

# GeneSys ADMA Support for CANape 19

## Decoder for GeneSys ADMA Devices

Version of 2022-11-23

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**Contents**

**1 Specification ..... 3**

**2 Measurement Setup with CANape 19 ..... 4**

    2.1 ADMA Software Settings..... 4

    2.2 Hardware Setup..... 4

    2.3 Setup in CANape..... 5

        2.3.1 Installation of the Driver ..... 5

        2.3.2 Handling the Devices..... 5

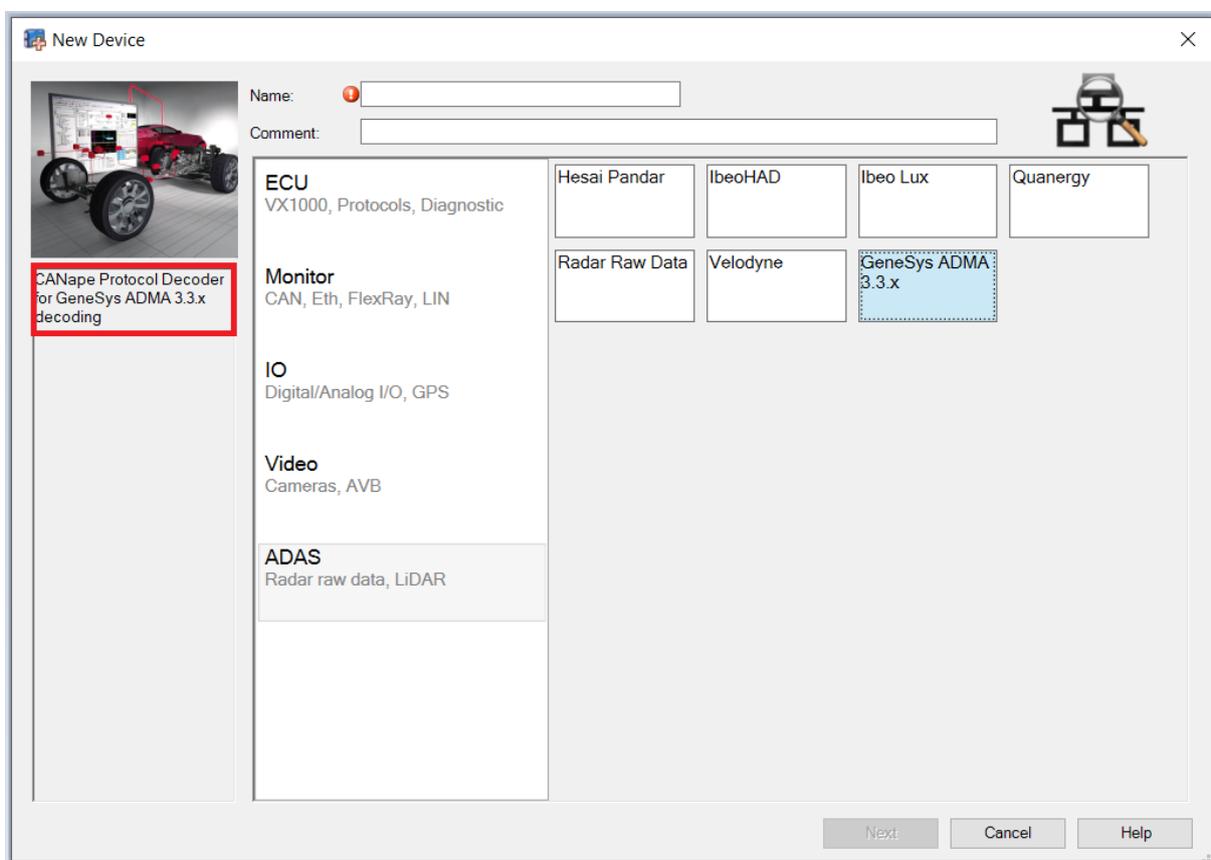
**3 Configuration Recording .....10**

# 1 Specification

The scope of this document is the integration of GeneSys ADMA in CANape 19 (as of Service Pack 5). For higher CANape versions, separate installers are available. Please find a detailed description of the measurement setup and signals in the GeneSys Technical Documentation for ADMA 3.0.

Only data formats of version V3.3.2, V3.3.3 and V3.3.4 are supported currently for the integration in CANape. If there are any other firmware versions that you wish to use with CANape 19 and onwards, please do not hesitate to contact us.

