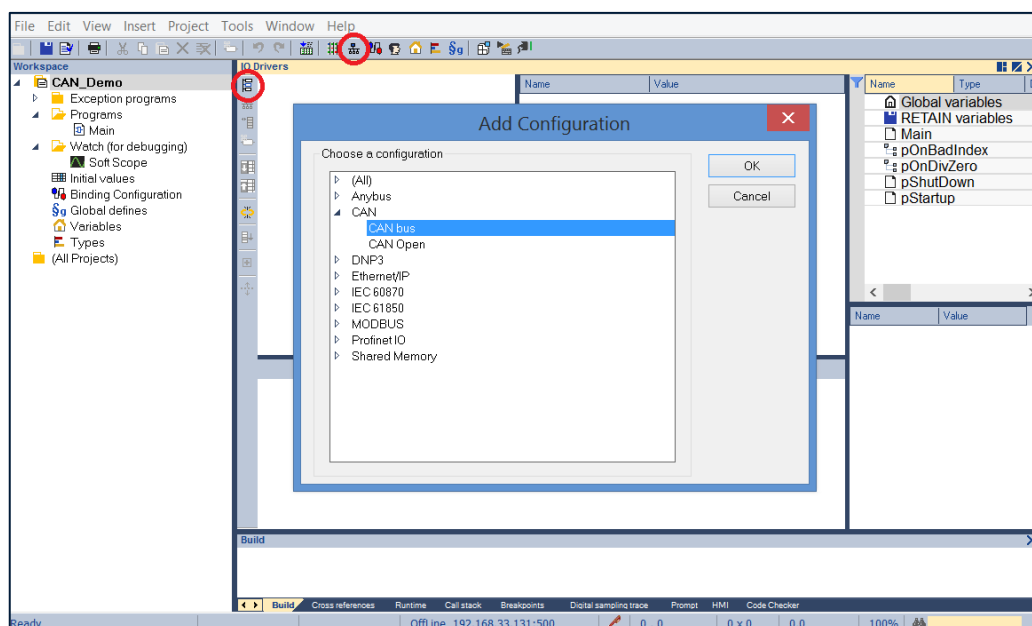
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1. Install Editor and Runtime

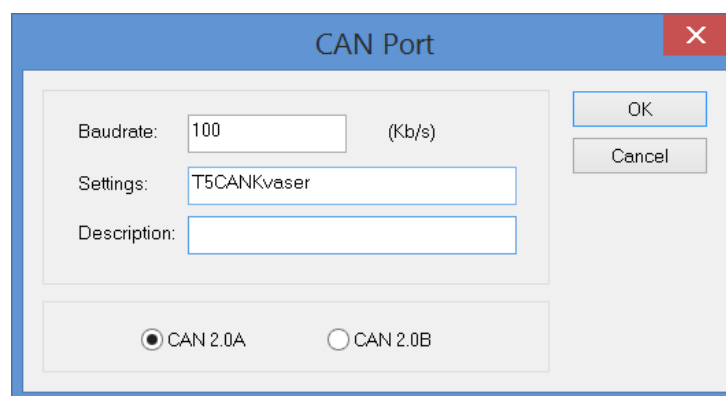
Download and install from <https://straton-plc.com/telechargements/>

2. Create a new project

Open the IO Drivers window (), insert a configuration () and select the CAN bus driver.