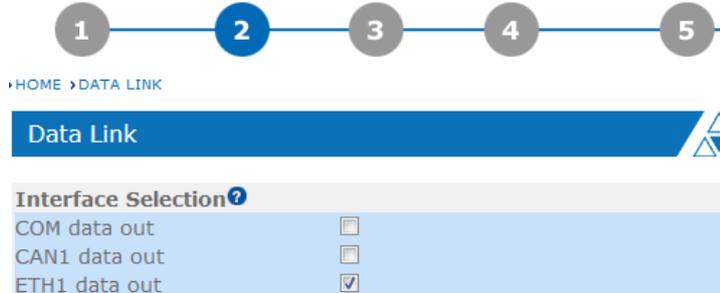
You will find a description of the supported versions of the addons / signals in the CANape device Manager:



## 2 Measurement Setup with CANape 19

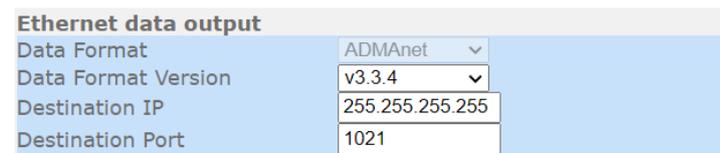
### 2.1 ADMA Software Settings

The data output of the ADMA must be set to Ethernet 1.



Please browse to your ADMA web interface to setup the device and start the measurement. The default address for the ADMA is: 192.168.88.30. Please refer to the GeneSys documents for further information.

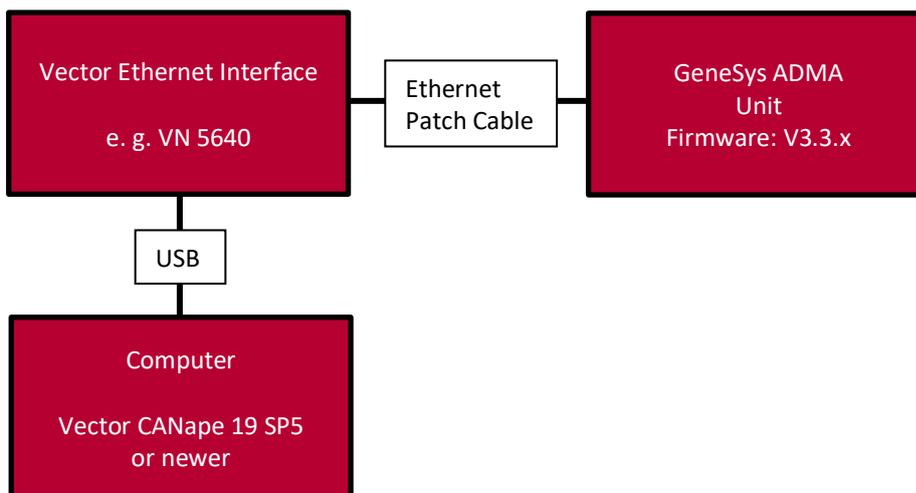
On page 3 of the ADMA web interface, head to the “Ethernet data output” section. Make sure you have entered the data as shown in the next illustration:



In this example we broadcast the data. You can also assign a dedicated IP Address here (e. g. 192.168.88.100).

### 2.2 Hardware Setup

The following illustration will give you an overview on how to setup your hardware to perform a measurement with CANape.



Please attach the Ethernet cable to one of the ports of the VN5640 / any other Vector Ethernet Interface:



## 2.3 Setup in CANape

### 2.3.1 Installation of the Driver

To install the plugin with the help of a graphical setup wizard, simply double-click the setup routine (e. g. "Vector\_GeneSys\_ADMA\_3.3.3\_Setup\_2.0.0.0.exe") and follow the instructions.

Naming convention of setup files:

Vector\_GeneSys\_ADMA\_{firmware version}\_Setup\_{plugin version}.exe

The files will be installed into: \$CANape\_DIR/Exec64/Plugins/ProtocolDecoder/GeneSys/

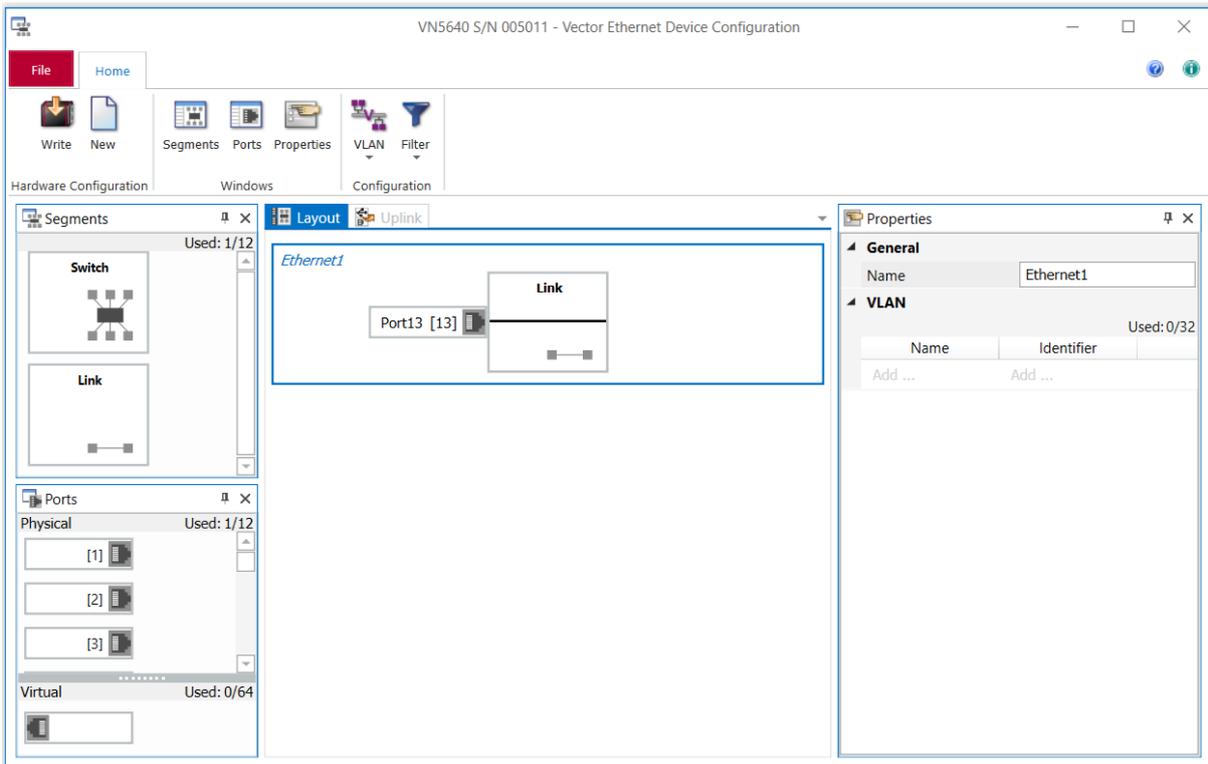
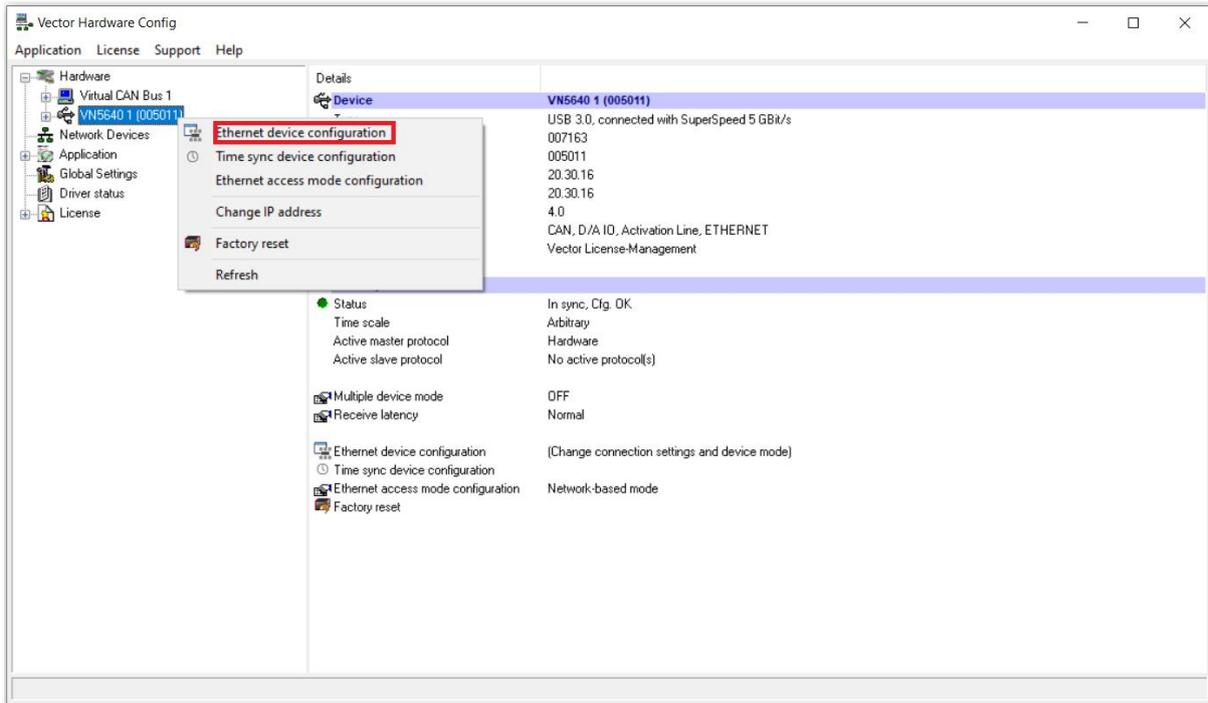
The setup will create the following structure:

> CANape > Exec64 > Plugins > ProtocolDecoder > GeneSys

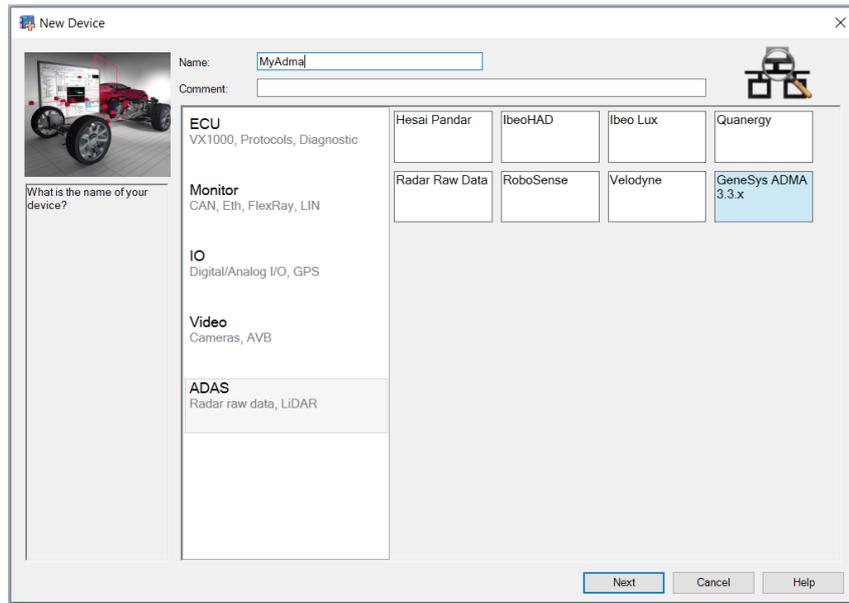
 GeneSys_ADMA	10.03.2022 10:06	A2L-Datei	243 KB
 GeneSys_ADMA.dll	01.06.2022 13:22	Anwendungserwei...	2.532 KB
 GeneSys_ADMA_3_3_2	10.03.2022 10:06	A2L-Datei	243 KB
 GeneSys_ADMA_3_3_3	10.03.2022 10:06	A2L-Datei	244 KB
 GeneSys_ADMAConfig	21.03.2022 15:49	JSON File	1 KB

### 2.3.2 Handling the Devices

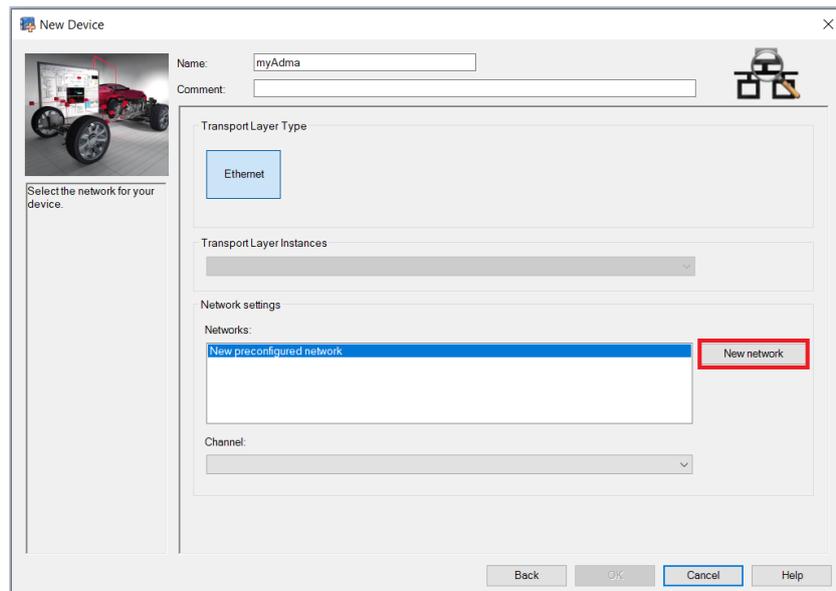
This section will describe the setup of the ADMA Unit in CANape. First, open the Vector Hardware Config and the Ethernet device configuration, design a network (named Ethernet1 in the picture) and a link to an Ethernet port on your VNxxxx:

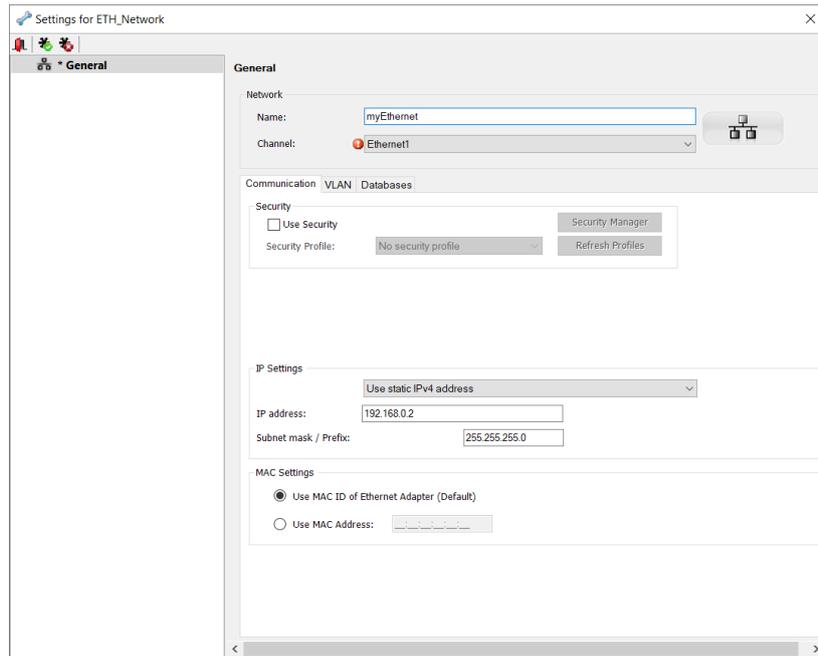


In this example the ADMA is connected to ETH13 on the VN5640. We set this channel to CANape Ethernet 1. Please start CANape and create a new device from the section “ADAS → GeneSys ADMA”:

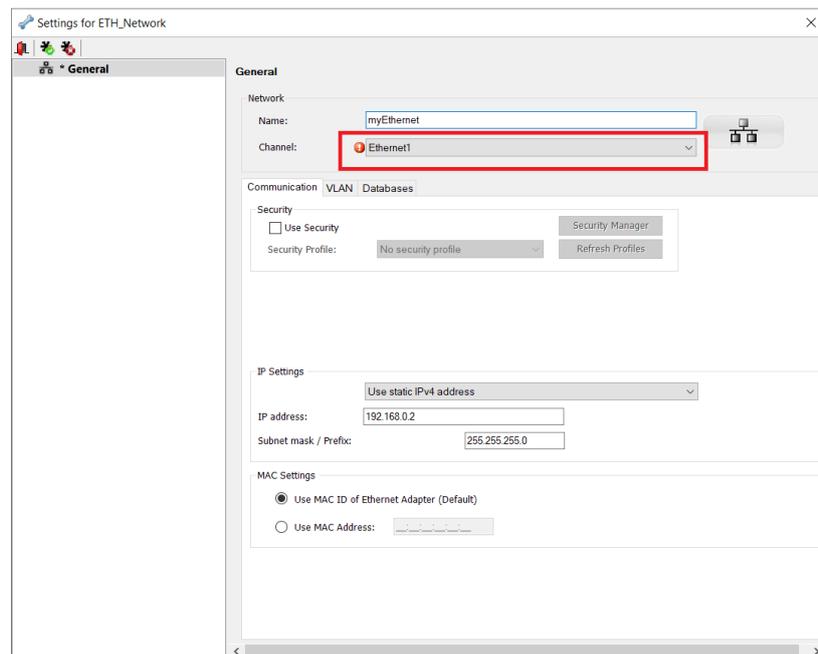


In the next step you will have to add the Ethernet network you created before:





Please note the tooltip and name your network as in the Vector hardware configuration:



Make sure the segment and the device are corresponding to your hardware setup.