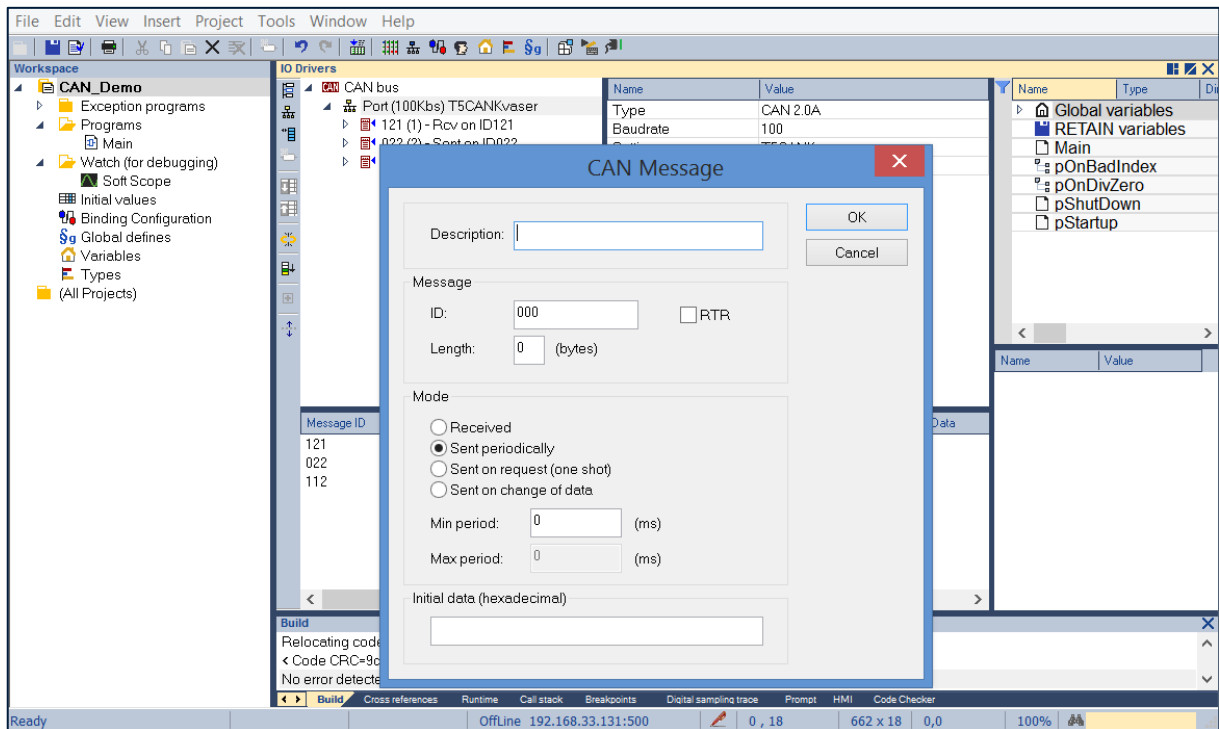



Insert a Master/Port () corresponding to your CAN controller.



(Different "Settings" parameters are available, see the FAQ at the end of this document)

Insert a Slave/Datablock () and enter the corresponding CAN information.

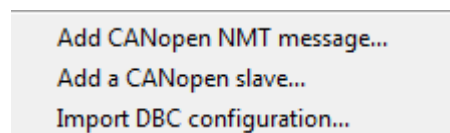


CAN data, contained in the CAN message, can be declared by inserting a variable () or using the wizard.

The wizard allows to:


- ▶ Declare the NMT message of CANopen
- ▶ Declare the PDO/SDO of CANopen
- ▶ Import a DBC configuration

Right click on the CAN port to open the wizard:



IMPORTANT:

For each variable (entire message or part of the message), the offset is in bytes.

The "Length" of the whole message () must be higher or equal to the sum of the lengths ("Size") of each part of the message ().

3. Download the application

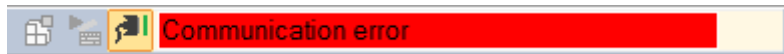
Download the application to the runtime:

- Select the communication parameters in menu Tools/Communication Parameters
- Establish the connection through menu Project/Online

RESULT IS:



The download is successful and application starts correctly.



The runtime is not started or communication parameters are wrong.



The application is not yet downloaded or an error occurs during startup. More detail can be found in the output view.

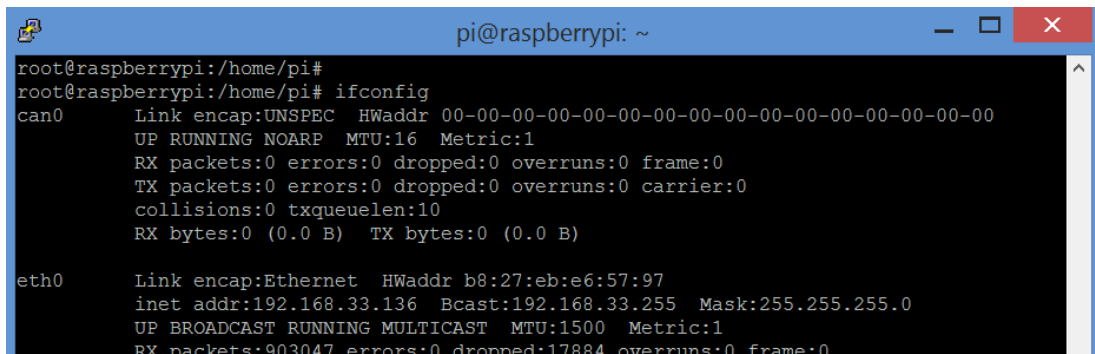
4. FAQ

WHAT ARE THE “SETTINGS” FOR THE CAN PORT?

The settings of the CAN port are OEM dependent; the following parameter are available for the runtime:

- ▶ Kvaser CAN: T5CANKvaser
- ▶ Grid Connect: T5CanGridConnect
- ▶ PEAK: T5CanGridConnect
- ▶ IXXAT: T5Canlxxat

If the runtime is embedded on a device, then this parameter must be the name of the CAN port, for example it can be “can0”



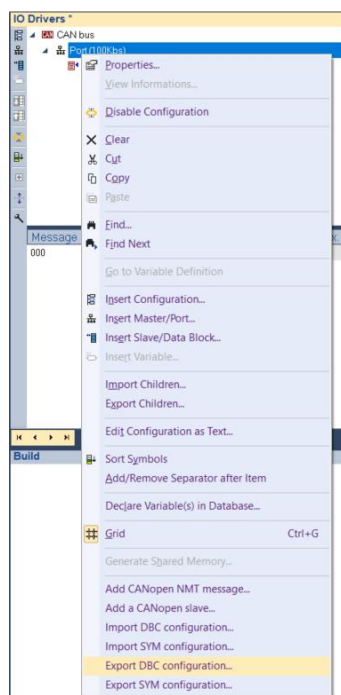
```

pi@raspberrypi: ~
root@raspberrypi:/home/pi# ifconfig
can0      Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          UP RUNNING NOARP  MTU:16  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:10
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

eth0      Link encap:Ethernet  HWaddr b8:27:eb:e6:57:97
          inet addr:192.168.33.136  Bcast:192.168.33.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:903047 errors:0 dropped:17884 overruns:0 frame:0

```

HOW CAN I EXPORT OR IMPORT THE PORT CONFIGURATION? IN WHICH FORMAT?



Right-click on the port configuration and select

- “Export SYM configuration”
- “Export DBC configuration”
- “Import SYM configuration”
- “Import DBC configuration”

Depending on the type of configuration you want to export or to import.