Please enter the correct settings in the next step. Find an explanation below the illustration.

**Network**

Name:

Logical channel:



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**Information**

Company: Vector Informatik GmbH

Version: 20.0.0.0

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Connection

Protocol Settings

**Filter**

Protocol:  ▼

Source IP:

Source port:

Destination IP:  0.0.0.0 or 0 = disabled

Destination port:

The Protocol must be UDP as this is the format the ADMA will send.

Source IP : The IP Address of the ADMA on Ethernet1 (default is 192.168.88.30)

Source port : The Port of the ADMA where it sends out data on Ethernet1

Destination IP : IP Address, where the ADMA will send its data to. In our example we broadcasted the data, you can also add a dedicated IP here (e. g. 192.168.88.100 as seen above).

Destination Port : The Port on which CANape will listen for data

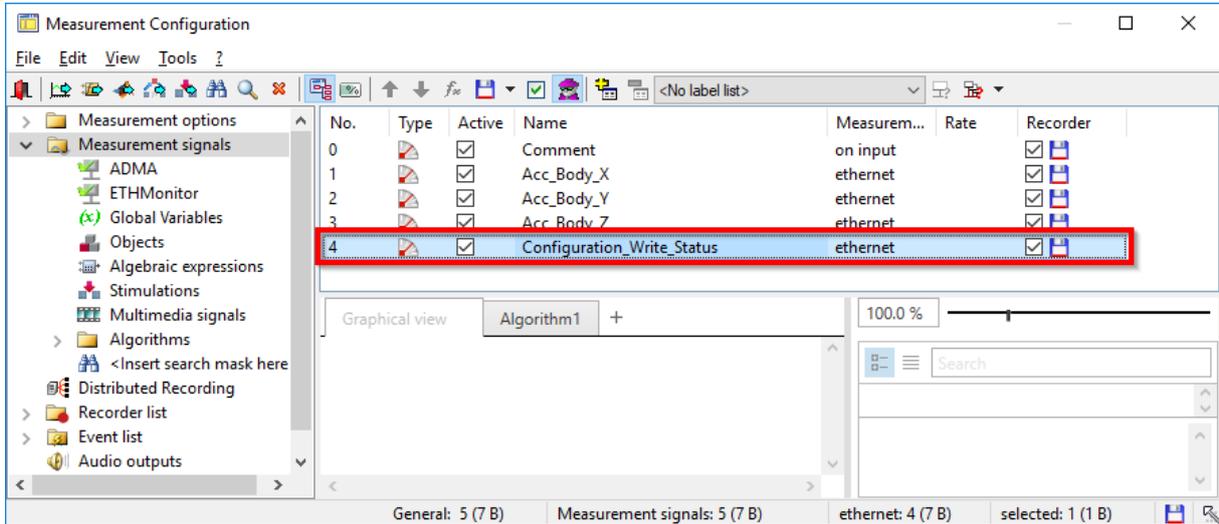
Please make sure that this filter is set up correctly, otherwise you will not receive any data.

### 3 Configuration Recording

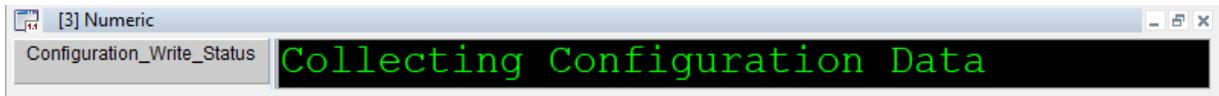
This feature is only available for ADMA 3.3.3.

In the data packet of the ADMA sensors, the GSCI configuration is transmitted piecewise in the dynamic header. The Decoder Plugin can record this configuration and then save it in the CANape project directory as a GSCI file.

To activate this behavior, only the "Configuration\_Write\_Status" signal must be measured in the CANape project. To do this, add the signal to the measurement configuration.



If the measurement is now started, the configuration elements are recorded.



As soon as the configuration has been completely transferred, this is saved in the file "ADMAnet\_Configuration.gsci" in the CANape project folder.

